

Dry matter partitioning and K distribution of vegetable soybean genotypes with higher potassium efficiency - Supplement

Table S1. Some basic data of forty vegetable soybean genotypes.

Number	Name	Seedcoat color	Seed size	Flower color	Leaf shape
1	H44	Yellow	Medium	White	Round
2	Z-13-6	Green	Large	White	Round
3	LC3	Green	Medium	White	Round
4	D4-11	Yellow	Large	Purple	Ellipse
5	BJY	Black	Medium	White	Ellipse
6	ZHY	Black	Medium	Purple	Ellipse
7	DZ1	Yellow	Large	Purple	Round
8	ZKMD2	Brown	Large	White	Round
9	BA123	Yellow	Medium	Purple	Round
10	MD1-70	Green	Large	White	Round
11	ZKMD1	Yellow	Very large	White	Round
12	DS9	Yellow	Medium	White	Ovoid
13	FS4	Brown	Large	White	Round
14	N95	Brown	Medium	Purple	Round
15	L27	Green	Medium	White	Round
16	M6Z	Yellow	Medium	Purple	Round
17	FS9CK	Black	Medium	Purple	Round
18	H56	Yellow	Large	White	Round
19	T117	Yellow	Large	White	Round
20	L113	Yellow	Large	White	Round
21	DZ107	Green	Large	Purple	Round
22	ZKMD1-1	Green	Large	White	Round
23	51-54	Yellow	Large	White	Round
24	RBQ	Green	Very large	White	Round
25	FS5	Yellow	Very large	White	Round
26	263-266	Yellow	Medium	White	Round
27	DS28	Yellow	Medium	White	Ovoid
28	Q36	Green	Very large	White	Round
29	FS1	Green	Medium	Purple	Ovoid
30	SN26	Yellow	Medium	Purple	Ovoid
31	DS1	Yellow	Medium	Purple	Ovoid
32	DS7	Yellow	Medium	Purple	Ovoid
33	FS3CK	Green	Very large	Purple	Round
34	87-1	Yellow	Medium	White	Round
35	9701-2	Green	Large	Purple	Round
36	ZX8	Green	Very large	White	Round
37	104	Green	Medium	Purple	Ellipse
38	VS10	Green	Large	Purple	Round
39	T75-1	Green	Large	White	Round
40	Z10	Green	Large	White	Ellipse

Table S2. Correlation analysis between KIUE and some parameters

Variables	2016 field experiment		2017 pot experiment	
	KIUE-Y	KIUE-B	KIUE-Y	KIUE-B
Shoot DW	0.144	-0.564	-0.794*	0.811*
Grain yield	0.532	-0.491	-0.514	0.190
K conc. of shoot	-0.43	-0.975**	0.382	-0.998**
K conc. of seed	0.068	0.426	-0.579	-0.313
K acc. of shoot	-0.154	-0.832*	-0.882**	0.372
K acc. of seed	0.609	-0.438	-0.845**	0.055
HI	0.738*	-0.36	0.731*	-0.908**
KHI	0.839**	0.546	0.763*	-0.750*

*, significant at $P=0.05$; **, significant at $P=0.01$.

Abbreviation: KIUE-Y, K internal use efficiency in yield; KIUE-B, K internal use efficiency in biomass; DW, dry matter weight; conc., concentration; acc., accumulation; HI, harvest index; KHI, potassium harvest index.

Table S3. Harvest index and K harvest index of various K efficiency genotypes under two K levels

		Harvest index (%)		K harvest index (%)	
		K0	K120	K0	K120
KHE	T117	44.0a	43.7a	81.1a	74.8a
	L113	37.8b	35.5b	79.6a	71.6a
KLE	DZ1	29.3c	29.8c	64.8c	62.5b
	ZX8	31.4c	29.6c	72.2b	68.7ab

Genotypes with different letters are significantly different (ANOVA, $P \leq 0.05$).

Abbreviation: KHE, K high efficiency; KLE, K low efficiency; K0, 0kg ha⁻¹ K₂SO₄ treatment; K120, 120kg ha⁻¹ K₂SO₄ treatment.