

## Supplementary Materials

**Table S1.** Labels for the materials in this experiment.

Cultivar	Drought stress time	Label
'Huaxin'	15d	HX-15d-CK1 to HX-15d CK3
		HX-15d-DS1 to HX-15d DS3
	30d	HX-30d-CK1 to HX-30d CK3
		HX-30d-DS1 to HX-30d DS3
	45d	HX-45d-CK1 to HX-45d CK3
		HX-45d-DS1 to HX-45d DS3

**Table S2.** The effect of drought stress on the Relative Water content of *C. oleifera* petals.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
15d CK	3	0.8574	0.0115	0.0066	0.8289	0.8858	0.8459	0.8688
15d DS	3	0.8373	0.0045	0.0026	0.8260	0.8485	0.8321	0.8406
30d CK	3	0.8568	0.0048	0.0028	0.8448	0.8688	0.8534	0.8623
30d DS	3	0.8270	0.0035	0.0020	0.8184	0.8356	0.8236	0.8305
45d CK	3	0.8652	0.0054	0.0031	0.8518	0.8786	0.8598	0.8706
45d DS	3	0.7977	0.0052	0.0030	0.7848	0.8106	0.7932	0.8034
Total	18	0.8402	0.0243	0.0057	0.8281	0.8523	0.7932	0.8706

**Table S3.** The effect of drought stress on the significant difference in Relative Water content among groups of *C. oleifera* petals.

		N	Subset for alpha = 0.05		
			1	2	3
Duncan <sup>a</sup>	<u>45d DS</u>	3	0.7977		
	30d DS	3		0.8270	
	15d DS	3		0.8373	
	30d CK	3			0.8568
	15d CK	3			0.8574
	45d CK	3			0.8652
	Sig.		1.000	0.07200	0.1480
Means for groups in homogeneous subsets are displayed.					
a. Uses Harmonic Mean Sample Size = 3.000.					

**Table S4.** The effect of drought stress on the Relative conductivity of *C. oleifera* petals.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
15d CK	3	0.2217	0.0074	0.0043	0.2033	0.2400	0.2135	0.2279
15d DS	3	0.2375	0.0012	0.0007	0.2345	0.2405	0.2364	0.2388
30d CK	3	0.2206	0.0049	0.0028	0.2085	0.2327	0.2154	0.2251
30d DS	3	0.2431	0.0034	0.0020	0.2346	0.2517	0.2394	0.2462
45d CK	3	0.2241	0.0043	0.0025	0.2135	0.2346	0.2197	0.2282
45d DS	3	0.2536	0.0033	0.0019	0.2455	0.2618	0.2503	0.2569
Total	18	0.2334	0.0132	0.0031	0.2269	0.2400	0.2135	0.2569

**Table S5.** The effect of drought stress on the significant difference in Relative conductivity among groups of *C. oleifera* petals.

		N	Subset for alpha = 0.05		
			1	2	3
Duncan <sup>a</sup>	30d CK	3	0.2206		
	15d CK	3	0.2217		
	45d CK	3	0.2241		
	15d DS	3		0.2376	
	30d DS	3		0.2431	
	45d DS	3			0.2536
	Sig.		0.3860	0.1520	1.000
Means for groups in homogeneous subsets are displayed.					
a. Uses Harmonic Mean Sample Size = 3,000.					

**Table S6.** The effect of drought stress on the MDA content of *C. oleifera* petals.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
HX15d CK	3	72.7400	4.2260	2.4399	62.2420	83.2380	69.2800	77.4500
HX30d DS	3	100.4367	4.9484	2.8570	88.1441	112.7292	97.1700	106.1300
HX45d CK	3	113.8800	9.9792	5.7615	89.0903	138.6697	102.3800	120.2600
HX15d DS	3	83.9233	1.2378	0.7147	80.8484	86.9983	82.5200	84.8600
HX30d DS	3	113.2700	4.8934	2.8252	101.1142	125.4258	110.3900	118.9200
HX45d DS	3	126.6967	7.0425	4.0660	109.2021	144.1912	119.1600	133.1100
Total	18	101.8244	19.7391	4.6526	92.0084	111.6405	69.2800	133.1100

			Subset for alpha = 0.05				
N			1	2	3	4	5
Duncan <sup>a</sup>	HX15d CK	3	72.7400				
	HX15d DS	3		83.9233			
	HX30d DS	3			100.4367		
	HX30d DS	3				113.2700	
	HX45d CK	3				113.8800	
	HX45d DS	3					126.6967
	Sig.		1.000	1.000	1.000	0.9030	1.000

Means for groups in homogeneous subsets are displayed.  
a. Uses Harmonic Mean Sample Size = 3,000.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
15d CK	3	899.0000	16.8226	9.7125	857.2103	940.7897	886.0000	918.0000
30d CK	3	1003.3333	21.5019	12.4142	949.9196	1056.7471	982.0000	1025.0000
45d CK	3	1086.6667	13.6137	7.8599	1052.8483	1120.4850	1076.0000	1102.0000
15d DS	3	956.3333	24.5832	14.1931	895.2653	1017.4014	937.0000	984.0000
30d DS	3	995.0000	35.3836	20.4287	907.1022	1082.8978	963.0000	1033.0000
45d DS	3	1052.0000	9.6437	5.5678	1028.0438	1075.9562	1045.0000	1063.0000
Total	18	998.7222	65.4431	15.4251	966.1781	1031.2663	886.0000	1102.0000

		N	Subset for alpha = 0.05			
			1	2	3	4
Duncan <sup>a</sup>	15d CK	3	899.0000			
	15d DS	3		956.3333		
	30d DS	3		995.0000	995.0000	
	30d CK	3			1003.3333	
	45d DS	3				1052.0000
	45d CK	3				1086.6667
	Sig.		1.000	0.0520	0.6500	0.0770
Means for groups in homogeneous subsets are displayed.						
a. Uses Harmonic Mean Sample Size = 3,000.						

**Table S10.** The effect of drought stress on the POD activity in *C. oleifera* pistils and stamens.

Descriptives								
95% Confidence Interval for								
	N	Mean	Std. Deviation	Std. Error	Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
15d CK	3	22,362.0000	496.0484	286.3937	21,129.7475	23,594.2525	21,842.0000	22,830.0000
30d CK	3	25,599.0000	1037.7895	599.1680	23,020.9880	28,177.0120	24,452.0000	26,473.0000
45d CK	3	30,337.6667	1509.9418	871.7653	26,586.7632	34,088.5701	29,352.0000	32,076.0000
15d DS	3	24,930.3333	97.6797	56.3954	24,687.6834	25,172.9833	24,821.0000	25,009.0000
30d DS	3	30,405.6667	565.2401	326.3415	29,001.5325	31,809.8008	29,890.0000	31,010.0000
45d DS	3	35,575.0000	2013.6581	1162.5861	30,572.7959	40,577.2041	33,250.0000	36,762.0000
Total	18	28,201.6111	4614.9615	1087.7569	25,906.6448	30,496.5775	21,842.0000	36,762.0000

**Table S11.** The effect of drought stress on the significant difference in POD activity among groups of *C. oleifera* pistils and stamens.

		N	Subset for alpha = 0.05			
			1	2	3	4
Duncan <sup>a</sup>	15d CK	3	22,362.0000			
	15d DS	3		24,930.3333		
	30d CK	3		25,599.0000		
	45d CK	3			30,337.6667	
	30d DS	3			30,405.6667	
	45d DS	3				35,575.0000
	Sig.		1.000	0.4910	0.9440	1.000
Means for groups in homogeneous subsets are displayed.						
a. Uses Harmonic Mean Sample Size = 3.000.						

**Table S12.** The effect of drought stress on the SOD activity in *C. oleifera* pistils and stamens.

	N	Mean	Std. Deviation	Std. Error	Descriptives			
					95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
HX45d DS	3	230.0000	10.59575	6.11746	203.6787	256.3213	217.8000	236.9000
00HX30d DS	3	165.4333	6.25247	3.60986	149.9013	180.9653	159.7000	172.1000
HX15d DS	3	145.7000	9.32577	5.38424	122.5335	168.8665	136.8000	155.4000
HX45d CK	3	182.8000	5.16430	2.98161	169.9712	195.6288	178.7000	188.6000
HX30d CK	3	152.6333	5.27857	3.04759	139.5206	165.7460	146.6000	156.4000
HX15d CK	2	119.3500	3.46482	2.45000	88.2198	150.4802	116.9000	121.8000
Total	17	168.7294	35.11721	8.51717	150.6738	186.7850	116.9000	236.9000

		N	Subset for alpha = 0.05				
			1	2	3	4	5
Duncan <sup>a,b</sup>	HX15d CK	2	119.3500				
	HX15d DS	3		145.7000			
	HX30d CK	3		152.6333	152.6333		
	HX30d DS	3			165.4333		
	HX45d CK	3				182.8000	
	HX45d DS	3					230.0000
Sig.			1.000	0.2920	0.0660	1.000	1.000
Means for groups in homogeneous subsets are displayed.							
a. Uses Harmonic Mean Sample Size = 2.769.							

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					15d CK	3		
30d CK	3	23.9067	0.49642	0.28661	22.6735	25.1398	23.3900	24.3800
45d CK	3	29.5667	0.65225	0.37658	27.9464	31.1870	29.0900	30.3100
15d DS	3	24.0633	0.28361	0.16374	23.3588	24.7679	23.8800	24.3900
30d DS	3	28.6100	0.98879	0.57088	26.1537	31.0663	27.5400	29.4900
45d DS	3	32.2000	0.85610	0.49427	30.0733	34.3267	31.5500	33.1700
Total	18	26.3828	4.27842	1.00843	24.2552	28.5104	19.4700	33.1700

		N	Subset for alpha = 0.05			
			1	2	3	4
Duncan <sup>a</sup>	15d CK	3	19.9500			
	30d CK	3		23.9067		
	15d DS	3		24.0633		
	30d DS	3			28.6100	
	45d CK	3			29.5667	
	45d DS	3				32.2000
	Sig.		1.000	0.7850	0.1150	1.000

Means for groups in homogeneous subsets are displayed.  
a. Uses Harmonic Mean Sample Size = 3,000.

**Table S16.** The effect of drought stress on the SP content in *C. oleifera* pistils and stamens.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
15d CK	3	2.2283	0.02532	0.01462	2.1654	2.2912	2.2000	2.2500
30d CK	3	3.2517	0.14550	0.08400	2.8902	3.6131	3.1200	3.4100
45d CK	3	4.1247	0.06734	0.03888	3.9574	4.2919	4.0500	4.1800
15d DS	3	3.2477	0.20115	0.11614	2.7480	3.7474	3.0800	3.4700
30d DS	3	4.3887	0.22715	0.13114	3.8244	4.9529	4.2200	4.6500
45d DS	3	4.9533	0.15153	0.08749	4.5769	5.3298	4.8600	5.1300
Total	18	3.6991	0.92905	0.21898	3.2370	4.1611	2.2000	5.1300

**Table S17.** The effect of drought stress on the significant difference in SP content among groups of *C. oleifera* pistils and stamens.

		N	Subset for alpha = 0.05			
			1	2	3	4
Duncan <sup>a</sup>	15d CK	3	2.2283			
	15d DS	3		3.2477		
	30d CK	3		3.2517		
	45d CK	3			4.1247	
	30d DS	3			4.3887	
	45d DS	3				4.9533
	Sig.		1.000	0.9750	0.0570	1.000
Means for groups in homogeneous subsets are displayed.						
a. Uses Harmonic Mean Sample Size = 3.000.						

**Table S18.** The effect of drought stress on the Pro content in *C. oleifera* pistils and stamens.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
15d CK	3	56.4333	1.7411	1.0052	52.1082	60.7585	54.4500	57.7100
30d CK	3	69.7667	2.5007	1.4438	63.5545	75.9788	67.1200	72.0900
45d CK	3	89.3067	2.1200	1.2240	84.0403	94.5731	87.1900	91.4300
15d DS	3	70.1967	0.7586	0.4380	68.3123	72.0811	69.3300	70.7400
30d DS	3	88.2500	4.0146	2.3178	78.2773	98.2227	83.6700	91.1600
45d DS	3	97.1033	4.7045	2.7161	85.4168	108.7899	92.7000	102.0600
Total	18	78.5094	14.7039	3.4657	71.1974	85.8215	54.4500	102.0600

		N	Subset for alpha = 0.05			
			1	2	3	4
Duncan <sup>a</sup>	15d CK	3	56.4333			
	30d CK	3		69.7667		
	15d DS	3		70.1967		
	30d DS	3			88.2500	
	45d CK	3			89.3067	
	45d DS	3				97.1033
	Sig.		1.000	0.8620	0.6700	1.000

Means for groups in homogeneous subsets are displayed.  
a. Uses Harmonic Mean Sample Size = 3.000.

**Table S20.** The effect of drought stress on the ABA content in *C. oleifera* pistils and stamens.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
15d CK	3	131.9600	3.5514	2.0504	123.1378	140.7822	129.8400	136.0600
15d DS	3	388.2700	4.4878	2.5910	377.1217	399.4183	383.3600	392.1600
30d CK	3	68.3900	0.8489	0.4901	66.2811	70.4989	67.4100	68.9000
30d DS	3	474.8233	9.0475	5.2236	452.3481	497.2985	467.7900	485.0300
45d CK	3	51.6533	1.1927	0.6886	48.6906	54.6161	50.7700	53.0100
45d DS	3	211.4833	2.7328	1.5778	204.6948	218.2719	208.3800	213.5300
Total	18	221.0967	164.0347	38.6633	139.5242	302.6692	50.7700	485.0300

			Subset for alpha = 0.05					
N			1	2	3	4	5	6
Duncan <sup>a</sup>	45d CK	3	51.6533					
	30d CK	3		68.3900				
	15d CK	3			131.9600			
	45d DS	3				211.4833		
	15d DS	3					388.2700	
	30d DS	3						474.8233
	Sig.		1.000	1.000	1.000	1.000	1.000	1.000
Means for groups in homogeneous subsets are displayed.								
a. Uses Harmonic Mean Sample Size = 3,000.								

**Table S22.** The effect of drought stress on the GA<sub>3</sub> content in *C. oleifera* pistils and stamens.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
15d CK	3	0.1160	0.01709	0.0099	0.0736	0.1584	0.1000	0.1300
15d DS	3	0.3433	0.02369	0.0137	0.2845	0.4022	0.3200	0.3600
30d CK	3	0.1653	0.00751	0.0043	0.1467	0.1840	0.1600	0.1700
30d DS	3	0.5203	0.03017	0.0174	0.4454	0.5953	0.5000	0.5600
45d CK	3	0.1297	0.01721	0.0099	0.0869	0.1724	0.1100	0.1400
45d DS	3	0.4383	0.03623	0.0209	0.3483	0.5283	0.4000	0.4700
Total	18	0.2855	0.16356	0.0386	0.2042	0.3668	0.1000	0.5600

**Table S23.** The effect of drought stress on the significant difference in GA<sub>3</sub> content among groups of *C. oleifera* pistils and stamens.

		N	Subset for alpha = 0.05				
			1	2	3	4	5
Duncan <sup>a</sup>	15d CK	3	0.1160				
	45d CK	3	0.1297	0.1297			
	30d CK	3		0.1653			
	15d DS	3			0.3433		
	45d DS	3				0.4383	
	30d DS	3					0.5203
	Sig.		0.4970	0.0930	1.000	1.000	1.000
Means for groups in homogeneous subsets are displayed.							
a. Uses Harmonic Mean Sample Size = 3.000.							

**Table S24.** The effect of drought stress on the IAA content in *C. oleifera* pistils and stamens.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for		Minimum	Maximum
					Mean			
					Lower Bound	Upper Bound		
15d CK	3	0.9510	0.1431	0.0826	0.5954	1.3066	0.8220	1.1050
15d DS	3	1.0913	0.0356	0.0205	1.0030	1.1797	1.0570	1.1280
30d CK	3	1.1677	0.1697	0.0980	0.7461	1.5892	1.0030	1.3420
30d DS	3	1.9737	0.1123	0.0648	1.6948	2.2526	1.8460	2.0570
45d CK	3	1.4533	0.0936	0.0540	1.2209	1.6858	1.3810	1.5590
45d DS	3	2.5373	0.2944	0.1700	1.8060	3.2687	2.2610	2.8470
Total	18	1.5291	0.5914	0.1394	1.2349	1.8232	0.8220	2.8470



		N	Subset for alpha = 0.05			
			1	2	3	4
Duncan <sup>a</sup>	15d CK	3	0.9510			
	15d DS	3	1.0913			
	30d CK	3	1.1677	1.1677		
	45d CK	3		1.4533		
	30d DS	3			1.9737	
	45d DS	3				2.5373
	Sig.		0.1460	0.0520	1.000	1.000

Means for groups in homogeneous subsets are displayed.  
a. Uses Harmonic Mean Sample Size = 3.000.

Descriptives								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
15d CK	3	2.1317	0.2110	0.1218	1.6076	2.6557	1.9000	2.3000
15d DS	3	2.0750	0.0880	0.0508	1.8564	2.2936	1.9800	2.1600
30d CK	3	2.9417	0.1623	0.0937	2.5385	3.3448	2.7700	3.0900
30d DS	3	2.0673	0.0860	0.0497	1.8536	2.2810	2.0100	2.1700
45d CK	3	1.4897	0.1032	0.0596	1.2334	1.7459	1.3900	1.6000
45d DS	3	5.4937	0.2865	0.1654	4.7819	6.2055	5.1700	5.6900
Total	18	2.6998	1.3652	0.3218	2.0209	3.3787	1.3900	5.6900

		N	Subset for alpha = 0.05			
			1	2	3	4
Duncan <sup>a</sup>	45d CK	3	1.4897			
	30d DS	3		2.0673		
	15d DS	3		2.0750		
	15d CK	3		2.1317		
	30d CK	3			2.9417	
	45d DS	3				5.4937
	Sig.		1.000	0.6720	1.000	1.000
Means for groups in homogeneous subsets are displayed.						
a. Uses Harmonic Mean Sample Size = 3,000.						

**Table S28.** The effect of drought stress on the SA content in *C. oleifera* pistils and stamens.

Descriptives								
N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for				
				Mean		Minimum	Maximum	
				Lower Bound	Upper Bound			
15d CK	3	1490.7333	21.01650	12.13388	1438.5254	1542.9412	1478.40	1515.00
15d DS	3	1844.1667	15.20077	8.77617	1806.4059	1881.9275	1826.70	1854.40
30d CK	3	1379.6333	15.05468	8.69182	1342.2354	1417.0312	1364.80	1394.90
30d DS	3	1449.2667	5.57524	3.21887	1435.4170	1463.1163	1445.10	1455.60
45d CK	3	609.4333	7.78224	4.49308	590.1012	628.7655	602.80	618.00
45d DS	3	643.9000	7.12671	4.11461	626.1963	661.6037	635.70	648.60
Total	18	1236.1889	468.67740	110.46832	1003.1211	1469.2567	602.80	1854.40

**Table S29.** The effect of drought stress on the significant difference in SA content among groups of *C. oleifera* pistils and stamens.

		N	Subset for alpha = 0.05					
			1	2	3	4	5	6
Duncan <sup>a</sup>	45d CK	3	609.4333					
	45d DS	3		643.9000				
	30d CK	3			1379.6333			
	30d DS	3				1449.2667		
	15d CK	3					1490.7333	
	15d DS	3						1844.1667
	Sig.		1.000	1.000	1.000	1.000	1.000	1.000
Means for groups in homogeneous subsets are displayed.								
a. Uses Harmonic Mean Sample Size = 3.000.								

**Table S30.** The effect of drought stress on the JA content in *C. oleifera* pistils and stamens.

Descriptives								
N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for				
				Mean		Minimum	Maximum	
				Lower Bound	Upper Bound			
15d CK	3	15.1240	0.4868	0.2811	13.9146	16.3334	14.6670	15.6360
15d DS	3	17.3020	0.5689	0.3284	15.8888	18.7152	16.7030	17.8350
30d CK	3	7.2870	0.2578	0.1489	6.6465	7.9275	7.0100	7.5200
30d DS	3	4.1243	0.1065	0.0615	3.8599	4.3888	4.0020	4.1960
45d CK	3	2.4610	0.0265	0.0153	2.3951	2.5269	2.4340	2.4870
45d DS	3	0.6290	0.1004	0.0579	0.3797	0.8783	0.5150	0.7040
Total	18	7.8212	6.4816	1.5277	4.5980	11.0444	0.5150	17.8350

**Table S31.** The effect of drought stress on the significant difference in JA content among groups of *C. oleifera* pistils and stamens.

		N	Subset for alpha = 0.05					
			1	2	3	4	5	6
Duncan <sup>a</sup>	45d DS	3	0.6290					
	45d CK	3		2.4610				
	30d DS	3			4.1243			
	30d CK	3				7.2870		
	15d CK	3					15.1240	
	15d DS	3						17.3020
	Sig.		1.000	1.000	1.000	1.000	1.000	1.000
Means for groups in homogeneous subsets are displayed.								
a. Uses Harmonic Mean Sample Size = 3,000.								