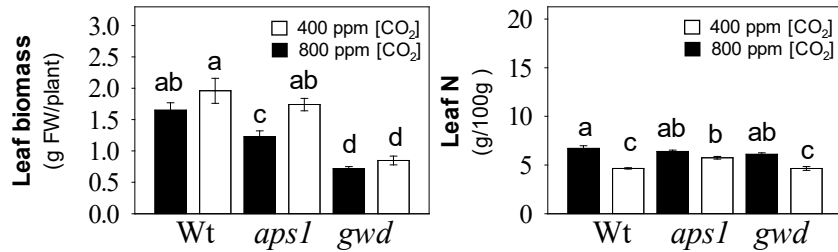
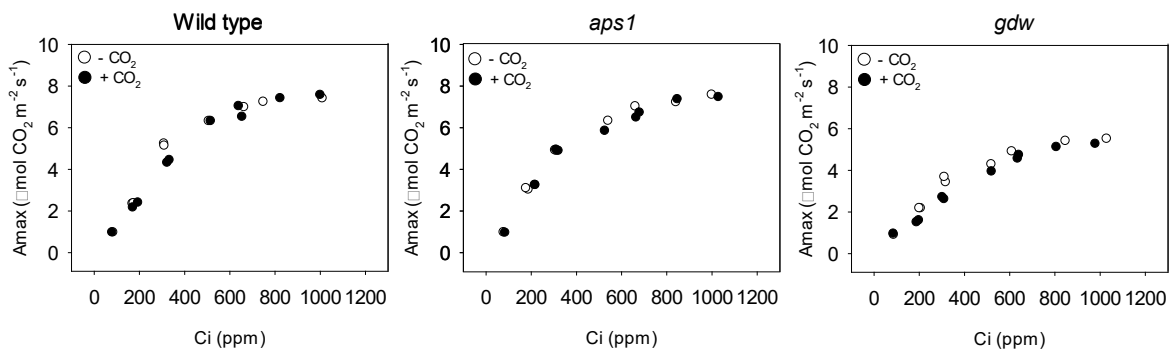


**Supplemental Table 1.** Effect of elevated [CO<sub>2</sub>] (800 *versus* 400 ppm) in *Arabidopsis thaliana* (wild type *wt*, starchless *aps1*, and starchexcess *gwd*) on stomatal conductance (*gs*, mol CO<sub>2</sub> m<sup>-2</sup>s<sup>-1</sup>), dark respiration (*R<sub>D</sub>*, μmol CO<sub>2</sub> m<sup>-2</sup>s<sup>-1</sup>). Values are means ± SD of 6 replicates, with different letters indicating significant (P < 0.05) differences according to Tukey's test.

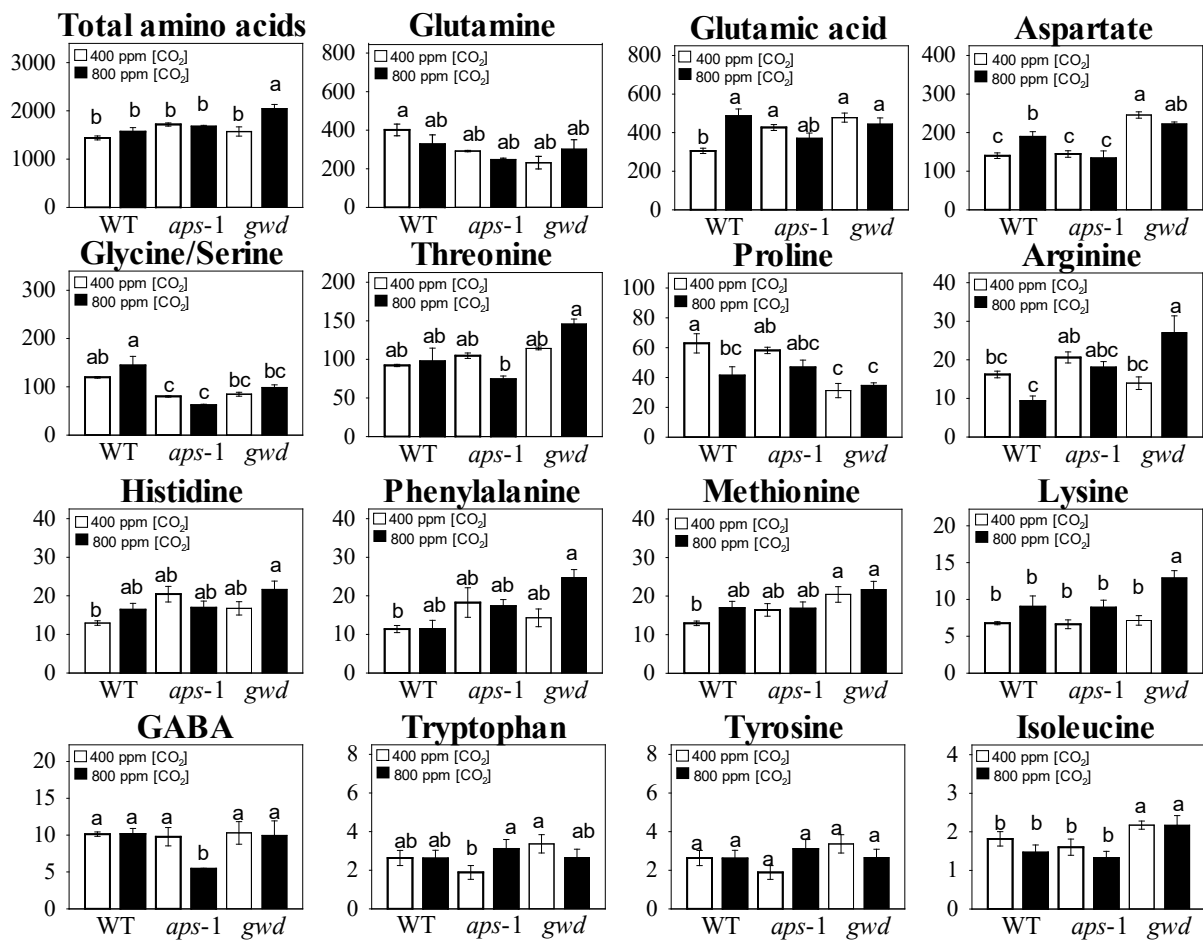
		<i>gs</i>	<i>R<sub>D</sub></i>
WT	400 ppm [CO <sub>2</sub> ]	0.20 ± 0,02 a	0.69 ± 0.11 ab
	800 ppm [CO <sub>2</sub> ]	0.14 ± 0,01 bc	0.78 ± 0.04 a
<i>aps1</i>	400 ppm [CO <sub>2</sub> ]	0.21 ± 0,03 a	0.68 ± 0.05 ab
	800 ppm [CO <sub>2</sub> ]	0.15 ± 0,02 bc	0.78 ± 0.08 a
<i>gwd</i>	400 ppm [CO <sub>2</sub> ]	0.18 ± 0,03 ab	0.54 ± 0.07 b
	800 ppm [CO <sub>2</sub> ]	0.13 ± 0,01 c	0.63 ± 0.06 ab



**Supplemental Figure 1.** Effect of elevated [CO<sub>2</sub>] (800 versus 400 ppm) in *Arabidopsis thaliana* (wild type WT, starchless *aps1*, and starchexcess *gdw*) on leaf biomass and leaf nitrogen content (leaf N). Bars are means  $\pm$  SD of 10 replicates for biomass and 6 replicates for N content, with different letters indicating significant ( $P < 0.05$ ) differences according to a Tukey test.



**Supplemental Figure 2.** Selected data representing A/Ci curves comparing the effect of elevated [CO<sub>2</sub>] (800 versus 400 ppm) in *Arabidopsis thaliana* (wild type WT, starchless *aps1*, and starchexcess *gdw*).



**Supplemental Figure 1.** Effect of elevated [CO<sub>2</sub>] (800 versus 400 ppm) in *Arabidopsis thaliana* (wild type WT, starchless *aps1*, and starchexcess *gdw*) on total and selected individual amino acids content ( $\mu\text{mol g}^{-1}$  DW) in leaves. Bars are means  $\pm$  SD of 4 replicates, with different letters indicating significant (P < 0.05) differences according to a Tukey test.