



**Table S1.** Photosynthetic attributes of the wheat plant grown under different stress conditions (Flowering Stage (FS) / Flag Leaf).

<b>Florescence</b>		<b>F<sub>v</sub>/F<sub>m</sub></b>
<b>(Treatment Date)</b>	<b>(4/15/2021)</b>	<b>(4/22/2021)</b>
Control	0.794 ± 0.01	0.823 ± 0.04
Waterlogging	0.785 ± 0.08	0.790 ± 0.05
Salt Stress	0.814 ± 0.03	0.809 ± 0.08
Combine Stress (WL + SS)	0.789 ± 0.04	0.794 ± 0.09
<b>Photo</b>	<b>Photosynthetic rate (μmol CO<sub>2</sub> m<sup>-2</sup> s<sup>-1</sup>)</b>	
Control	14.583 ± 1.3	15.659 ± 1.1
Waterlogging	15.386 ± 1.1	16.522 ± 2.01
Salt Stress	16.340 ± 1.2	17.546 ± 1.3
Combined Stress (WL + SS)	14.666 ± 1.3	15.748 ± 1.2
<b>Cond</b>	<b>Stomatal Conductance to H<sub>2</sub>O (mol H<sub>2</sub>O m<sup>-2</sup> s<sup>-1</sup>)</b>	
Control	0.203 ± 0.01	0.232 ± 0.02
Waterlogging	0.186 ± 0.01	0.212 ± 0.01
Salt Stress	0.180 ± 0.01	0.206 ± 0.01
Combined Stress (WL + SS)	0.162 ± 0.02	0.185 ± 0.02
<b>Ci</b>	<b>Intercellular CO<sub>2</sub> concentration (μmol CO<sub>2</sub> mol<sup>-1</sup>)</b>	
Control	262.726 ± 5.9	272.731 ± 4.5
Waterlogging	252.440 ± 2.9	262.053 ± 3.2
Salt Stress	237.549 ± 3.7	246.595 ± 3.4
Combined Stress (WL + SS)	238.138 ± 4.3	247.206 ± 6.2
<b>Trmmol</b>	<b>Transpiration rate (mmol H<sub>2</sub>O m<sup>-2</sup> s<sup>-1</sup>)</b>	
Control	3.554 ± 0.1	3.588 ± 0.1
Waterlogging	3.303 ± 0.2	3.334 ± 0.2
Salt Stress	3.232 ± 0.2	3.263 ± 0.1
Combined Stress (WL + SS)	2.900 ± 0.1	2.927 ± 0.3
<b>WUE</b>	<b>Water Use Efficiency (μmol CO<sub>2</sub> m<sup>-2</sup> s<sup>-1</sup> / mmol H<sub>2</sub>O m<sup>-2</sup> s<sup>-1</sup>)</b>	
Control	4.103 ± 0.1	4.364 ± 0.1
Waterlogging	4.658 ± 0.1	4.955 ± 0.2
Salt Stress	5.055 ± 0.2	5.377 ± 0.3
Combined Stress (WL + SS)	5.057 ± 0.3	5.380 ± 0.2

Reported values are the mean of triplicates and standard deviation where n=3.

**Table S2.** Properties of the soil used in the study.

Soil Texture	Sandy Clay-Loam
Sand (%)	55.9
Silt (%)	19.9
Clay (%)	24.2
CaCO <sub>3</sub> (%)	7.21
pH	7.75
EC (dS m <sup>-1</sup> )	1.57
Organic matter (%)	0.31
Total N (%)	0.021
K <sub>2</sub> O (kg da <sup>-1</sup> )	70.70
P <sub>2</sub> O <sub>5</sub> (kg da <sup>-1</sup> )	3.85
Ca (mg kg <sup>-1</sup> )	21.88