

Table S1. The min-max temperature and humidity registered throughout the weeks in the experimental greenhouse.

Week	0	1	2	3	4	5	6	7	8	9
Temperature (°C)										
Min	17.4	17.6	17.4	17.4	17.7	17.4	17.6	17.5	17.5	17.6
Max	26.7	25.1	25.0	24.9	26.4	25.0	24.9	25.1	25.1	26.3
Humidity (%)										
Min	19	22	22	22	25	22	19	20	20	26
Max	53	63	56	55	62	61	49	54	54	67
Week	10	11	12	13	14	15	16	17	18	19
Temperature (°C)										
Min	17.0	17.2	16.8	15.9	18.5	18.7	17.6	17.0	16.2	18.0
Max	24.4	24.3	26.4	29.7	28.1	30.2	24.6	28.0	25.4	25.9
Humidity (%)										
Min	44	51	27	39	59	62	49	58	60	72
Max	85	79	88	94	98	99	96	93	95	96

Table S2: Leaf thickness measurements during the DS1, DS3, and LTM periods (see excel file)

Table S3. Morphological traits measures of Control (non-drought-primed) and Multiple-DS (drought-primed) plants the following year (n+1) before and after one cycle of drought stress

Trait	Before drought cycle		After Drought cycle	
	Control	Multiple-DS	Control	Multiple DS
Height (cm)	135.2 ± 3.61 a	108.5 ± 3.75 b	128.3 ± 3.92 a	106.9 ± 3.52 b
Nodes	61.45 ± 1.47 a	57.18 ± 1.54 a	-	-
G/D nodes	1.38 ± 0.20 a	1.99 ± 0.35 a	-	-
Diameter (mm)	5.78 ± 0.19 a	5.50 ± 0.19 a	5.53 ± 0.22 a	5.89 ± 0.11 a

G/D nodes: Ratio of growing to dead nodes. Statistical analysis was performed as described in Table 1. (–) indicates no change in the number of nodes observed

Table S4. Common DMRs found between LTM and DS3 treatments in leaves.

Context	Closest gene	Annotation	Differential methylation (%)		Start DMR	End DMR
			LTM	DS3		
CG	MD07G1006700	Leucine-rich repeat (LRR) family protein	25.9	25.6	640101	641100
	MD03G1018800	unknown	25.6	28.0	1465101	1466100
	MD03G1018800	unknown	25.8	29.7	1465201	1466200
	MD03G1018800	unknown	26.0	25.3	1465301	1466300
	MD17G1115700	3'-5'-exoribonuclease family protein	26.0	26.7	9889201	9890200
	MD17G1130800	Leucine-rich repeat (LRR) family protein	-27.3	-29.4	11524801	11525800
	MD14G1096800	P-loop containing nucleoside triphosphate hydrolases superfamily protein	29.1	-26.3	14694301	14695300
	MD09G1177100	ATP binding cassette subfamily B19	27.5	29.5	15177801	15178800
	MD09G1177100	ATP binding cassette subfamily B19	28.2	33.7	15177901	15178900
	MD09G1177100	ATP binding cassette subfamily B19	28.6	32.6	15178001	15179000
	MD09G1254500	plastidic GLC translocator	-25.1	29.9	32605501	32606500
	MD06G1202600	gamma subunit of Mt ATP synthase	-29.8	-44.0	33579201	33580200
	MD06G1202600	gamma subunit of Mt ATP synthase	-26.7	-32.2	33579301	33580300
CHG	MD10G1008400	Tetratricopeptide repeat (TPR)-like superfamily protein	-27.8	-26.3	1227001	1228000
	MD17G1024500	Tetratricopeptide repeat (TPR)-like superfamily protein	-26.3	-25.9	1792101	1793100
	MD17G1098900	aspartic proteinase A1	-25.0	-32.1	8399501	8400500