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**DO THE SAME TEAMS ALWAYS WIN?  
GENDER DIFFERENCES IN THE CASE OF EUROPEAN HANDBALL**

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Módulo: Economía  
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## **ABSTRACT**

Competitive balance is one of the most critical issues in team sports competitions; in this case, the major problem of European handball is that the same teams repeatedly win. Here, the sport has traditionally been dominated by a few powerhouse nations, including Denmark, France, Spain, and Germany, while other countries have struggled to compete at the highest levels. There exist some reasons behind this fact. Therefore, this study aims to analyze this rationale using quantitative methods, taking into consideration the different teams from these countries, in order to study this inequality. The period to be analyzed is 2007-2008 to 2021-2022 (n=15 seasons). Gender differences are taken into consideration. A severe lack of uncertainty of outcome has crucial effects on rivalry and follower rates. In other words, the increased competitive imbalance should particularly interest those who manage national leagues.

**Keywords:** competitive balance, European handball, inequality, gender

## **RESUMEN (Español)**

El balance competitivo es una de las cuestiones más importantes en la competición de deportes de equipo; en este caso, el principal problema del balonmano europeo es que repetidamente ganan los mismos equipos. Tradicionalmente, este deporte ha estado dominado por unas pocas potencias, como Dinamarca, Francia, España y Alemania, mientras que otros países han tenido dificultades para competir al más alto nivel. Existen algunas razones detrás de este hecho. Por lo tanto, el objetivo de este estudio es analizar esta razón utilizando métodos cuantitativos teniendo en cuenta a los diferentes equipos de estos países, para estudiar la desigualdad. El periodo de tiempo a analizar es 2007-2008 to 2021-2022 (n=15). Se consideran las diferencias de género. Una grave falta de incertidumbre en los resultados tiene efectos cruciales en los índices de rivalidad y de seguidores. En otras palabras, el aumento del desequilibrio competitivo debería ser de especial interés a quienes gestionan las ligas nacionales.

**Palabras clave:** balance competitivo, balonmano europeo, desigualdad, género



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## 1. INTRODUCTION

During the last decades, the competitive balance has suffered a worrying tendency: the problem of the same teams repeatedly winning in multiple leagues. Sports commentators, fans, and economists are carriers of this fact (Sanderson & Siegfried, 2003). In the case of European handball, this tendency has been evident over the last decades, whether in women's or men's competitions.

In order to give rise to the reasoning behind this fact, this research paper will focus on finding the best answer to the following question: *do the same teams always win?* The grade, improvement, or worsening over the time analyzed will be the subject of analysis. In fact, all other things being equal, increased demand should result from a stronger competitive balance (Humphreys, 2002).

As further explained, I will focus on comparing women's and men's national leagues across countries (Denmark, France, Germany, and Spain) in a specific time interval (n=15 seasons) to obtain quantitative indicators to secure a trustworthy database to analyze. The process of selecting these specific countries will be further explained in section 3, which gives rise to all the facts regarding antecedents and objectives.

Overall, this research paper aims to provide a valuable contribution to the ongoing discussions about the state of European handball and the measures that can be taken to improve its competitiveness. In addition, it can help the number of publications of empirical evidence about handball grow, given the fact that it is not very extensive (especially in the case of women). True as it is, "*appropriate measurement of competitive balance is central to the economic analysis of professional sports leagues*" (Owen & King, 2014: p.1).

Conclusions and their respective discussion will be provided at the end of the document, followed by the limitations and the possible further research of the topic or potentially related ones.

## 2. LITERATURE REVIEW

### 2.1. What is the competitive balance?

Competitive balance stands for “*the situation in which no one business of a group of competing businesses has an unfair advantage over the others*” (Cambridge Dictionary, 2023). Thus, in sports economics, competitive balance refers to the equality of forces, chances, and probabilities that rival teams in a league or championship have to prevail over the rest. This is, the competitive balance would exist if, at the start of a season, every team would have equal possibilities to win a league or to classify into a specific championship, instead of always being some specific teams who happen to dominate. “*Competitive balance, how evenly teams are matched, is a central feature of the economic analysis of professional sports leagues; consequently, its measurement has received considerable attention in the sports economics literature*” (Owen & King, 2014: p.1).

The majority of the scientific literature on competitive balance emphasizes the structure of the competition and how it works, which has focused on determining the possible factors that can affect competitive balance in different leagues. Some multiple factors or determinants set one league apart from another and may affect the balance of the competition (García-Unanue et al., 2014). The establishment of open or closed leagues, playoffs, and a greater number of national and international competitions are all examples of these elements.

Competitive balance is not easy to define or measure, but it is studied because it has major important implications for sport and its success and achievement. In fact, “*appropriate measurement of competitive balance is central to the economic analysis of professional sports leagues*” (Owen & King, 2014: p.1). As Owen and King state, “*simulation methods are used to evaluate the effects of changes in season length on the distributions of competitive balance measures for different distributions of the strengths of teams in a league*” since it “*provides an ideal approach to evaluate the effects of such changes on the distributions of competitive balance measures for prespecified and hence known distributions of the strengths (abilities) of the teams*”.

The **main issue** with competitive balance in handball is the following: there exists a major lack of uncertainty regarding which team will win different leagues.



As mentioned in the article “Does Competitive Balance Drive Interest In Sports?” (Badenhausen, 2015) “*uncertainty of outcomes in competition is what drives fans, media, sponsors and dollars to the sports industry. If a single or a small collection of teams could sign all the best players then what excitement would these games provide?*”. Clear as it is, knowing in advance what the result will be can bore anyone in any sport or aspect of life. In other words, we need suspense to have interest and allure for something. **Intrigue is key for captivation.** Nonetheless, Badenhausen (2015) supports the idea that the possible cause for sports leagues being so successful nowadays may be due to few teams dominating most leagues, which calls the previous point into question.

If the competitive balance in a league is low, it is clear that fan interest in the weaker teams will fall and, eventually, fan interest in the stronger teams will also fall. Therefore, a higher competitive balance should lead to higher demand, all other things being equal (Humphreys, 2002).

Being this the case, there exists a crucial question to this matter: what are the **possibilities for the improvement** of competitive balance?

The potential stands predominantly in salary caps (maximum limit on total team salary expenditure), and revenue sharing (Kesenne, 2019). By penalizing teams that do not meet the specified requirements, they attempt to prevent the accumulation of the best players on a few teams and achieve a more balanced squad. Since these options have been the subject of numerous authors' publications, it is reasonable to assume that they are the most widely used. Howbeit, Kesenne (2019) does not recommend the aspiration of a transfer system aimed at limiting player mobility unless it pursues a real eradication, since it may not be enough. Nonetheless, other authors have different opinions about the effectiveness of these methods, thus this is not an undisputed truth.

## **2.2. Implications in different sports**

Competitive balance is indeed addressed in different ways by the rules and norms of each sport. As a result, this section of the paper is devoted to providing readers with a brief overview of some leagues of the most popular sports. Considering that competitive

balance is expected to be measured in team sports, some of the overriding pieces of information about basketball and football will be given.

Taking glances at **basketball**, some findings indicate that the NBA (National Basketball Association) as a whole has a better balance of competition than the European leagues, but these differences disappear when the conferences are looked at separately (García-Unanue et al., 2014). It is true that the NBA places restrictions on the opposition that continue to favor the chance of making it more appealing to viewers. More specifically, the salary cap system is in place. Additionally, the NBA draft enables lower-ranked teams to acquire new players and thus compete for the top spots in subsequent seasons.

Regarding **football** in the case of “La Liga” in Spain, we can see that *“The supremacy of a few teams over the other participants is a common factor in the major European football leagues. The Spanish First Division league is not an exception”* (Montes et al., 2012, p.1). Given the possibility of having ties and the repartition of points in this sport, the competitive balance should be measured in terms of accumulated points at the end of the season instead of the percentage of wins. In this case, the most balanced tournament will be the one in which the points difference between the competitors is the smallest possible, as this reflects a better chance of winning the title or qualifying for continental tournaments for all clubs during a season (Gasparetto & Barajas, 2016). In Spain's Liga BBVA, two teams frequently compete for a spot in the UEFA Champions League (FCB and Real Madrid), as well as three teams that are significantly stronger than the others in terms of results.

### **2.3. About handball**

Gazing at the **history** of this sport, it was first played outdoors by 11 players in Scandinavia in the early 19th century (Saavedra, 2018) and slowly evolved to a 7-people-per-team indoor game that is played by around 19 million people worldwide (International Handball Federation, 2014). In 2021, 92,539 people were federated in this sport in Spain, only surpassed by football, hunting, golf, mountain and climbing, basketball, and paddle tennis (Statista Research Department, 2022). It is played in two 30-minute halves, in which two teams fight to score more goals than the opponent.

**Nowadays**, handball is one of the most popular indoor sports played worldwide, having

a special weight in Europe. This is why European Handball is among the main hubs of its competitive scene, as seen in the latest results of World Cups. It has been included as a sport to compete at the Olympic Games since 1972 (men) and since 1976 (women).

This sport is said to be considerably profound since it includes some “*specific characteristics... frequent intensity changes, team-handball techniques, hard body confrontations, mental skills, and social factors specify the determinants of coordination, endurance, strength and cognition*” (Wagner et al., 2014: p.1). In fact, “*team handball is a **complex** sports game that is determined by the individual performance of each player as well as tactical components and interaction of the team*”, meaning that it is the talent of uniting individual strengths that makes a team outstanding. The previously mentioned research paper separates team-handball performance into two main components which are individual performance (coordination, strength, endurance, constitution-disposition, and nutrition) and team performance (cognition, social factors, and tactics), taking into consideration that external influences such as material and environmental conditions are crucial.

As stated by various research papers in the last decades, there is not enough **research** about this sport. “*Although there are comprehensive studies examining individual performance in team-handball players of different experience level, sex, or age are published, there is a lack of training studies, particularly for team-handball specific techniques and endurance, as well as cognition and social factors*” (Wagner et al., 2014: p.1) and “*Despite the sport's popularity, scientific publications on handball have been scarce*” (Saavedra et al., 2018: p.6) are some of the multiple examples that uncover this fact. Presently, if we take the case of the bibliographic database Scopus, we can see that there are just 1,898 documents that include the word “handball” in the article’s title and 1,086 in the keywords, whereas for the case of “football” 17,153 and 22,356 documents can be found, respectively. If we search “competitive balance” and “handball”, we will only face 8 results. This fact has had an impact on this paper since it has been forced to be further completed with opinion articles from official and well-known web pages because academic articles are more scarce than in other sports such as football, tennis, or basketball.

The previously mentioned problem of competitive balance in handball happens all across Europe; but if we focus on the case of **masculine handball in Spain**, it is known

that during the last few years, there is no doubt that FC Barcelona will win every ASOBAL league, year after year, repeatedly. Even if they have had some competitive opponents in previous years, they have been undefeated since 2009-2010, when CD Ciudad Real won the league (ASOBAL, 2023). Caja España Ademar (León) and Portland San Antonio (Navarre) are the other teams that have been able to surpass FCB in this century.

On the other hand, regarding **female handball in Spain**, there exists a little bit more uncertainty, since there have been different teams winning the league in the last century, even if there are still a few teams in real competition. Since the 2008-2009 sports year, S. D. Itxako (Navarre) has achieved the prize 4 consecutive times and Balonmano BeraBera (Basque country) 8 times, while Club Balonmano Atlético Guardés (Galicia) and Rocasa Gran Canaria are unusual winners (Almenzar, 2022). The presently named Liga Iberdrola has been called División de Honor Femenina (1982-2005), Liga Costa Blanca ABF (2005-2007), Liga ABF (2007-2011), División Honor Femenina (2011-2015) Liga Loterías de Balonmano Femenino (2015-2017) and finally Liga Guerreras Iberdrola (2017-present).

In addition, gender is present in this research, thus it is important to mention that gender inequality affects (almost) every detail of handball competition, and competitive balance is not an exception. One of the more relevant and obvious reasons may be **budgeting**. Comparing the examples previously used, FC Barcelona has won 20 ASOBAL leagues in the last century, being the referent team. In Iberdrola, Balonmano Bera Bera is in the same situation, having won 8 leagues in the same period. Iconic players have been part of both teams, but there happens to be a difference; FCB's annual budget stands at almost 9 million euros in 2021 (Izquierdo, 2021), whereas Bera Bera was 805.000€ in 2022-2023 (Soler Olcina, 2023). This results in the budget of the men's team with the most league wins in recent years being approximately 11 times that of the women's team. In other words, 1 annual budget of FCB is similar to 11 annual budgets of Bera Bera. The outcome is clear; it is not by chance that female players tend to search for better opportunities outside of our territory as soon as they acquire a reputation, as is the case of Nerea Pena, Lysa Tchaptchet, or Paula Arcos. "*Budgets have increased in recent years, but the overall 6 million for elite handball in Spain is a far cry from the +25 million in Romania and the +30 million in France*" states Soler Olcina (2023).

### 3. OBJECTIVES

After deciding what the theoretical framework would be, the decision was to study women's and men's handball national leagues across some European countries in a 15-year time interval.

The reasoning behind having chosen European leagues was that it is the territory where more competition and high level there is regarding this specific sport. In fact, as an interesting point, winning a World Cup is considered to be easier than winning a European tournament, since being confronted by non-European teams is to some extent deemed to be an advantage compared to other possible opponents. Therefore, analyzing some of the most relevant countries forming this sportive apex was undoubtedly the best option. Even if analyzing national teams was an option, the decision was to do further research about teams in these countries.

Related to the previous fact, choosing the most appropriate samples was a tough task. To select relevant countries for both masculine and feminine leagues, national teams played an important role. Being among those who more often have won European (Diario AS, 2023) and World Tournaments (Diario AS, 2021) was a must taking into consideration that both genders should be contemplated.

The following table (Table 1) brings together which countries in general and what leagues specifically will be the sample to be analyzed across this research paper.

Table 1: Danish, French, German, and Spanish male and female handball leagues

| <b>COUNTRIES</b> | <b>MEN'S LEAGUES</b>        | <b>WOMEN'S LEAGUES</b> |
|------------------|-----------------------------|------------------------|
| <b>Denmark</b>   | Danish League Association   | Bambusa Kvindeligaen   |
| <b>France</b>    | Ligue Nationale de Handball | Ligue Butagaz Énergie  |
| <b>Germany</b>   | Toyota Handball-Bundesliga  | Bundesliga             |
| <b>Spain</b>     | Asobal                      | Iberdrola              |

*Source: own elaboration*

In a nutshell, the importance of this research stands in the evolution over time and the differences in gender concerning the competitive balance of European handball, putting special emphasis on the teams within each country instead of national teams.

#### 4. DATA AND METHODOLOGY

With the aim of solving the question of “do the same teams always win?” and its evolution over time, a database has been created, putting together information from results in European handball (regarding Germany, Denmark, France, and Spain for both genders). The classifications of all the seasons per country and gender have been retrieved from flash score (flashscore.es).

Here, there exists one page for each country and gender; this is, one for German men, one for German women, etc. The 15 seasons considered (2007-2008 to 2021-2022) have been organized in the horizontal axis of each table, following a chronological order. Teams from each of the national leagues stand on the vertical axis. Of course, the number of teams participating in a national league may vary across countries and over time, since regulations have been different.

Each of the different categories has an independent page, which is organized the following way: Spanish women (Table 2), Spanish men (Table 3), Danish women (Table 4), Danish men (Table 5), French women (Table 6) French men (Table 7), German women (Table 8), and German men (Table 9).

Table 2: Spanish women’s handball league’s latest classifications

| 2021-2022 |                 |        | 2020-2021 |                  |        | 2019-2020 |                 |        | 2018-2019 |                 |        | 2017-2018 |                  |        |
|-----------|-----------------|--------|-----------|------------------|--------|-----------|-----------------|--------|-----------|-----------------|--------|-----------|------------------|--------|
| POSITION  | TEAM            | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM             | POINTS |
| 1         | Bera Bera       | 49     | 1         | Bera Bera        | 26     | 1         | Bera Bera       | 30     | 1         | Rocasa          | 45     | 1         | Bera Bera        | 46     |
| 2         | Málaga          | 41     | 2         | Granollers       | 23     | 2         | Elche           | 26     | 2         | Bera Bera       | 41     | 2         | Guardes          | 46     |
| 3         | Rocasa          | 36     | 3         | Rocasa           | 23     | 3         | Guardes         | 23     | 3         | Guardes         | 35     | 3         | Rocasa           | 39     |
| 4         | La Calzada      | 35     | 4         | Guardes          | 22     | 4         | La Calzada      | 22     | 4         | Granollers      | 34     | 4         | La Calzada       | 35     |
| 5         | Guardes         | 35     | 5         | Elche            | 20     | 5         | Málaga          | 16     | 5         | La Calzada      | 33     | 5         | Aula Valladolid  | 35     |
| 6         | Elche           | 32     | 6         | Málaga           | 20     | 6         | Granollers      | 16     | 6         | Málaga          | 33     | 6         | Málaga           | 34     |
| 7         | Granollers      | 32     | 7         | Aula Valladolid  | 18     | 7         | Aula Valladolid | 15     | 7         | Elche           | 31     | 7         | Zuazo            | 29     |
| 8         | Aula Valladolid | 28     | 8         | La Calzada       | 16     | 8         | Rocasa          | 14     | 8         | Aula Valladolid | 28     | 8         | Granollers       | 26     |
| 9         | Zuazo           | 24     | 9         | Zuazo            | 13     | 9         | Tenerife        | 10     | 9         | Zuazo           | 23     | 9         | Porrño           | 21     |
| 10        | Porrño          | 22     | 10        | Tenerife         | 11     | 10        | Zuazo           | 10     | 10        | Porrño          | 18     | 10        | Puig d'en Vallis | 18     |
| 11        | Morvedre        | 15     | 11        | Porrño           | 9      | 11        | Porrño          | 7      | 11        | Alcobendas      | 17     | 11        | Elche            | 16     |
| 12        | Sant Quirze     | 7      | 12        | San Jose         | 9      | 12        | Alcobendas      | 3      | 12        | Morvedre        | 12     | 12        | Valencia         | 11     |
| 13        | Tenerife        | 5      | 13        | Morvedre         | 6      |           |                 |        | 13        | Valencia        | 9      | 13        | Castellón        | 8      |
| 14        | Lanzarote       | 3      | 14        | Atlántico Pereda | 4      |           |                 |        | 14        | Castellón       | 5      | 14        | Vilavede         | 0      |
|           |                 |        | 15        | Cordoba          | 4      |           |                 |        |           |                 |        |           |                  |        |
|           |                 |        | 16        | Puerto del Carme | 0      |           |                 |        |           |                 |        |           |                  |        |

| 2016-2017 |                 |        | 2015-2016 |                 |        | 2014-2015 |                 |        | 2013-2014 |                 |        | 2012-2013 |                 |        |
|-----------|-----------------|--------|-----------|-----------------|--------|-----------|-----------------|--------|-----------|-----------------|--------|-----------|-----------------|--------|
| POSITION  | TEAM            | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM            | POINTS |
| 1         | Guardes         | 48     | 1         | Bera Bera       | 48     | 1         | Bera Bera       | 48     | 1         | Bera Bera       | 46     | 1         | Bera Bera       | 47     |
| 2         | Bera Bera       | 46     | 2         | Rocasa          | 48     | 2         | Rocasa          | 45     | 2         | Rocasa          | 44     | 2         | Elche           | 45     |
| 3         | Rocasa          | 40     | 3         | Guardes         | 38     | 3         | Guardes         | 42     | 3         | Alcobendas      | 39     | 3         | Rocasa          | 42     |
| 4         | Málaga          | 34     | 4         | Alcobendas      | 32     | 4         | Alcobendas      | 37     | 4         | Guardes         | 32     | 4         | Alcobendas      | 38     |
| 5         | Zuazo           | 34     | 5         | Porrño          | 30     | 5         | Elche           | 34     | 5         | Porrño          | 28     | 5         | Guardes         | 35     |
| 6         | Aula Valladolid | 30     | 6         | Zuazo           | 28     | 6         | Aula Valladolid | 31     | 6         | Elche           | 27     | 6         | Porrño          | 27     |
| 7         | Porrño          | 25     | 7         | Aula Valladolid | 28     | 7         | Porrño          | 22     | 7         | Aula Valladolid | 24     | 7         | Cleba           | 22     |
| 8         | Valencia        | 19     | 8         | Valencia        | 21     | 8         | Zuazo           | 21     | 8         | Zuazo           | 22     | 8         | Zuazo           | 20     |
| 9         | Elche           | 19     | 9         | Málaga          | 21     | 9         | Valencia        | 21     | 9         | Valencia        | 21     | 9         | Alicante        | 19     |
| 10        | Granollers      | 18     | 10        | Cleba           | 19     | 10        | Málaga          | 20     | 10        | Cleba           | 20     | 10        | Valencia        | 19     |
| 11        | La Calzada      | 18     | 11        | Elche           | 18     | 11        | Cleba           | 15     | 11        | Alicante        | 19     | 11        | Itxako          | 17     |
| 12        | Vilavede        | 14     | 12        | Granollers      | 18     | 12        | Granollers      | 15     | 12        | Castelldefels   | 17     | 12        | Kukullaga       | 16     |
| 13        | Alcobendas      | 13     | 13        | Oviedo          | 9      | 13        | Castelldefels   | 7      | 13        | Cordoba         | 13     | 13        | Castelldefels   | 15     |
| 14        | Cleba           | 6      | 14        | Zarauz          | 6      | 14        | Córdoba         | 6      | 14        | Kukullaga       | 12     | 14        | Castro Urdiales | 2      |

| 2011-2012 |                 |        | 2010-2011 |                 |        | 2009-2010 |                 |        | 2008-2009 |              |        | 2007-2008 |                 |        |
|-----------|-----------------|--------|-----------|-----------------|--------|-----------|-----------------|--------|-----------|--------------|--------|-----------|-----------------|--------|
| POSITION  | TEAM            | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM         | POINTS | POSITION  | TEAM            | POINTS |
| 1         | Itxako          | 50     | 1         | Itxako          | 50     | 1         | Itxako          | 46     | 1         | Itxako       | 50     | 1         | Valencia        | 47     |
| 2         | Bera Bera       | 45     | 2         | Eida            | 39     | 2         | Eida            | 43     | 2         | Parc Sagunt  | 43     | 2         | Eida            | 45     |
| 3         | Parc Sagunt     | 35     | 3         | Parc Sagunt     | 37     | 3         | Parc Sagunt     | 39     | 3         | Eida         | 42     | 3         | Itxako          | 43     |
| 4         | Alcobendas      | 32     | 4         | Alicante        | 34     | 4         | Alicante        | 36     | 4         | Bera Bera    | 40     | 4         | Sidabieta       | 39     |
| 5         | Alicante        | 32     | 5         | Bera Bera       | 30     | 5         | Cleba           | 31     | 5         | Alicante     | 36     | 5         | Sagunto         | 35     |
| 6         | Elche           | 30     | 6         | Elche           | 28     | 6         | Bera Bera       | 29     | 6         | Elche        | 28     | 6         | Alcobendas      | 33     |
| 7         | Rocasa          | 25     | 7         | Cleba           | 23     | 7         | Elche           | 24     | 7         | Goya Koppert | 27     | 7         | Granollers      | 31     |
| 8         | Cleba           | 22     | 8         | Castro Urdiales | 23     | 8         | Goya Koppert    | 24     | 8         | Cleba        | 23     | 8         | Castro Urdiales | 27     |
| 9         | Eida            | 22     | 9         | Alcobendas      | 21     | 9         | Castro Urdiales | 23     | 9         | La Calzada   | 22     | 9         | Porrño          | 26     |
| 10        | Murcia          | 20     | 10        | Murcia          | 21     | 10        | Alcobendas      | 23     | 10        | Alcobendas   | 14     | 10        | La Calzada      | 23     |
| 11        | Porrño          | 20     | 11        | Gran Monovar    | 18     | 11        | Rocasa          | 19     | 11        | Rocasa       | 13     | 11        | Parc Sagunt     | 20     |
| 12        | Castro Urdiales | 16     | 12        | Goya Koppert    | 17     | 12        | Marina Park     | 15     | 12        | Ribarroja    | 12     | 12        | Rozpietas       | 19     |
| 13        | Kukullaga       | 11     | 13        | Rocasa          | 15     | 13        | La Calzada      | 12     | 13        | Zuazo        | 8      | 13        | Gijón           | 13     |
| 14        | La Calzada      | 4      | 14        | Marina Park     | 8      | 14        | Ribarroja       | 0      | 14        | Gran Monovar | 6      | 14        | Chapeta         | 8      |

Source: own elaboration

Table 3: Spanish men's handball league's latest classifications

| 2021-2022 |                     |        | 2020-2021 |                     |        | 2019-2020 |                     |        | 2018-2019 |                     |        | 2017-2018 |                     |        |
|-----------|---------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|
| POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS |
| 1         | Barcelona           | 57     | 1         | Barcelona           | 66     | 1         | Barcelona           | 38     | 1         | Barcelona           | 59     | 1         | Barcelona           | 57     |
| 2         | Granollers          | 44     | 2         | Bidasoa Irun        | 53     | 2         | Ademar León         | 33     | 2         | Bidasoa Irun        | 45     | 2         | Ademar León         | 43     |
| 3         | Bidasoa Irun        | 42     | 3         | Logroño La Rioja    | 47     | 3         | Logroño La Rioja    | 30     | 3         | Logroño La Rioja    | 42     | 3         | Granollers          | 42     |
| 4         | Benidorm            | 35     | 4         | Granollers          | 47     | 4         | Bidasoa Irun        | 27     | 4         | Ademar León         | 37     | 4         | Logroño La Rioja    | 41     |
| 5         | Cuenca              | 34     | 5         | Huesca              | 47     | 5         | Cuenca              | 23     | 5         | Granollers          | 37     | 5         | Cuenca              | 37     |
| 6         | Logroño La Rioja    | 34     | 6         | Cuenca              | 43     | 6         | Granollers          | 21     | 6         | Huesca              | 33     | 6         | Anaitasuna          | 36     |
| 7         | Ademar León         | 30     | 7         | Ademar León         | 39     | 7         | Guadalajara         | 16     | 7         | Atlético Valladolid | 33     | 7         | Huesca              | 33     |
| 8         | Anaitasuna          | 29     | 8         | Puente Genil        | 36     | 8         | Puente Genil        | 15     | 8         | Cuenca              | 33     | 8         | Guadalajara         | 29     |
| 9         | Huesca              | 28     | 9         | Atlético Valladolid | 35     | 9         | Nava                | 14     | 9         | Benidorm            | 30     | 9         | Atlético Valladolid | 28     |
| 10        | Puente Genil        | 28     | 10        | Anaitasuna          | 33     | 10        | Atlético Valladolid | 14     | 10        | Anaitasuna          | 25     | 10        | Bidasoa Irun        | 27     |
| 11        | Torrelavega         | 26     | 11        | Benidorm            | 31     | 11        | Puerto Sagunto      | 14     | 11        | Sirfin              | 24     | 11        | Benidorm            | 26     |
| 12        | Morrazo             | 26     | 12        | Nava                | 24     | 12        | Benidorm            | 14     | 12        | Guadalajara         | 23     | 12        | Puente Genil        | 19     |
| 13        | Atlético Valladolid | 22     | 13        | Sirfin              | 24     | 13        | Anaitasuna          | 13     | 13        | Puente Genil        | 19     | 13        | Morrazo             | 19     |
| 14        | Sirfin              | 21     | 14        | Morrazo             | 22     | 14        | Sirfin              | 11     | 14        | Morrazo             | 18     | 14        | Albarei Teucro      | 18     |
| 15        | Nava                | 20     | 15        | Guadalajara         | 22     | 15        | Huesca              | 11     | 15        | Albarei Teucro      | 13     | 15        | Puerto Sagunto      | 13     |
| 16        | Antequera           | 6      | 16        | Puerto Sagunto      | 18     | 16        | Cangas              | 8      | 16        | Alcobendas          | 9      | 16        | Zamora              | 13     |
|           |                     |        | 17        | Ciase               | 12     |           |                     |        |           |                     |        |           |                     |        |
|           |                     |        | 18        | Vila de Aranda      | 11     |           |                     |        |           |                     |        |           |                     |        |

| 2016-2017 |                     |        | 2015-2016 |                  |        | 2014-2015 |                  |        | 2013-2014 |                     |        | 2012-2013 |                     |        |
|-----------|---------------------|--------|-----------|------------------|--------|-----------|------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|
| POSITION  | TEAM                | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS |
| 1         | Barcelona           | 60     | 1         | Barcelona        | 56     | 1         | Barcelona        | 60     | 1         | Barcelona           | 60     | 1         | Barcelona           | 58     |
| 2         | Ademar León         | 51     | 2         | Logroño La Rioja | 43     | 2         | Logroño La Rioja | 48     | 2         | Logroño La Rioja    | 47     | 2         | Atlético Madrid     | 49     |
| 3         | Logroño La Rioja    | 42     | 3         | Ademar León      | 38     | 3         | Granollers       | 43     | 3         | Granollers          | 42     | 3         | Logroño La Rioja    | 42     |
| 4         | Granollers          | 37     | 4         | Granollers       | 37     | 4         | Anaitasuna       | 36     | 4         | Huesca              | 40     | 4         | Ademar León         | 38     |
| 5         | Anaitasuna          | 32     | 5         | Morrazo          | 28     | 5         | Cangas           | 32     | 5         | Ademar León         | 36     | 5         | Aragón              | 38     |
| 6         | Cuenca              | 31     | 6         | Vila de Aranda   | 27     | 6         | Benidorm         | 32     | 6         | Cuenca              | 29     | 6         | Granollers          | 33     |
| 7         | Huesca              | 30     | 7         | Anaitasuna       | 26     | 7         | Ademar           | 31     | 7         | Anaitasuna          | 28     | 7         | Anaitasuna          | 30     |
| 8         | Atlético Valladolid | 28     | 8         | Benidorm         | 24     | 8         | Vila de Aranda   | 28     | 8         | Guadalajara         | 27     | 8         | Huesca              | 28     |
| 9         | Puente Genil        | 25     | 9         | Puerto Sagunto   | 22     | 9         | Huesca           | 27     | 9         | Aragón              | 25     | 9         | Puerto Sagunto      | 25     |
| 10        | Guadalajara         | 24     | 10        | Huesca           | 22     | 10        | Puente Genil     | 24     | 10        | Morrazo             | 25     | 10        | Cuenca              | 25     |
| 11        | Bidasoa Irun        | 23     | 11        | Cuenca           | 22     | 11        | Guadalajara      | 24     | 11        | Puente Genil        | 23     | 11        | Vila de Aranda      | 22     |
| 12        | Puerto Sagunto      | 23     | 12        | Guadalajara      | 21     | 12        | Puerto Sagunto   | 24     | 12        | Juanfersa           | 23     | 12        | Atlético Valladolid | 22     |
| 13        | Benidorm            | 21     | 13        | Sirfin           | 19     | 13        | Aragón           | 23     | 13        | Puerto Sagunto      | 22     | 13        | Guadalajara         | 20     |
| 14        | Morrazo             | 20     | 14        | Puente Genil     | 19     | 14        | Cuenca           | 21     | 14        | Vila de Aranda      | 22     | 14        | Cangas              | 19     |
| 15        | Vila de Aranda      | 20     | 15        | Albarei Teucro   | 16     | 15        | Zamora           | 19     | 15        | Atlético Valladolid | 22     | 15        | Octavio             | 19     |
| 16        | Sirfin              | 13     | 16        | Aragón           | 0      | 16        | Juanfersa        | 8      | 16        | Atlético Valladolid | 9      | 16        | Palma del Río       | 12     |

| 2011-2012 |                     |        | 2010-2011 |                     |        | 2009-2010 |                   |        | 2008-2009 |                     |        | 2007-2008 |                     |        |
|-----------|---------------------|--------|-----------|---------------------|--------|-----------|-------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|
| POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM              | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS |
| 1         | Barcelona           | 58     | 1         | Barcelona           | 58     | 1         | Atlético Madrid   | 60     | 1         | Atlético Madrid     | 56     | 1         | Atlético Madrid     | 57     |
| 2         | Atlético Madrid     | 57     | 2         | Atlético Madrid     | 54     | 2         | Barcelona         | 55     | 2         | Barcelona           | 52     | 2         | San Antonio         | 53     |
| 3         | Ademar León         | 44     | 3         | Ademar León         | 43     | 3         | Valladolid        | 46     | 3         | Atlético Valladolid | 46     | 3         | Ademar León         | 49     |
| 4         | Atlético Valladolid | 43     | 4         | Granollers          | 43     | 4         | Ademar            | 40     | 4         | San Antonio         | 44     | 4         | Barcelona           | 46     |
| 5         | Aragón              | 32     | 5         | Atlético Valladolid | 41     | 5         | Juárez de Logroño | 34     | 5         | Ademar León         | 42     | 5         | Atlético Valladolid | 39     |
| 6         | Cuenca              | 31     | 6         | Aragón              | 40     | 6         | San Antonio       | 34     | 6         | Granollers          | 34     | 6         | Aragón              | 34     |
| 7         | Logroño La Rioja    | 29     | 7         | San Antonio         | 32     | 7         | Aragón            | 31     | 7         | Logroño             | 30     | 7         | Granollers          | 25     |
| 8         | Granollers          | 28     | 8         | Cuenca              | 28     | 8         | Granollers        | 27     | 8         | Aragón              | 27     | 8         | Arrate              | 23     |
| 9         | Torrevieja          | 26     | 9         | Logroño La Rioja    | 26     | 9         | Alcobendas        | 25     | 9         | Octavio             | 26     | 9         | Torrevieja          | 22     |
| 10        | San Antonio         | 24     | 10        | Antequera           | 24     | 10        | Ciudad encantada  | 24     | 10        | Los Dólmene         | 28     | 10        | Algeciras           | 21     |
| 11        | Huesca              | 22     | 11        | Torrevieja          | 22     | 11        | Los dólmenes      | 24     | 11        | Arrate              | 21     | 11        | Almería             | 20     |
| 12        | Anaitasuna          | 22     | 12        | Puerto Sagunto      | 21     | 12        | Torrevieja        | 21     | 12        | Torrevieja          | 21     | 12        | Los Dólmene         | 20     |
| 13        | Octavio             | 20     | 13        | Guadalajara         | 18     | 13        | Arrate            | 19     | 13        | Cuenca              | 20     | 13        | Altea               | 20     |
| 14        | Guadalajara         | 18     | 14        | Anaitasuna          | 14     | 14        | Toledo            | 18     | 14        | Alcobendas          | 15     | 14        | Logroño             | 18     |
| 15        | Antequera           | 17     | 15        | Toledo              | 11     | 15        | Octavio           | 15     | 15        | Teucro              | 15     | 15        | Cartabia            | 17     |
| 16        | Puerto Sagunto      | 11     | 16        | Alcobendas          | 5      | 16        | Morrazo           | 7      | 16        | Almería             | 5      | 16        | Bidasoa Irun        | 16     |

Source: own elaboration

Table 4: Danish Women's handball league's latest classifications

| 2021-2022 |             |        | 2020-2021 |             |        | 2019-2020 |             |        | 2018-2019 |             |        | 2017-2018 |            |        |
|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|-----------|------------|--------|
| POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM       | POINTS |
| 1         | Odense      | 50     | 1         | Esbjerg     | 46     | 1         | Esbjerg     | 40     | 1         | Odense      | 47     | 1         | Copenhagen | 35     |
| 2         | Esbjerg     | 45     | 2         | Odense      | 46     | 2         | Odense      | 36     | 2         | Esbjerg     | 44     | 2         | Odense     | 33     |
| 3         | Herning     | 39     | 3         | Viborg      | 44     | 3         | Viborg      | 35     | 3         | Herning     | 40     | 3         | Herning    | 30     |
| 4         | Viborg      | 39     | 4         | Herning     | 35     | 4         | Copenhagen  | 35     | 4         | Copenhagen  | 40     | 4         | Nyk        | 29     |
| 5         | Nyk         | 29     | 5         | Copenhagen  | 32     | 5         | Silkeborg   | 30     | 5         | Nyk         | 37     | 5         | Esbjerg    | 28     |
| 6         | Silkeborg   | 27     | 6         | Nyk         | 32     | 6         | Herning     | 30     | 6         | Aarhus      | 31     | 6         | Viborg     | 27     |
| 7         | Horsens     | 26     | 7         | Aarhus      | 24     | 7         | Aarhus      | 26     | 7         | Viborg      | 26     | 7         | Silkeborg  | 24     |
| 8         | Copenhagen  | 24     | 8         | Silkeborg   | 22     | 8         | Randers     | 23     | 8         | Holstebro   | 21     | 8         | Randers    | 20     |
| 9         | Aarhus      | 22     | 9         | Holstebro   | 21     | 9         | Nyk         | 22     | 9         | Silkeborg   | 21     | 9         | Holstebro  | 18     |
| 10        | Ajax        | 16     | 10        | Ajax        | 19     | 10        | Ajax        | 13     | 10        | Skanderborg | 16     | 10        | Aarhus     | 12     |
| 11        | Skanderborg | 15     | 11        | Randers     | 19     | 11        | Holstebro   | 12     | 11        | Ajax        | 14     | 11        | Ringkøbing | 5      |
| 12        | Randers     | 14     | 12        | Horsens     | 15     | 12        | Horsens     | 8      | 12        | Randers     | 14     | 12        | Ajax       | 3      |
| 13        | Ringkøbing  | 12     | 13        | Skanderborg | 6      | 13        | Skanderborg | 7      | 13        | Aalborg     | 7      |           |            |        |
| 14        | Holstebro   | 6      | 14        | Vensyssel   | 3      | 14        | Aalborg     | 7      | 14        | Ringkøbing  | 6      |           |            |        |

| 2016-2017 |             |        | 2015-2016 |            |        | 2014-2015 |            |        | 2013-2014 |            |        | 2012-2013 |            |        |
|-----------|-------------|--------|-----------|------------|--------|-----------|------------|--------|-----------|------------|--------|-----------|------------|--------|
| POSITION  | TEAM        | POINTS | POSITION  | TEAM       | POINTS | POSITION  | TEAM       | POINTS | POSITION  | TEAM       | POINTS | POSITION  | TEAM       | POINTS |
| 1         | Herning     | 39     | 1         | Esbjerg    | 34     | 1         | Esbjerg    | 37     | 1         | Viborg     | 39     | 1         | Herning    | 36     |
| 2         | Nyk         | 30     | 2         | Herning    | 32     | 2         | Herning    | 36     | 2         | Herning    | 36     | 2         | Holstebro  | 32     |
| 3         | Viborg      | 29     | 3         | Viborg     | 28     | 3         | Holstebro  | 31     | 3         | Randers    | 33     | 3         | Viborg     | 31     |
| 4         | Copenhagen  | 28     | 4         | Holstebro  | 27     | 4         | Viborg     | 27     | 4         | Esbjerg    | 32     | 4         | Randers    | 27     |
| 5         | Silkeborg   | 27     | 5         | Randers    | 27     | 5         | Silkeborg  | 25     | 5         | Holstebro  | 29     | 5         | Vejen      | 21     |
| 6         | Odense      | 26     | 6         | Nyk        | 24     | 6         | Randers    | 23     | 6         | Odense     | 22     | 6         | Esbjerg    | 20     |
| 7         | Esbjerg     | 24     | 7         | Copenhagen | 21     | 7         | Odense     | 21     | 7         | Vejen      | 20     | 7         | FIF        | 15     |
| 8         | Randers     | 20     | 8         | Silkeborg  | 21     | 8         | Aarhus     | 18     | 8         | Skive      | 19     | 8         | Skive      | 14     |
| 9         | Aarhus      | 17     | 9         | Odense     | 20     | 9         | Copenhagen | 15     | 9         | Copenhagen | 13     | 9         | Senderyske | 8      |
| 10        | Holstebro   | 10     | 10        | Aarhus     | 16     | 10        | Ringkøbing | 13     | 10        | Ringkøbing | 10     | 10        | Aalborg    | 7      |
| 11        | Ringkøbing  | 9      | 11        | Ringkøbing | 14     | 11        | Skive      | 12     | 11        | Nyk        | 6      | 11        | Odense     | 7      |
| 12        | Skanderborg | 5      | 12        | Senderyske | 0      | 12        | Nyk        | 6      | 12        | Senderyske | 5      | 12        | Slagelse   | 0      |

| 2011-2012 |           |        | 2010-2011 |            |        | 2009-2010 |            |        | 2008-2009 |            |        | 2007-2008 |           |        |
|-----------|-----------|--------|-----------|------------|--------|-----------|------------|--------|-----------|------------|--------|-----------|-----------|--------|
| POSITION  | TEAM      | POINTS | POSITION  | TEAM       | POINTS | POSITION  | TEAM       | POINTS | POSITION  | TEAM       | POINTS | POSITION  | TEAM      | POINTS |
| 1         | Viborg    | 38     | 1         | Randers    | 40     | 1         | FIF        | 38     | 1         | Viborg     | 44     | 1         | Viborg    | 39     |
| 2         | Holstebro | 37     | 2         | Viborg     | 36     | 2         | Viborg     | 36     | 2         | FIF        | 36     | 2         | Herning   | 35     |
| 3         | Randers   | 34     | 3         | Herning    | 30     | 3         | Herning    | 31     | 3         | Aarhus     | 31     | 3         | FIF       | 30     |
| 4         | Herning   | 34     | 4         | Vejen      | 29     | 4         | Randers    | 31     | 4         | Herning    | 28     | 4         | Slagelse  | 29     |
| 5         | Esbjerg   | 24     | 5         | Esbjerg    | 25     | 5         | Vejen      | 30     | 5         | Aalborg    | 25     | 5         | Vejen     | 29     |
| 6         | FIF       | 19     | 6         | Holstebro  | 23     | 6         | Esbjerg    | 25     | 6         | Vejen      | 22     | 6         | Randers   | 19     |
| 7         | Aarhus    | 16     | 7         | Aarhus     | 19     | 7         | Aalborg    | 23     | 7         | Esbjerg    | 21     | 7         | Aarhus    | 18     |
| 8         | Holstebro | 15     | 8         | FIF        | 18     | 8         | Holstebro  | 16     | 8         | Randers    | 19     | 8         | Gudme     | 18     |
| 9         | Vejen     | 14     | 9         | Odense     | 17     | 9         | Odense     | 15     | 9         | Horsens    | 18     | 9         | Esbjerg   | 14     |
| 10        | Odense    | 14     | 10        | Aalborg    | 16     | 10        | Aarhus     | 13     | 10        | Gudme      | 12     | 10        | Aalborg   | 12     |
| 11        | Slagelse  | 10     | 11        | Roskilde   | 9      | 11        | Senderyske | 3      | 11        | Senderyske | 6      | 11        | Horsens   | 11     |
| 12        | Silkeborg | 9      | 12        | Senderyske | 2      | 12        | Horsens    | 3      | 12        | Slagelse   | 2      | 12        | Team Nord | 10     |

Source: own elaboration

Table 5: Danish men's handball league's latest classifications

| 2021-2022 |                     |        | 2020-2021 |                       |        | 2019-2020 |                       |        | 2018-2019 |                       |        | 2017-2018 |                       |        |
|-----------|---------------------|--------|-----------|-----------------------|--------|-----------|-----------------------|--------|-----------|-----------------------|--------|-----------|-----------------------|--------|
| POSITION  | TEAM                | POINTS | POSITION  | TEAM                  | POINTS | POSITION  | TEAM                  | POINTS | POSITION  | TEAM                  | POINTS | POSITION  | TEAM                  | POINTS |
| 1         | GOG                 | 52     | 1         | GOG                   | 42     | 1         | Aalborg               | 42     | 1         | Aalborg               | 41     | 1         | Skjern                | 43     |
| 2         | Aalborg             | 47     | 2         | Aalborg               | 41     | 2         | GOG                   | 34     | 2         | GOG                   | 40     | 2         | GOG                   | 42     |
| 3         | Skjern              | 37     | 3         | Holstebro             | 38     | 3         | Holstebro             | 33     | 3         | Bjerringbro/Silkeborg | 37     | 3         | Bjerringbro/Silkeborg | 40     |
| 4         | Skanderborg         | 36     | 4         | Bjerringbro/Silkeborg | 35     | 4         | Bjerringbro/Silkeborg | 29     | 4         | Holstebro             | 35     | 4         | Aalborg               | 32     |
| 5         | erringbro/Silkeborg | 33     | 5         | Sanderyske            | 29     | 5         | Skjern                | 28     | 5         | Skjern                | 34     | 5         | Holstebro             | 31     |
| 6         | Fredericia          | 29     | 6         | Skjern                | 29     | 6         | Skanderborg           | 27     | 6         | Skanderborg           | 32     | 6         | Kolding               | 25     |
| 7         | Mors                | 26     | 7         | Skanderborg           | 27     | 7         | Ribe-Esbjerg          | 24     | 7         | Aarhus                | 29     | 7         | Nordsjælland          | 24     |
| 8         | Ribe-Esbjerg        | 24     | 8         | Kolding               | 24     | 8         | Mors                  | 24     | 8         | Sanderyske            | 23     | 8         | Aarhus                | 23     |
| 9         | Lemvig              | 22     | 9         | Ribe-Esbjerg          | 20     | 9         | Sanderyske            | 22     | 9         | Ribe-Esbjerg          | 23     | 9         | Mors                  | 23     |
| 10        | Nordsjælland        | 21     | 10        | Fredericia            | 20     | 10        | Aarhus                | 22     | 10        | Mors                  | 17     | 10        | Ribe-Esbjerg          | 22     |
| 11        | Sanderyske          | 21     | 11        | Mors                  | 19     | 11        | Fredericia            | 16     | 11        | Nordsjælland          | 17     | 11        | Sanderyske            | 17     |
| 12        | Kolding             | 19     | 12        | Aarhus                | 18     | 12        | Kolding               | 13     | 12        | Lemvig                | 13     | 12        | Skanderborg           | 17     |
| 13        | Holstebro           | 19     | 13        | Lemvig                | 11     | 13        | Lemvig                | 13     | 13        | Kolding               | 12     | 13        | Midtjylland           | 13     |
| 14        | Ringsted            | 19     | 14        | Ringsted              | 11     | 14        | Nordsjælland          | 9      | 14        | Ringsted              | 11     | 14        | Tønder                | 12     |
| 15        | Skive               | 15     |           |                       |        |           |                       |        |           |                       |        |           |                       |        |

| 2016-2017 |                     |        | 2015-2016 |                     |        | 2014-2015 |                     |        | 2013-2014 |                     |        | 2012-2013 |                     |        |
|-----------|---------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|
| POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS |
| 1         | Aalborg             | 41     | 1         | Holstebro           | 39     | 1         | Kolding             | 45     | 1         | Kolding             | 43     | 1         | Kolding             | 47     |
| 2         | erringbro/Silkeborg | 38     | 2         | Kolding             | 35     | 2         | Aalborg             | 38     | 2         | Skjern              | 42     | 2         | Skjern              | 42     |
| 3         | Holstebro           | 37     | 3         | Aarhus              | 35     | 3         | erringbro/Silkeborg | 35     | 3         | Holstebro           | 39     | 3         | erringbro/Silkeborg | 41     |
| 4         | Skjern              | 34     | 4         | Skjern              | 33     | 4         | Holstebro           | 34     | 4         | Aalborg             | 38     | 4         | Aalborg             | 37     |
| 5         | GOG                 | 32     | 5         | erringbro/Silkeborg | 33     | 5         | Skjern              | 32     | 5         | Sanderyske          | 32     | 5         | Holstebro           | 35     |
| 6         | Mors                | 27     | 6         | GOG                 | 30     | 6         | Midtjylland         | 28     | 6         | GOG                 | 31     | 6         | Aarhus              | 26     |
| 7         | Ribe-Esbjerg        | 27     | 7         | Aalborg             | 28     | 7         | GOG                 | 27     | 7         | Aarhus              | 31     | 7         | Mors                | 24     |
| 8         | Kolding             | 26     | 8         | Sanderyske          | 25     | 8         | Aarhus              | 27     | 8         | erringbro/Silkeborg | 29     | 8         | Sanderyske          | 23     |
| 9         | Aarhus              | 23     | 9         | Skanderborg         | 23     | 9         | Ribe-Esbjerg        | 25     | 9         | Skanderborg         | 27     | 9         | Ribe-Esbjerg        | 20     |
| 10        | Sanderyske          | 21     | 10        | Mors                | 19     | 10        | Mors                | 24     | 10        | Mors                | 16     | 10        | Viborg              | 19     |
| 11        | Midtjylland         | 20     | 11        | Ribe-Esbjerg        | 19     | 11        | Sanderyske          | 24     | 11        | Nordsjælland        | 11     | 11        | Skanderborg         | 17     |
| 12        | Skanderborg         | 16     | 12        | Midtjylland         | 19     | 12        | Lemvig              | 11     | 12        | Ribe-Esbjerg        | 11     | 12        | Ringsted            | 13     |
| 13        | Tønder              | 13     | 13        | Nordsjælland        | 16     | 13        | Skanderborg         | 10     | 13        | Skive               | 9      | 13        | Skive               | 10     |
| 14        | Randers             | 9      | 14        | Skive               | 10     | 14        | Odsher              | 4      | 14        | Ringsted            | 5      | 14        | Nordsjælland        | 10     |

| 2011-2012 |                     |        | 2010-2011 |                     |        | 2009-2010 |                     |        | 2008-2009 |                     |        | 2007-2008 |                     |        |
|-----------|---------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|
| POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS | POSITION  | TEAM                | POINTS |
| 1         | AG                  | 47     | 1         | AG                  | 50     | 1         | erringbro/Silkeborg | 46     | 1         | Aalborg             | 41     | 1         | FKK                 | 44     |
| 2         | Kolding             | 35     | 2         | Skjern              | 36     | 2         | FKK                 | 39     | 2         | FKK                 | 40     | 2         | Aarhus              | 36     |
| 3         | erringbro/Silkeborg | 34     | 3         | Nordsjælland        | 35     | 3         | Aalborg             | 36     | 3         | erringbro/Silkeborg | 39     | 3         | GOG                 | 36     |
| 4         | Holstebro           | 31     | 4         | Aarhus              | 35     | 4         | Kolding             | 34     | 4         | Kolding             | 38     | 4         | erringbro/Silkeborg | 35     |
| 5         | Aalborg             | 29     | 5         | Aalborg             | 34     | 5         | Nordsjælland        | 32     | 5         | Skjern              | 33     | 5         | Kolding             | 35     |
| 6         | Skjern              | 29     | 6         | erringbro/Silkeborg | 33     | 6         | Skjern              | 27     | 6         | Viborg              | 30     | 6         | Skjern              | 34     |
| 7         | Aarhus              | 24     | 7         | Kolding             | 31     | 7         | Viborg              | 22     | 7         | Holstebro           | 29     | 7         | Aalborg             | 30     |
| 8         | Viborg              | 24     | 8         | Holstebro           | 31     | 8         | Holstebro           | 21     | 8         | GOG                 | 25     | 8         | Holstebro           | 26     |
| 9         | Skanderborg         | 21     | 9         | Fredericia          | 19     | 9         | Mors                | 19     | 9         | Aarhus              | 22     | 9         | Fredericia          | 24     |
| 10        | Mors                | 21     | 10        | Lemvig              | 18     | 10        | Aarhus              | 13     | 10        | Nordsjælland        | 21     | 10        | Viborg              | 21     |
| 11        | Nordsjælland        | 19     | 11        | Viborg              | 14     | 11        | Fredericia          | 9      | 11        | Mors                | 15     | 11        | Nordsjælland        | 21     |
| 12        | Sanderyske          | 17     | 12        | Mors                | 13     | 12        | Lemvig              | 8      | 12        | Fredericia          | 15     | 12        | Mors                | 17     |
| 13        | Skive               | 17     | 13        | Midtjylland         | 10     | 13        | Ringsted            | 6      | 13        | Ringsted            | 11     | 13        | Ringsted            | 7      |
| 14        | Lemvig              | 16     | 14        | FKK                 | 5      | 14        | GOG                 | 0      | 14        | Ajax                | 5      | 14        | Skanderborg         | 2      |
| 15        |                     |        | 15        | FIF                 | 0      |           |                     |        |           |                     |        |           |                     |        |

Source: own elaboration

Table 6: French women's handball league's latest classifications

| 2021-2022 |                |        | 2020-2021 |                |        | 2019-2020 |                |        | 2018-2019 |                |        | 2017-2018 |                |        |
|-----------|----------------|--------|-----------|----------------|--------|-----------|----------------|--------|-----------|----------------|--------|-----------|----------------|--------|
| POSITION  | TEAM           | POINTS | POSITION  | TEAM           | POINTS | POSITION  | TEAM           | POINTS | POSITION  | TEAM           | POINTS | POSITION  | TEAM           | POINTS |
| 1         | Metz           | 78     | 1         | Brest          | 37     | 1         | Brest          | 51     | 1         | Metz           | 63     | 1         | Metz           | 65     |
| 2         | Brest          | 68     | 2         | Metz           | 37     | 2         | Metz           | 51     | 2         | Brest          | 59     | 2         | Brest          | 55     |
| 3         | Paris          | 63     | 3         | Nantes         | 31     | 3         | Fleury Loiret  | 43     | 3         | Niza           | 55     | 3         | Paris          | 53     |
| 4         | Besancon       | 61     | 4         | Paris          | 30     | 4         | Nantes         | 43     | 4         | Besancon       | 49     | 4         | Niza           | 53     |
| 5         | Nantes         | 58     | 5         | Niza           | 29     | 5         | Paris          | 42     | 5         | Nantes         | 48     | 5         | Nantes         | 50     |
| 6         | Chambray       | 53     | 6         | Besancon       | 29     | 6         | Niza           | 39     | 6         | Fleury Loiret  | 44     | 6         | Besancon       | 42     |
| 7         | Niza           | 51     | 7         | Chambray       | 28     | 7         | Besancon       | 38     | 7         | Chambray       | 40     | 7         | Fleury Loiret  | 40     |
| 8         | Dijon          | 47     | 8         | Bourg de Peage | 26     | 8         | Dijon          | 36     | 8         | Toulon         | 39     | 8         | Chambray       | 37     |
| 9         | Bourg de Peage | 43     | 9         | Fleury Loiret  | 21     | 9         | Bourg de Peage | 33     | 9         | Paris          | 38     | 9         | Toulon         | 37     |
| 10        | Merignac       | 42     | 10        | Toulon         | 21     | 10        | Toulon         | 32     | 10        | Dijon          | 34     | 10        | Bourg de Peage | 36     |
| 11        | Toulon         | 42     | 11        | Saint Amant    | 20     | 11        | Chambray       | 29     | 11        | Bourg de Peage | 32     | 11        | Havre          | 30     |
| 12        | Plan de Cuques | 38     | 12        | Dijon          | 20     | 12        | Merignac       | 19     | 12        | Saint Amant    | 27     | 12        | Dijon          | 25     |
| 13        | Celles         | 34     | 13        | Merignac       | 18     |           |                |        |           |                |        |           |                |        |
| 14        | Fleury Loiret  | 32     | 14        | Plan de Cuques | 17     |           |                |        |           |                |        |           |                |        |
| 15        | Saint Amant    | 0      |           |                |        |           |                |        |           |                |        |           |                |        |

| 2016-2017 |               |        | 2015-2016 |               |        | 2014-2015 |               |        | 2013-2014 |               |        | 2012-2013 |               |        |
|-----------|---------------|--------|-----------|---------------|--------|-----------|---------------|--------|-----------|---------------|--------|-----------|---------------|--------|
| POSITION  | TEAM          | POINTS | POSITION  | TEAM          | POINTS | POSITION  | TEAM          | POINTS | POSITION  | TEAM          | POINTS | POSITION  | TEAM          | POINTS |
| 1         | Metz          | 57     | 1         | Metz          | 38     | 1         | Fleury Loiret | 48     | 1         | Metz          | 51     | 1         | Metz          | 51     |
| 2         | Paris         | 50     | 2         | Fleury Loiret | 34     | 2         | Paris         | 45     | 2         | Fleury Loiret | 51     | 2         | Fleury Loiret | 45     |
| 3         | Brest         | 46     | 3         | Paris         | 29     | 3         | Metz          | 44     | 3         | Paris         | 45     | 3         | Nimes         | 42     |
| 4         | Besancon      | 42     | 4         | Niza          | 28     | 4         | Nimes         | 39     | 4         | Toulon        | 36     | 4         | Havre         | 37     |
| 5         | Nantes        | 40     | 5         | Besancon      | 28     | 5         | Nantes        | 34     | 5         | Havre         | 34     | 5         | Paris         | 36     |
| 6         | Chambray      | 40     | 6         | Nantes        | 27     | 6         | Niza          | 34     | 6         | Mios Biganos  | 32     | 6         | Mios Biganos  | 34     |
| 7         | Toulon        | 38     | 7         | Toulon        | 22     | 7         | Toulon        | 32     | 7         | Niza          | 29     | 7         | Toulon        | 31     |
| 8         | Dijon         | 37     | 8         | Dijon         | 18     | 8         | Havre         | 31     | 8         | Nantes        | 28     | 8         | Besancon      | 29     |
| 9         | Fleury Loiret | 32     | 9         | Nimes         | 0      | 9         | Dijon         | 28     | 9         | Besancon      | 28     | 9         | Niza          | 28     |
| 10        | Niza          | 32     | 10        | Mios Biganos  | 0      | 10        | Mios Biganos  | 25     | 10        | Nimes         | 26     | 10        | Dijon         | 27     |
| 11        | Celles        | 26     |           |               |        |           |               |        |           |               |        |           |               |        |

| 2011-2012 |               |        | 2010-2011 |                |        | 2009-2010 |                  |        | 2008-2009 |                  |        | 2007-2008 |                  |        |
|-----------|---------------|--------|-----------|----------------|--------|-----------|------------------|--------|-----------|------------------|--------|-----------|------------------|--------|
| POSITION  | TEAM          | POINTS | POSITION  | TEAM           | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS |
| 1         | Metz          | 46     | 1         | Metz           | 55     | 1         | Metz             | 51     | 1         | Metz             | 35     | 1         | Metz             | 61     |
| 2         | Paris         | 46     | 2         | Havre          | 53     | 2         | Havre            | 45     | 2         | Havre            | 31     | 2         | Havre            | 55     |
| 3         | Avnor         | 45     | 3         | Toulon         | 48     | 3         | Mios Biganos     | 40     | 3         | Nimes            | 28     | 3         | Paris            | 53     |
| 4         | Havre         | 43     | 4         | Nimes          | 48     | 4         | Nimes            | 40     | 4         | Paris            | 26     | 4         | Dijon            | 48     |
| 5         | Toulon        | 37     | 5         | Mios Biganos   | 41     | 5         | Toulon           | 34     | 5         | Mios Biganos     | 24     | 5         | Nimes            | 47     |
| 6         | Mios Biganos  | 36     | 6         | Havre          | 40     | 6         | Dijon            | 33     | 6         | Besancon         | 22     | 6         | Besancon         | 44     |
| 7         | Nimes         | 30     | 7         | Fleury Loiret  | 36     | 7         | Fleury Loiret    | 29     | 7         | Dijon            | 20     | 7         | Mios Biganos     | 42     |
| 8         | Fleury Loiret | 30     | 8         | Paris          | 34     | 8         | Toulouse         | 27     | 8         | Fleury Loiret    | 13     | 8         | Merignac         | 39     |
| 9         | Dijon         | 24     | 9         | Dijon          | 31     | 9         | Avnor            | 26     | 9         | gouleme Charente | 9      | 9         | gouleme Charente | 38     |
| 10        | Besancon      | 23     | 10        | Besancon       | 28     | 10        | gouleme Charente | 22     | 10        | Toulon           | 6      | 10        | Fleury Loiret    | 38     |
|           |               |        | 11        | Cergy-Pontoise | 26     |           |                  |        | 11        | Avnor            | 6      | 11        | Bègles           | 37     |
|           |               |        |           |                |        |           |                  |        |           |                  |        | 12        | Vesoul           | 26     |

Source: own elaboration



Table 7: French men’s handball league’s latest classifications

| 2021-2022 |             |        | 2020-2021 |             |        | 2019-2020 |             |        | 2018-2019 |             |        | 2017-2018 |              |        |
|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|-----------|--------------|--------|
| POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM         | POINTS |
| 1         | PSG         | 60     | 1         | PSG         | 55     | 1         | PSG         | 35     | 1         | PSG         | 49     | 1         | PSG          | 45     |
| 2         | Nantes      | 49     | 2         | Montpellier | 50     | 2         | Nantes      | 29     | 2         | Montpellier | 43     | 2         | Montpellier  | 45     |
| 3         | Aix         | 44     | 3         | Nantes      | 47     | 3         | Nimes       | 26     | 3         | Chambery    | 41     | 3         | Nantes       | 37     |
| 4         | Montpellier | 41     | 4         | Aix         | 40     | 4         | Montpellier | 22     | 4         | Nantes      | 39     | 4         | St Raphael   | 34     |
| 5         | Chambery    | 39     | 5         | Nimes       | 38     | 5         | Toulouse    | 20     | 5         | Nimes       | 36     | 5         | Aix          | 33     |
| 6         | Nimes       | 36     | 6         | Toulouse    | 32     | 6         | Aix         | 18     | 6         | Aix         | 28     | 6         | Dunkerque    | 32     |
| 7         | Toulouse    | 32     | 7         | Chambery    | 31     | 7         | Dunkerque   | 15     | 7         | St Raphael  | 25     | 7         | Nimes        | 27     |
| 8         | St Raphael  | 31     | 8         | St Raphael  | 28     | 8         | St Raphael  | 15     | 8         | Toulouse    | 23     | 8         | Toulouse     | 27     |
| 9         | Cesson      | 27     | 9         | Limoges     | 27     | 9         | Chambery    | 14     | 9         | Tremblay    | 22     | 9         | Chambery     | 23     |
| 10        | Chartres    | 22     | 10        | Dunkerque   | 24     | 10        | Chartres    | 14     | 10        | Dunkerque   | 19     | 10        | Ivry         | 16     |
| 11        | Creteil     | 21     | 11        | Chartres    | 22     | 11        | Istres      | 13     | 11        | Istres      | 14     | 11        | Tremblay     | 14     |
| 12        | Dunkerque   | 20     | 12        | Creteil     | 22     | 12        | Ivry        | 13     | 12        | Ivry        | 10     | 12        | Cesson       | 13     |
| 13        | Limoges     | 18     | 13        | Istres      | 20     | 13        | Tremblay    | 9      | 13        | Cesson      | 9      | 13        | Saran        | 12     |
| 14        | Istres      | 17     | 14        | Cesson      | 18     | 14        | Creteil     | 9      | 14        | Pontault    | 6      | 14        | Massy Essone | 6      |
| 15        | Saran       | 12     | 15        | Ivry        | 16     |           |             |        |           |             |        |           |              |        |
| 16        | Nancy       | 11     | 16        | Tremblay    | 8      |           |             |        |           |             |        |           |              |        |

| 2016-2017 |             |        | 2015-2016 |             |        | 2014-2015 |             |        | 2013-2014 |             |        | 2012-2013 |             |        |
|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|
| POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS |
| 1         | PSG         | 48     | 1         | PSG         | 46     | 1         | PSG         | 45     | 1         | Dunkerque   | 43     | 1         | PSG         | 49     |
| 2         | Nantes      | 45     | 2         | St Raphael  | 36     | 2         | Montpellier | 44     | 2         | PSG         | 40     | 2         | Dunkerque   | 39     |
| 3         | Montpellier | 40     | 3         | Nantes      | 34     | 3         | St Raphael  | 34     | 3         | Montpellier | 38     | 3         | Montpellier | 38     |
| 4         | St Raphael  | 35     | 4         | Montpellier | 32     | 4         | Chambery    | 33     | 4         | Nantes      | 35     | 4         | Chambery    | 34     |
| 5         | Chambery    | 26     | 5         | Chambery    | 31     | 5         | Dunkerque   | 32     | 5         | Toulouse    | 33     | 5         | Nantes      | 34     |
| 6         | Dunkerque   | 26     | 6         | Creteil     | 28     | 6         | Nantes      | 31     | 6         | St Raphael  | 29     | 6         | St Raphael  | 27     |
| 7         | Toulouse    | 25     | 7         | Dunkerque   | 26     | 7         | Cesson      | 24     | 7         | Cesson      | 27     | 7         | Cesson      | 26     |
| 8         | Aix         | 22     | 8         | Cesson      | 25     | 8         | Nimes       | 23     | 8         | Chambery    | 27     | 8         | Selestat    | 21     |
| 9         | Ivry        | 22     | 9         | Toulouse    | 24     | 9         | Creteil     | 21     | 9         | Aix         | 19     | 9         | Aix         | 21     |
| 10        | Nimes       | 22     | 10        | Nimes       | 22     | 10        | Toulouse    | 20     | 10        | Nimes       | 19     | 10        | Ivry        | 21     |
| 11        | Cesson      | 16     | 11        | Ivry        | 19     | 11        | Tremblay    | 20     | 11        | Selestat    | 17     | 11        | Toulouse    | 20     |
| 12        | Saran       | 16     | 12        | Aix         | 17     | 12        | Aix         | 19     | 12        | Tremblay    | 15     | 12        | Tremblay    | 18     |
| 13        | Creteil     | 16     | 13        | Chartres    | 12     | 13        | Selestat    | 10     | 13        | Ivry        | 11     | 13        | Creteil     | 16     |
| 14        | Selestat    | 5      | 14        | Tremblay    | 11     | 14        | Istres      | 8      | 14        | Dijon       | 9      | 14        | Billere     | 0      |

| 2011-2012 |             |        | 2010-2011 |             |        | 2009-2010 |             |        | 2008-2009 |             |        | 2007-2008 |             |        |
|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|-----------|-------------|--------|
| POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS | POSITION  | TEAM        | POINTS |
| 1         | Montpellier | 47     | 1         | Montpellier | 50     | 1         | Montpellier | 50     | 1         | Montpellier | 48     | 1         | Montpellier | 49     |
| 2         | Chambery    | 39     | 2         | Chambery    | 44     | 2         | Chambery    | 43     | 2         | Chambery    | 41     | 2         | Chambery    | 45     |
| 3         | St Raphael  | 36     | 3         | Dunkerque   | 37     | 3         | Tremblay    | 33     | 3         | Tremblay    | 27     | 3         | Ivry        | 36     |
| 4         | Nantes      | 31     | 4         | Nantes      | 30     | 4         | St Raphael  | 32     | 4         | Dunkerque   | 31     | 4         | Dunkerque   | 31     |
| 5         | Dunkerque   | 31     | 5         | St Raphael  | 27     | 5         | Ivry        | 29     | 5         | Ivry        | 30     | 5         | Nimes       | 29     |
| 6         | Toulouse    | 24     | 6         | Istres      | 26     | 6         | Dunkerque   | 29     | 6         | St Raphael  | 25     | 6         | Tremblay    | 26     |
| 7         | Selestat    | 22     | 7         | Tremblay    | 26     | 7         | Istres      | 26     | 7         | Creteil     | 24     | 7         | St Raphael  | 26     |
| 8         | Creteil     | 21     | 8         | Touraine    | 20     | 8         | Nimes       | 20     | 8         | Istres      | 23     | 8         | PSG         | 25     |
| 9         | Ivry        | 20     | 9         | Nimes       | 18     | 9         | Nantes      | 20     | 9         | Nimes       | 21     | 9         | Creteil     | 25     |
| 10        | Cesson      | 20     | 10        | Toulouse    | 18     | 10        | Dijon       | 19     | 10        | Aurillac    | 21     | 10        | Toulouse    | 24     |
| 11        | Tremblay    | 20     | 11        | PSG         | 17     | 11        | Cesson      | 18     | 11        | Toulouse    | 20     | 11        | Selestat    | 18     |
| 12        | PSG         | 18     | 12        | Cesson      | 16     | 12        | Toulouse    | 16     | 12        | Nantes      | 19     | 12        | Istres      | 17     |
| 13        | Istres      | 18     | 13        | Ivry        | 16     | 13        | Aurillac    | 16     | 13        | PSG         | 17     | 13        | Pontault    | 7      |
| 14        | Nimes       | 17     | 14        | Dijon       | 15     | 14        | Creteil     | 13     | 14        | Selestat    | 7      | 14        | Villefenche | 6      |

Source: own elaboration

Table 8: German women’s handball league’s latest classifications

| 2021-2022 |                   |        | 2020-2021 |                 |        | 2019-2020 |                   |        | 2018-2019 |                 |        | 2017-2018 |                 |        |
|-----------|-------------------|--------|-----------|-----------------|--------|-----------|-------------------|--------|-----------|-----------------|--------|-----------|-----------------|--------|
| POSITION  | TEAM              | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM              | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM            | POINTS |
| 1         | Bietigheim        | 52     | 1         | BVB Dortmund    | 60     | 1         | BVB Dortmund      | 34     | 1         | Bietigheim      | 50     | 1         | Thuringer       | 48     |
| 2         | BVB Dortmund      | 44     | 2         | Bietigheim      | 53     | 2         | Bietigheim        | 33     | 2         | Thuringer       | 50     | 2         | Bietigheim      | 40     |
| 3         | Buxtehuder SV     | 38     | 3         | Metzingen       | 44     | 3         | Metzingen         | 30     | 3         | Metzingen       | 40     | 3         | Buxtehuder      | 35     |
| 4         | Thuringer         | 34     | 4         | Thuringer       | 43     | 4         | Biomberg-Lippe    | 26     | 4         | Buxtehuder      | 33     | 4         | BVB Dortmund    | 34     |
| 5         | Metzingen         | 31     | 5         | Biomberg-Lippe  | 43     | 5         | Thuringer         | 24     | 5         | Leverkusen      | 28     | 5         | Metzingen       | 33     |
| 6         | Biomberg-Lippe    | 28     | 6         | Neckarsulmer    | 37     | 6         | Leverkusen        | 23     | 6         | Biomberg-Lippe  | 28     | 6         | Leverkusen      | 33     |
| 7         | Neckarsulmer      | 26     | 7         | Oldenburg       | 30     | 7         | Buxtehuder        | 18     | 7         | BVB Dortmund    | 27     | 7         | Göppingen       | 33     |
| 8         | Halle-Neustadt    | 21     | 8         | Leverkusen      | 29     | 8         | ensheim-Auerbac   | 15     | 8         | Göppingen       | 22     | 8         | Biomberg-Lippe  | 32     |
| 9         | Leverkusen        | 19     | 9         | ensheim-Auerbac | 29     | 9         | Neckarsulmer      | 12     | 9         | ensheim-Auerbac | 20     | 9         | Oldenburg       | 21     |
| 10        | ensheim-Auerbac   | 17     | 10        | Buxtehuder      | 28     | 10        | Oldenburg         | 11     | 10        | Oldenburg       | 20     | 10        | Nellingen       | 16     |
| 11        | Bad Wildungen     | 17     | 11        | Bad Wildungen   | 22     | 11        | Göppingen         | 10     | 11        | Bad Wildungen   | 18     | 11        | Bad Wildungen   | 16     |
| 12        | Oldenburg         | 16     | 12        | Halle-Neustadt  | 20     | 12        | Bad Wildungen     | 7      | 12        | Neckarsulmer    | 13     | 12        | ensheim-Auerbac | 12     |
| 13        | Zwickau           | 11     | 13        | Rosengarten     | 18     | 13        | Mainz             | 4      | 13        | Halle-Neustadt  | 8      | 13        | Neckarsulmer    | 10     |
| 14        | Rosengarten       | 10     | 14        | Göppingen       | 16     | 14        | rpfalz Baren Kets | 3      | 14        | Nellingen       | 7      | 14        | Rödertal        | 1      |
| 15        | rpfalz Baren Kets | 4      |           |                 |        |           |                   |        |           |                 |        |           |                 |        |
| 16        | Mainz             | 4      |           |                 |        |           |                   |        |           |                 |        |           |                 |        |

| 2016-2017 |               |        | 2015-2016 |                |        | 2014-2015 |                |        | 2013-2014 |                |        | 2012-2013 |                |        |
|-----------|---------------|--------|-----------|----------------|--------|-----------|----------------|--------|-----------|----------------|--------|-----------|----------------|--------|
| POSITION  | TEAM          | POINTS | POSITION  | TEAM           | POINTS | POSITION  | TEAM           | POINTS | POSITION  | TEAM           | POINTS | POSITION  | TEAM           | POINTS |
| 1         | Bietigheim    | 52     | 1         | Thuringer      | 43     | 1         | Thuringer      | 47     | 1         | Thuringer      | 43     | 1         | Thuringer      | 37     |
| 2         | Thuringer     | 44     | 2         | Metzingen      | 41     | 2         | Buxtehuder     | 46     | 2         | Leipzig        | 37     | 2         | Leipzig        | 36     |
| 3         | Metzingen     | 38     | 3         | Leipzig        | 41     | 3         | Metzingen      | 41     | 3         | Leverkusen     | 30     | 3         | Buxtehuder     | 35     |
| 4         | Buxtehuder    | 33     | 4         | Bietigheim     | 41     | 4         | Oldenburg      | 34     | 4         | Buxtehuder     | 29     | 4         | Oldenburg      | 31     |
| 5         | Oldenburg     | 32     | 5         | Oldenburg      | 34     | 5         | Leipzig        | 33     | 5         | Oldenburg      | 27     | 5         | Leverkusen     | 28     |
| 6         | Dortmund      | 28     | 6         | Dortmund       | 26     | 6         | Leverkusen     | 34     | 6         | Metzingen      | 26     | 6         | Göppingen      | 26     |
| 7         | Leipzig       | 26     | 7         | Buxtehuder     | 26     | 7         | Biomberg-Lippe | 31     | 7         | Bietigheim     | 18     | 7         | Frankfurt      | 21     |
| 8         | Leverkusen    | 22     | 8         | Leverkusen     | 26     | 8         | Fuchs Berlin   | 21     | 8         | Göppingen      | 16     | 8         | Biomberg-Lippe | 15     |
| 9         | Biomberg      | 20     | 9         | Biomberg-Lippe | 22     | 9         | Bietigheim     | 17     | 9         | Biomberg-Lippe | 16     | 9         | Koblenz/Wiebem | 12     |
| 10        | Göppingen     | 20     | 10        | Fuchs Berlin   | 21     | 10        | Bad Wildungen  | 17     | 10        | Koblenz/Wiebem | 12     | 10        | Metzingen      | 11     |
| 11        | Bad Wildungen | 15     | 11        | Bad Wildungen  | 20     | 11        | Göppingen      | 12     | 11        | Trier          | 6      | 11        | Trier          | 7      |
| 12        | Neckarsulmer  | 13     | 12        | Göppingen      | 16     | 12        | SVG Celle      | 12     | 12        | Bensheim       | 4      | 12        | Bad Wildungen  | 5      |
| 13        | Nellingen     | 10     | 13        | SVG Celle      | 15     | 13        | Trier          | 10     |           |                |        |           |                |        |
| 14        | SVG Celle     | 7      | 14        | Rosengarten    | 8      | 14        | Koblenz/Wiebem | 9      |           |                |        |           |                |        |

| 2011-2012 |                |        | 2010-2011 |                |        | 2009-2010 |                |        | 2008-2009 |                   |        | 2007-2008 |                  |        |
|-----------|----------------|--------|-----------|----------------|--------|-----------|----------------|--------|-----------|-------------------|--------|-----------|------------------|--------|
| POSITION  | TEAM           | POINTS | POSITION  | TEAM           | POINTS | POSITION  | TEAM           | POINTS | POSITION  | TEAM              | POINTS | POSITION  | TEAM             | POINTS |
| 1         | Thuringer      | 32     | 1         | Thuringer      | 39     | 1         | Leipzig        | 39     | 1         | Leverkusen        | 33     | 1         | Leipzig          | 46     |
| 2         | Buxtehuder     | 32     | 2         | Leipzig        | 35     | 2         | Leverkusen     | 35     | 2         | Leipzig           | 28     | 2         | Leverkusen       | 43     |
| 3         | Leipzig        | 30     | 3         | Buxtehuder     | 34     | 3         | Oldenburg      | 32     | 3         | Buxtehuder        | 26     | 3         | Buxtehuder       | 41     |
| 4         | Oldenburg      | 29     | 4         | Leverkusen     | 32     | 4         | Biomberg-Lippe | 28     | 4         | Frankfurt         | 25     | 4         | Frankfurt        | 38     |
| 5         | Leverkusen     | 22     | 5         | Oldenburg      | 28     | 5         | Buxtehuder     | 23     | 5         | Oldenburg         | 24     | 5         | Bayer            | 36     |
| 6         | Frankfurt      | 21     | 6         | Frankfurt      | 20     | 6         | Göppingen      | 20     | 6         | Nurnberg          | 22     | 6         | Oldenburg        | 33     |
| 7         | Göppingen      | 17     | 7         | Sindelfingen   | 20     | 7         | Frankfurter    | 19     | 7         | Biomberg-Lippe    | 19     | 7         | Trier            | 23     |
| 8         | Biomberg-Lippe | 16     | 8         | Biomberg-Lippe | 19     | 8         | Thuringer      | 18     | 8         | Göppingen         | 19     | 8         | Dortmund         | 22     |
| 9         | Bad Wildungen  | 14     | 9         | Göppingen      | 15     | 9         | Trier          | 14     | 9         | thein-Main Biener | 19     | 9         | Halle-Neustadt   | 20     |
| 10        | Trier          | 5      | 10        | Trier          | 10     | 10        | Sindelfingen   | 14     | 10        | Trier             | 18     | 10        | Biomberg-Lippe   | 18     |
| 11        | SVG Celle      | 2      | 11        | Rosengarten    | 9      | 11        | Dortmund       | 11     | 11        | Thuringer         | 16     | 11        | Bietigheim       | 18     |
|           |                |        | 12        | Bietigheim     | 3      | 12        | SVG Celle      | 11     | 12        | Dortmund          | 11     | 12        | aitz-Bretzenheir | 17     |

Source: own elaboration

Table 9: German men's handball league's latest classifications

| 2016-2017 |                  |        | 2015-2016 |                  |        | 2014-2015 |                  |        | 2013-2014 |                  |        | 2012-2013 |                  |        |
|-----------|------------------|--------|-----------|------------------|--------|-----------|------------------|--------|-----------|------------------|--------|-----------|------------------|--------|
| POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS |
| 1         | Magdeburgo       | 64     | 1         | Kiel             | 68     | 1         | Kiel             | 44     | 1         | Flensburg        | 64     | 1         | Flensburg        | 56     |
| 2         | Kiel             | 58     | 2         | Flensburg        | 68     | 2         | Flensburg        | 42     | 2         | Kiel             | 62     | 2         | Rhein-Neckar     | 55     |
| 3         | Fuchse Beril     | 53     | 3         | Magdeburgo       | 53     | 3         | Magdeburgo       | 39     | 3         | Magdeburgo       | 54     | 3         | Fuchse Berlin    | 53     |
| 4         | Flensburg        | 50     | 4         | Fuchse Berlin    | 52     | 4         | lannover-Burgdor | 36     | 4         | Rhein-Neckar     | 50     | 4         | Magdeburgo       | 50     |
| 5         | Göppingen        | 38     | 5         | Rhein-Neckar     | 50     | 5         | Rhein-Neckar     | 34     | 5         | Melsungen        | 42     | 5         | Kiel             | 49     |
| 6         | Lemgo            | 37     | 6         | Göppingen        | 42     | 6         | Fuchse Berlin    | 35     | 6         | Fuchse Berlin    | 38     | 6         | lannover-Burgdor | 47     |
| 7         | Wetzlar          | 35     | 7         | Leipzig          | 42     | 7         | Melsungen        | 32     | 7         | Bergischer       | 36     | 7         | Melsungen        | 41     |
| 8         | Melsungen        | 33     | 8         | Melsungen        | 41     | 8         | Leipzig          | 27     | 8         | Göppingen        | 36     | 8         | Leipzig          | 37     |
| 9         | Leipzig          | 33     | 9         | Lemgo            | 41     | 9         | Wetzlar          | 27     | 9         | Erlangen         | 30     | 9         | Lemgo            | 34     |
| 10        | Rhein-Neckar     | 30     | 10        | Wetzlar          | 41     | 10        | Lemgo            | 27     | 10        | Wetzlar          | 29     | 10        | Göppingen        | 31     |
| 11        | Bergischer       | 29     | 11        | lannover-Burgdor | 36     | 11        | Göppingen        | 23     | 11        | Leipzig          | 27     | 11        | Wetzlar          | 30     |
| 12        | lannover-Burgdor | 27     | 12        | Bergischer       | 35     | 12        | Stuttgart        | 21     | 12        | Lemgo            | 26     | 12        | Minden           | 26     |
| 13        | Erlangen         | 27     | 13        | Erlangen         | 34     | 13        | Bergischer       | 20     | 13        | lannover-Burgdor | 26     | 13        | Erlangen         | 25     |
| 14        | Hamburg          | 26     | 14        | Stuttgart        | 32     | 14        | Erlangen         | 20     | 14        | Minden           | 25     | 14        | Stuttgart        | 20     |
| 15        | Stuttgart        | 24     | 15        | Balingen         | 29     | 15        | Minden           | 18     | 15        | Stuttgart        | 23     | 15        | Gummersbach      | 16     |
| 16        | Minden           | 18     | 16        | Minden           | 28     | 16        | Balingen         | 16     | 16        | Ludwigshafen     | 14     | 16        | Ludwigshafen     | 15     |
| 17        | Balingen         | 16     | 17        | Ludwigshafen     | 25     | 17        | Ludwigshafen     | 15     | 17        | Gummersbach      | 14     | 17        | Lubbecke         | 14     |
| 18        | N-Lubbecke       | 14     | 18        | Nordhorn-Lingen  | 17     | 18        | Nordhorn-Lingen  | 4      | 18        | Bietigheim       | 14     | 18        | Huttenberg       | 13     |
|           |                  |        | 19        | Essen            | 15     |           |                  |        |           |                  |        |           |                  |        |
|           |                  |        | 20        | Coburg           | 11     |           |                  |        |           |                  |        |           |                  |        |

| 2016-2017 |                  |        | 2015-2016 |                  |        | 2014-2015 |                  |        | 2013-2014 |                  |        | 2012-2013 |                  |        |
|-----------|------------------|--------|-----------|------------------|--------|-----------|------------------|--------|-----------|------------------|--------|-----------|------------------|--------|
| POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS |
| 1         | Rhein-Neckar     | 61     | 1         | Rhein-Neckar     | 56     | 1         | Kiel             | 65     | 1         | Kiel             | 59     | 1         | Kiel             | 61     |
| 2         | Flensburg        | 58     | 2         | Flensburg        | 55     | 2         | Rhein-Neckar     | 63     | 2         | Rhein-Neckar     | 59     | 2         | Flensburg        | 54     |
| 3         | Kiel             | 53     | 3         | Kiel             | 50     | 3         | Flensburg        | 54     | 3         | Flensburg        | 54     | 3         | Rhein-Neckar     | 54     |
| 4         | Fuchse Berlin    | 51     | 4         | Melsungen        | 47     | 4         | Magdeburgo       | 48     | 4         | Hamburg          | 53     | 4         | Fuchse Berlin    | 51     |
| 5         | Magdeburgo       | 51     | 5         | Fuchse Berlin    | 43     | 5         | Göppingen        | 42     | 5         | Fuchse Berlin    | 46     | 5         | Hamburg          | 49     |
| 6         | Wetzlar          | 41     | 6         | Göppingen        | 39     | 6         | Melsungen        | 40     | 6         | Magdeburgo       | 40     | 6         | lannover-Burgdor | 46     |
| 7         | Melsungen        | 38     | 7         | lannover-Burgdor | 36     | 7         | Fuchse Berlin    | 40     | 7         | Melsungen        | 39     | 7         | Wetzlar          | 37     |
| 8         | Leipzig          | 35     | 8         | Magdeburgo       | 35     | 8         | Wetzlar          | 34     | 8         | lannover-Burgdor | 32     | 8         | Magdeburgo       | 36     |
| 9         | Erlangen         | 28     | 9         | Gummersbach      | 35     | 9         | Hamburg          | 34     | 9         | Lemgo            | 31     | 9         | Lemgo            | 34     |
| 10        | Göppingen        | 27     | 10        | Wetzlar          | 34     | 10        | Gummersbach      | 34     | 10        | Lubbecke         | 30     | 10        | Melsungen        | 33     |
| 11        | lannover-Burgdor | 24     | 11        | Leipzig          | 30     | 11        | Balingen         | 31     | 11        | Wetzlar          | 29     | 11        | Göppingen        | 32     |
| 12        | Minden           | 24     | 12        | Bergischer       | 19     | 12        | Lubbecke         | 29     | 12        | Göppingen        | 26     | 12        | Lubbecke         | 28     |
| 13        | Lemgo            | 23     | 13        | Lemgo            | 18     | 13        | lannover-Burgdor | 29     | 13        | Gummersbach      | 26     | 13        | Balingen         | 25     |
| 14        | Stuttgart        | 23     | 14        | Balingen         | 15     | 14        | Bergischer       | 28     | 14        | Minden           | 24     | 14        | Minden           | 18     |
| 15        | Gummersbach      | 22     | 15        | Stuttgart        | 14     | 15        | Lemgo            | 27     | 15        | Bergischer       | 22     | 15        | Gummersbach      | 16     |
| 16        | Bergischer       | 22     | 16        | Eisenach         | 10     | 16        | Minden           | 25     | 16        | Balingen         | 19     | 16        | Neuhaus          | 15     |
| 17        | Balingen         | 17     | 17        | Lubbecke         | 8      | 17        | Ludwigshafen     | 25     | 17        | Eisenach         | 13     | 17        | Neuhausen        | 15     |
| 18        | Coburg           | 14     | 18        | Hamburg          | 0      | 18        | Erlangen         | 23     | 18        | Ermsdotten       | 10     | 18        | Essen            | 8      |
|           |                  |        |           |                  |        | 19        | Bietigheim       | 13     |           |                  |        |           |                  |        |

| 2011-2012 |                  |        | 2010-2011 |                  |        | 2009-2010 |                  |        | 2008-2009 |                 |        | 2007-2008 |                 |        |
|-----------|------------------|--------|-----------|------------------|--------|-----------|------------------|--------|-----------|-----------------|--------|-----------|-----------------|--------|
| POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM             | POINTS | POSITION  | TEAM            | POINTS | POSITION  | TEAM            | POINTS |
| 1         | Kiel             | 68     | 1         | Hamburg          | 62     | 1         | Kiel             | 62     | 1         | Kiel            | 65     | 1         | Kiel            | 61     |
| 2         | Flensburg        | 57     | 2         | Kiel             | 55     | 2         | Hamburg          | 61     | 2         | Hamburg         | 52     | 2         | Flensburg       | 54     |
| 3         | Fuchse Berlin    | 53     | 3         | Fuchse Berlin    | 55     | 3         | Flensburg        | 54     | 3         | Rhein-Neckar    | 50     | 3         | Hamburg         | 54     |
| 4         | Hamburg          | 50     | 4         | Rhein-Neckar     | 53     | 4         | Rhein-Neckar     | 49     | 4         | Lemgo           | 47     | 4         | Rhein-Neckar    | 52     |
| 5         | Rhein-Neckar     | 48     | 5         | Göppingen        | 45     | 5         | Gummersbach      | 47     | 5         | Flensburg       | 44     | 5         | Nordhorn-Lingen | 50     |
| 6         | Magdeburgo       | 39     | 6         | Flensburg        | 44     | 6         | Göppingen        | 46     | 6         | Göppingen       | 42     | 6         | Gummersbach     | 41     |
| 7         | Lemgo            | 38     | 7         | Magdeburgo       | 42     | 7         | Lemgo            | 42     | 7         | Magdeburgo      | 42     | 7         | Lemgo           | 39     |
| 8         | Göppingen        | 33     | 8         | Gummersbach      | 36     | 8         | Großwallstadt    | 40     | 8         | Nordhorn-Lingen | 41     | 8         | Magdeburgo      | 37     |
| 9         | Lubbecke         | 30     | 9         | Lemgo            | 36     | 9         | Fuchse Berlin    | 40     | 9         | Gummersbach     | 40     | 9         | Göppingen       | 31     |
| 10        | Melsungen        | 30     | 10        | Großwallstadt    | 30     | 10        | Lubbecke         | 36     | 10        | Fuchse Berlin   | 39     | 10        | Melsungen       | 29     |
| 11        | Gummersbach      | 29     | 11        | Wetzlar          | 27     | 11        | Magdeburgo       | 25     | 11        | Melsungen       | 30     | 11        | Großwallstadt   | 26     |
| 12        | Großwallstadt    | 27     | 12        | Lubbecke         | 24     | 12        | Melsungen        | 23     | 12        | Großwallstadt   | 26     | 12        | Fuchse Berlin   | 25     |
| 13        | lannover-Burgdor | 24     | 13        | Melsungen        | 22     | 13        | Wetzlar          | 23     | 13        | Minden          | 25     | 13        | Balingen        | 24     |
| 14        | Balingen         | 24     | 14        | lannover-Burgdor | 20     | 14        | lannover-Burgdor | 20     | 14        | Wetzlar         | 23     | 14        | Wetzlar         | 21     |
| 15        | Wetzlar          | 23     | 15        | Balingen         | 19     | 15        | Balingen         | 18     | 15        | Balingen        | 23     | 15        | Minden          | 18     |
| 16        | Bergischer       | 18     | 16        | Rheinland        | 16     | 16        | Rheinland        | 14     | 16        | Rheinland       | 19     | 16        | Essen           | 18     |
| 17        | Hittenberg       | 17     | 17        | Hamm-Westfalen   | 15     | 17        | Dosseldorf       | 12     | 17        | Stralsunder     | 6      | 17        | Lubbecke        | 18     |
| 18        | Hildesheim       | 4      | 18        | Ludwigshafen     | 11     | 18        | Minden           | 10     | 18        | Essen           | 3      | 18        | Wilhelmshavener | 14     |

Source: own elaboration

Once the database has been set up, the procedure is all about obtaining different indicators in order to evaluate competitive balance and draw conclusions.

**Measuring competitive balance** is trivial, as it “constitutes a key aspect of empirical research” (Humphreys, 2019: p.1), which concurs with previously mentioned data. According to Humphreys, these measurements can be classified into two main groups, which are static and dynamic. For the first group, some main instruments are the win ratio per team, those based on the standard deviation, the Record test, and the Herfindahl-Hirschman index (HHI). On the other hand, Competitive Balance Ratio (CBR) and Markov transition probabilities could be examples of dynamic assessments.

Some of the previously mentioned measurements will be used in this paper. However, it may make more sense to categorize the instruments differently, so that it is more consistent and easier. Elseway, our **indices** would appear the following way.

Two categories will be taken into consideration: dispersion and concentration. For the first classification, the Gini index (Gini) will be our innovative instrument in comparison to what Humphreys proposed. Nevertheless, we will use the standard deviation to obtain Pearson's variation coefficient (CV). On the other hand, for the concentration group, we will keep the Herfindahl-Hirschman Index (HHI) and we will use the win ratio per team in relation to the concentration ratio (Cn). It can be noticed that none of Humphreys' dynamic measurements will be considered, nor the static Record test.

With the aim of gaining a sense of understanding of the functioning and analysis of this work, the formulas of each of them will be stated in this section.

All of the previous instruments are briefly summed up in the following table (Table 10) to have a more visual and outstanding view of the data.

Table 10: Categories of instruments to measure competitive balance

| DISPERSION                           | CONCENTRATION                    |
|--------------------------------------|----------------------------------|
| Pearson's variation coefficient (CV) | Herfindahl-Hirschman Index (HHI) |
| Gini index (Gi)                      | Concentration ratio (Cn)         |

*Source: own elaboration*

As previously stated, the instruments' respective formulas will be discussed in this part of the section.

Firstly, regarding dispersion measurements, **Pearson's variation coefficient (CV)** is explained in the following way (formula 1):

Formula 1: Pearson's variation coefficient (CV)

$$CV = \frac{\sigma}{\bar{x}}$$

*Source: own elaboration*

Where  $\sigma$  stands for the standard deviation and  $\bar{x}$  for the arithmetic mean. The result of the CV will always be between 0 and 1 unless it is put in percentage points by multiplying it by 100. This is, it is expressed as the ratio of the standard deviation to the mean of the dataset.

Secondly and in the same category, the **Gini index** looks as follows (formula 2):

Formula 2: Gini index (Gi)

$$Gini = 1 + \left(\frac{1}{n}\right) - \left(\frac{2}{n\bar{x}}\right) * (x_1 + x_2 * 2 + x_3 * 3 + x_4 * 4...)$$

*Source: own elaboration*

Where n is the number of teams,  $\bar{x}$  is the mean points obtained by the teams, and xi is the points obtained by team i. Again, this index will result in values between 0 and 1 where 0 would stand for perfect equality and 1 for perfect inequality.

Hereafter, concerning concentration instruments, **Herfindahl-Hirschman Index (HHI)** is stated in the subsequent expression (formula 3):

Formula 3: Herfindahl-Hirschman Index (HHI)

$$HHI = \sum_{i=1}^n s_i^2 \quad i = 1, 2, 3, \dots, n$$

*Source: own elaboration*

Where Si stands for the market share of each team, i.e. the points obtained in relation to the total points of the league. The higher the value of the HHI, the higher the concentration and the less competitive the market.

Finally, the **Concentration ratio (Cn)** is expressed below (formula 4):

Formula 4: Concentration ratio (Cn)

$$Cn = \sum_{i=1}^r s_i \quad i = 1, 2, 3, 4, 5 \quad S_i = \frac{q_i}{Q}$$

*Source: own elaboration*

Where n is the number of teams to be analyzed and Si is the market share of each team (points obtained in relation to the total points of the league). The computations for this index have been calculated considering just 5 teams per season, thus n=5 and C(5), no matter the total number of participants in a league.

After gathering information about the classifications of male and female handball leagues of Spain, Denmark, France, and Germany in the years 2007-2008 to 2021-2022 (Tables 2 to 9), the next step was to compute the calculations to obtain the results of the previously mentioned indices for each of the seasons selected: Pearson's variation coefficient (CV), Gini index (Gini), Herfindahl-Hirschman Index (HHI) and Concentration Ratio (Cn).

## 5. RESULTS

In the first instance, the tables with all the results for each of the categories and genders will be given, in the same order as for the data from the previous point. This is, Spanish women (annex 1), Spanish men (annex 2), Danish women (annex 3), Danish men (annex 4), French women (annex 5) French men (annex 6), German women (annex 7), and German men (annex 8), as can be seen hereunder.

Here, as has been previously mentioned, multiple numbers and calculations appear. First, there exists a copy of the simple tables (2 to 9) where just the yearly classifications of each league appear. Then, some of the intermediate calculations are present, followed by the final indices (CV, Gini, HHI, and Cn).

### 5.1. Results per index

As it will be later seen, in order to simplify interpretations and to give a more general view, mean computations of each of the indices have been calculated and put together. These will be given and interpreted hereafter. Nevertheless, some insights are given about the particular calculations of these indices, per country, gender, and season.

The results will be analyzed in the following order: regarding dispersion indicators: first, the Pearson's Variation Coefficient (CV) and next the Gini index; and concerning concentration indicators, Herfindahl-Hirschman (HHI) will be explained before the Concentration Ratio (Cn). As an introduction to the values, Table 11 gives an insight into the mean values of each of the indices.

Table 11: mean values of each indicator for every country and gender

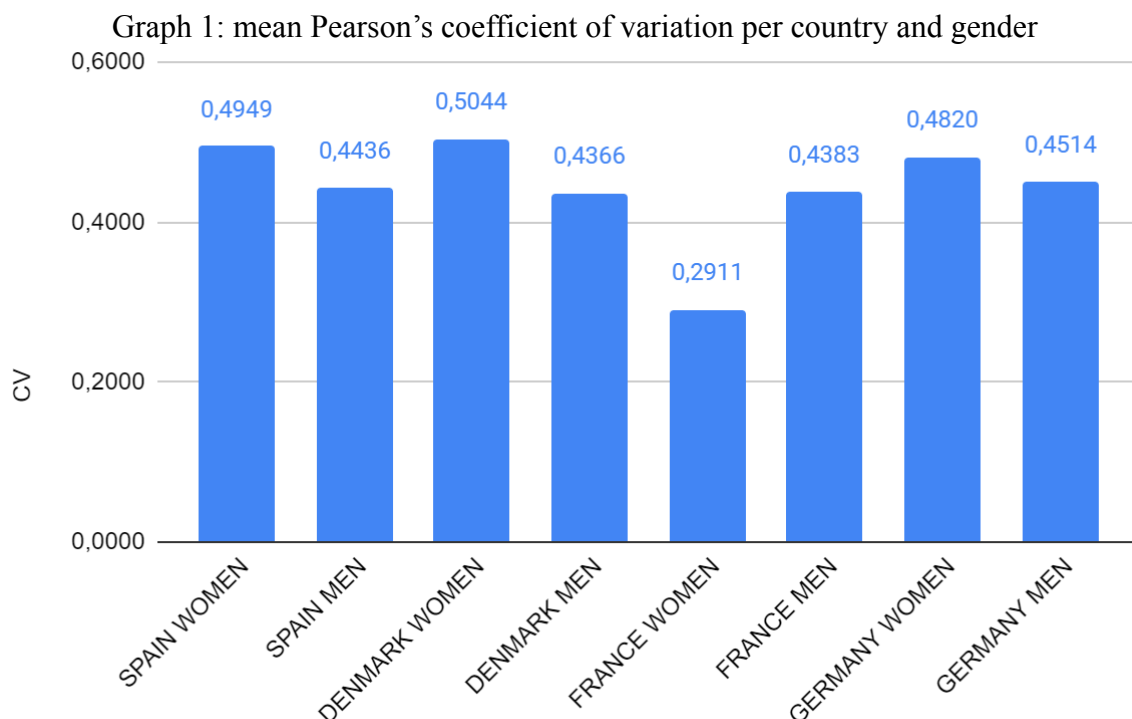
|               | CV     | Gini   | HHI      | C(5)    |
|---------------|--------|--------|----------|---------|
| SPAIN WOMEN   | 0,4949 | 0,2689 | 880,2381 | 54,3602 |
| SPAIN MEN     | 0,4436 | 0,2373 | 735,6390 | 47,3579 |
| DENMARK WOMEN | 0,5044 | 0,2731 | 991,7981 | 59,7480 |
| DENMARK MEN   | 0,4366 | 0,2364 | 837,3232 | 51,5690 |
| FRANCE WOMEN  | 0,2911 | 0,1550 | 975,8180 | 56,6007 |
| FRANCE MEN    | 0,4383 | 0,2337 | 828,8555 | 51,7057 |
| GERMANY WOMEN | 0,4820 | 0,2626 | 939,1134 | 57,3015 |
| GERMANY MEN   | 0,4514 | 0,2464 | 656,7815 | 43,6754 |

*Source: own elaboration*

Therefore, **Pearson's Variation Coefficient (CV)** is the first of all indices to be analyzed. As previously mentioned, this statistical measure is used to express the degree of variation between a set of data points and their mean value. Taking a worth somewhere in the range of 0 and 1, the higher the value of the coefficient, the more heterogeneous the upsides of the variable will be, as well as conversely.

In the case of the Spanish women's league, the mean of this value stands at 0.4949. This is, it has high variability. This case is similar to the Spanish men's league, where the mean stands at 0.4436. If we take a look at The female league in Denmark, the mean of this measure is 0.5044, whereas for men it is 0.4366. Regarding French women, 0.2911 is 0.4383. Finally, regarding Germany, the female league has a mean CV of 0.4820 whereas the male one is 0.4514. Put together, the following graph (Graph 1) reflects this information. It reveals that the French nation is the only one from this selection where male leagues rank higher than female leagues in terms of punctuation usage.

Additionally, taking a look at the particular CVs per country, gender, and season, it can be observed that some of the highest punctuations are present in Spanish women and Danish women whereas some of the lowest can be spotted in French women.

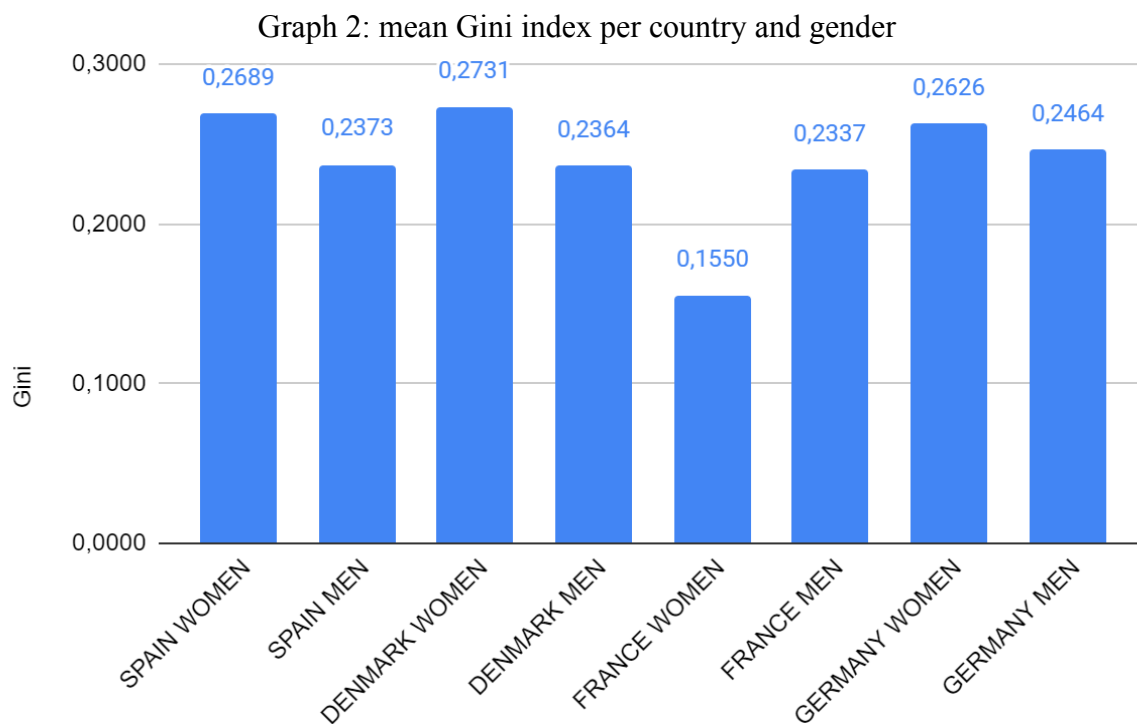


Source: own elaboration

As can be seen in Graph 2 about the different **Gini indicators** for the considered

countries for both genders, there seem to be considerable differences, even if all of them stand between 0.15 and 0.28. In general, France has the lowest points; especially for women (0.155). In addition, this country is also the exception regarding the tendency of female leagues to have higher punctuations, as it is the only one where the male league is higher.

Regarding the particular Gini index results per country, gender, and season, Danish men have had large changes over the years (decrease), whereas French women have in general some of the lowest indices, contrary to German men.

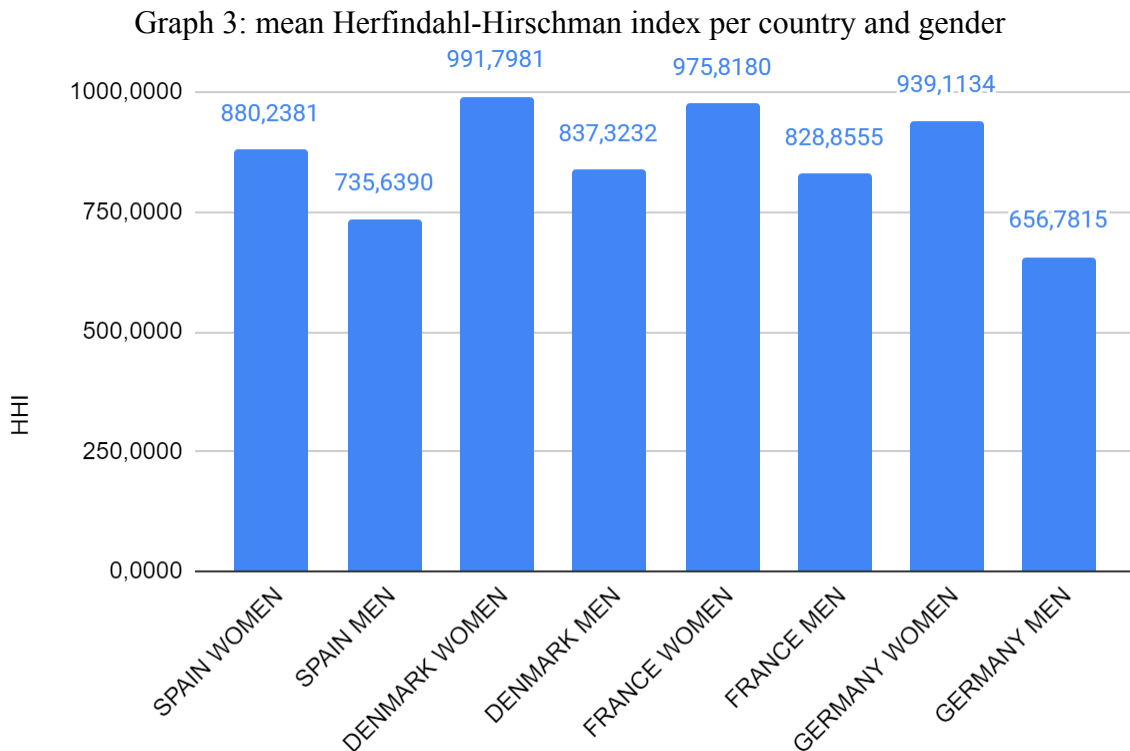


*Source: own elaboration*

Graph number 3 reflects the mean **Herfindahl-Hirschman index** results per country and gender. As it is known, the HHI score is a number between 0 and 10,000. The market is more concentrated the higher the score. Therefore, having a look at the following graph, it can be stated that as a general rule, male leagues are less concentrated than female ones, leading to the German league for men being the least concentrated in this market (656.7815) followed by the Spanish league for men (735.639).

Concerning the individual HHIs per country, gender, and season, it can be stated that the Spanish women's league is the owner of some of the lowest results together with

German men's one, whilst Danish and French women own the highest, in general.



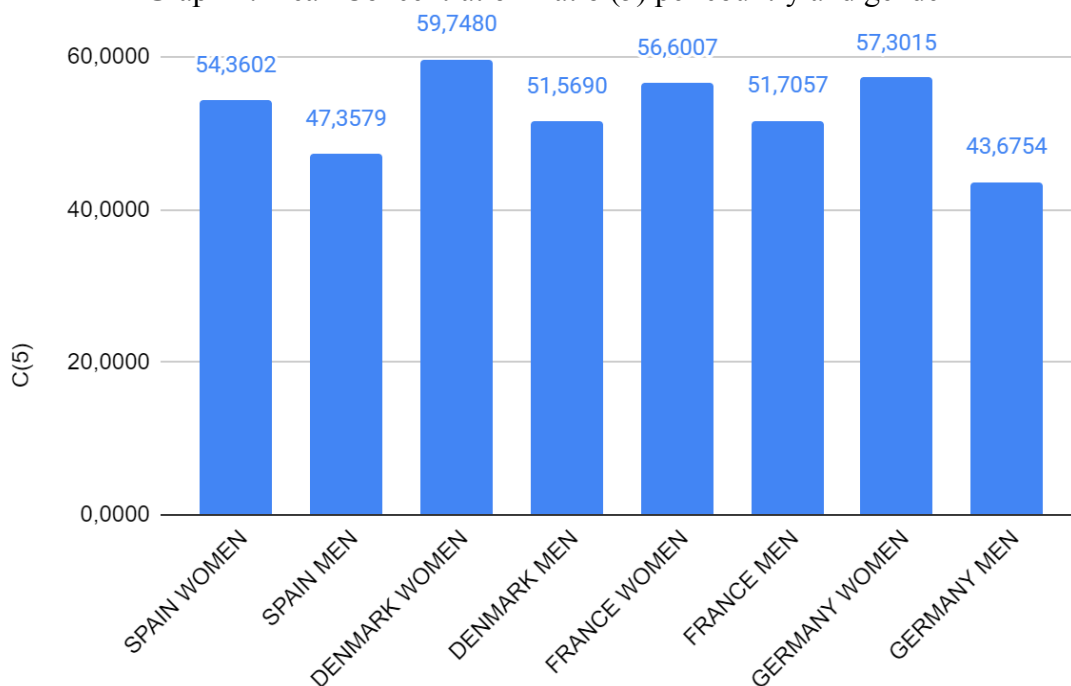
Source: own elaboration

Finally, Graph 4 shows the results for the mean **Concentration Ratio** of each country and gender, considering the top 5 teams of each league. It is important to remember that Concentration Ratios are market focus proportions that show the market share held by the top n teams in a given league, in this case. As is shown in percentage points, a concentration ratio of 100% would indicate that the top 5 teams in the league hold a monopoly, compared to a concentration ratio of 0% which would indicate perfect competition, with each team having an equal market share. In general, women's leagues show higher concentration. Nevertheless, this may be biased because in general, these leagues have a lower number of participant teams, thus the top 5 takes a higher proportion of total teams for women than it does for men.

Concerning the specific C(5)s per country, gender, and season, the Danish female league is one of the leagues with the highest punctuations together with German women, very contrary to the German male league.



Graph 4: mean Concentration Ratio (5) per country and gender



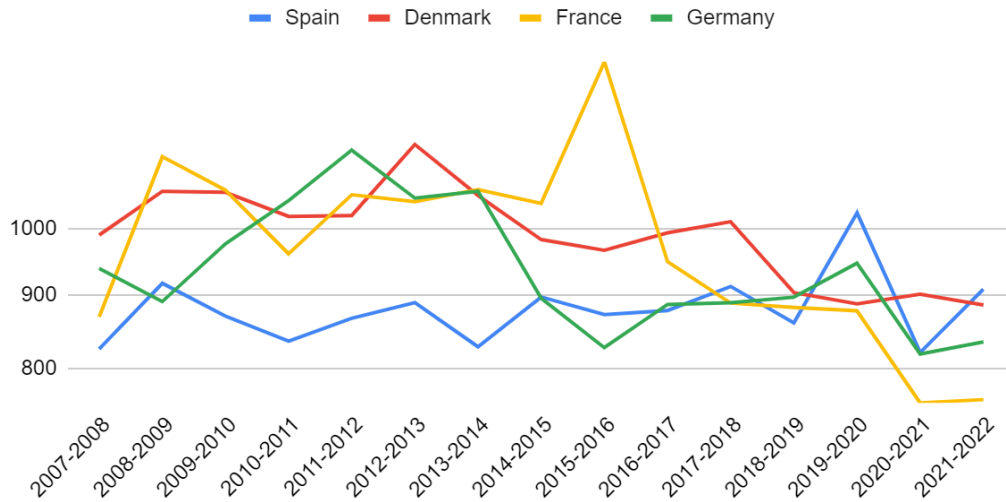
Source: own elaboration

## 5.2. Changes over time

Even if the main focus of this research is not the changes over time that happen in the competitive balance of leagues from different countries, it is true that analyzing some of the indices and their progress is not undue. For this section, only the HHI results have been taken into consideration, since it is possibly the index that best captures the reality, as I will later explain. Thus, the question to be answered in this part of the research is the following: *for each of the leagues to be analyzed, has competitive balance suffered an improvement or a worsening over time?*

As can be seen in Graph 5, in the case of female leagues, their results are quite different and changing, especially for countries like France and Germany. Both of these countries have had a decadence of the HHI value, meaning that these leagues have had a more competitive league over the years due to their lower concentration. In the case of France, it is the country with the highest and the lowest values over time compared to the rest of the nations, with considerable differences. On the other hand, Spain seems to be the most constant one, even if it also has ups and downs. In this case, it seems that this country has a higher concentration than some years ago, leading to less competition.

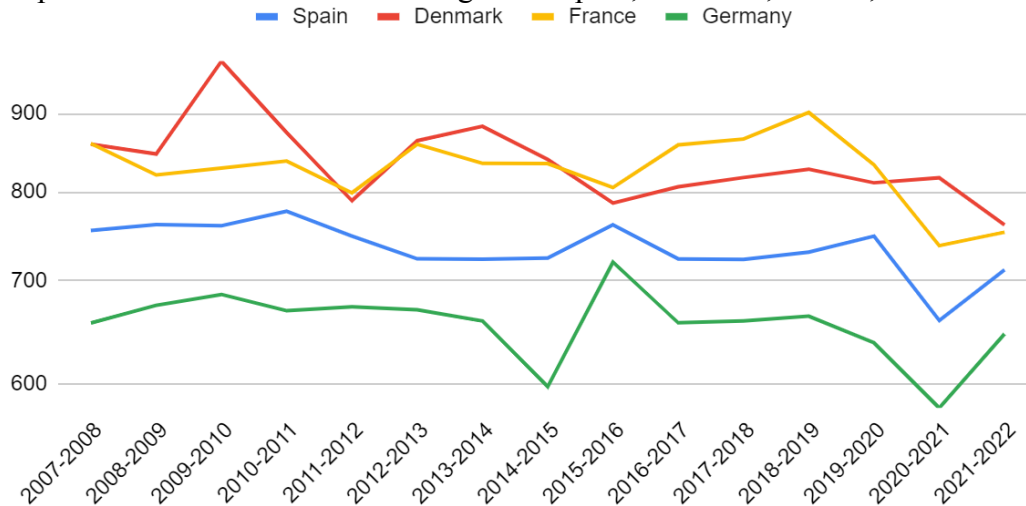
Graph 5: HHI over time for female leagues in Spain, Denmark, France, and Germany



Source: own elaboration

Looking at Graph 6 about men, the interpretation of the results is quite different from those of women. Even if each of the countries has its peaks, they are very different compared to each other. This is evident if we consider that only Denmark and France touch each other, whereas the rest of the nations have such different values that their tendencies in the graph do not touch each other. These two countries have decreased their concentration level, thus now have higher competition than 15 years ago. Additionally, it is to say that, in general, the values are quite constant.

Graph 6: HHI over time for male leagues in Spain, Denmark, France, and Germany



Source: own elaboration

## 6. CONCLUSIONS AND DISCUSSION

### 6.1. Differences per gender

In order to compare what the differences may be regarding gender in each of the leagues per country, the conclusions of this research paper can be separated into two main parts, in concord with the type of indices used to obtain the results of the different leagues per country and gender: dispersion and concentration.

Firstly, putting together both of the **dispersion** indicators used in this paper, some conclusions can be obtained jointly. For example, it can be stated that due to its low CV and Gini coefficient, France has the most equitable distribution of points among women's leagues. This same trend happens for Denmark among the men's leagues. Contrarily, Denmark has the highest CV and Gini index for women's teams, leading to the conclusion of an unequal distribution of punctuation acquired among groups. Nevertheless, the important point of this section is that in general women's leagues have a higher degree of dispersion than men's leagues.

As a first breakdown of the previous conclusion, comparing the results of Graph 1 about the mean **coefficients of variation (CV)** for women's and men's handball associations in Spain, Denmark, France, and Germany, it can be noted that the CV of the women's leagues in Spain, Denmark, and Germany is higher than that of the men's leagues. This suggests that the women's leagues in those three countries have a higher degree of inequality or dispersion than the men's leagues. In the case of France, the CV is higher in the men's league than in the women's league. This suggests that the men's league in that nation has greater inequality indications than the women's league. In general, we can conclude that the men's and women's leagues in the four nations are significantly different in terms of dispersion.

However, it is important to keep in mind that the CV is only one measure of inequality and does not take into account other significant aspects, thus it is advisable also to analyze other indices such as the **Gini index**. In this case, the mean Gini coefficients for the women's and men's handball leagues in Spain, Denmark, France, and Germany can be compared using Graph 2. When compared to men's leagues, we notice that the results are typically higher for women's leagues. This suggests that teams in women's leagues are more unequal. There are, however, a few exceptions. As it has been mentioned in

the previous point, in the case of France, the men's league has a higher Gini coefficient than the women's league. This suggests that the men's league has more inequality than the women's league in that country. In general, the conclusion may be that men's and women's leagues in the four nations are significantly different in terms of dispersion.

Secondly, the main outcome of the **concentration** measures mentioned, (HHI and Cn) is that the German male handball league is the least concentrated one compared to France, Spain, and Denmark. The mean results obtained over the last 15 years bring up the conclusion that this league has a close to optimal competitive balance. Even if its dispersion measure punctuations are more similar to the rest, it can be seen that watching a male German handball match is more intriguing than for example a French one, as a general rule. Briefly, the main outcome of this is that female handball is more concentrated than male, thus the league's top teams get a larger share of the points they earn, as will further be explained hereunder.

Due to this last mentioned fact, I personally consider that HHI has been the more representative of reality compared to the rest of the indices, for the case of German male handball. Nevertheless, I do not consider women's handball as the results show. This is, I think that as a general rule, male handball has a larger issue with competitive balance than female handball does.

In order to find the conclusion mentioned, if we take a glance at each of the concentration measures used starting with the **Herfindahl-Hirschman** Index, the clearest outcomes are that in general women's leagues are more concentrated than men's, as can be seen in Graph 3. In other words, there exists a greater concentration of wins among a small number of teams. This is particularly evident in the Danish and French women's leagues compared to the German men's league. The Danish female league has the highest concentration, which means that the league's top teams get a larger share of the points they earn.

Finally, the last index to compare is the **Concentration Ratio**, which has been computed considering 5 teams per league and season. When we compare the results in Graph 4, we can see that Denmark has the highest concentration ratio in both gender leagues, followed by Spain and France. Germany has the most outstanding result for its male league since it is very low compared to the rest of the countries.

After analyzing these differences, it can be concluded that the gender differences in competitive balance are remarkable in relation to the results obtained in this study. In general, men have larger issues with competitive balance than women do. Both dispersion and concentration measures are a reflection of this fact. This will be mentioned below as one of the many general conclusions.

## 6.2. General conclusions

As the general conclusion of the paper, it is important to state that in general, the results show a relevant **lack of competitive balance**. The Spanish leagues are a perfect example of this, since Barcelona (men) and Bera Bera (women) are leaders in the last couple of years, due to multiple factors where budgeting takes an important role.

Nevertheless and as I previously mentioned, I think that in general, male handball has more problems with competitive balance than female handball does. In addition, HHI has been a good reflection of this fact.

Even so, there are exceptions, such as German handball, which is an example to follow for the rest of the European handball leagues analyzed in this study. This league is the most competitive one of the ones here analyzed. Therefore, this research supports the fact that nowadays those who are banal about the lack of competitive balance in Spanish handball leagues opt for following German leagues.

This fact is backed by the reference “The Strongest League in the World? German Handball Bundesliga at the Top of the EHF Ranking”, which states that regarding the EHF Championship “*the Bundesliga, meanwhile, has additionally scored reliably in the EHF European League in recent years away from the titles, in some cases with three participants in the Final4*” (handball world, 2022). In addition, “*France recently fell behind Spain to rank 3*”. Here, the French player Nikola Karabatic states that “*this kind of Champions League is pretty cool for clubs like Barcelona, Kielce or Veszprem, because their national leagues are very weak*” due to the problem analyzed throughout this paper: “*this context also the problem of differently balanced national leagues with only one top team in Spain or two in Poland and Hungary*”.

In addition, it is relevant to mention that **differences between genders** are present all

along the results of this study and generally disfavor women more than men. Due to budgeting and other multiple factors, women are (once again) undermined and harmed in sports, compared to facts regarding men. This has overall analyzed objective data rather than subjective, thus it may not be by chance that this trend is repeatedly present in empirical research.

Now, the question is: *is there a way out of the problem of competitive balance?* The easy answer would be negative, with the reasoning behind explaining that this is simply what it is, and these large industries are hard to change. Nevertheless, even if it is true that this is not an easy nor a fast task, there may be some actions that can help this inequality be reduced. In order to look for solutions, we would have to analyze the causes. So, why do the same teams always win? Is it due to budgeting, competition format, or even fear? In any of the cases, changes in the causes lead to changes in the results. Therefore, some of the possible solutions could be the improvement of an equal budget repartition, salary caps, the regulation of the transfer market, and so on.

### **6.3. Limitations**

There exists not enough empirical evidence regarding handball and competitive balance in handball, thus recent data was hard to find. This leads to a limited literature review and limited possible sources for the rest of the research.

In addition, the conclusions of this paper may be biased since only the classifications of each league and its respective punctuations have been taken into consideration. In other words, there may be many other factors that affect and lead to competitive balance in handball that have not been considered throughout this work. Examples of this may be player skills, team sponsorships, results of other sports for the same clubs, etc.

Also, especially for female handball, I consider that analyzing a general picture of the last 15 seasons has not been as effective. This sport has suffered multiple changes during this period of time, thus the given conclusions may not be as accurate as possible. For example, if we take the case of female Spanish handball, we can see that from 2008-2009 to 2011-2012 Itxako team was clearly the leader, but due to budgeting issues, this team rapidly disappeared, handing success over to Bera Bera. Of course, this

event is not reflected in the numbers and calculations inspected here.

As the season 2019-2020 was not completed in most countries due to the Covid-19 pandemic, the indicators are not as realistic as in the rest of the years, leading to possible biases in general for different indicators.

Related to the previous points, handball is a sport that is rapidly changing norms inside each country and across borders, which makes it difficult to compare across seasons. One example can be that the number of teams participating in each league and season varies year after year as well as across borders, leading to difficulties in obtaining comparable results in indices such as the Concentration Ratio.

#### **6.4. Further research**

The main point to include in this section of the research paper is to solve the limitations mentioned. In fact, the results may be limited and biased by the factors that have been previously mentioned. Even if a comprehensive picture of market concentration and inequality in the handball industry can be obtained by comparing the HHI, C<sub>n</sub>, Gini index, and CV, if the objective is to arrive at meaningful conclusions, it is essential to take into account any other variables that might have an impact on these measures.

If this is solved, the results obtained and the judgments about them may be used to find areas for improvement in the sport's promotion of greater parity and competitiveness. Of course, the ways of putting solutions into practice and their effects should also be further analyzed, which could consequently be a potential concept for a future research paper.

Furthermore, extensive research could be carried out regarding solutions to the issue of competitive balance, whether it is for handball or not. As I previously mentioned, changes in the causes of this problem could improve the results.

In addition, I would like to include further research on gender inequality in handball, as I consider that this has a major impact on the results of competitive balance in handball across genders. Even if I have briefly mentioned this fact in these conclusions, it may be interesting to deepen this topic.





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ANNEXES

Annex 1: Spanish women's handball league's latest classifications and calculations

| 2021-2022 |           |              |             | 2020-2021 |           |             |             | 2019-2020 |           |              |            | 2018-2019 |           |              |            | 2017-2018 |           |              |            | 2016-2017 |           |              |            |          |           |              |            |          |           |              |            |          |           |              |            |
|-----------|-----------|--------------|-------------|-----------|-----------|-------------|-------------|-----------|-----------|--------------|------------|-----------|-----------|--------------|------------|-----------|-----------|--------------|------------|-----------|-----------|--------------|------------|----------|-----------|--------------|------------|----------|-----------|--------------|------------|----------|-----------|--------------|------------|
| POSITION  | TEAM      | POINTS       | S*100       | POSITION  | TEAM      | POINTS      | S*100       | POSITION  | TEAM      | POINTS       | S*100      | POSITION  | TEAM      | POINTS       | S*100      | POSITION  | TEAM      | POINTS       | S*100      | POSITION  | TEAM      | POINTS       | S*100      | POSITION | TEAM      | POINTS       | S*100      |          |           |              |            |          |           |              |            |
| 1         | Bera Bera | 49           | 13,46153846 | 1         | Bera Bera | 26          | 11,60714286 | 1         | Bera Bera | 45           | 12,3663736 | 1         | Bera Bera | 46           | 12,6373684 | 1         | Bera Bera | 47           | 12,9083132 | 1         | Bera Bera | 47           | 12,9083132 | 1        | Bera Bera | 46           | 12,6373684 | 1        | Bera Bera | 46           | 12,6373684 |          |           |              |            |
| 2         | Bera Bera | 45           | 12,3663736  | 2         | Bera Bera | 24          | 11,02571429 | 2         | Bera Bera | 44           | 12,0791209 | 2         | Bera Bera | 44           | 12,0791209 | 2         | Bera Bera | 44           | 12,0791209 | 2         | Bera Bera | 44           | 12,0791209 | 2        | Bera Bera | 44           | 12,0791209 | 2        | Bera Bera | 44           | 12,0791209 | 2        | Bera Bera | 44           | 12,0791209 |
| 3         | Bera Bera | 35           | 9,61538462  | 3         | Bera Bera | 22          | 10,25714286 | 3         | Bera Bera | 34           | 9,34592727 | 3         | Bera Bera | 34           | 9,34592727 | 3         | Bera Bera | 34           | 9,34592727 | 3         | Bera Bera | 34           | 9,34592727 | 3        | Bera Bera | 34           | 9,34592727 | 3        | Bera Bera | 34           | 9,34592727 | 3        | Bera Bera | 34           | 9,34592727 |
| 4         | Bera Bera | 35           | 9,61538462  | 4         | Bera Bera | 22          | 10,25714286 | 4         | Bera Bera | 34           | 9,34592727 | 4         | Bera Bera | 34           | 9,34592727 | 4         | Bera Bera | 34           | 9,34592727 | 4         | Bera Bera | 34           | 9,34592727 | 4        | Bera Bera | 34           | 9,34592727 | 4        | Bera Bera | 34           | 9,34592727 | 4        | Bera Bera | 34           | 9,34592727 |
| 5         | Bera Bera | 35           | 9,61538462  | 5         | Bera Bera | 22          | 10,25714286 | 5         | Bera Bera | 34           | 9,34592727 | 5         | Bera Bera | 34           | 9,34592727 | 5         | Bera Bera | 34           | 9,34592727 | 5         | Bera Bera | 34           | 9,34592727 | 5        | Bera Bera | 34           | 9,34592727 | 5        | Bera Bera | 34           | 9,34592727 | 5        | Bera Bera | 34           | 9,34592727 |
| 6         | Bera Bera | 35           | 9,61538462  | 6         | Bera Bera | 22          | 10,25714286 | 6         | Bera Bera | 34           | 9,34592727 | 6         | Bera Bera | 34           | 9,34592727 | 6         | Bera Bera | 34           | 9,34592727 | 6         | Bera Bera | 34           | 9,34592727 | 6        | Bera Bera | 34           | 9,34592727 | 6        | Bera Bera | 34           | 9,34592727 | 6        | Bera Bera | 34           | 9,34592727 |
| 7         | Bera Bera | 35           | 9,61538462  | 7         | Bera Bera | 22          | 10,25714286 | 7         | Bera Bera | 34           | 9,34592727 | 7         | Bera Bera | 34           | 9,34592727 | 7         | Bera Bera | 34           | 9,34592727 | 7         | Bera Bera | 34           | 9,34592727 | 7        | Bera Bera | 34           | 9,34592727 | 7        | Bera Bera | 34           | 9,34592727 | 7        | Bera Bera | 34           | 9,34592727 |
| 8         | Bera Bera | 35           | 9,61538462  | 8         | Bera Bera | 22          | 10,25714286 | 8         | Bera Bera | 34           | 9,34592727 | 8         | Bera Bera | 34           | 9,34592727 | 8         | Bera Bera | 34           | 9,34592727 | 8         | Bera Bera | 34           | 9,34592727 | 8        | Bera Bera | 34           | 9,34592727 | 8        | Bera Bera | 34           | 9,34592727 | 8        | Bera Bera | 34           | 9,34592727 |
| 9         | Bera Bera | 35           | 9,61538462  | 9         | Bera Bera | 22          | 10,25714286 | 9         | Bera Bera | 34           | 9,34592727 | 9         | Bera Bera | 34           | 9,34592727 | 9         | Bera Bera | 34           | 9,34592727 | 9         | Bera Bera | 34           | 9,34592727 | 9        | Bera Bera | 34           | 9,34592727 | 9        | Bera Bera | 34           | 9,34592727 | 9        | Bera Bera | 34           | 9,34592727 |
| 10        | Bera Bera | 35           | 9,61538462  | 10        | Bera Bera | 22          | 10,25714286 | 10        | Bera Bera | 34           | 9,34592727 | 10        | Bera Bera | 34           | 9,34592727 | 10        | Bera Bera | 34           | 9,34592727 | 10        | Bera Bera | 34           | 9,34592727 | 10       | Bera Bera | 34           | 9,34592727 | 10       | Bera Bera | 34           | 9,34592727 | 10       | Bera Bera | 34           | 9,34592727 |
| 11        | Bera Bera | 35           | 9,61538462  | 11        | Bera Bera | 22          | 10,25714286 | 11        | Bera Bera | 34           | 9,34592727 | 11        | Bera Bera | 34           | 9,34592727 | 11        | Bera Bera | 34           | 9,34592727 | 11        | Bera Bera | 34           | 9,34592727 | 11       | Bera Bera | 34           | 9,34592727 | 11       | Bera Bera | 34           | 9,34592727 | 11       | Bera Bera | 34           | 9,34592727 |
| 12        | Bera Bera | 35           | 9,61538462  | 12        | Bera Bera | 22          | 10,25714286 | 12        | Bera Bera | 34           | 9,34592727 | 12        | Bera Bera | 34           | 9,34592727 | 12        | Bera Bera | 34           | 9,34592727 | 12        | Bera Bera | 34           | 9,34592727 | 12       | Bera Bera | 34           | 9,34592727 | 12       | Bera Bera | 34           | 9,34592727 | 12       | Bera Bera | 34           | 9,34592727 |
| 13        | Bera Bera | 35           | 9,61538462  | 13        | Bera Bera | 22          | 10,25714286 | 13        | Bera Bera | 34           | 9,34592727 | 13        | Bera Bera | 34           | 9,34592727 | 13        | Bera Bera | 34           | 9,34592727 | 13        | Bera Bera | 34           | 9,34592727 | 13       | Bera Bera | 34           | 9,34592727 | 13       | Bera Bera | 34           | 9,34592727 | 13       | Bera Bera | 34           | 9,34592727 |
| 14        | Bera Bera | 35           | 9,61538462  | 14        | Bera Bera | 22          | 10,25714286 | 14        | Bera Bera | 34           | 9,34592727 | 14        | Bera Bera | 34           | 9,34592727 | 14        | Bera Bera | 34           | 9,34592727 | 14        | Bera Bera | 34           | 9,34592727 | 14       | Bera Bera | 34           | 9,34592727 | 14       | Bera Bera | 34           | 9,34592727 | 14       | Bera Bera | 34           | 9,34592727 |
| TOTAL     |           | 364          |             | TOTAL     |           | 224         |             | TOTAL     |           | 364          |            | TOTAL     |           | 364          |            | TOTAL     |           | 364          |            | TOTAL     |           | 364          |            | TOTAL    |           | 364          |            | TOTAL    |           | 364          |            | TOTAL    |           | 364          |            |
| MEAN      |           | 14,0438725   |             | MEAN      |           | 8,0114286   |             | MEAN      |           | 14,0438725   |            | MEAN      |           | 14,0438725   |            | MEAN      |           | 14,0438725   |            | MEAN      |           | 14,0438725   |            | MEAN     |           | 14,0438725   |            | MEAN     |           | 14,0438725   |            | MEAN     |           | 14,0438725   |            |
| ST. DEV.  |           | 0,501480908  |             | ST. DEV.  |           | 0,777031018 |             | ST. DEV.  |           | 0,501480908  |            | ST. DEV.  |           | 0,501480908  |            | ST. DEV.  |           | 0,501480908  |            | ST. DEV.  |           | 0,501480908  |            | ST. DEV. |           | 0,501480908  |            | ST. DEV. |           | 0,501480908  |            | ST. DEV. |           | 0,501480908  |            |
| CV        |           | 0,3546153846 |             | CV        |           | 0,096280714 |             | CV        |           | 0,3546153846 |            | CV        |           | 0,3546153846 |            | CV        |           | 0,3546153846 |            | CV        |           | 0,3546153846 |            | CV       |           | 0,3546153846 |            | CV       |           | 0,3546153846 |            | CV       |           | 0,3546153846 |            |
| C(5)      |           |              |             | C(5)      |           |             |             | C(5)      |           |              |            | C(5)      |           |              |            | C(5)      |           |              |            | C(5)      |           |              |            | C(5)     |           |              |            | C(5)     |           |              |            | C(5)     |           |              |            |

Source: own elaboration



# Annex 3: Danish women's handball league's latest classifications and calculations

| 2021-2022 |             |             |                | 2020-2021   |             |             |                | 2019-2020   |             |             |                | 2018-2019   |             |             |                | 2017-2018   |             |             |                |    |
|-----------|-------------|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|----------------|----|
| POSITION  | TEAM        | POINTS      | GF             | POSITION    | TEAM        | POINTS      | GF             | POSITION    | TEAM        | POINTS      | GF             | POSITION    | TEAM        | POINTS      | GF             | POSITION    | TEAM        | POINTS      | GF             |    |
| 1         | Cobene      | 50          | 13,762674      | 185,864414  | 1           | Esbjerg     | 46             | 12,879284   | 159,702044  | 1           | Cobene         | 47          | 12,972871   | 185,727142  | 1              | Copenhagen  | 35          | 13,257576   | 175,763515     |    |
| 2         | Esbjerg     | 35          | 10,719230      | 146,821116  | 2           | Viborg      | 35             | 10,829120   | 146,176188  | 2           | Esbjerg        | 35          | 10,829120   | 146,176188  | 2              | Esbjerg     | 35          | 10,829120   | 146,176188     |    |
| 3         | Herning     | 30          | 10,742871      | 114,7059184 | 3           | Viborg      | 35             | 9,61538415  | 92,655213   | 3           | Copenhagen     | 40          | 10,8951099  | 120,755825  | 3              | Herning     | 30          | 10,8951099  | 120,755825     |    |
| 4         | Viborg      | 30          | 9,61538415     | 92,655213   | 4           | Copenhagen  | 35             | 9,25292559  | 85,7338203  | 4           | Copenhagen     | 40          | 10,8951099  | 120,755825  | 4              | Nyk         | 29          | 10,8951099  | 120,755825     |    |
| 5         | Nyk         | 29          | 7,86703267     | 63,4736143  | 5           | Herning     | 30             | 8,79120871  | 77,2853201  | 5           | Nyk            | 37          | 10,16483516 | 103,3238739 | 5              | Esbjerg     | 28          | 10,16483516 | 112,4865161    |    |
| 6         | Skovbo      | 27          | 7,41785418     | 55,0025892  | 6           | Aarhus      | 32             | 6,59349693  | 43,47301051 | 6           | Aarhus         | 37          | 8,516483516 | 72,5304949  | 6              | Viborg      | 27          | 10,2727273  | 104,5971074    |    |
| 7         | Horsens     | 26          | 7,142857143    | 51,0204816  | 7           | Aarhus      | 26             | 6,03495644  | 36,32940467 | 7           | Randers        | 25          | 7,142857143 | 51,0204816  | 7              | Skovbo      | 24          | 9,00000001  | 85,644281      |    |
| 8         | Copenhagen  | 24          | 6,59349693     | 43,47301051 | 8           | Skovbo      | 22             | 5,76920769  | 33,8402397  | 8           | Randers        | 21          | 5,76920769  | 33,8402397  | 8              | Randers     | 20          | 7,5757576   | 57,39610885    |    |
| 9         | Aarhus      | 22          | 6,03495644     | 36,32940468 | 9           | Hornsbjerg  | 21             | 5,21781822  | 27,3461554  | 9           | Skovbo         | 21          | 4,755643096 | 30,2642287  | 9              | Hornsbjerg  | 18          | 6,818181818 | 46,4876031     |    |
| 10        | Skovbo      | 21          | 5,21781822     | 27,3461554  | 10          | Skovbo      | 22             | 4,755643096 | 30,2642287  | 10          | Skovbo         | 21          | 4,755643096 | 30,2642287  | 10             | Aarhus      | 15          | 4,554545454 | 26,8615702     |    |
| 11        | Skovbo      | 19          | 4,755643096    | 30,2642287  | 11          | Skovbo      | 22             | 4,755643096 | 30,2642287  | 11          | Skovbo         | 21          | 4,755643096 | 30,2642287  | 11             | Skovbo      | 12          | 4,554545454 | 26,8615702     |    |
| 12        | Randers     | 15          | 3,846153846    | 14,7628941  | 12          | Hornsbjerg  | 15             | 3,846153846 | 14,7628941  | 12          | Randers        | 14          | 3,846153846 | 14,7628941  | 12             | Randers     | 12          | 3,846153846 | 14,7628941     |    |
| 13        | Ringsbo     | 12          | 3,20670327     | 10,8625263  | 13          | Skovbo      | 7              | 1,648351648 | 2,717063157 | 13          | Skovbo         | 7           | 1,648351648 | 2,717063157 | 13             | Skovbo      | 7           | 1,648351648 | 2,717063157    |    |
| 14        | Hornsbjerg  | 6           | 1,648351648    | 2,717063157 | 14          | Venstedsø   | 3              | 0,824175842 | 0,710257892 | 14          | Ryngating      | 6           | 1,648351648 | 2,717063157 | 14             | Ryngating   | 6           | 1,648351648 | 2,717063157    |    |
| TOTAL     | MEAN        | 384         | 885,307452     | 900,706454  | TOTAL       | MEAN        | 324            | 886,869279  | 886,869279  | TOTAL       | MEAN           | 364         | 903,174637  | 903,174637  | TOTAL          | MEAN        | 254         | 1010,91892  | 1010,91892     |    |
| ST. DEV.  | 13,20295385 | 210**(mean) | 3,000392468782 | 210**(mean) | 13,20295385 | 210**(mean) | 3,000392468782 | 210**(mean) | 13,20295385 | 210**(mean) | 3,000392468782 | 210**(mean) | 13,20295385 | 210**(mean) | 3,000392468782 | 210**(mean) | 13,20295385 | 210**(mean) | 3,000392468782 |    |
| CV        | 0,077009174 | *1*(2**+*3) | 0,27867981     | 0,27867981  | 0,077009174 | *1*(2**+*3) | 0,27867981     | 0,27867981  | 0,077009174 | *1*(2**+*3) | 0,27867981     | 0,077009174 | *1*(2**+*3) | 0,27867981  | 0,27867981     | 0,077009174 | *1*(2**+*3) | 0,27867981  | 0,27867981     |    |
| GF        | 55,406549   | GF          | 55,762977      | GF          | 56,000000   | GF          | 56,000000      | GF          | 56,000000   | GF          | 56,000000      | GF          | 56,000000   | GF          | 56,000000      | GF          | 56,000000   | GF          | 56,000000      | GF |
| CIS)      |             |             |                |             |             |             |                |             |             |             |                |             |             |             |                |             |             |             |                |    |

Source: own elaboration

# Annex 4: Danish men's handball league's latest classifications and calculations

| SEASON    | POSITION          | TEAM              | S*100       | (S*100/2)  | POINTS      | MEAN        | ST. DEV.    | CV         | C/S  | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 | 2021-2022 | 2021-2022 |
|-----------|-------------------|-------------------|-------------|------------|-------------|-------------|-------------|------------|------|-----------|-----------|-----------|-----------|-----------|-----------|
| 2017-2018 | 1                 | Aalborg           | 11.8118681  | 131.39047  | 42          | 12.5        | 10.1104862  | 0.82102571 | 6.6  | 1         | 1         | 1         | 1         | 1         | 1         |
|           | 2                 | OGU               | 10.9801099  | 126.871546 | 38          | 11.5846154  | 9.615384615 | 0.83052381 | 7.1  | 2         | 2         | 2         | 2         | 2         | 2         |
|           | 3                 | emjergon/Skalborg | 10.9801099  | 126.871546 | 38          | 10.4395644  | 9.615384615 | 0.83052381 | 7.1  | 3         | 3         | 3         | 3         | 3         | 3         |
|           | 4                 | Skjern            | 10.9801099  | 126.871546 | 38          | 9.615384615 | 8.21916049  | 0.8485222  | 7.8  | 4         | 4         | 4         | 4         | 4         | 4         |
|           | 5                 | Skjern            | 9.615384615 | 103.328739 | 32          | 8.71328739  | 7.2853201   | 0.8336156  | 8.2  | 5         | 5         | 5         | 5         | 5         | 5         |
|           | 6                 | emjergon/Skalborg | 8.71328739  | 77.2853201 | 28          | 8.71328739  | 77.2853201  | 0.8336156  | 8.2  | 6         | 6         | 6         | 6         | 6         | 6         |
|           | 7                 | Mors              | 8.71328739  | 77.2853201 | 28          | 8.71328739  | 77.2853201  | 0.8336156  | 8.2  | 7         | 7         | 7         | 7         | 7         | 7         |
|           | 8                 | Skjern            | 6.89346593  | 43.4730151 | 24          | 7.42857143  | 51.0240516  | 0.6843348  | 10.8 | 8         | 8         | 8         | 8         | 8         | 8         |
|           | 9                 | Ribe-Esbjerg      | 6.89346593  | 43.4730151 | 24          | 6.89346593  | 43.4730151  | 0.6843348  | 10.8 | 9         | 9         | 9         | 9         | 9         | 9         |
|           | 10                | Aarhus            | 6.89346593  | 43.4730151 | 24          | 6.89346593  | 43.4730151  | 0.6843348  | 10.8 | 10        | 10        | 10        | 10        | 10        | 10        |
|           | 11                | Fribolev          | 5.44505496  | 30.1895063 | 20          | 5.44505496  | 30.1895063  | 0.5737598  | 14.8 | 11        | 11        | 11        | 11        | 11        | 11        |
|           | 12                | Lyngby            | 5.44505496  | 30.1895063 | 20          | 5.44505496  | 30.1895063  | 0.5737598  | 14.8 | 12        | 12        | 12        | 12        | 12        | 12        |
|           | 13                | Holstebro         | 4.8703267   | 21.8197923 | 17          | 4.8703267   | 21.8197923  | 0.6843348  | 10.8 | 13        | 13        | 13        | 13        | 13        | 13        |
|           | 14                | Skjern            | 3.571428571 | 12.7510204 | 13          | 3.571428571 | 12.7510204  | 0.6843348  | 10.8 | 14        | 14        | 14        | 14        | 14        | 14        |
|           | 15                | Slagelse          | 3.571428571 | 12.7510204 | 13          | 3.571428571 | 12.7510204  | 0.6843348  | 10.8 | 15        | 15        | 15        | 15        | 15        | 15        |
| TOTAL     | MEAN              | MEAN              | MEAN        | MEAN       | MEAN        | MEAN        | MEAN        | MEAN       | MEAN | MEAN      | MEAN      | MEAN      | MEAN      | MEAN      | MEAN      |
| 2018-2019 | 1                 | Aalborg           | 11.8118681  | 131.39047  | 41          | 12.5        | 10.1104862  | 0.82102571 | 6.6  | 1         | 1         | 1         | 1         | 1         | 1         |
| 2         | OGU               | 10.9801099        | 126.871546  | 37         | 11.5846154  | 9.615384615 | 0.83052381  | 7.1        | 2    | 2         | 2         | 2         | 2         | 2         | 2         |
| 3         | emjergon/Skalborg | 10.9801099        | 126.871546  | 37         | 10.4395644  | 9.615384615 | 0.83052381  | 7.1        | 3    | 3         | 3         | 3         | 3         | 3         | 3         |
| 4         | Holstebro         | 9.615384615       | 103.328739  | 32         | 8.71328739  | 7.2853201   | 0.8336156   | 8.2        | 4    | 4         | 4         | 4         | 4         | 4         | 4         |
| 5         | Skjern            | 9.615384615       | 103.328739  | 32         | 8.71328739  | 7.2853201   | 0.8336156   | 8.2        | 5    | 5         | 5         | 5         | 5         | 5         | 5         |
| 6         | Skjern            | 8.71328739        | 77.2853201  | 28         | 8.71328739  | 77.2853201  | 0.8336156   | 8.2        | 6    | 6         | 6         | 6         | 6         | 6         | 6         |
| 7         | Mors              | 8.71328739        | 77.2853201  | 28         | 8.71328739  | 77.2853201  | 0.8336156   | 8.2        | 7    | 7         | 7         | 7         | 7         | 7         | 7         |
| 8         | Skjern            | 6.89346593        | 43.4730151  | 24         | 7.42857143  | 51.0240516  | 0.6843348   | 10.8       | 8    | 8         | 8         | 8         | 8         | 8         | 8         |
| 9         | Skjern            | 6.89346593        | 43.4730151  | 24         | 6.89346593  | 43.4730151  | 0.6843348   | 10.8       | 9    | 9         | 9         | 9         | 9         | 9         | 9         |
| 10        | Mors              | 6.89346593        | 43.4730151  | 24         | 6.89346593  | 43.4730151  | 0.6843348   | 10.8       | 10   | 10        | 10        | 10        | 10        | 10        | 10        |
| 11        | Ribe-Esbjerg      | 5.44505496        | 30.1895063  | 20         | 5.44505496  | 30.1895063  | 0.5737598   | 14.8       | 11   | 11        | 11        | 11        | 11        | 11        | 11        |
| 12        | Aarhus            | 5.44505496        | 30.1895063  | 20         | 5.44505496  | 30.1895063  | 0.5737598   | 14.8       | 12   | 12        | 12        | 12        | 12        | 12        | 12        |
| 13        | Fribolev          | 4.8703267         | 21.8197923  | 17         | 4.8703267   | 21.8197923  | 0.6843348   | 10.8       | 13   | 13        | 13        | 13        | 13        | 13        | 13        |
| 14        | Lyngby            | 4.8703267         | 21.8197923  | 17         | 4.8703267   | 21.8197923  | 0.6843348   | 10.8       | 14   | 14        | 14        | 14        | 14        | 14        | 14        |
| 15        | Skjern            | 3.571428571       | 12.7510204  | 13         | 3.571428571 | 12.7510204  | 0.6843348   | 10.8       | 15   | 15        | 15        | 15        | 15        | 15        | 15        |
| TOTAL     | MEAN              | MEAN              | MEAN        | MEAN       | MEAN        | MEAN        | MEAN        | MEAN       | MEAN | MEAN      | MEAN      | MEAN      | MEAN      | MEAN      | MEAN      |
| 2019-2020 | 1                 | Aalborg           | 11.8118681  | 131.39047  | 42          | 12.5        | 10.1104862  | 0.82102571 | 6.6  | 1         | 1         | 1         | 1         | 1         | 1         |
| 2         | OGU               | 10.9801099        | 126.871546  | 38         | 11.5846154  | 9.615384615 | 0.83052381  | 7.1        | 2    | 2         | 2         | 2         | 2         | 2         | 2         |
| 3         | Holstebro         | 10.9801099        | 126.871546  | 38         | 10.4395644  | 9.615384615 | 0.83052381  | 7.1        | 3    | 3         | 3         | 3         | 3         | 3         | 3         |
| 4         | emjergon/Skalborg | 9.615384615       | 103.328739  | 32         | 8.71328739  | 7.2853201   | 0.8336156   | 8.2        | 4    | 4         | 4         | 4         | 4         | 4         | 4         |
| 5         | emjergon/Skalborg | 9.615384615       | 103.328739  | 32         | 8.71328739  | 7.2853201   | 0.8336156   | 8.2        | 5    | 5         | 5         | 5         | 5         | 5         | 5         |
| 6         | Skjern            | 8.71328739        | 77.2853201  | 28         | 8.71328739  | 77.2853201  | 0.8336156   | 8.2        | 6    | 6         | 6         | 6         | 6         | 6         | 6         |
| 7         | Skjern            | 8.71328739        | 77.2853201  | 28         | 8.71328739  | 77.2853201  | 0.8336156   | 8.2        | 7    | 7         | 7         | 7         | 7         | 7         | 7         |
| 8         | Mors              | 7.42857143        | 51.0240516  | 24         | 7.42857143  | 51.0240516  | 0.6843348   | 10.8       | 8    | 8         | 8         | 8         | 8         | 8         | 8         |
| 9         | Skjern            | 7.42857143        | 51.0240516  | 24         | 7.42857143  | 51.0240516  | 0.6843348   | 10.8       | 9    | 9         | 9         | 9         | 9         | 9         | 9         |
| 10        | Ribe-Esbjerg      | 6.89346593        | 43.4730151  | 24         | 6.89346593  | 43.4730151  | 0.6843348   | 10.8       | 10   | 10        | 10        | 10        | 10        | 10        | 10        |
| 11        | Aarhus            | 6.89346593        | 43.4730151  | 24         | 6.89346593  | 43.4730151  | 0.6843348   | 10.8       | 11   | 11        | 11        | 11        | 11        | 11        | 11        |
| 12        | Fribolev          | 5.44505496        | 30.1895063  | 20         | 5.44505496  | 30.1895063  | 0.5737598   | 14.8       | 12   | 12        | 12        | 12        | 12        | 12        | 12        |
| 13        | Lyngby            | 5.44505496        | 30.1895063  | 20         | 5.44505496  | 30.1895063  | 0.5737598   | 14.8       | 13   | 13        | 13        | 13        | 13        | 13        | 13        |
| 14        | Skjern            | 4.8703267         | 21.8197923  | 17         | 4.8703267   | 21.8197923  | 0.6843348   | 10.8       | 14   | 14        | 14        | 14        | 14        | 14        | 14        |
| 15        | Skjern            | 4.8703267         | 21.8197923  | 17         | 4.8703267   | 21.8197923  | 0.6843348   | 10.8       | 15   | 15        | 15        | 15        | 15        | 15        | 15        |
| TOTAL     | MEAN              | MEAN              | MEAN        | MEAN       | MEAN        | MEAN        | MEAN        | MEAN       | MEAN | MEAN      | MEAN      | MEAN      | MEAN      | MEAN      | MEAN      |
| 2020-2021 | 1                 | OGU               | 11.8364154  | 131.39047  | 42          | 12.5        | 10.1104862  | 0.82102571 | 6.6  | 1         | 1         | 1         | 1         | 1         | 1         |
| 2         | Aalborg           | 11.8364154        | 131.39047   | 42         | 11.5846154  | 9.615384615 | 0.83052381  | 7.1        | 2    | 2         | 2         | 2         | 2         | 2         | 2         |
| 3         | Skjern            | 10.4395644        | 108.844222  | 35         | 9.615384615 | 8.21916049  | 0.8485222   | 7.8        | 3    | 3         | 3         | 3         | 3         | 3         | 3         |
| 4         | Holstebro         | 9.615384615       | 103.328739  | 32         | 8.71328739  | 7.2853201   | 0.8336156   | 8.2        | 4    | 4         | 4         | 4         | 4         | 4         | 4         |
| 5         | emjergon/Skalborg | 9.615384615       | 103.328739  | 32         | 8.71328739  | 7.2853201   | 0.8336156   | 8.2        | 5    | 5         | 5         | 5         | 5         | 5         | 5         |
| 6         | Skjern            | 8.71328739        | 77.2853201  | 28         | 8.71328739  | 77.2853201  | 0.8336156   | 8.2        | 6    | 6         | 6         | 6         | 6         | 6         | 6         |
| 7         | Skjern            | 8.71328739        | 77.2853201  | 28         | 8.71328739  | 77.2853201  | 0.8336156   | 8.2        | 7    | 7         | 7         | 7         | 7         | 7         | 7         |
| 8         | Skjern            | 7.42857143        | 51.0240516  | 24         | 7.42857143  | 51.0240516  | 0.6843348   | 10.8       | 8    | 8         | 8         | 8         | 8         | 8         | 8         |
| 9         | Ribe-Esbjerg      | 7.42857143        | 51.0240516  | 24         | 7.42857143  | 51.0240516  | 0.6843348   | 10.8       | 9    | 9         | 9         | 9         | 9         | 9         | 9         |
| 10        | Mors              | 6.89346593        | 43.4730151  | 24         | 6.89346593  | 43.4730151  | 0.6843348   | 10.8       | 10   | 10        | 10        | 10        | 10        | 10        | 10        |
| 11        | Ribe-Esbjerg      | 6.89346593        | 43.4730151  | 24         | 6.89346593  | 43.4730151  | 0.6843348   | 10.8       | 11   | 11        | 11        | 11        | 11        | 11        | 11        |
| 12        | Fribolev          | 5.44505496        | 30.1895063  | 20         | 5.44505496  | 30.1895063  | 0.5737598   | 14.8       | 12   | 12        | 12        | 12        | 12        | 12        | 12        |
| 13        | Lyngby            | 5.44505496        | 30.1895063  | 20         | 5.44505496  | 30.1895063  | 0.5737598   | 14.8       | 13   | 13        | 13        | 13        | 13        | 13        | 13        |
| 14        | Skjern            | 4.8703267         | 21.8197923  | 17         | 4.8703267   | 21.8197923  | 0.6843348   | 10.8       | 14   | 14        | 14        | 14        | 14        | 14        | 14        |
| 15        | Skjern            | 4.8703267         | 21.8197923  | 17         | 4.8703267   | 21.8197923  | 0.6843348   | 10.8       | 15   | 15        | 15        | 15        | 15        | 15        | 15        |
| TOTAL     | MEAN              | MEAN              | MEAN        | MEAN       | MEAN        | MEAN        | MEAN        | MEAN       | MEAN | MEAN      | MEAN      | MEAN      | MEAN      | MEAN      | MEAN      |
| 2021-2022 | 1                 | OGU               | 12.8062528  | 152.287524 | 47          | 13.7        | 11.8364154  | 0.8643348  | 10.8 | 1         | 1         | 1         | 1         | 1         | 1         |
| 2         | Aalborg           | 12.8062528        | 152.287524  | 47         | 11.8364154  | 108.844222  | 0.8485222   | 7.8        | 2    | 2         | 2         | 2         | 2         | 2         | 2         |
| 3         | Skjern            | 8.0952381         | 71.6070075  | 35         | 8.0952381   | 71.6070075  | 0.8485222   | 7.8        | 3    | 3         | 3         | 3         | 3         | 3         | 3         |
| 4         | emjergon/Skalborg | 8.0952381         | 71.6070075  | 35         | 8.0952381   | 71.6070075  | 0.8485222   | 7.8        | 4    | 4         | 4         | 4         | 4         | 4         | 4         |
| 5         | emjergon/Skalborg | 8.0952381         | 71.6070075  | 35         | 8.0952381   | 71.6070075  | 0.8485222   | 7.8        | 5    | 5         | 5         | 5         | 5         | 5         | 5         |
| 6         | Skjern            | 6.89346593        | 43.4730151  | 24         | 6.89346593  | 43.4730151  | 0.6843348   | 10.8       | 6    | 6         | 6         | 6         | 6         | 6         | 6         |
| 7         | Mors              | 6.89346593        | 43.4730151  | 24         | 6.89346593  | 43.4730151  | 0.6843348   | 10.8       | 7    | 7         | 7         | 7         | 7         | 7         | 7         |
| 8         | Ribe-Esbjerg      | 5.44505496        | 30.1895063  | 20         | 5.44505496  | 30.1895063  | 0.5737598   | 14.8       | 8    | 8         | 8         | 8         | 8         | 8         | 8         |
| 9         | Ly                |                   |             |            |             |             |             |            |      |           |           |           |           |           |           |

Annex 5: French women's handball league's latest classifications and calculations

| 2021-2022 |                | 2020-2021   |               | 2019-2020 |                | 2018-2019   |               | 2017-2018 |                |             |               |            |                |             |               |            |
|-----------|----------------|-------------|---------------|-----------|----------------|-------------|---------------|-----------|----------------|-------------|---------------|------------|----------------|-------------|---------------|------------|
| POSITION  | TEAM           | POINTS      | SP*100        | POSITION  | TEAM           | POINTS      | SP*100        | POSITION  | TEAM           | POINTS      | SP*100        | POSITION   | TEAM           | POINTS      | SP*100        |            |
| 1         | Mez            | 78          | 10,9591549    | 1         | Brest          | 51          | 11,1941053    | 1         | Mez            | 63          | 11,0319318    | 1          | Mez            | 65          | 12,4292628    |            |
| 2         | Blain          | 76          | 9,7768178     | 2         | Mez            | 51          | 12,0656951    | 2         | Blain          | 63          | 11,1942454    | 2          | Blain          | 65          | 9,5176239     |            |
| 3         | Nantes         | 74          | 10,8095071    | 3         | Flury Loiret   | 45          | 11,8458358    | 3         | Flury Loiret   | 45          | 11,1942454    | 3          | Blain          | 65          | 9,5176239     |            |
| 4         | Nantes         | 74          | 8,5194505     | 4         | Nantes         | 49          | 9,4264581     | 4         | Besancon       | 40          | 9,2933033     | 4          | Nantes         | 53          | 10,1384321    |            |
| 5         | Nantes         | 74          | 7,8471832     | 5         | Nantes         | 49          | 9,4264581     | 5         | Nantes         | 48          | 8,0000000     | 5          | Nantes         | 50          | 9,6022246     |            |
| 6         | Charente       | 53          | 7,4847812     | 6         | Beaune         | 42          | 9,1026318     | 6         | Flury Loiret   | 48          | 8,3333333     | 6          | Nantes         | 50          | 9,6022246     |            |
| 7         | Nantes         | 51          | 7,1830852     | 7         | Charente       | 38          | 7,8202792     | 7         | Charente       | 40          | 8,4444444     | 7          | Flury Loiret   | 40          | 7,8481856     |            |
| 8         | Nantes         | 47          | 6,8171831     | 8         | Bourg de Peage | 35          | 7,2864205     | 8         | Toulon         | 39          | 7,3963628     | 8          | Charente       | 37          | 7,0746679     |            |
| 9         | Bourg de Peage | 43          | 6,5663828     | 9         | Flury Loiret   | 33          | 7,2864205     | 9         | Paris          | 37          | 7,0696667     | 9          | Toulon         | 37          | 7,0746679     |            |
| 10        | Metz           | 42          | 5,9754025     | 10        | Toulon         | 32          | 7,0752826     | 10        | Bourg de Peage | 36          | 6,4393939     | 10         | Bourg de Peage | 36          | 6,8832621     |            |
| 11        | Beaune         | 39          | 5,4454545     | 11        | Metz           | 25          | 4,9696667     | 11        | Beaune         | 35          | 5,1969697     | 11         | Paris          | 36          | 6,8832621     |            |
| 12        | Paris          | 36          | 5,3211578     | 12        | Metz           | 25          | 4,9696667     | 12        | Metz           | 27          | 5,1969697     | 12         | Bourg de Peage | 36          | 6,8832621     |            |
| 13        | Paris          | 36          | 4,7893294     | 13        | Metz           | 25          | 4,9696667     | 13        | Metz           | 27          | 5,1969697     | 13         | Paris          | 36          | 6,8832621     |            |
| 14        | Flury Loiret   | 32          | 4,5078425     | 14        | Paris          | 25          | 4,7893294     | 14        | Paris          | 27          | 5,1969697     | 14         | Paris          | 36          | 6,8832621     |            |
| 15        | Paris          | 0           | 0             | 15        | Paris          | 25          | 4,7893294     | 15        | Paris          | 27          | 5,1969697     | 15         | Paris          | 36          | 6,8832621     |            |
| MEAN      | 710            | HHI         | 761,3965483   | MEAN      | 384            | HHI         | 752,4568269   | MEAN      | 523            | HHI         | 882,0448056   | MEAN       | 523            | HHI         | 882,0448056   |            |
| ST DEV    | 16,4876385     | 20*(V*mean) | 1,0016779422  | ST DEV    | 6,3032661      | 20*(V*mean) | 0,000649076   | ST DEV    | 11,6647913     | 20*(V*mean) | 0,000649076   | ST DEV     | 11,6647913     | 20*(V*mean) | 0,000649076   |            |
| CV        | 0,18191577     | x1+x2*x3    | 460           | CV        | 0,238119191    | x1+x2*x3    | 28            | CV        | 0,207691981    | x1+x2*x3    | 206           | CV         | 0,207691981    | x1+x2*x3    | 206           |            |
| Cf)       | 41,191831      | GHI         | 0,30235211    | Cf)       | 41,0544955     | GHI         | 0,13147567    | Cf)       | 51,8093939     | GHI         | 0,13762626    | Cf)        | 51,8093939     | GHI         | 0,13762626    |            |
| 1         | Mez            | 57          | 12,9545454    | 1         | Mez            | 38          | 16,9428571    | 1         | Flury Loiret   | 48          | 13,3333333    | 1          | Mez            | 51          | 14,1866667    |            |
| 2         | Paris          | 50          | 11,3683636    | 2         | Flury Loiret   | 34          | 15,1765714    | 2         | Paris          | 45          | 12,5          | 14,1866667 | 2              | Paris       | 45            | 12,5       |
| 3         | Blain          | 46          | 10,4545454    | 3         | Mez            | 45          | 12,3464286    | 3         | Mez            | 45          | 12,5          | 14,1866667 | 3              | Nantes      | 42            | 11,6666667 |
| 4         | Nantes         | 40          | 9,0909091     | 4         | Beaune         | 35          | 12,1515152    | 4         | Nantes         | 34          | 9,4444444     | 4          | Paris          | 40          | 10,5717778    |            |
| 5         | Nantes         | 40          | 9,0909091     | 5         | Nantes         | 28          | 12,5          | 5         | Nantes         | 34          | 9,4444444     | 5          | Paris          | 36          | 10,5717778    |            |
| 6         | Charente       | 40          | 9,0909091     | 6         | Nantes         | 27          | 12,052743     | 6         | Mez            | 32          | 8,8888889     | 6          | Mez            | 34          | 9,4444444     |            |
| 7         | Toulon         | 38          | 8,3636364     | 7         | Toulon         | 32          | 9,2142857     | 7         | Niza           | 20          | 8,5555556     | 7          | Toulon         | 31          | 8,6111111     |            |
| 8         | Dijon          | 37          | 8,4090909     | 8         | Have           | 18          | 8,0357143     | 8         | Have           | 28          | 7,7777778     | 8          | Beaune         | 29          | 8,0555556     |            |
| 9         | Flury Loiret   | 32          | 7,2727273     | 9         | Mez            | 25          | 6,4444444     | 9         | Beaune         | 28          | 7,7777778     | 9          | Niza           | 28          | 7,7777778     |            |
| 10        | Niza           | 28          | 5,0909091     | 10        | Mez            | 25          | 6,4444444     | 10        | Nantes         | 26          | 7,2222222     | 10         | Dijon          | 27          | 5,0909091     |            |
| 11        | Cables         | 26          | 5,0909091     | 11        | Cables         | 24          | 4,3181818     | 11        | Nantes         | 26          | 7,2222222     | 11         | Dijon          | 27          | 5,0909091     |            |
| MEAN      | 40             | HHI         | 1004,13221465 | MEAN      | 28             | HHI         | 1002,88889    | MEAN      | 380            | HHI         | 1052,88889    | MEAN       | 380            | HHI         | 1052,88889    |            |
| ST DEV    | 8,7524295      | 20*(V*mean) | 0,00413221465 | ST DEV    | 6,8109048      | 20*(V*mean) | 0,000649076   | ST DEV    | 7,83028192     | 20*(V*mean) | 0,000649076   | ST DEV     | 7,83028192     | 20*(V*mean) | 0,000649076   |            |
| CV        | 0,178803549    | x1+x2*x3    | 2359          | CV        | 0,581792125    | x1+x2*x3    | 905           | CV        | 0,20284784     | x1+x2*x3    | 1733          | CV         | 0,20284784     | x1+x2*x3    | 1733          |            |
| Cf)       | 53,4000001     | GHI         | 0,161157025   | Cf)       | 70,88028571    | GHI         | 0,114444444   | Cf)       | 60,2777778     | GHI         | 0,132222222   | Cf)        | 60,2777778     | GHI         | 0,1666667     |            |
| 1         | Mez            | 46          | 12,7777778    | 1         | Mez            | 45          | 12,6454545    | 1         | Mez            | 35          | 14,4          | 14,4       | 14,4           | 14,4        |               |            |
| 2         | Paris          | 45          | 12,7777778    | 2         | Toulon         | 45          | 12,6454545    | 2         | Nantes         | 35          | 14,4          | 14,4       | 14,4           | 14,4        |               |            |
| 3         | Beaune         | 43          | 11,9444444    | 3         | Nantes         | 40          | 11,5277752    | 3         | Nantes         | 28          | 11,8181818    | 3          | Paris          | 53          | 10,3333333    |            |
| 4         | Have           | 43          | 11,9444444    | 4         | Beaune         | 40          | 11,5277752    | 4         | Mez            | 24          | 10,9090909    | 4          | Dijon          | 48          | 9,0909091     |            |
| 5         | Toulon         | 37          | 10,6222222    | 5         | Have           | 34          | 9,8181818     | 5         | Mez            | 24          | 10,9090909    | 5          | Nantes         | 47          | 8,3333333     |            |
| 6         | Mez            | 36          | 9,0           | 6         | Flury Loiret   | 33          | 8,3333333     | 6         | Dijon          | 22          | 9,0909091     | 6          | Beaune         | 44          | 8,3333333     |            |
| 7         | Nantes         | 30          | 8,3333333     | 7         | Flury Loiret   | 27          | 7,7777778     | 7         | Flury Loiret   | 20          | 9,0909091     | 7          | Beaune         | 42          | 7,8481856     |            |
| 8         | Flury Loiret   | 30          | 8,3333333     | 8         | Paris          | 27          | 7,7777778     | 8         | Flury Loiret   | 13          | 3,0909091     | 8          | Metz           | 39          | 7,3963628     |            |
| 9         | Dijon          | 24          | 6,3636364     | 9         | Beaune         | 27          | 7,7777778     | 9         | Flury Loiret   | 9           | 3,0909091     | 9          | Metz           | 39          | 7,3963628     |            |
| 10        | Beaune         | 22          | 5,4545455     | 10        | Beaune         | 27          | 7,7777778     | 10        | Flury Loiret   | 8           | 3,0909091     | 10         | Metz           | 39          | 7,3963628     |            |
| MEAN      | 360            | HHI         | 1052,246914   | MEAN      | 347            | HHI         | 1083,19651    | MEAN      | 200            | HHI         | 1121,487603   | MEAN       | 200            | HHI         | 1121,487603   |            |
| ST DEV    | 8,91932107     | 20*(V*mean) | 0,00576568761 | ST DEV    | 8,19070378     | 20*(V*mean) | 0,00413221465 | ST DEV    | 10,13903348    | 20*(V*mean) | 0,00062546281 | ST DEV     | 10,13903348    | 20*(V*mean) | 0,00062546281 |            |
| CV        | 0,247306819    | x1+x2*x3    | 211           | CV        | 0,264846449    | x1+x2*x3    | 211           | CV        | 0,506951612    | x1+x2*x3    | 888           | CV         | 0,48883281     | x1+x2*x3    | 308           |            |
| Cf)       | 60,2777778     | GHI         | 0,132222222   | Cf)       | 58,1818182     | GHI         | 0,142074628   | Cf)       | 75,4545454     | GHI         | 0,274839163   | Cf)        | 75,4545454     | GHI         | 0,1488889     |            |

Source: own elaboration



# Annex 6: French men's handball league's latest classifications and calculations

| SEASON    | POSITION | TEAM                | POINTS      | SH*100      | (SH*100)/2  | (SH*100)/2  | (SH*100)/2  | 2018-2019   | 2019-2020   | 2020-2021   | 2021-2022   | 2016-2017   | 2017-2018   | 2018-2019   | 2019-2020   | 2020-2021   | 2021-2022   |
|-----------|----------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2021-2022 | 1        | PSG                 | 60          | 12.5        | 156.25      | 10.2833333  | 104.210094  | 13.8888889  | 15.5027915  | 132.3043099 | 150.4627915 | 12.3633333  | 13.4615384  | 13.8888889  | 15.5027915  | 132.3043099 | 150.4627915 |
|           | 2        | Nantes              | 49          | 9.1666667   | 94.0277778  | 8.8326389   | 86.9072038  | 11.5079361  | 10.4190519  | 104.49874   | 106.49874   | 10.4190519  | 11.5079361  | 11.5079361  | 10.4190519  | 104.49874   | 106.49874   |
|           | 3        | Chambéry            | 44          | 5.8333333   | 64.0277778  | 5.2166667   | 50.5138889  | 7.8430909   | 7.0569091   | 70.5138889  | 72.5138889  | 7.0569091   | 7.8430909   | 7.8430909   | 7.0569091   | 70.5138889  | 72.5138889  |
|           | 4        | Paris Saint-Germain | 40          | 4.3333333   | 45.6666667  | 4.0333333   | 39.0000000  | 5.6666667   | 5.0000000   | 50.0000000  | 51.0000000  | 5.0000000   | 5.6666667   | 5.6666667   | 5.0000000   | 50.0000000  | 51.0000000  |
|           | 5        | Chambéry            | 38          | 4.0000000   | 42.0000000  | 3.6666667   | 35.3333333  | 4.6666667   | 4.0000000   | 40.0000000  | 41.0000000  | 4.0000000   | 4.6666667   | 4.6666667   | 4.0000000   | 40.0000000  | 41.0000000  |
|           | 6        | Nantes              | 35          | 3.6666667   | 38.3333333  | 3.3333333   | 32.0000000  | 3.6666667   | 3.3333333   | 33.3333333  | 34.3333333  | 3.3333333   | 3.6666667   | 3.6666667   | 3.3333333   | 33.3333333  | 34.3333333  |
|           | 7        | Paris Saint-Germain | 32          | 3.3333333   | 35.0000000  | 3.0000000   | 28.3333333  | 3.3333333   | 3.0000000   | 30.0000000  | 31.0000000  | 3.0000000   | 3.3333333   | 3.3333333   | 3.0000000   | 30.0000000  | 31.0000000  |
|           | 8        | Toulouse            | 28          | 2.6666667   | 28.0000000  | 2.3333333   | 22.3333333  | 2.6666667   | 2.3333333   | 24.0000000  | 25.0000000  | 2.3333333   | 2.6666667   | 2.6666667   | 2.3333333   | 24.0000000  | 25.0000000  |
|           | 9        | Chambéry            | 27          | 2.8333333   | 29.6666667  | 2.5000000   | 24.0000000  | 2.8333333   | 2.5000000   | 26.6666667  | 27.6666667  | 2.5000000   | 2.8333333   | 2.8333333   | 2.5000000   | 26.6666667  | 27.6666667  |
|           | 10       | Chambéry            | 21          | 2.1666667   | 22.6666667  | 1.8333333   | 17.6666667  | 2.1666667   | 1.8333333   | 19.6666667  | 20.6666667  | 1.8333333   | 2.1666667   | 2.1666667   | 1.8333333   | 19.6666667  | 20.6666667  |
|           | 11       | Paris Saint-Germain | 22          | 2.3333333   | 24.3333333  | 2.0000000   | 19.0000000  | 2.3333333   | 2.0000000   | 21.3333333  | 22.3333333  | 2.0000000   | 2.3333333   | 2.3333333   | 2.0000000   | 21.3333333  | 22.3333333  |
|           | 12       | Paris Saint-Germain | 20          | 2.0000000   | 21.0000000  | 1.6666667   | 16.0000000  | 2.0000000   | 1.6666667   | 18.0000000  | 19.0000000  | 1.6666667   | 2.0000000   | 2.0000000   | 1.6666667   | 18.0000000  | 19.0000000  |
|           | 13       | Paris Saint-Germain | 18          | 1.8333333   | 19.1666667  | 1.5000000   | 15.0000000  | 1.8333333   | 1.5000000   | 16.6666667  | 17.6666667  | 1.5000000   | 1.8333333   | 1.8333333   | 1.5000000   | 16.6666667  | 17.6666667  |
|           | 14       | Nantes              | 11          | 1.1666667   | 12.1666667  | 1.0000000   | 9.6666667   | 1.1666667   | 1.0000000   | 11.1666667  | 12.1666667  | 1.0000000   | 1.1666667   | 1.1666667   | 1.0000000   | 11.1666667  | 12.1666667  |
|           | 15       | Nancy               | 12          | 1.3333333   | 14.0000000  | 1.1666667   | 11.0000000  | 1.3333333   | 1.1666667   | 13.0000000  | 14.0000000  | 1.1666667   | 1.3333333   | 1.3333333   | 1.1666667   | 13.0000000  | 14.0000000  |
|           | 16       | Nancy               | 8           | 0.6666667   | 7.0000000   | 0.6666667   | 6.3333333   | 0.6666667   | 0.6666667   | 7.3333333   | 7.6666667   | 0.6666667   | 0.6666667   | 0.6666667   | 0.6666667   | 7.3333333   | 7.6666667   |
| TOTAL     | MEAN     |                     | 480         | 753.125     | 788.8216667 | 738.8216667 | 728.107141  | 752.56912   | 725.69129   | 738.8216667 | 752.56912   | 752.56912   | 752.56912   | 725.69129   | 738.8216667 | 752.56912   |             |
|           | ST. DEV. |                     | 30          | 14.0285433  | 140.285433  | 13.2446475  | 13.1244675  | 13.1244675  | 13.1244675  | 13.2446475  | 13.1244675  | 13.1244675  | 13.1244675  | 13.1244675  | 13.2446475  | 13.1244675  |             |
|           | CV       |                     | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 | 0.467186778 |             |
|           | CfI      |                     | 48.4166667  | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   | 0.2554875   |             |
| 2016-2017 | 1        | PSG                 | 48          | 13.1666667  | 137.8333333 | 12.5000000  | 121.6666667 | 13.1666667  | 13.1666667  | 137.8333333 | 137.8333333 | 12.5000000  | 13.1666667  | 13.1666667  | 137.8333333 | 137.8333333 |             |
|           | 2        | Nantes              | 45          | 12.3633333  | 128.3633333 | 11.8333333  | 115.8333333 | 12.3633333  | 12.3633333  | 128.3633333 | 128.3633333 | 11.8333333  | 12.3633333  | 12.3633333  | 128.3633333 | 128.3633333 |             |
|           | 3        | Chambéry            | 40          | 10.8000000  | 113.6000000 | 10.3000000  | 103.0000000 | 10.8000000  | 10.8000000  | 113.6000000 | 113.6000000 | 10.3000000  | 10.8000000  | 10.8000000  | 113.6000000 | 113.6000000 |             |
|           | 4        | Paris Saint-Germain | 35          | 9.1666667   | 96.1666667  | 8.6666667   | 83.6666667  | 9.1666667   | 9.1666667   | 96.1666667  | 96.1666667  | 8.6666667   | 9.1666667   | 9.1666667   | 96.1666667  | 96.1666667  |             |
|           | 5        | Chambéry            | 30          | 7.6666667   | 80.3333333  | 7.1666667   | 68.3333333  | 7.6666667   | 7.6666667   | 80.3333333  | 80.3333333  | 7.1666667   | 7.6666667   | 7.6666667   | 80.3333333  | 80.3333333  |             |
|           | 6        | Toulouse            | 28          | 7.1428571   | 74.2857143  | 6.7142857   | 70.2857143  | 7.1428571   | 7.1428571   | 74.2857143  | 74.2857143  | 6.7142857   | 7.1428571   | 7.1428571   | 74.2857143  | 74.2857143  |             |
|           | 7        | Paris Saint-Germain | 25          | 6.8333333   | 71.6666667  | 6.3333333   | 63.3333333  | 6.8333333   | 6.8333333   | 71.6666667  | 71.6666667  | 6.3333333   | 6.8333333   | 6.8333333   | 71.6666667  | 71.6666667  |             |
|           | 8        | Paris Saint-Germain | 25          | 6.8333333   | 71.6666667  | 6.3333333   | 63.3333333  | 6.8333333   | 6.8333333   | 71.6666667  | 71.6666667  | 6.3333333   | 6.8333333   | 6.8333333   | 71.6666667  | 71.6666667  |             |
|           | 9        | Paris Saint-Germain | 22          | 6.0495049   | 63.5495049  | 5.5495049   | 54.9504951  | 6.0495049   | 6.0495049   | 63.5495049  | 63.5495049  | 5.5495049   | 6.0495049   | 6.0495049   | 63.5495049  | 63.5495049  |             |
|           | 10       | Nantes              | 22          | 6.0495049   | 63.5495049  | 5.5495049   | 54.9504951  | 6.0495049   | 6.0495049   | 63.5495049  | 63.5495049  | 5.5495049   | 6.0495049   | 6.0495049   | 63.5495049  | 63.5495049  |             |
|           | 11       | Paris Saint-Germain | 16          | 4.3950439   | 46.1504396  | 4.1504396   | 39.504396   | 4.3950439   | 4.3950439   | 46.1504396  | 46.1504396  | 4.1504396   | 4.3950439   | 4.3950439   | 46.1504396  | 46.1504396  |             |
|           | 12       | Saran               | 16          | 4.3950439   | 46.1504396  | 4.1504396   | 39.504396   | 4.3950439   | 4.3950439   | 46.1504396  | 46.1504396  | 4.1504396   | 4.3950439   | 4.3950439   | 46.1504396  | 46.1504396  |             |
|           | 13       | Paris Saint-Germain | 16          | 4.3950439   | 46.1504396  | 4.1504396   | 39.504396   | 4.3950439   | 4.3950439   | 46.1504396  | 46.1504396  | 4.1504396   | 4.3950439   | 4.3950439   | 46.1504396  | 46.1504396  |             |
|           | 14       | Saint-Denis         | 5           | 1.3790374   | 14.3790374  | 1.290374    | 13.3790374  | 1.3790374   | 1.3790374   | 14.3790374  | 14.3790374  | 1.290374    | 1.3790374   | 1.3790374   | 14.3790374  | 14.3790374  |             |
|           | TOTAL    | MEAN                |             | 384         | 659.9575    | 659.9575    | 629.9575    | 629.9575    | 659.9575    | 659.9575    | 659.9575    | 659.9575    | 659.9575    | 659.9575    | 629.9575    | 659.9575    |             |
|           |          | ST. DEV.            |             | 28          | 13.1244675  | 131.244675  | 12.44675    | 121.44675   | 13.1244675  | 13.1244675  | 131.244675  | 131.244675  | 12.44675    | 13.1244675  | 13.1244675  | 131.244675  | 131.244675  |
|           | CV       |                     | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  | 0.46443861  |             |             |
|           | CfI      |                     | 53.2807033  | 0.24764219  | 0.24764219  | 0.24764219  | 0.24764219  | 0.24764219  | 0.24764219  | 0.24764219  | 0.24764219  | 0.24764219  | 0.24764219  | 0.24764219  | 0.24764219  |             |             |
| 2011-2012 | 1        | Paris Saint-Germain | 47          | 12.9120979  | 136.220142  | 12.3888889  | 120.2346    | 12.9120979  | 12.9120979  | 136.220142  | 136.220142  | 12.3888889  | 12.9120979  | 12.9120979  | 136.220142  | 136.220142  |             |
|           | 2        | Chambéry            | 39          | 10.7420571  | 114.7959184 | 10.2322222  | 103.2718    | 10.7420571  | 10.7420571  | 114.7959184 | 114.7959184 | 10.2322222  | 10.7420571  | 10.7420571  | 114.7959184 | 114.7959184 |             |
|           | 3        | Paris Saint-Germain | 36          | 9.5454545   | 101.5454545 | 9.0370370   | 86.3703704  | 9.5454545   | 9.5454545   | 101.5454545 | 101.5454545 | 9.0370370   | 9.5454545   | 9.5454545   | 101.5454545 | 101.5454545 |             |
|           | 4        | Paris Saint-Germain | 35          | 8.6486286   | 91.6486286  | 8.1428571   | 77.1428571  | 8.6486286   | 8.6486286   | 91.6486286  | 91.6486286  | 8.1428571   | 8.6486286   | 8.6486286   | 91.6486286  | 91.6486286  |             |
|           | 5        | Paris Saint-Germain | 31          | 8.1845191   | 85.9519125  | 7.6785714   | 74.9519125  | 8.1845191   | 8.1845191   | 85.9519125  | 85.9519125  | 7.6785714   | 8.1845191   | 8.1845191   | 85.9519125  | 85.9519125  |             |
|           | 6        | Toulouse            | 24          | 6.5904591   | 68.4590459  | 6.0826087   | 57.4590459  | 6.5904591   | 6.5904591   | 68.4590459  | 68.4590459  | 6.0826087   | 6.5904591   | 6.5904591   | 68.4590459  | 68.4590459  |             |
|           | 7        | Saint-Denis         | 22          | 6.0495049   | 63.5495049  | 5.5495049   | 54.9504951  | 6.0495049   | 6.0495049   | 63.5495049  | 63.5495049  | 5.5495049   | 6.0495049   | 6.0495049   | 63.5495049  | 63.5495049  |             |
|           | 8        | Paris Saint-Germain | 21          | 5.7602769   | 60.2769231  | 5.2523810   | 51.2769231  | 5.7602769   | 5.7602769   | 60.2769231  | 60.2769231  | 5.2523810   | 5.7602769   | 5.7602769   | 60.2769231  | 60.2769231  |             |
|           | 9        | Ivry                | 20          | 5.4945049   | 58.4504951  | 5.0826087   | 49.4504951  | 5.4945049   | 5.4945049   | 58.4504951  | 58.4504951  | 5.0826087   | 5.4945049   | 5.4945049   | 58.4504951  | 58.4504951  |             |
|           | 10       | Cesson              | 20          | 5.4945049   | 58.4504951  | 5.0826087   | 49.4504951  | 5.4945049   | 5.4945049   | 58.4504951  | 58.4504951  | 5.0826087   | 5.4945049   | 5.4945049   | 58.4504951  | 58.4504951  |             |
|           | 11       | Tremblay            | 18          | 4.8505049   | 50.5050495  | 4.4426087   | 46.5050495  | 4.8505049   | 4.8505049   | 50.5050495  | 50.5050495  | 4.4426087   | 4.8505049   | 4.8505049   | 50.5050495  | 50.5050495  |             |
|           | 12       | Paris Saint-Germain | 18          | 4.8505049   | 50.5050495  | 4.4426087   | 46.5050495  | 4.8505049   | 4.8505049   | 50.5050495  | 50.5050495  | 4.4426087   | 4.8505049   | 4.8505049   | 50.5050495  | 50.5050495  |             |
|           | 13       | Paris Saint-Germain | 17          | 4.7032037   | 49          |             |             |             |             |             |             |             |             |             |             |             |             |

# Annex 7: German women's handball league's latest classifications and calculations

| 2021-2022  | 2020-2021        | 2019-2020    | 2018-2019   | 2017-2018    | 2016-2017   | 2015-2016 | 2014-2015 | 2013-2014 | 2012-2013 | 2011-2012 |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
|--|------------------|--------------|-------------|--------------|-------------|-----------|-----------|-----------|-----------|-----------|---|--------------|----|-----------|-----------|---|-----------|----|----------|-----------|---|-----------|----|-----------|-----------|---|-----------|----|-----------|-----------|---|--------------|----|-----------|-----------|---|----------------|----|-----------|-----------|---|----------|----|-----------|------------|---|-----------------|----|------------|------------|----|---------------|----|------------|------------|----|-------------|----|-----------|------------|----|---------|----|-----------|------------|----|-------------|----|-----------|------------|----|-----------|----|-----------|------------|----|------|---|------------|-----------|-------|--|-----|-----------|--|------|--|-------|-----------|--|----------|--|-------------|------------|--|----|--|------------|--|--|-----|--|------------|--|--|---|----------|------|--------|---------|-------------|---|--------------|----|-----------|------------|---|-----------|----|-----------|-----------|---|-----------|----|----------|-----------|---|--------------|----|----------|-----------|---|--------------|----|----------|-----------|---|-------------|----|-----------|----------|---|----------|----|-----------|----------|---|-----------------|----|-----------|----------|---|-----------|----|-----------|----------|----|---------------|----|-----------|----------|----|-------------|----|-----------|----------|----|-------------|----|-----------|----------|----|-----------|----|-----------|----------|----|----------|----|-----------|-----------|-------|--|-----|-----------|--|------|--|------------|-----------|--|----------|--|-------------|------------|--|----|--|------------|--|--|-----|--|------------|--|--|---|----------|------|--------|---------|-------------|---|--------------|----|------------|------------|---|-----------|----|------------|------------|---|---------|----|-----------|------------|---|-----------|----|------------|------------|---|----------|----|------------|------------|---|----------|----|------------|-------------|---|----------|----|-----------|-----------|---|--------------|----|------------|-------------|---|-----------|----|-----------|----------|----|-----------------|----|-----------|------------|----|-------|---|-----------|------------|----|---------------|---|-----------|------------|-------|--|-----|-------------|--|------|--|------------|-----------|--|----------|--|-------------|------------|--|----|--|-------------|--|--|-----|--|------------|--|--|--|----------|------|--------|---------|-------------|---|-----------|----|-----------|-----------|---|-----------|----|-----------|-----------|---|--------------|----|-----------|-----------|---|--------------|----|-----------|-----------|---|-----------|----|------------|-----------|---|----------|----|------------|-----------|---|--------------|----|------------|------------|---|----------|----|------------|------------|---|-----------------|----|------------|------------|----|----------|----|------------|------------|----|---------------|----|------------|------------|----|-------------|----|------------|------------|----|----------------|---|-----------|-----------|----|-----------|---|------------|-----------|-------|--|-----|------------|--|------|--|----|----------|-----------|----------|--|-------------|------------|--|----|--|-------------|--|--|-----|--|------------|--|--|---|----------|------|--------|---------|-------------|---|-----------|----|-------------|-------------|---|--------------|----|------------|-------------|---|--------------|----|-----------|-----------|---|--------------|----|-----------|-----------|---|-----------|----|-----------|-----------|---|----------|----|-----------|-----------|---|----------|----|------------|------------|---|--------------|----|------------|-----------|---|----------|----|------------|------------|----|-----------------|----|------------|-----------|----|---------------|----|------------|-----------|----|-------------|----|------------|------------|----|-------------|----|------------|------------|----|-----------|---|------------|-----------|-------|--|-----|-----------|--|------|--|----|----------|-----------|----------|--|-------------|------------|--|----|--|------------|--|--|-----|--|------------|--|--|---|----------|------|--------|---------|-------------|---|-----------|----|-----------|------------|---|---------|----|-----------|------------|---|--------------|----|------------|-----------|---|----------|----|------------|-------------|---|----------|----|------------|-----------|---|----------|----|------------|-------------|---|--------------|----|------------|-------------|---|--------------|----|-----------|------------|---|-----------------|----|-----------|------------|----|-----------|----|-----------|------------|----|-------|---|-----------|------------|----|---------------|---|-----------|------------|-------|--|-----|------------|--|------|--|----|----------|-----------|----------|--|------------|------------|--|----|--|-------------|--|--|-----|--|------------|--|--|--|----------|------|--------|---------|-------------|---|---------|----|------------|-------------|---|----------|----|------------|-------------|---|--------------|----|-------------|--------------|---|-----------|----|-------------|--------------|---|--------------|----|------------|-------------|---|----------|----|------------|-------------|---|-------|----|------------|------------|---|-----------|----|------------|------------|---|----------------|----|------------|-------------|----|--------------|----|------------|------------|----|-----------|----|------------|------------|----|------------------|----|-----------|------------|-------|--|-----|-------------|--|------|--|------------|----------|-----------|----------|--|-------------|------------|--|----|--|--------------|--|--|-----|--|-------------|--|--|
| <table border="1"> <thead> <tr> <th>POSITION</th> <th>TEAM</th> <th>POINTS</th> <th>SF '100</th> <th>(SF '100/2)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Bielingen</td><td>52</td><td>13,794662</td><td>195,38119</td></tr> <tr><td>2</td><td>BVG Dortmund</td><td>44</td><td>10,525325</td><td>164,87256</td></tr> <tr><td>3</td><td>Bielingen</td><td>43</td><td>9,222222</td><td>138,90909</td></tr> <tr><td>4</td><td>Thuringer</td><td>34</td><td>9,1397848</td><td>63,556698</td></tr> <tr><td>5</td><td>Metzinger</td><td>31</td><td>8,5233333</td><td>69,444444</td></tr> <tr><td>6</td><td>Bomben-Lippe</td><td>28</td><td>7,5331843</td><td>56,533184</td></tr> <tr><td>7</td><td>Halle-Neustadt</td><td>21</td><td>6,8664732</td><td>48,866473</td></tr> <tr><td>8</td><td>Levetzen</td><td>19</td><td>5,1076282</td><td>20,8683065</td></tr> <tr><td>9</td><td>erstein-Auebach</td><td>17</td><td>4,59982473</td><td>20,8691722</td></tr> <tr><td>10</td><td>Bad Wilkungen</td><td>11</td><td>4,59982473</td><td>20,8691722</td></tr> <tr><td>11</td><td>Neckarjüher</td><td>11</td><td>2,9999999</td><td>14,4333333</td></tr> <tr><td>12</td><td>Zweckau</td><td>11</td><td>2,9999999</td><td>14,4333333</td></tr> <tr><td>13</td><td>Neckarjüher</td><td>10</td><td>2,6666667</td><td>10,3333333</td></tr> <tr><td>14</td><td>Rosenberg</td><td>10</td><td>2,6666667</td><td>10,3333333</td></tr> <tr><td>15</td><td>Marz</td><td>4</td><td>1,07526817</td><td>1,9520329</td></tr> <tr><td>TOTAL</td><td></td><td>372</td><td>84,634917</td><td></td></tr> <tr><td>MEAN</td><td></td><td>23,25</td><td>3,0000000</td><td></td></tr> <tr><td>ST. DEV.</td><td></td><td>13,00683285</td><td>11*2+2+3*3</td><td></td></tr> <tr><td>CV</td><td></td><td>0,98143368</td><td></td><td></td></tr> <tr><td>Cf)</td><td></td><td>53,4562396</td><td></td><td></td></tr> </tbody> </table> | POSITION         | TEAM         | POINTS      | SF '100      | (SF '100/2) | 1         | Bielingen | 52        | 13,794662 | 195,38119 | 2 | BVG Dortmund | 44 | 10,525325 | 164,87256 | 3 | Bielingen | 43 | 9,222222 | 138,90909 | 4 | Thuringer | 34 | 9,1397848 | 63,556698 | 5 | Metzinger | 31 | 8,5233333 | 69,444444 | 6 | Bomben-Lippe | 28 | 7,5331843 | 56,533184 | 7 | Halle-Neustadt | 21 | 6,8664732 | 48,866473 | 8 | Levetzen | 19 | 5,1076282 | 20,8683065 | 9 | erstein-Auebach | 17 | 4,59982473 | 20,8691722 | 10 | Bad Wilkungen | 11 | 4,59982473 | 20,8691722 | 11 | Neckarjüher | 11 | 2,9999999 | 14,4333333 | 12 | Zweckau | 11 | 2,9999999 | 14,4333333 | 13 | Neckarjüher | 10 | 2,6666667 | 10,3333333 | 14 | Rosenberg | 10 | 2,6666667 | 10,3333333 | 15 | Marz | 4 | 1,07526817 | 1,9520329 | TOTAL |  | 372 | 84,634917 |  | MEAN |  | 23,25 | 3,0000000 |  | ST. DEV. |  | 13,00683285 | 11*2+2+3*3 |  | CV |  | 0,98143368 |  |  | Cf) |  | 53,4562396 |  |  | <table border="1"> <thead> <tr> <th>POSITION</th> <th>TEAM</th> <th>POINTS</th> <th>SF '100</th> <th>(SF '100/2)</th> </tr> </thead> <tbody> <tr><td>1</td><td>BVG Dortmund</td><td>60</td><td>12,718841</td><td>161,591967</td></tr> <tr><td>2</td><td>Bielingen</td><td>55</td><td>11,523333</td><td>156,90909</td></tr> <tr><td>3</td><td>Thuringer</td><td>43</td><td>9,111111</td><td>128,88889</td></tr> <tr><td>4</td><td>Bomben-Lippe</td><td>36</td><td>8,111111</td><td>108,88889</td></tr> <tr><td>5</td><td>Bomben-Lippe</td><td>37</td><td>8,111111</td><td>108,88889</td></tr> <tr><td>6</td><td>Neckarjüher</td><td>30</td><td>6,3555556</td><td>84,37037</td></tr> <tr><td>7</td><td>Odenburg</td><td>29</td><td>6,1444444</td><td>77,99999</td></tr> <tr><td>8</td><td>erstein-Auebach</td><td>29</td><td>5,9320339</td><td>75,75758</td></tr> <tr><td>9</td><td>Bielingen</td><td>28</td><td>5,9320339</td><td>75,75758</td></tr> <tr><td>10</td><td>Bad Wilkungen</td><td>11</td><td>4,8111111</td><td>21,25000</td></tr> <tr><td>11</td><td>Neckarjüher</td><td>11</td><td>4,8111111</td><td>21,25000</td></tr> <tr><td>12</td><td>Neckarjüher</td><td>11</td><td>3,1111111</td><td>14,43333</td></tr> <tr><td>13</td><td>Rosenberg</td><td>10</td><td>3,1111111</td><td>14,43333</td></tr> <tr><td>14</td><td>Oppingen</td><td>10</td><td>3,3989090</td><td>11,490268</td></tr> <tr><td>TOTAL</td><td></td><td>472</td><td>818,32023</td><td></td></tr> <tr><td>MEAN</td><td></td><td>33,7128571</td><td>3,0000000</td><td></td></tr> <tr><td>ST. DEV.</td><td></td><td>13,38442592</td><td>11*2+2+3*3</td><td></td></tr> <tr><td>CV</td><td></td><td>0,93995664</td><td></td><td></td></tr> <tr><td>Cf)</td><td></td><td>51,4835085</td><td></td><td></td></tr> </tbody> </table> | POSITION | TEAM | POINTS | SF '100 | (SF '100/2) | 1 | BVG Dortmund | 60 | 12,718841 | 161,591967 | 2 | Bielingen | 55 | 11,523333 | 156,90909 | 3 | Thuringer | 43 | 9,111111 | 128,88889 | 4 | Bomben-Lippe | 36 | 8,111111 | 108,88889 | 5 | Bomben-Lippe | 37 | 8,111111 | 108,88889 | 6 | Neckarjüher | 30 | 6,3555556 | 84,37037 | 7 | Odenburg | 29 | 6,1444444 | 77,99999 | 8 | erstein-Auebach | 29 | 5,9320339 | 75,75758 | 9 | Bielingen | 28 | 5,9320339 | 75,75758 | 10 | Bad Wilkungen | 11 | 4,8111111 | 21,25000 | 11 | Neckarjüher | 11 | 4,8111111 | 21,25000 | 12 | Neckarjüher | 11 | 3,1111111 | 14,43333 | 13 | Rosenberg | 10 | 3,1111111 | 14,43333 | 14 | Oppingen | 10 | 3,3989090 | 11,490268 | TOTAL |  | 472 | 818,32023 |  | MEAN |  | 33,7128571 | 3,0000000 |  | ST. DEV. |  | 13,38442592 | 11*2+2+3*3 |  | CV |  | 0,93995664 |  |  | Cf) |  | 51,4835085 |  |  | <table border="1"> <thead> <tr> <th>POSITION</th> <th>TEAM</th> <th>POINTS</th> <th>SF '100</th> <th>(SF '100/2)</th> </tr> </thead> <tbody> <tr><td>1</td><td>BVG Dortmund</td><td>34</td><td>13,9126879</td><td>166,720244</td></tr> <tr><td>2</td><td>Bielingen</td><td>30</td><td>12,6373694</td><td>159,702044</td></tr> <tr><td>3</td><td>Leipzig</td><td>27</td><td>14,015152</td><td>196,424472</td></tr> <tr><td>4</td><td>Metzinger</td><td>26</td><td>11,3636364</td><td>129,132214</td></tr> <tr><td>5</td><td>Odenburg</td><td>29</td><td>10,9848488</td><td>120,868982</td></tr> <tr><td>6</td><td>Levetzen</td><td>27</td><td>10,2727273</td><td>134,5271074</td></tr> <tr><td>7</td><td>Oppingen</td><td>28</td><td>8,1818182</td><td>108,88889</td></tr> <tr><td>8</td><td>Bomben-Lippe</td><td>21</td><td>7,56230769</td><td>97,29230769</td></tr> <tr><td>9</td><td>Bielingen</td><td>18</td><td>6,6666667</td><td>90,00000</td></tr> <tr><td>10</td><td>Koblenz/Wieheim</td><td>12</td><td>4,5454545</td><td>60,6115702</td></tr> <tr><td>11</td><td>Thier</td><td>7</td><td>2,2727273</td><td>30,3030303</td></tr> <tr><td>12</td><td>Bes Wilkungen</td><td>5</td><td>1,5151515</td><td>20,5884114</td></tr> <tr><td>TOTAL</td><td></td><td>254</td><td>106,1179882</td><td></td></tr> <tr><td>MEAN</td><td></td><td>21,1666667</td><td>3,0000000</td><td></td></tr> <tr><td>ST. DEV.</td><td></td><td>12,01541136</td><td>11*2+2+3*3</td><td></td></tr> <tr><td>CV</td><td></td><td>0,523984249</td><td></td><td></td></tr> <tr><td>Cf)</td><td></td><td>62,8787878</td><td></td><td></td></tr> </tbody> </table> | POSITION | TEAM | POINTS | SF '100 | (SF '100/2) | 1 | BVG Dortmund | 34 | 13,9126879 | 166,720244 | 2 | Bielingen | 30 | 12,6373694 | 159,702044 | 3 | Leipzig | 27 | 14,015152 | 196,424472 | 4 | Metzinger | 26 | 11,3636364 | 129,132214 | 5 | Odenburg | 29 | 10,9848488 | 120,868982 | 6 | Levetzen | 27 | 10,2727273 | 134,5271074 | 7 | Oppingen | 28 | 8,1818182 | 108,88889 | 8 | Bomben-Lippe | 21 | 7,56230769 | 97,29230769 | 9 | Bielingen | 18 | 6,6666667 | 90,00000 | 10 | Koblenz/Wieheim | 12 | 4,5454545 | 60,6115702 | 11 | Thier | 7 | 2,2727273 | 30,3030303 | 12 | Bes Wilkungen | 5 | 1,5151515 | 20,5884114 | TOTAL |  | 254 | 106,1179882 |  | MEAN |  | 21,1666667 | 3,0000000 |  | ST. DEV. |  | 12,01541136 | 11*2+2+3*3 |  | CV |  | 0,523984249 |  |  | Cf) |  | 62,8787878 |  |  | <table border="1"> <thead> <tr> <th>POSITION</th> <th>TEAM</th> <th>POINTS</th> <th>SF '100</th> <th>(SF '100/2)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Bielingen</td><td>50</td><td>13,794662</td><td>195,38119</td></tr> <tr><td>2</td><td>Thuringer</td><td>30</td><td>10,525325</td><td>164,87256</td></tr> <tr><td>3</td><td>Bomben-Lippe</td><td>28</td><td>9,0909091</td><td>127,27273</td></tr> <tr><td>4</td><td>BVG Dortmund</td><td>34</td><td>9,0909091</td><td>127,27273</td></tr> <tr><td>5</td><td>Metzinger</td><td>28</td><td>7,69230769</td><td>97,157973</td></tr> <tr><td>6</td><td>Levetzen</td><td>33</td><td>7,69230769</td><td>97,157973</td></tr> <tr><td>7</td><td>Bomben-Lippe</td><td>22</td><td>6,43396448</td><td>55,0262392</td></tr> <tr><td>8</td><td>Oppingen</td><td>22</td><td>6,43396448</td><td>55,0262392</td></tr> <tr><td>9</td><td>erstein-Auebach</td><td>20</td><td>5,49450545</td><td>30,1959983</td></tr> <tr><td>10</td><td>Odenburg</td><td>20</td><td>5,49450545</td><td>30,1959983</td></tr> <tr><td>11</td><td>Bad Wilkungen</td><td>15</td><td>4,49450545</td><td>24,4535841</td></tr> <tr><td>12</td><td>Neckarjüher</td><td>15</td><td>4,49450545</td><td>24,4535841</td></tr> <tr><td>13</td><td>Halle-Neustadt</td><td>8</td><td>2,9792308</td><td>4,8333333</td></tr> <tr><td>14</td><td>Rosenberg</td><td>7</td><td>1,92307692</td><td>3,6662462</td></tr> <tr><td>TOTAL</td><td></td><td>364</td><td>89,3294458</td><td></td></tr> <tr><td>MEAN</td><td></td><td>26</td><td>2111*100</td><td>3,0000000</td></tr> <tr><td>ST. DEV.</td><td></td><td>13,62125037</td><td>11*2+2+3*3</td><td></td></tr> <tr><td>CV</td><td></td><td>0,523984249</td><td></td><td></td></tr> <tr><td>Cf)</td><td></td><td>55,1978022</td><td></td><td></td></tr> </tbody> </table> | POSITION | TEAM | POINTS | SF '100 | (SF '100/2) | 1 | Bielingen | 50 | 13,794662 | 195,38119 | 2 | Thuringer | 30 | 10,525325 | 164,87256 | 3 | Bomben-Lippe | 28 | 9,0909091 | 127,27273 | 4 | BVG Dortmund | 34 | 9,0909091 | 127,27273 | 5 | Metzinger | 28 | 7,69230769 | 97,157973 | 6 | Levetzen | 33 | 7,69230769 | 97,157973 | 7 | Bomben-Lippe | 22 | 6,43396448 | 55,0262392 | 8 | Oppingen | 22 | 6,43396448 | 55,0262392 | 9 | erstein-Auebach | 20 | 5,49450545 | 30,1959983 | 10 | Odenburg | 20 | 5,49450545 | 30,1959983 | 11 | Bad Wilkungen | 15 | 4,49450545 | 24,4535841 | 12 | Neckarjüher | 15 | 4,49450545 | 24,4535841 | 13 | Halle-Neustadt | 8 | 2,9792308 | 4,8333333 | 14 | Rosenberg | 7 | 1,92307692 | 3,6662462 | TOTAL |  | 364 | 89,3294458 |  | MEAN |  | 26 | 2111*100 | 3,0000000 | ST. DEV. |  | 13,62125037 | 11*2+2+3*3 |  | CV |  | 0,523984249 |  |  | Cf) |  | 55,1978022 |  |  | <table border="1"> <thead> <tr> <th>POSITION</th> <th>TEAM</th> <th>POINTS</th> <th>SF '100</th> <th>(SF '100/2)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Thuringer</td><td>48</td><td>13,18881319</td><td>173,8881319</td></tr> <tr><td>2</td><td>Bomben-Lippe</td><td>37</td><td>10,1515152</td><td>135,1515152</td></tr> <tr><td>3</td><td>BVG Dortmund</td><td>34</td><td>9,0909091</td><td>127,27273</td></tr> <tr><td>4</td><td>BVG Dortmund</td><td>34</td><td>9,0909091</td><td>127,27273</td></tr> <tr><td>5</td><td>Metzinger</td><td>33</td><td>8,0555556</td><td>108,88889</td></tr> <tr><td>6</td><td>Levetzen</td><td>33</td><td>8,0555556</td><td>108,88889</td></tr> <tr><td>7</td><td>Oppingen</td><td>21</td><td>5,79230769</td><td>73,8692308</td></tr> <tr><td>8</td><td>Bomben-Lippe</td><td>32</td><td>8,79126817</td><td>117,26817</td></tr> <tr><td>9</td><td>Odenburg</td><td>21</td><td>5,79230769</td><td>73,8692308</td></tr> <tr><td>10</td><td>erstein-Auebach</td><td>16</td><td>4,39664444</td><td>19,321338</td></tr> <tr><td>11</td><td>Bad Wilkungen</td><td>15</td><td>4,39664444</td><td>19,321338</td></tr> <tr><td>12</td><td>Neckarjüher</td><td>10</td><td>2,74272727</td><td>7,84730769</td></tr> <tr><td>13</td><td>Neckarjüher</td><td>10</td><td>2,74272727</td><td>7,84730769</td></tr> <tr><td>14</td><td>Rosenberg</td><td>1</td><td>0,27427273</td><td>0,5485455</td></tr> <tr><td>TOTAL</td><td></td><td>364</td><td>88,630602</td><td></td></tr> <tr><td>MEAN</td><td></td><td>26</td><td>2111*100</td><td>3,0000000</td></tr> <tr><td>ST. DEV.</td><td></td><td>13,30127282</td><td>11*2+2+3*3</td><td></td></tr> <tr><td>CV</td><td></td><td>0,51997228</td><td></td><td></td></tr> <tr><td>Cf)</td><td></td><td>52,1978022</td><td></td><td></td></tr> </tbody> </table> | POSITION | TEAM | POINTS | SF '100 | (SF '100/2) | 1 | Thuringer | 48 | 13,18881319 | 173,8881319 | 2 | Bomben-Lippe | 37 | 10,1515152 | 135,1515152 | 3 | BVG Dortmund | 34 | 9,0909091 | 127,27273 | 4 | BVG Dortmund | 34 | 9,0909091 | 127,27273 | 5 | Metzinger | 33 | 8,0555556 | 108,88889 | 6 | Levetzen | 33 | 8,0555556 | 108,88889 | 7 | Oppingen | 21 | 5,79230769 | 73,8692308 | 8 | Bomben-Lippe | 32 | 8,79126817 | 117,26817 | 9 | Odenburg | 21 | 5,79230769 | 73,8692308 | 10 | erstein-Auebach | 16 | 4,39664444 | 19,321338 | 11 | Bad Wilkungen | 15 | 4,39664444 | 19,321338 | 12 | Neckarjüher | 10 | 2,74272727 | 7,84730769 | 13 | Neckarjüher | 10 | 2,74272727 | 7,84730769 | 14 | Rosenberg | 1 | 0,27427273 | 0,5485455 | TOTAL |  | 364 | 88,630602 |  | MEAN |  | 26 | 2111*100 | 3,0000000 | ST. DEV. |  | 13,30127282 | 11*2+2+3*3 |  | CV |  | 0,51997228 |  |  | Cf) |  | 52,1978022 |  |  | <table border="1"> <thead> <tr> <th>POSITION</th> <th>TEAM</th> <th>POINTS</th> <th>SF '100</th> <th>(SF '100/2)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Thuringer</td><td>37</td><td>14,015152</td><td>196,424472</td></tr> <tr><td>2</td><td>Leipzig</td><td>37</td><td>14,015152</td><td>196,424472</td></tr> <tr><td>3</td><td>Bomben-Lippe</td><td>35</td><td>13,2575758</td><td>175,78315</td></tr> <tr><td>4</td><td>Odenburg</td><td>31</td><td>11,7424242</td><td>157,8845271</td></tr> <tr><td>5</td><td>Levetzen</td><td>28</td><td>10,6666667</td><td>142,22222</td></tr> <tr><td>6</td><td>Oppingen</td><td>28</td><td>7,56230769</td><td>97,29230769</td></tr> <tr><td>7</td><td>Bomben-Lippe</td><td>21</td><td>7,56230769</td><td>97,29230769</td></tr> <tr><td>8</td><td>Bomben-Lippe</td><td>15</td><td>5,8181818</td><td>77,2525253</td></tr> <tr><td>9</td><td>Koblenz/Wieheim</td><td>12</td><td>4,5454545</td><td>60,6115702</td></tr> <tr><td>10</td><td>Metzinger</td><td>11</td><td>4,5454545</td><td>60,6115702</td></tr> <tr><td>11</td><td>Thier</td><td>7</td><td>2,6515152</td><td>33,8692308</td></tr> <tr><td>12</td><td>Bes Wilkungen</td><td>5</td><td>1,8939394</td><td>3,87006428</td></tr> <tr><td>TOTAL</td><td></td><td>254</td><td>104,701681</td><td></td></tr> <tr><td>MEAN</td><td></td><td>22</td><td>2111*100</td><td>3,0000000</td></tr> <tr><td>ST. DEV.</td><td></td><td>11,7088271</td><td>11*2+2+3*3</td><td></td></tr> <tr><td>CV</td><td></td><td>0,523984249</td><td></td><td></td></tr> <tr><td>Cf)</td><td></td><td>63,2975758</td><td></td><td></td></tr> </tbody> </table> | POSITION | TEAM | POINTS | SF '100 | (SF '100/2) | 1 | Thuringer | 37 | 14,015152 | 196,424472 | 2 | Leipzig | 37 | 14,015152 | 196,424472 | 3 | Bomben-Lippe | 35 | 13,2575758 | 175,78315 | 4 | Odenburg | 31 | 11,7424242 | 157,8845271 | 5 | Levetzen | 28 | 10,6666667 | 142,22222 | 6 | Oppingen | 28 | 7,56230769 | 97,29230769 | 7 | Bomben-Lippe | 21 | 7,56230769 | 97,29230769 | 8 | Bomben-Lippe | 15 | 5,8181818 | 77,2525253 | 9 | Koblenz/Wieheim | 12 | 4,5454545 | 60,6115702 | 10 | Metzinger | 11 | 4,5454545 | 60,6115702 | 11 | Thier | 7 | 2,6515152 | 33,8692308 | 12 | Bes Wilkungen | 5 | 1,8939394 | 3,87006428 | TOTAL |  | 254 | 104,701681 |  | MEAN |  | 22 | 2111*100 | 3,0000000 | ST. DEV. |  | 11,7088271 | 11*2+2+3*3 |  | CV |  | 0,523984249 |  |  | Cf) |  | 63,2975758 |  |  | <table border="1"> <thead> <tr> <th>POSITION</th> <th>TEAM</th> <th>POINTS</th> <th>SF '100</th> <th>(SF '100/2)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Leipzig</td><td>46</td><td>12,9774648</td><td>167,8031938</td></tr> <tr><td>2</td><td>Levetzen</td><td>43</td><td>12,1109608</td><td>161,7861072</td></tr> <tr><td>3</td><td>Bomben-Lippe</td><td>38</td><td>10,78450545</td><td>134,78450545</td></tr> <tr><td>4</td><td>Frankfurt</td><td>38</td><td>10,78450545</td><td>134,78450545</td></tr> <tr><td>5</td><td>BVG Dortmund</td><td>36</td><td>9,23076923</td><td>122,8095238</td></tr> <tr><td>6</td><td>Odenburg</td><td>33</td><td>8,46153846</td><td>112,8571429</td></tr> <tr><td>7</td><td>Thier</td><td>23</td><td>6,47897329</td><td>84,6157945</td></tr> <tr><td>8</td><td>Darmstadt</td><td>22</td><td>6,18718309</td><td>80,4850738</td></tr> <tr><td>9</td><td>Halle-Neustadt</td><td>20</td><td>5,63802917</td><td>73,17973418</td></tr> <tr><td>10</td><td>Bomben-Lippe</td><td>18</td><td>5,07422535</td><td>64,5969469</td></tr> <tr><td>11</td><td>Bielingen</td><td>18</td><td>4,78973294</td><td>63,8591634</td></tr> <tr><td>12</td><td>Jape Ströbenheim</td><td>12</td><td>3,0000000</td><td>40,0000000</td></tr> <tr><td>TOTAL</td><td></td><td>462</td><td>206,8333333</td><td></td></tr> <tr><td>MEAN</td><td></td><td>38,5000000</td><td>2111*100</td><td>3,0000000</td></tr> <tr><td>ST. DEV.</td><td></td><td>10,96654693</td><td>11*2+2+3*3</td><td></td></tr> <tr><td>CV</td><td></td><td>0,3707001778</td><td></td><td></td></tr> <tr><td>Cf)</td><td></td><td>57,46478873</td><td></td><td></td></tr> </tbody> </table> | POSITION | TEAM | POINTS | SF '100 | (SF '100/2) | 1 | Leipzig | 46 | 12,9774648 | 167,8031938 | 2 | Levetzen | 43 | 12,1109608 | 161,7861072 | 3 | Bomben-Lippe | 38 | 10,78450545 | 134,78450545 | 4 | Frankfurt | 38 | 10,78450545 | 134,78450545 | 5 | BVG Dortmund | 36 | 9,23076923 | 122,8095238 | 6 | Odenburg | 33 | 8,46153846 | 112,8571429 | 7 | Thier | 23 | 6,47897329 | 84,6157945 | 8 | Darmstadt | 22 | 6,18718309 | 80,4850738 | 9 | Halle-Neustadt | 20 | 5,63802917 | 73,17973418 | 10 | Bomben-Lippe | 18 | 5,07422535 | 64,5969469 | 11 | Bielingen | 18 | 4,78973294 | 63,8591634 | 12 | Jape Ströbenheim | 12 | 3,0000000 | 40,0000000 | TOTAL |  | 462 | 206,8333333 |  | MEAN |  | 38,5000000 | 2111*100 | 3,0000000 | ST. DEV. |  | 10,96654693 | 11*2+2+3*3 |  | CV |  | 0,3707001778 |  |  | Cf) |  | 57,46478873 |  |  |
| POSITION   | TEAM             | POINTS       | SF '100     | (SF '100/2)  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 1  | Bielingen        | 52           | 13,794662   | 195,38119    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 2  | BVG Dortmund     | 44           | 10,525325   | 164,87256    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 3  | Bielingen        | 43           | 9,222222    | 138,90909    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 4  | Thuringer        | 34           | 9,1397848   | 63,556698    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 5  | Metzinger        | 31           | 8,5233333   | 69,444444    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 6  | Bomben-Lippe     | 28           | 7,5331843   | 56,533184    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 7  | Halle-Neustadt   | 21           | 6,8664732   | 48,866473    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 8  | Levetzen         | 19           | 5,1076282   | 20,8683065   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 9  | erstein-Auebach  | 17           | 4,59982473  | 20,8691722   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 10   | Bad Wilkungen    | 11           | 4,59982473  | 20,8691722   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 11   | Neckarjüher      | 11           | 2,9999999   | 14,4333333   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 12   | Zweckau          | 11           | 2,9999999   | 14,4333333   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 13   | Neckarjüher      | 10           | 2,6666667   | 10,3333333   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 14   | Rosenberg        | 10           | 2,6666667   | 10,3333333   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 15   | Marz             | 4            | 1,07526817  | 1,9520329    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| TOTAL  |                  | 372          | 84,634917   |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| MEAN   |                  | 23,25        | 3,0000000   |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| ST. DEV.   |                  | 13,00683285  | 11*2+2+3*3  |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| CV   |                  | 0,98143368   |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| Cf)  |                  | 53,4562396   |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| POSITION   | TEAM             | POINTS       | SF '100     | (SF '100/2)  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 1  | BVG Dortmund     | 60           | 12,718841   | 161,591967   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 2  | Bielingen        | 55           | 11,523333   | 156,90909    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 3  | Thuringer        | 43           | 9,111111    | 128,88889    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 4  | Bomben-Lippe     | 36           | 8,111111    | 108,88889    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 5  | Bomben-Lippe     | 37           | 8,111111    | 108,88889    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 6  | Neckarjüher      | 30           | 6,3555556   | 84,37037     |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 7  | Odenburg         | 29           | 6,1444444   | 77,99999     |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 8  | erstein-Auebach  | 29           | 5,9320339   | 75,75758     |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 9  | Bielingen        | 28           | 5,9320339   | 75,75758     |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 10   | Bad Wilkungen    | 11           | 4,8111111   | 21,25000     |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 11   | Neckarjüher      | 11           | 4,8111111   | 21,25000     |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 12   | Neckarjüher      | 11           | 3,1111111   | 14,43333     |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 13   | Rosenberg        | 10           | 3,1111111   | 14,43333     |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 14   | Oppingen         | 10           | 3,3989090   | 11,490268    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| TOTAL  |                  | 472          | 818,32023   |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| MEAN   |                  | 33,7128571   | 3,0000000   |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| ST. DEV.   |                  | 13,38442592  | 11*2+2+3*3  |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| CV   |                  | 0,93995664   |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| Cf)  |                  | 51,4835085   |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| POSITION   | TEAM             | POINTS       | SF '100     | (SF '100/2)  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 1  | BVG Dortmund     | 34           | 13,9126879  | 166,720244   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 2  | Bielingen        | 30           | 12,6373694  | 159,702044   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 3  | Leipzig          | 27           | 14,015152   | 196,424472   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 4  | Metzinger        | 26           | 11,3636364  | 129,132214   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 5  | Odenburg         | 29           | 10,9848488  | 120,868982   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 6  | Levetzen         | 27           | 10,2727273  | 134,5271074  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 7  | Oppingen         | 28           | 8,1818182   | 108,88889    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 8  | Bomben-Lippe     | 21           | 7,56230769  | 97,29230769  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 9  | Bielingen        | 18           | 6,6666667   | 90,00000     |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 10   | Koblenz/Wieheim  | 12           | 4,5454545   | 60,6115702   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 11   | Thier            | 7            | 2,2727273   | 30,3030303   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 12   | Bes Wilkungen    | 5            | 1,5151515   | 20,5884114   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| TOTAL  |                  | 254          | 106,1179882 |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| MEAN   |                  | 21,1666667   | 3,0000000   |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| ST. DEV.   |                  | 12,01541136  | 11*2+2+3*3  |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| CV   |                  | 0,523984249  |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| Cf)  |                  | 62,8787878   |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| POSITION   | TEAM             | POINTS       | SF '100     | (SF '100/2)  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 1  | Bielingen        | 50           | 13,794662   | 195,38119    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 2  | Thuringer        | 30           | 10,525325   | 164,87256    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 3  | Bomben-Lippe     | 28           | 9,0909091   | 127,27273    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 4  | BVG Dortmund     | 34           | 9,0909091   | 127,27273    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 5  | Metzinger        | 28           | 7,69230769  | 97,157973    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 6  | Levetzen         | 33           | 7,69230769  | 97,157973    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 7  | Bomben-Lippe     | 22           | 6,43396448  | 55,0262392   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 8  | Oppingen         | 22           | 6,43396448  | 55,0262392   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 9  | erstein-Auebach  | 20           | 5,49450545  | 30,1959983   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 10   | Odenburg         | 20           | 5,49450545  | 30,1959983   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 11   | Bad Wilkungen    | 15           | 4,49450545  | 24,4535841   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 12   | Neckarjüher      | 15           | 4,49450545  | 24,4535841   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 13   | Halle-Neustadt   | 8            | 2,9792308   | 4,8333333    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 14   | Rosenberg        | 7            | 1,92307692  | 3,6662462    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| TOTAL  |                  | 364          | 89,3294458  |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| MEAN   |                  | 26           | 2111*100    | 3,0000000    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| ST. DEV.   |                  | 13,62125037  | 11*2+2+3*3  |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| CV   |                  | 0,523984249  |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| Cf)  |                  | 55,1978022   |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| POSITION   | TEAM             | POINTS       | SF '100     | (SF '100/2)  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 1  | Thuringer        | 48           | 13,18881319 | 173,8881319  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 2  | Bomben-Lippe     | 37           | 10,1515152  | 135,1515152  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 3  | BVG Dortmund     | 34           | 9,0909091   | 127,27273    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 4  | BVG Dortmund     | 34           | 9,0909091   | 127,27273    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 5  | Metzinger        | 33           | 8,0555556   | 108,88889    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 6  | Levetzen         | 33           | 8,0555556   | 108,88889    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 7  | Oppingen         | 21           | 5,79230769  | 73,8692308   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 8  | Bomben-Lippe     | 32           | 8,79126817  | 117,26817    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 9  | Odenburg         | 21           | 5,79230769  | 73,8692308   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 10   | erstein-Auebach  | 16           | 4,39664444  | 19,321338    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 11   | Bad Wilkungen    | 15           | 4,39664444  | 19,321338    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 12   | Neckarjüher      | 10           | 2,74272727  | 7,84730769   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 13   | Neckarjüher      | 10           | 2,74272727  | 7,84730769   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 14   | Rosenberg        | 1            | 0,27427273  | 0,5485455    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| TOTAL  |                  | 364          | 88,630602   |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| MEAN   |                  | 26           | 2111*100    | 3,0000000    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| ST. DEV.   |                  | 13,30127282  | 11*2+2+3*3  |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| CV   |                  | 0,51997228   |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| Cf)  |                  | 52,1978022   |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| POSITION   | TEAM             | POINTS       | SF '100     | (SF '100/2)  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 1  | Thuringer        | 37           | 14,015152   | 196,424472   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 2  | Leipzig          | 37           | 14,015152   | 196,424472   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 3  | Bomben-Lippe     | 35           | 13,2575758  | 175,78315    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 4  | Odenburg         | 31           | 11,7424242  | 157,8845271  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 5  | Levetzen         | 28           | 10,6666667  | 142,22222    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 6  | Oppingen         | 28           | 7,56230769  | 97,29230769  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 7  | Bomben-Lippe     | 21           | 7,56230769  | 97,29230769  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 8  | Bomben-Lippe     | 15           | 5,8181818   | 77,2525253   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 9  | Koblenz/Wieheim  | 12           | 4,5454545   | 60,6115702   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 10   | Metzinger        | 11           | 4,5454545   | 60,6115702   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 11   | Thier            | 7            | 2,6515152   | 33,8692308   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 12   | Bes Wilkungen    | 5            | 1,8939394   | 3,87006428   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| TOTAL  |                  | 254          | 104,701681  |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| MEAN   |                  | 22           | 2111*100    | 3,0000000    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| ST. DEV.   |                  | 11,7088271   | 11*2+2+3*3  |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| CV   |                  | 0,523984249  |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| Cf)  |                  | 63,2975758   |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| POSITION   | TEAM             | POINTS       | SF '100     | (SF '100/2)  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 1  | Leipzig          | 46           | 12,9774648  | 167,8031938  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 2  | Levetzen         | 43           | 12,1109608  | 161,7861072  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 3  | Bomben-Lippe     | 38           | 10,78450545 | 134,78450545 |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 4  | Frankfurt        | 38           | 10,78450545 | 134,78450545 |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 5  | BVG Dortmund     | 36           | 9,23076923  | 122,8095238  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 6  | Odenburg         | 33           | 8,46153846  | 112,8571429  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 7  | Thier            | 23           | 6,47897329  | 84,6157945   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 8  | Darmstadt        | 22           | 6,18718309  | 80,4850738   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 9  | Halle-Neustadt   | 20           | 5,63802917  | 73,17973418  |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 10   | Bomben-Lippe     | 18           | 5,07422535  | 64,5969469   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 11   | Bielingen        | 18           | 4,78973294  | 63,8591634   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| 12   | Jape Ströbenheim | 12           | 3,0000000   | 40,0000000   |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| TOTAL  |                  | 462          | 206,8333333 |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| MEAN   |                  | 38,5000000   | 2111*100    | 3,0000000    |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| ST. DEV.   |                  | 10,96654693  | 11*2+2+3*3  |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| CV   |                  | 0,3707001778 |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |
| Cf)  |                  | 57,46478873  |             |              |             |           |           |           |           |           |   |              |    |           |           |   |           |    |          |           |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |                |    |           |           |   |          |    |           |            |   |                 |    |            |            |    |               |    |            |            |    |             |    |           |            |    |         |    |           |            |    |             |    |           |            |    |           |    |           |            |    |      |   |            |           |       |  |     |           |  |      |  |       |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |           |            |   |           |    |           |           |   |           |    |          |           |   |              |    |          |           |   |              |    |          |           |   |             |    |           |          |   |          |    |           |          |   |                 |    |           |          |   |           |    |           |          |    |               |    |           |          |    |             |    |           |          |    |             |    |           |          |    |           |    |           |          |    |          |    |           |           |       |  |     |           |  |      |  |            |           |  |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |              |    |            |            |   |           |    |            |            |   |         |    |           |            |   |           |    |            |            |   |          |    |            |            |   |          |    |            |             |   |          |    |           |           |   |              |    |            |             |   |           |    |           |          |    |                 |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |             |  |      |  |            |           |  |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |           |    |           |           |   |           |    |           |           |   |              |    |           |           |   |              |    |           |           |   |           |    |            |           |   |          |    |            |           |   |              |    |            |            |   |          |    |            |            |   |                 |    |            |            |    |          |    |            |            |    |               |    |            |            |    |             |    |            |            |    |                |   |           |           |    |           |   |            |           |       |  |     |            |  |      |  |    |          |           |          |  |             |            |  |    |  |             |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |             |             |   |              |    |            |             |   |              |    |           |           |   |              |    |           |           |   |           |    |           |           |   |          |    |           |           |   |          |    |            |            |   |              |    |            |           |   |          |    |            |            |    |                 |    |            |           |    |               |    |            |           |    |             |    |            |            |    |             |    |            |            |    |           |   |            |           |       |  |     |           |  |      |  |    |          |           |          |  |             |            |  |    |  |            |  |  |     |  |            |  |  |   |          |      |        |         |             |   |           |    |           |            |   |         |    |           |            |   |              |    |            |           |   |          |    |            |             |   |          |    |            |           |   |          |    |            |             |   |              |    |            |             |   |              |    |           |            |   |                 |    |           |            |    |           |    |           |            |    |       |   |           |            |    |               |   |           |            |       |  |     |            |  |      |  |    |          |           |          |  |            |            |  |    |  |             |  |  |     |  |            |  |  |  |          |      |        |         |             |   |         |    |            |             |   |          |    |            |             |   |              |    |             |              |   |           |    |             |              |   |              |    |            |             |   |          |    |            |             |   |       |    |            |            |   |           |    |            |            |   |                |    |            |             |    |              |    |            |            |    |           |    |            |            |    |                  |    |           |            |       |  |     |             |  |      |  |            |          |           |          |  |             |            |  |    |  |              |  |  |     |  |             |  |  |

Source: own elaboration

## Annex 8: German men's handball league's latest classifications and calculations

| 2015-2022 |                 |      |      |      |      |      |      |      |      | 2015-2019 |                 |      |      |      |      |      |      |      |      | 2015-2018 |                 |     |      |      |      |      |      |      |      | 2015-2017 |                 |      |      |      |      |      |      |      |     |
|-----------|-----------------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|------|------|------|------|------|-----------|-----------------|-----|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|------|------|------|------|-----|
| 2015-2022 |                 |      |      |      |      |      |      |      |      | 2015-2019 |                 |      |      |      |      |      |      |      |      | 2015-2018 |                 |     |      |      |      |      |      |      |      | 2015-2017 |                 |      |      |      |      |      |      |      |     |
| POSITION  | TEAM            | PTS  | GD   | PPG  | PPA  | PPD  | PPG  | PPA  | PPD  | POSITION  | TEAM            | PTS  | GD   | PPG  | PPA  | PPD  | PPG  | PPA  | PPD  | POSITION  | TEAM            | PTS | GD   | PPG  | PPA  | PPD  | PPG  | PPA  | PPD  | POSITION  | TEAM            | PTS  | GD   | PPG  | PPA  | PPD  |      |      |     |
| 1         | Mannheim        | 84   | 14   | 32   | 28   | 28   | 3.2  | 2.8  | 2.8  | 1         | Rhein-Neckar    | 61   | 10   | 29   | 26   | 26   | 3.1  | 2.7  | 2.7  | 1         | Rhein-Neckar    | 61  | 10   | 29   | 26   | 26   | 3.1  | 2.7  | 2.7  | 1         | Rhein-Neckar    | 61   | 10   | 29   | 26   | 26   | 3.1  | 2.7  | 2.7 |
| 2         | Kiel            | 78   | 10   | 28   | 26   | 26   | 2.9  | 2.6  | 2.6  | 2         | FuSSball Berlin | 58   | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5  | 2         | FuSSball Berlin | 58  | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5  | 2         | FuSSball Berlin | 58   | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5 |
| 3         | FuSSball Berlin | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 3         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 3         | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 3         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 4         | FuSSball Berlin | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 4         | FuSSball Berlin | 58   | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5  | 4         | FuSSball Berlin | 58  | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5  | 4         | FuSSball Berlin | 58   | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5 |
| 5         | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 5         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 5         | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 5         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 6         | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 6         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 6         | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 6         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 7         | Wetzlar         | 70   | 10   | 28   | 26   | 26   | 2.9  | 2.6  | 2.6  | 7         | Wetzlar         | 58   | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5  | 7         | Wetzlar         | 58  | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5  | 7         | Wetzlar         | 58   | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5 |
| 8         | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 8         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 8         | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 8         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 9         | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 9         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 9         | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 9         | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 10        | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 10        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 10        | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 10        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 11        | Wetzlar         | 70   | 10   | 28   | 26   | 26   | 2.9  | 2.6  | 2.6  | 11        | Wetzlar         | 58   | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5  | 11        | Wetzlar         | 58  | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5  | 11        | Wetzlar         | 58   | 8    | 26   | 24   | 24   | 2.8  | 2.5  | 2.5 |
| 12        | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 12        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 12        | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 12        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 13        | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 13        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 13        | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 13        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 14        | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 14        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 14        | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 14        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 15        | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 15        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 15        | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 15        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 16        | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 16        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 16        | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 16        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 17        | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 17        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 17        | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 17        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| 18        | Mannheim        | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 18        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 18        | Mannheim        | 63  | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | 18        | Mannheim        | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7 |
| MEAN      |                 | 74   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | MEAN      |                 | 63   | 12   | 28   | 26   | 26   | 3.0  | 2.7  | 2.7  | MEAN      |                 | 61  | 10   | 29   | 26   | 26   | 3.1  | 2.7  | 2.7  | MEAN      |                 | 61   | 10   | 29   | 26   | 26   | 3.1  | 2.7  | 2.7 |
| ST. DEV.  |                 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | ST. DEV.  |                 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15      | ST. DEV.        |     | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | ST. DEV.  |                 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |     |
| CV        |                 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | CV        |                 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42      | CV              |     | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | CV        |                 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |     |
| CI(1)     |                 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | CI(1)     |                 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27      | CI(1)           |     | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | CI(1)     |                 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 |     |
| CI(2)     |                 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | CI(2)     |                 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42      | CI(2)           |     | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | CI(2)     |                 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |     |

Source: own elaboration