

Supplementary Table S2 One-way ANOVA test results of stomatal conductance (*Cond*, mol m⁻²s⁻¹) of upper layer, middle layer, and lower layer in different water stress. The data was presented in the form of mean ± standard error, significant differences were indicated by different letters in the same column.

Time	Water stress	Upper layer	Middle layer	Lower layer
Day 1	Normal water supply	0.091243±0.015905a	0.103151±0.012838a	0.157629±0.029078a
	Mild stress	0.054466±0.018994b	0.115063±0.041438a	0.083163±0.041762b
	Moderate stress	0.059409±0.016852b	0.024709±0.021937b	0.031548±0.025842c
	Heavy stress	0.043931±0.025603c	0.020043±0.008745b	0.019761±0.00735c
Day 7	Normal water supply	0.337291±0.119235a	1.182438±0.442297a	1.870629±0.741505a
	Mild stress	0.055048±0.024271b	0.116484±0.082207b	0.415122±0.282832b
	Moderate stress	0.022773±0.011785c	0.050189±0.013546b	0.05385±0.017606b
	Heavy stress	0.016931±0.007414c	0.014498±0.00925b	0.025363±0.012658b
Day 13	Normal water supply	0.140831±0.014538a	0.139955±0.147503a	0.135156±0.044653a
	Mild stress	0.058494±0.007914b	0.192291±0.169282a	0.112125±0.024021b
	Moderate stress	0.037114±0.005307b	0.067163±0.033621a	0.084667±0.015458b
	Heavy stress	0.014107±0.000541c	0.010035±0.001697a	0.022495±0.0050018c
Day 20	Normal water supply	0.081026±0.019756a	0.140112±0.039611a	0.149919±0.057961a
	Mild stress	0.109548±0.039121a	0.129163±0.015545a	0.088699±0.025538b
	Moderate stress	0.0383±0.005794b	0.075379±0.023403b	0.053862±0.029438bc
	Heavy stress	0.02515±0.004366b	0.013612±0.007205c	0.011954±0.004912c
Day 28	Normal water supply	0.169136±0.06598a	0.250859±0.089734a	0.280794±0.058177a
	Mild stress	0.107305±0.070638ab	0.134934±0.052496a	0.180234±0.058417ab
	Moderate stress	0.073295±0.015419b	0.172429±0.072722a	0.172429±0.072722b
	Heavy stress	0.060159±0.03053b	0.149454±0.095921a	0.125149±0.047633b
Day 33	Normal water supply	0.079528±0.026081a	0.215134±0.084832a	0.124294±0.056161a
	Mild stress	0.090643±0.024325a	0.206865±0.100605a	0.167578±0.039478a
	Moderate stress	0.071303±0.010222a	0.140852±0.082101a	0.116355±0.047717a
	Heavy stress	0.066886±0.016697a	0.105376±0.07083a	0.09038±0.083885a