

**Supplementary Table S1:** Tiller number, total biomass, cumulative water transpiration, and biomass partitioning to various organs (leaf, stem, and root) of rice and wheat cultivars in control and water-deficit conditions. Values in table represent mean±SE and analysis of variance result with least significant difference (LSD) for each trait.

Species	Cultivar	Treatment	TLA	TN	TB	CWT	LWR	SWR	RWR
Rice	IR64	Control	1282±178	19.67±4.48	10.50±1.98	3.49±0.60	0.495±0.008	0.408±0.015	0.097±0.010
	IR64	Water-deficit	855±149	18.67±1.45	8.36±1.06	2.15±0.35	0.416±0.012	0.505±0.010	0.079±0.002
	N22	Control	2544±347	21.00±2.52	23.78±2.83	6.35±0.92	0.431±0.027	0.473±0.023	0.096±0.012
	N22	Water-deficit	1120±238	16.67±1.86	10.94±1.90	2.89±0.39	0.423±0.027	0.465±0.011	0.111±0.016
	APO	Control	1451±106	14.33±1.86	13.24±2.00	4.02±0.55	0.502±0.016	0.401±0.009	0.098±0.008
	APO	Water-deficit	1007±188	13.33±1.20	10.02±1.44	2.65±0.47	0.481±0.017	0.433±0.012	0.085±0.007
Wheat	SeriM82	Control	2005±254	34.67±2.19	18.45±1.41	6.94±0.36	0.488±0.048	0.364±0.033	0.147±0.016
	SeriM82	Water-deficit	1077±68	23.67±2.33	12.50±0.01	3.32±0.10	0.475±0.016	0.365±0.013	0.160±0.004
	Weebill4	Control	2261±26	29.67±1.20	19.55±0.84	7.55±0.55	0.543±0.016	0.313±0.006	0.143±0.010
	Weebill4	Water-deficit	1085±121	18.33±2.40	12.03±1.04	3.30±0.26	0.499±0.008	0.347±0.006	0.155±0.014
<b>LSD (<math>P &lt; 0.05</math>)</b>									
Rice	<b>Cultivar (C)</b>		297.0 <sup>***</sup>	4.417 <sup>*</sup>	2.721 <sup>***</sup>	0.838 <sup>**</sup>	0.031 <sup>**</sup>	0.028 <sup>**</sup>	0.018 <sup>ns</sup>
	<b>Treatment (T)</b>		242.5 <sup>***</sup>	3.606 <sup>ns</sup>	2.222 <sup>***</sup>	0.684 <sup>***</sup>	0.026 <sup>*</sup>	0.023 <sup>**</sup>	0.015 <sup>ns</sup>
	<b>C×T</b>		420.0 <sup>**</sup>	6.246 <sup>ns</sup>	3.849 <sup>**</sup>	1.185 <sup>*</sup>	0.045 <sup>ns</sup>	0.040 <sup>**</sup>	0.026 <sup>ns</sup>
Wheat	<b>Cultivar (C)</b>		380.1 <sup>ns</sup>	5.840 <sup>ns</sup>	1.681 <sup>ns</sup>	0.690 <sup>ns</sup>	0.067 <sup>ns</sup>	0.047 <sup>ns</sup>	0.026 <sup>ns</sup>
	<b>Treatment (T)</b>		380.1 <sup>**</sup>	5.840 <sup>**</sup>	1.681 <sup>***</sup>	0.690 <sup>***</sup>	0.067 <sup>ns</sup>	0.047 <sup>ns</sup>	0.026 <sup>ns</sup>
	<b>C×T</b>		537.5 <sup>ns</sup>	8.260 <sup>ns</sup>	2.377 <sup>ns</sup>	0.976 <sup>ns</sup>	0.095 <sup>ns</sup>	0.067 <sup>ns</sup>	0.036 <sup>ns</sup>

TLA=total leaf area (cm<sup>2</sup> plant<sup>-1</sup>), TN=tiller number per plant, TB=total biomass (g plant<sup>-1</sup>), CWT=cumulative water transpiration (kg plant<sup>-1</sup>),  $\Delta^{13}\text{C}$ =carbon isotope discrimination, LWR=leaf weight ratio [g (leaf) g<sup>-1</sup> (plant)], SWR=stem weight ratio [g (stem) g<sup>-1</sup> (plant)], RWR=root weight ratio [g (root) g<sup>-1</sup> (plant)]. **Significance level:** \* $P < 0.05$ , \*\* $P < 0.01$ , \*\*\* $P < 0.001$ , ns=non-significant, SE=standard error.