

Supplementary Table S1. Phenotyping traits in Arabidopsis seedlings from primed seeds with Put, Orn or DAP at two concentrations (1 or 0.1 mM) under different growth conditions. Area under the growth curve (AUC), early seedling establishment (ESE), the slope of the growth curve (Slope), relative growth ratio (RGR), final growth (FG), and color index (GLI).

Trait	Priming	Optimal		Osmotic stress		Salt stress	
		Mean ± s.e.	n	Mean ± s.e.	n	Mean ± s.e.	n
AUC	Non	4800.7 ± 204.81	48	2213.3 ± 150.4	48	2013.4 ± 73.66	48
	DAP 0.1	5059.1 ± 200.56	48	2052.7 ± 91.27	48	2147.1 ± 102.54	48
	DAP 1	4920.9 ± 268.08	48	2438.4 ± 162.34	48	3062.7 ± 126.33	48
	Orn 0.1	4550.9 ± 232.6	48	2322.8 ± 127.7	48	2508.6 ± 104.96	48
	Orn 1	3285 ± 164.5	48	1710.1 ± 87.95	48	1708.1 ± 93.9	48
	Put 0.1	4595.6 ± 222.78	48	2184.1 ± 115.08	48	2606.4 ± 111.53	48
	Put 1	4420.9 ± 210.87	48	2264.4 ± 140.09	48	2291.5 ± 86.41	48
ESE	Non	276.57 ± 10.9	46	211.41 ± 11.57	44	203.46 ± 8.31	48
	DAP 0.1	279.35 ± 12.92	46	211.91 ± 9.08	45	237.57 ± 9.59	46
	DAP 1	320.77 ± 14.34	48	231.02 ± 9.81	45	264.15 ± 12.38	47
	Orn 0.1	274.63 ± 11.66	48	213.35 ± 9.27	43	259.02 ± 11.66	46
	Orn 1	189.65 ± 8.7	43	173.98 ± 7.21	40	193.23 ± 9	43
	Put 0.1	282.98 ± 10.2	45	182.3 ± 7.94	46	259.98 ± 11.43	48
	Put 1	267.7 ± 13.65	46	217.96 ± 9.39	45	242.28 ± 8.85	46
Slope (x 10 ⁻³)	Non	17.13 ± 0.42	47	10.26 ± 0.57	47	7.77 ± 0.43	46
	DAP 0.1	17.26 ± 0.37	48	9.29 ± 0.48	47	7.65 ± 0.37	48
	DAP 1	15.42 ± 0.39	47	11.05 ± 0.49	46	10.82 ± 0.44	48
	Orn 0.1	15.31 ± 0.62	48	11.36 ± 0.46	47	7.94 ± 0.36	48
	Orn 1	16.14 ± 0.65	48	10.32 ± 0.5	47	7.81 ± 0.39	46
	Put 0.1	16.01 ± 0.51	47	12.46 ± 0.47	47	8.45 ± 0.45	48
	Put 1	16.64 ± 0.57	47	10.3 ± 0.5	47	7.9 ± 0.35	47
RGR	Non	0.413 ± 0.008	46	0.247 ± 0.014	43	0.214 ± 0.011	46
	DAP 0.1	0.42 ± 0.009	46	0.228 ± 0.011	42	0.2 ± 0.01	45
	DAP 1	0.374 ± 0.011	47	0.273 ± 0.013	42	0.277 ± 0.011	47
	Orn 0.1	0.373 ± 0.016	48	0.284 ± 0.011	43	0.214 ± 0.009	46
	Orn 1	0.409 ± 0.013	43	0.256 ± 0.013	39	0.193 ± 0.011	43
	Put 0.1	0.383 ± 0.015	45	0.306 ± 0.01	46	0.228 ± 0.011	48
	Put 1	0.398 ± 0.013	45	0.254 ± 0.012	45	0.215 ± 0.009	44
FG	Non	3297.3 ± 149.9	48	963.2 ± 67.9	48	706.9 ± 32.5	48
	DAP 0.1	3314.9 ± 150.9	48	822.3 ± 44.8	48	815.7 ± 53.4	48
	DAP 1	3013.9 ± 161.4	48	1122.7 ± 69.4	48	1290 ± 80.2	48
	Orn 0.1	2922 ± 181.5	48	1075.6 ± 62.6	48	863.8 ± 44.2	48
	Orn 1	2215.1 ± 130.3	48	793.8 ± 42.9	48	636.1 ± 39.2	48
	Put 0.1	3002.9 ± 165.9	48	1103.4 ± 56	48	1051.5 ± 66.4	48
	Put 1	2849 ± 156.4	48	996 ± 66.1	48	848.1 ± 49.2	48
GLI (x 10 ⁻²)	Non	12.5 ± 0.18	48	9 ± 0.38	48	6.4 ± 0.33	48
	DAP 0.1	12.8 ± 0.18	48	7.8 ± 0.23	46	7.1 ± 0.26	48
	DAP 1	12.6 ± 0.31	48	9 ± 0.34	47	8.6 ± 0.32	47
	Orn 0.1	11.7 ± 0.41	48	10.1 ± 0.26	47	7.9 ± 0.28	48
	Orn 1	11.5 ± 0.32	47	8.4 ± 0.3	48	6.7 ± 0.31	48
	Put 0.1	12 ± 0.28	48	9.7 ± 0.26	48	8.2 ± 0.28	48
	Put 1	11.7 ± 0.33	48	9 ± 0.28	47	7.9 ± 0.34	48

Supplementary Table S2. Content of free amino acid (pmol mg⁻¹ DW, except AcPut in fmol mg⁻¹ DW) in Arabidopsis seedlings from primed seeds with Put, Orn or DAP at two concentrations 1 or 0.1 mM under different growth conditions. Mean ± s.e. N= 4.

	Priming	Tyra	Leu	Ile	Phe	AcPut	GABA	Trp	BABA	Met	Val	Pro	B-Ala	Tyr	Ala	Thr	AcOrn	AAA	Gly	Asp	Glu	Ser	Asn	Gln	Cit	Arg	His	Orn	Cis
Optimal conditions	Non	0.02±0.01	0.52±0.10	0.47±0.18	0.45±0.07	0.17±0.02	38.51±7.14	0.35±0.11	1.73±0.86	0.34±0.11	29.08±8.02	335.47±46.98	23.73±4.75	3.41±0.56	256.19±25.77	128.01±22.11	1.94±1.06	1.78±0.48	210.23±21.27	1107.06±302.13	3.5±0.96	209.3±36.7	33.91±11.7	541.61±191.42	118.25±16.88	64.89±6.96	4.62±1.56	16.01±1.62	0.48±0.28
	DAP 0.1	0.05±0.02	1.77±0.39	1.00±0.30	2.16±1.70	0.89±0.34	52.75±18.08	2.48±0.94	9.72±5.02	3.89±1.74	29.98±14.47	1796.39±407.75	31.84±8.5	8.45±4.96	244.08±81.63	61.6±8.92	42.03±9.21	1.61±1.06	128.63±29.47	866.18±794.44	23.04±15.86	791.47±298.34	126.24±55.98	2853.51±816.11	79.13±20.51	226.68±75.54	7.28±1.91	13.39±2.38	0.63±0.22
	DAP 1	0.08±0.02	2.1±0.59	1.45±0.21	1.54±0.32	0.85±0.29	103.08±20.55	1.5±0.19	27.5±7.59	6.87±1.53	46.95±9.12	665.64±114.05	28.19±3.36	6.23±1.06	367.69±51.3	196.58±19.06	28.41±5.93	1.54±0.56	231.61±43.92	1141.6±402.79	7.03±1.39	278.31±44.88	51.83±10.85	1241.23±307.31	149.62±26.86	124.34±21.52	13.07±2.7	16.05±2.21	0.06±0.02
	Orn 0.1	0.05±0.01	1.63±0.43	1.08±0.40	1.34±0.27	0.77±0.22	49.25±11.85	1.64±0.26	6.87±2.29	9.75±2.05	52.49±10.24	737.51±134.09	29.42±5.45	6.28±1.27	422.86±86.22	175.75±24.04	21.9±3.51	1.28±0.11	274.04±63.01	1606.29±214.43	1.77±0.2	159.69±42.59	22.82±6.71	1045.09±246.13	101.71±15.04	102.27±17.06	9.83±2.03	10.51±1.76	0.04±0.01
	Orn 1	0.03±0.00	1.51±0.18	1.08±0.09	1.29±0.13	2.23±0.64	58.56±12.27	0.99±0.12	4.58±0.19	2.51±0.18	30.47±1.33	694.96±173.07	28.6±3.41	5.46±0.95	246.97±21.57	89.37±6.56	34.61±7.59	0.71±0.08	157.52±24.39	384.38±69.62	15.35±1.96	586.32±53.59	91.1±12.52	1707.1±370.68	97.9±15.15	147.5±22.73	4.19±1.58	8.92±2.07	0.05±0.02
	Put 0.1	0.06±0.01	1.02±0.40	0.85±0.32	1.12±0.23	0.84±0.31	23.47±7.96	1.08±0.55	7.78±2.13	3.21±0.83	40.35±14.69	600.83±72.76	23.03±4.58	5.1±0.94	286.33±65.94	138.73±30.93	23.51±11.35	0.93±0.3	237.28±32.59	332.07±109.69	2.67±1.07	169.65±49.05	23.53±8.47	1166.7±281.17	97.79±25.65	104.95±24.29	6±1.19	10.71±3.23	0.02±0.00
	Put 1	0.02±0.00	1.36±0.37	1.07±0.30	0.74±0.14	0.17±0.03	12.68±2.31	0.39±0.39	5.74±1.78	1.6±0.61	45.24±11.67	385.68±65.84	6.19±1.26	3.74±0.95	101.75±25.55	152.83±46.91	7.32±1.72	1.07±0.39	87.78±15	513.81±159.4	42.3±8.55	518.03±70.85	153.48±38.85	846.69±171.8	40.7±9.64	96.4±19.5	7.17±1.15	7.44±2.09	0.02±0.01
Osmotic stress	Non	0.02±0.01	1.68±0.59	1.46±0.28	1.9±0.27	0.57±0.25	28.58±7.58	1.56±0.35	4.24±1.2	4.58±1.7	41.87±11.34	492.89±109.53	9.32±3.41	4.59±1.01	136.43±24.76	150.63±26.58	9.06±2.4	0.88±0.22	147.28±18.46	344.46±78.17	147.78±30.2	823.69±291.65	279.96±112.1	937.65±169.26	47.29±10.77	106.12±29.69	4.8±1.06	9.49±1.8	0.28±0.06
	DAP 0.1	0.03±0.01	1.41±0.40	1.17±0.33	0.77±0.19	0.27±0.09	32.83±11.41	1.63±0.96	6.75±1.38	1.1±0.61	36.44±5.55	415.46±108.6	10.55±1.95	4.6±0.54	111.74±22.44	114.07±30.71	5.25±2.17	0.99±0.22	86.73±17.91	50.47±8.63	47.66±8.06	453.33±48.95	138.58±20.19	1294.55±214.18	21.09±2.21	61.58±13.76	5.72±0.79	3.87±0.71	0.32±0.08
	DAP 1	0.04±0.01	1.38±0.32	0.97±0.15	1.12±0.26	0.68±0.10	52.58±9.39	1.59±0.25	3.26±0.44	1.92±0.32	20.25±3.02	683.27±127.72	11.11±1.91	4.71±0.7	127.95±29.51	107.25±25.46	2.69±0.84	0.41±0.08	69.47±19.13	245.47±66.03	38.11±13.91	510.07±93.69	113.45±34.73	1506.48±296.14	19.14±4.15	64.51±9.5	7.47±1.22	3.19±0.73	0.04±0.01
	Orn 0.1	0.06±0.00	1.74±0.13	1.42±0.10	1.53±0.14	0.74±0.05	39.86±13.77	1.83±0.26	5.32±1.03	1.23±0.16	24.26±1.43	94.19±14.76	12.03±1.12	6.21±0.2	153.91±25.9	157.51±25.71	5.21±1.02	0.55±0.1	97.02±19.94	335.65±63.72	34.85±10.55	549.23±129.47	72.01±19.83	2142.54±227.59	27.45±3.3	128.6±27.21	7.09±1.59	6.1±1.13	0.08±0.02
	Orn 1	0.05±0.02	0.66±0.28	0.46±0.17	0.79±0.27	0.19±0.10	7.13±2.41	1.07±0.43	7.76±3.18	0.87±0.36	16.82±3.49	343.42±117.81	3.34±1.14	2.17±0.98	68.83±3.56	59.87±20.41	1.38±0.34	0.66±0.27	51.8±16.51	37.08±9.3	300.73±35.21	1777.41±128.78	184.36±44.51	1411.57±364.67	28.41±10.4	112.63±43.65	2.16±0.37	3.69±1.35	0.03±0.02
	Put 0.1	0.08±0.02	4.92±1.18	2.86±0.19	2.71±0.59	0.07±0.08	115.06±23.69	0.04±0.00	11.3±1.43	4.37±1.7	60.8±4.6	3138.18±497.01	39.69±5.89	15.71±3.08	501.66±50.08	281.59±36.3	15.18±2.15	1.08±0.25	97.91±16.19	500.65±33	22.3±3.89	1864.69±147.17	24.21±4.61	1150.52±247.25	113.2±6.52	140.25±18.84	3.91±1.08	37.75±11.1	0.01±0.00
	Put 1	0.06±0.02	1.07±0.26	0.85±0.20	1.01±0.30	0.57±0.15	27.9±5.48	0.002±0.00	8.72±1.51	0.96±0.31	24.77±4.27	581.74±154.12	7.56±1.65	3.76±0.78	133.91±31.51	135.43±34.52	3.41±0.71	0.47±0.13	121.04±29.52	246.4±68.11	20.6±1.94	138.75±29.32	34.82±7.9	652.26±161.81	18.97±4.43	51.06±13.26	4.5±1.51	4.14±1.27	0.01±0.01
Salt stress	Non	0.04±0.02	2.33±1.16	1.28±0.64	1.53±0.77	1.77±0.89	125.97±62.99	4.3±2.15	3.62±1.81	1.93±0.97	48.25±24.13	1529.89±764.95	23.94±11.97	5.18±2.59	307.14±153.57	158.88±79.44	7.16±3.58	1.57±0.79	164.69±82.34	345.62±172.81	45.76±22.88	1811.59±905.8	79.35±39.68	920.07±460.03	158.12±79.06	123.64±61.82	8.55±4.27	31.18±15.59	0.24±0.12
	DAP 0.1	0.06±0.03	1.98±0.54	1.01±0.32	1.39±0.28	0.14±0.03	44.48±14.25	0.71±0.29	4.26±0.6	1.11±0.35	24.35±2.95	1683.7±331.45	21.38±4.32	4.12±1.73	205.98±42.62	231.2±46.18	137.27±26.28	1.03±0.13	48.49±16.61	128.46±27.65	30.62±7.92	1923.89±586.38	31.19±9.26	759.98±199.61	98.15±26.35	96.65±21.62	3.77±0.76	32.58±6.83	0.14±0.06
	DAP 1	0.03±0.02	1.74±0.43	0.69±0.17	0.99±0.16	0.76±0.45	51.58±14.98	1.05±0.37	4.44±0.77	3.19±1.29	22.56±4.4	1471.65±227.68	22.93±5.96	6.71±1.17	232.15±93.67	209.46±54.6	115.13±15.74	0.88±0.27	38.29±9	159.02±57.27	43.82±12.05	3223.58±837.29	33.72±5.37	394.03±56.35	50.86±10.37	51.92±10.37	5.21±1.05	7.68±2.48	0.03±0.01
	Orn 0.1	0.02±0.00	1.71±0.25	1.01±0.15	1.43±0.15	0.11±0.06	48.85±14.97	0.92±0.16	5.51±1.86	1.77±0.69	68.15±19.38	1834.87±179.32	30.88±4.43	7.46±1.77	530.22±162.79	273.07±65.51	200.31±17.32	2.4±1.01	120.92±41.89	1060.16±560.62	19.62±2.89	1215.33±133.98	46.98±6.7	1215.46±207.37	200.74±21	132.05±166.1	2.29±0.46	23.86±5.79	0.03±0.01
	Orn 1	0.02±0.01	1.58±0.58	1.18±0.49	1.53±0.61	0.04±0.01	10.26±3.27	0.84±0.23	8.12±1.79	2.05±1.07	42.48±12.35	419.19±154.31	21.75±5.21	3.23±1.38	283.99±63.57	258.83±33.5	53.81±9.44	2.76±0.87	168.19±8.33	442.55±128.85	113.49±41.81	420.75±198.37	128.57±54.69	642.81±216.28	129.56±33.02	107.43±38.14	4.43±1.47	35.02±8.39	0.01±0.00
	Put 0.1	0.11±0.03	1.90±0.61	1.70±0.37	1.62±0.43	0.99±0.16	42.49±12.66	0.16±0.15	9.73±3.22	2.06±0.69	36.92±6.57	543.07±140.56	11.12±3.49	4.45±1.01	138.85±27.53	140.81±32.53	3.27±1.3	0.53±0.13	104.33±24.9	436.47±118.38	15.94±6.59	195.95±76.91	113.92±32.22	782.18±186.59	19.89±4.91	80.66±34.69	6.88±1.23	2.6±0.63	0.04±0.02
	Put 1	0.03±0.01	1.60±0.50	0.86±0.33	1.28±0.24	0.46±0.24	30.39±8.59	0.02±0.01	6.05±2.6	0.63±0.22	32.8±4.44	2128.18±160.54	26.77±1.76	5.97±1.98	382.28±143.4	416.91±68.38	132.17±35.25	1.37±0.47	288.09±64.65	1571.26±662.57	61.09±49.69	1090.05±221.02	26.74±3.91	513.69±148.09	165.41±27.74	89.43±28.71	1.61±0.74	104.72±16.66	0.02±0.00

Supplementary Table S3. Content of total and free polyamines (pmol mg⁻¹ DW) in Arabidopsis seedlings from primed seeds with Put, Orn or DAP at two concentrations 1 or 0.1 mM under different growth conditions.

Mean ± s.e. N= 4

		Total polyamines (conjugated +free)									
		Hist	Put	DAP	Cad	NorSpd	Spd	HomoSpd	ThSpm	Spm	Agm
Optimal conditions	Non	<LOD	1483.92 ± 622.92	47.46 ± 21.07	2.09 ± 0.77	82.66 ± 15.3	3947.72 ± 890.64	66.64 ± 31.02	11.56 ± 3.96	576.62 ± 43.46	784.72 ± 300.69
	DAP 0.1	<LOD	2946.58 ± 646.06	130.97 ± 38.35	7.77 ± 8.07	122.64 ± 17.39	5391 ± 883.97	149.99 ± 29.3	18.59 ± 7.05	722.4 ± 179.1	1081.27 ± 219.61
	DAP 1	<LOD	4381.49 ± 817.72	632.54 ± 155.01	17.18 ± 9.04	139.5 ± 30	7369.9 ± 2860.27	59.77 ± 19.7	47.38 ± 16.06	1510.39 ± 667.16	2497.56 ± 295.92
	Orn 0.1	<LOD	3368.87 ± 537.14	85.87 ± 51.2	2.53 ± 0.31	238.21 ± 84.36	7015.61 ± 1094.65	61.01 ± 8.88	25.98 ± 11.93	1063.56 ± 251.19	2458.41 ± 299.05
	Orn 1	<LOD	411.66 ± 238.5	49.69 ± 16.4	2.6 ± 1.09	169.54 ± 84.32	1665.05 ± 445.13	48.61 ± 27.34	4.83 ± 2.27	286.34 ± 32.87	1390.05 ± 351
	Put 0.1	<LOD	2031.61 ± 457.04	163.81 ± 72.74	7.89 ± 3.42	2919.27 ± 1815.43	5045.13 ± 1901.83	71.6 ± 2.87	11.2 ± 4.4	540.04 ± 218.45	1969.78 ± 491.05
	Put 1	<LOD	3569.84 ± 1289.46	81.75 ± 32.08	8.13 ± 4.61	132.97 ± 22.77	7516.11 ± 1973.98	61.73 ± 19.55	44.96 ± 9.04	2745.76 ± 2797.11	4692.94 ± 1106.08
Osmotic stress	Non	<LOD	530.01 ± 47.62	42.74 ± 3.98	6.1 ± 3.21	116.77 ± 29.36	3246.52 ± 716.23	56.8 ± 13.74	4.53 ± 1.52	1370.39 ± 426.49	1793.78 ± 843.04
	DAP 0.1	<LOD	816.28 ± 179.21	140.18 ± 40.22	4.3 ± 1.57	1601.52 ± 365.81	3932.4 ± 1483.99	55.68 ± 17.65	23.36 ± 37.43	1526.91 ± 621.67	2289.2 ± 253.86
	DAP 1	<LOD	1407.17 ± 348.21	398.14 ± 124.17	15.35 ± 8.18	208.31 ± 105.31	6495.11 ± 794.54	88.36 ± 26.31	11.55 ± 8.92	2371.02 ± 366.85	5171.37 ± 1104.79
	Orn 0.1	<LOD	793.1 ± 320.42	124.28 ± 57.88	3.58 ± 0.57	122.14 ± 43.03	4727.82 ± 1357.66	77.05 ± 31.11	1.97 ± 0.6	2359.03 ± 718.07	5614.52 ± 1000.09
	Orn 1	<LOD	211.29 ± 84.81	61.8 ± 18.04	2.9 ± 1.25	722.04 ± 456.34	1544.01 ± 157.39	50.01 ± 12.15	1.86 ± 0.89	713.36 ± 183.38	2066.23 ± 307.06
	Put 0.1	<LOD	437.53 ± 64.96	89.22 ± 61.95	15.8 ± 5.74	302.5 ± 99.33	2653.87 ± 381.59	68.6 ± 19.25	1.09 ± 0.91	805.63 ± 155.7	2387.28 ± 166.37
	Put 1	<LOD	972.51 ± 214.69	123.71 ± 67.38	16.45 ± 10.79	3052.22 ± 1383.02	6410.4 ± 1551.01	114.66 ± 63.96	10.28 ± 6.85	4477.64 ± 1500.14	6906.04 ± 1041.27
Salt stress	Non	<LOD	1951.95 ± 644.61	46.04 ± 13.49	2.63 ± 0.71	131.12 ± 23.2	5517.65 ± 1019.01	72.18 ± 13.45	13.4 ± 12.89	111.32 ± 19.54	1875.17 ± 636.91
	DAP 0.1	<LOD	3067.97 ± 481.52	106.33 ± 29.68	3.81 ± 1.95	168.65 ± 91.49	7591.67 ± 693.42	86.75 ± 21.81	86.49 ± 27.82	2841.42 ± 893.43	1508.86 ± 320.72
	DAP 1	<LOD	5189.04 ± 698.35	686 ± 160.34	22.37 ± 9.09	91.36 ± 55.48	11413.65 ± 378.39	271.25 ± 16.66	174.09 ± 56.13	4481.67 ± 2698.49	3944.83 ± 1248.91
	Orn 0.1	<LOD	6448.31 ± 559.55	106.53 ± 29.87	4.38 ± 1.4	103.92 ± 49.45	12705.21 ± 773.56	387.06 ± 242.56	240.04 ± 74.02	5750.77 ± 1613.32	3703.63 ± 1010.48
	Orn 1	<LOD	2571.39 ± 816.32	61.46 ± 3.52	2.58 ± 0.14	198.86 ± 66.13	9219.48 ± 845.81	81.49 ± 20.53	62.94 ± 20.86	1967.53 ± 632.98	4055.97 ± 1829.44
	Put 0.1	<LOD	5922.81 ± 918	61.95 ± 32.05	4.6 ± 3	1320.86 ± 130.35	12120.06 ± 2529.84	405.15 ± 210.17	210.03 ± 53.21	4871.3 ± 2506.62	4960.2 ± 1887.06
	Put 1	<LOD	4474.26 ± 1000.92	82.4 ± 16.16	23.2 ± 13.83	245.65 ± 149.79	11657.04 ± 2615.12	120.37 ± 7.87	212.23 ± 35.09	6943.28 ± 994.38	7291.02 ± 2791.51
		Free polyamines									
		Hist	Put	DAP	Cad	NorSpd	Spd	HomoSpd	ThSpm	Spm	Agm
Optimal conditions	Non	39.91 ± 4.76	4362.93 ± 5650.59	47.05 ± 23.47	18.46 ± 4.49	47.24 ± 33.84	819.34 ± 199.55	18.33 ± 8.43	2.47 ± 0.09	23.25 ± 5.37	1004.05 ± 384.27
	DAP 0.1	29.22 ± 9.55	1909.48 ± 399	54.39 ± 15.52	15.85 ± 1.1	11.67 ± 5.18	583.94 ± 272.47	20.4 ± 9.48	2.37 ± 0.23	15.96 ± 8.73	625.59 ± 246.49
	DAP 1	20.61 ± 5.68	3339.18 ± 345.48	349.56 ± 172.28	20.59 ± 10.56	13.58 ± 2.38	912.8 ± 484.78	8.64 ± 4.99	2.49 ± 0.22	20.57 ± 7.07	953.52 ± 236.03
	Orn 0.1	16.56 ± 3.57	2140.54 ± 438.05	23.77 ± 10.47	12.81 ± 3.46	28.28 ± 10.05	655.58 ± 189.46	9.01 ± 2.18	2.14 ± 0.14	14.78 ± 4.79	700.73 ± 221.24
	Orn 1	14.88 ± 8.75	471.21 ± 194.48	27.45 ± 20.12	5.57 ± 1.76	21.05 ± 18.74	264.65 ± 120.17	13.44 ± 8.86	2.07 ± 0.04	13.39 ± 8.5	443.43 ± 74.74
	Put 0.1	6.81 ± 1.06	1195.08 ± 478.17	91.13 ± 66.7	3.52 ± 1.08	141.85 ± 30.22	628.92 ± 308.97	11.81 ± 3.85	1.13 ± 0.07	13.81 ± 6.11	393.21 ± 194.37
	Put 1	54.89 ± 53.49	788.73 ± 92.72	34.42 ± 11.77	31.94 ± 27.96	36.66 ± 30.79	682.57 ± 76.3	9.41 ± 3.41	35.93 ± 29.48	41.3 ± 31.82	1262.51 ± 585.96
Osmotic stress	Non	34.62 ± 3.43	635.69 ± 277.78	47.4 ± 28.56	17 ± 4.35	33.6 ± 28.2	606.42 ± 44.59	5.68 ± 1.14	2.37 ± 0.25	64.87 ± 17.67	2166.53 ± 447.94
	DAP 0.1	44.46 ± 28.95	668.05 ± 172.69	96.77 ± 33.46	18.68 ± 1.47	201.68 ± 83.62	646.78 ± 151.15	4.72 ± 0.75	2.17 ± 0.14	45.36 ± 12.28	1841.61 ± 314.4
	DAP 1	41.9 ± 8.22	1345.3 ± 150.18	246.96 ± 71.9	51.23 ± 16.14	41.23 ± 25.2	830.08 ± 528.08	6.68 ± 2.5	2.6 ± 0.54	38.91 ± 16.71	1903.13 ± 496.51
	Orn 0.1	13.81 ± 1.73	691.2 ± 282.06	79.3 ± 46.91	10.5 ± 2.27	53.7 ± 51.99	1014.01 ± 464.91	5.1 ± 0.6	2.07 ± 0.05	75.3 ± 61.65	2307.77 ± 482.05
	Orn 1	13.7 ± 2.92	338.08 ± 178.68	55.89 ± 12.82	7.65 ± 0.87	101.58 ± 42.42	369.48 ± 143.56	9.97 ± 7.59	2.05 ± 0.05	42.44 ± 24.63	979.95 ± 434.77
	Put 0.1	8.32 ± 1.01	201.8 ± 21.97	36.29 ± 27.92	3.25 ± 0.33	16 ± 4.05	339.28 ± 111.92	3.19 ± 0.67	1.04 ± 0.02	31.56 ± 5.93	950.77 ± 333.68
	Put 1	18.27 ± 21.03	586.93 ± 241.43	79.51 ± 10.7	13.88 ± 10.99	331.54 ± 236.44	1643.19 ± 499.32	15.78 ± 9.74	2.31 ± 0.28	239.76 ± 138.13	1629.39 ± 717.27
Salt stress	Non	22.75 ± 4.24	2454.04 ± 478.51	57.2 ± 8.79	22.23 ± 4.29	35.46 ± 38.81	3623.59 ± 506.56	31.92 ± 8.5	5.79 ± 2	78.07 ± 19.25	2214.09 ± 751.84
	DAP 0.1	42.34 ± 41.71	3746.55 ± 968.3	51.84 ± 24.52	25 ± 9.01	17.01 ± 3.8	3894.49 ± 845.23	26.58 ± 8.54	4.46 ± 0.29	79.95 ± 13.38	1981.24 ± 544.36
	DAP 1	19.82 ± 4.51	4193.5 ± 712.07	403.98 ± 137.08	59.79 ± 13.01	25.07 ± 8.55	4155.99 ± 1786.67	59.56 ± 17.52	4.52 ± 0.99	99.17 ± 16.99	2050.85 ± 392.6
	Orn 0.1	28.83 ± 18.62	5304.56 ± 664.69	50.84 ± 13.78	31.24 ± 8.32	32.21 ± 14.97	7049.03 ± 1883.54	26.48 ± 8.24	6.78 ± 1.28	149.47 ± 37.22	2120.45 ± 333.79
	Orn 1	15.03 ± 6.02	2545.66 ± 775.17	35.86 ± 8.12	8.87 ± 0.97	30.09 ± 18.27	1928.84 ± 346.31	18.86 ± 9.68	3.37 ± 0.91	47.45 ± 25.41	994.74 ± 385.98
	Put 0.1	7.52 ± 2.14	4258.9 ± 1271.57	45.79 ± 17.8	7.32 ± 1.63	10.06 ± 6.78	4160.55 ± 1244.21	70.41 ± 68.98	5.02 ± 2.85	85.4 ± 27.89	1169.07 ± 312.59
	Put 1	7.19 ± 7.74	2098.91 ± 355.94	25.55 ± 4.16	8.19 ± 2.54	18.49 ± 7.05	3789.13 ± 894.65	16.52 ± 8.03	4.31 ± 3.26	77.86 ± 25.22	1284.77 ± 314.28