

Table S1 Total number of lines (n) and simple matching coefficient (SM) between parental lines of 10 dent (F353 x founder) and 11 flint (UH007 x founder) families. Mean (\bar{x}), genetic variance component (σ_g^2), genotype by environment variance component (σ_{ge}^2), and heritability (h^2 ; \pm standard error) of dent and flint families estimated for plant height (PH).

Founder	n	SM	\bar{x}	σ_g^2	σ_{ge}^2	h^2
B73	64	0.608	294.80 \pm 1.09	60.66 \pm 13.43	24.59 \pm 7.66	0.84 \pm 0.04
D06	99	0.642	292.18 \pm 0.83	53.05 \pm 9.78	19.15 \pm 7.08	0.80 \pm 0.04
D09	100	0.668	284.39 \pm 0.92	69.51 \pm 12.11	0	0.84 \pm 0.02
EC169	66	0.617	283.51 \pm 1.11	64.75 \pm 14.05	8.26 \pm 9.53	0.84 \pm 0.04
F252	96	0.671	285.70 \pm 0.93	65.79 \pm 12.17	22.44 \pm 8.62	0.81 \pm 0.04
F618	104	0.645	291.36 \pm 0.76	44.87 \pm 8.37	5.1 \pm 8.64	0.79 \pm 0.05
Mo17	53	0.627	292.84 \pm 1.22	58.87 \pm 15.74	33.17 \pm 13.30	0.76 \pm 0.06
UH250	94	0.634	287.76 \pm 0.92	65.53 \pm 11.89	12.40 \pm 8.32	0.83 \pm 0.03
UH304	81	0.765	288.50 \pm 0.82	37.35 \pm 8.5	20.89 \pm 8.20	0.73 \pm 0.06
W117	84	0.625	273.78 \pm 1.25	108.76 \pm 20.47	24.16 \pm 12.35	0.86 \pm 0.03
D152	72	0.749	281.09 \pm 0.97	56.73 \pm 11.41	5.97 \pm 8.04	0.85 \pm 0.03
EC49A	29	0.656	288.71 \pm 1.50	54.65 \pm 17.58	21.96 \pm 10.64	0.85 \pm 0.05
EP44	17	0.615	292.29 \pm 2.04	57.65 \pm 24.39	0	0.85 \pm 0.05
EZ5	26	0.613	296.48 \pm 1.48	42.23 \pm 16.17	28.16 \pm 14.57	0.77 \pm 0.08
F03802	129	0.753	292.93 \pm 0.54	27.48 \pm 4.78	12.75 \pm 5.60	0.75 \pm 0.04
F2	54	0.723	285.38 \pm 0.97	38.55 \pm 9.83	0	0.79 \pm 0.04
F283	133	0.716	288.40 \pm 0.96	108.89 \pm 14.91	5.46 \pm 6.59	0.91 \pm 0.01
F64	64	0.621	299.27 \pm 1.08	63.57 \pm 13.40	14.97 \pm 7.49	0.87 \pm 0.03
UH006	94	0.791	288.09 \pm 0.90	63.96 \pm 11.16	16.70 \pm 6.86	0.86 \pm 0.03
UH009	98	0.815	287.88 \pm 0.65	31.20 \pm 6.07	7.87 \pm 6.18	0.77 \pm 0.04
DK105	95	0.738	291.70 \pm 1.17	118.87 \pm 18.86	0	0.93 \pm 0.01