

## Supplementary.

**Table S1.** Original measured values of fresh weight (FW), and content of chlorophyll (SPAD), anthocyanin (ACI), nitrogen (N), phosphorus (P), and potassium (K) for eight lettuce accessions tested with five fertilizer treatments and harvested at baby leaf stage (Ivan Simko, Genetic Variation in Response to N, P, or K Deprivation in Baby Leaf Lettuce, *Horticulturae*, 2020).

Accession	Treatment	FW	SPAD	ACI	N	P	K
Annapolis	NPK	31.53	38.88	26.70	4.54	0.66	4.37
B. Barrage	NPK	42.07	35.73	6.25	3.03	0.47	3.42
Darkland	NPK	61.70	40.15	8.53	3.44	0.61	3.68
Eruption	NPK	35.03	33.83	12.60	4.68	0.71	4.67
La Brillante	NPK	32.47	27.33	3.90	5.87	0.81	5.99
Merlot	NPK	31.00	20.48	7.70	5.21	0.88	5.42
Salinas	NPK	34.47	32.30	5.53	4.69	0.66	5.35
UC96US23	NPK	15.00	42.03	9.83	5.26	0.67	5.15
Annapolis	nPK	23.60	34.98	32.00	3.66	0.67	3.95
B. Barrage	nPK	20.47	32.35	5.53	2.96	0.50	3.60
Darkland	nPK	28.33	35.85	6.13	2.58	0.55	4.62
Eruption	nPK	31.67	33.30	16.30	3.33	0.63	5.91
La Brillante	nPK	26.27	22.20	3.25	3.94	0.67	5.70
Merlot	nPK	26.20	18.88	9.85	3.98	0.70	5.37
Salinas	nPK	26.43	34.03	6.15	3.56	0.59	5.39
UC96US23	nPK	15.05	43.50	9.08	4.47	0.68	5.07
Annapolis	PK	2.75	23.63	55.95	2.17	0.49	4.43
B. Barrage	PK	4.30	18.43	2.85	1.32	0.34	2.68
Darkland	PK	3.68	17.98	3.30	1.21	0.36	2.26
Eruption	PK	3.48	23.43	24.28	1.86	0.49	6.09
La Brillante	PK	2.70	15.45	2.60	1.85	0.44	3.82
Merlot	PK	3.30	14.28	23.38	1.90	0.48	4.96
Salinas	PK	3.38	25.75	4.20	1.69	0.39	3.76
UC96US23	PK	1.75	28.43	4.32	2.12	0.42	4.60
Annapolis	NK	5.10	34.65	141.00	4.65	0.11	3.37
B. Barrage	NK	5.83	24.40	4.13	4.71	0.08	2.81
Darkland	NK	7.28	31.68	6.88	4.83	0.09	2.86
Eruption	NK	7.65	31.10	39.33	4.68	0.12	5.07
La Brillante	NK	6.85	22.00	3.80	6.71	0.14	4.19
Merlot	NK	7.60	24.15	41.73	4.37	0.13	3.86

Salinas	NK	5.23	31.55	5.63	5.17	0.11	4.12
UC96US23	NK	1.98	35.80	7.03	6.91	0.14	5.32
Annapolis	NP	38.70	41.63	31.15	4.14	0.70	1.96
B. Barrage	NP	35.23	38.63	7.48	3.91	0.54	1.80
Darkland	NP	46.80	45.33	11.73	3.65	0.61	2.16
Eruption	NP	40.20	34.78	15.15	4.59	0.72	2.84
La Brillante	NP	44.47	21.85	3.60	4.72	0.75	3.12
Merlot	NP	31.10	26.45	9.73	5.24	0.82	2.79
Salinas	NP	29.40	30.20	5.33	5.91	0.87	3.65
UC96US23	NP	14.00	48.05	11.05	5.69	0.69	2.92

Treatments:

NPK treatment (control) supplied optimal concentrations of all three macronutrients, nPK treatment supplied only 1/3 of N compared to control, PK treatment did not supply N, NK treatment did not supply P, and NP treatment did not supply K.

Units:

FW.....fresh weight in g

SPAD.....content of chlorophylls in SPAD units

ACI.....content of anthocyanin in ACI units

N.....soluble nitrate (NO<sub>3</sub>-N) in g/kg of FW

P.....phosphorus (PO<sub>4</sub>-P) in g/kg of FW

K.....soluble potassium (K) in g/kg of FW