

Additional file 1

Pedigree, heterotic groupings, release year and origin information of inbred lines used for the seed source experiment and those used as parents of the full-diallel population. Yellow colored cells indicate inbred lines used in both the full-diallel and seed source experiments. SSS: stiff-stalk synthetic; NSS: non-stiff stalk; POP: popcorn; PVP: Plant Variety Protection lines; LH: Holden's

Genotype	Pedigree	Heterotic Group	Year	Origin	PVP
A663	A427(3)X Cuzco	unclassified	1975	U of Minnesota	non
B14A	Cuzco X B14 (8)	SSS	1962	Iowa	non
B73	BSSS	SSS	1972	Iowa	non
CH157	NA	unclassified	.	Ontario, Canada	non
DKHBA1	PH3195 X PH3199	unclassified	1986	United States	PVP-Dekalb
H121	Syn. HCBSA	unclassified	.	Purdue	non
H99	Illinois Syn. 60C	NSS	1974	Indiana	non
IDS69	NA	POP	.	Iowa	non
Ky226*	NCIaDDC X Coah. 8	unclassified	1966	Kentucky	non
LH145	A632 X CM105	SSS	1984	Iowa	PVP-LH
Mo17	C.I.187-2 X C103	NSS	1966	Missouri	non
Mo5	K55(3) X N6	unclassified	1958	Missouri	non
MoG	Mastadon	unclassified	.	.	non
NC230	K55 X Yellow line or hybrid	unclassified	.	North Carolina	non
ND262	NDSF	unclassified	.	N Dakota	non
NK740	Mexican_Deep_Kernel X Mo17(4)	unclassified	1988	Minnesota	PVP-NTP
Oh43	W8 X Oh40B	NSS	1949	Ohio	non
PH207	PHG3BD2 X PHG3RZ1	NSS (Iodent)	1984	Iowa	PVP-Pioneer
PHB47	SD105 X B37(3)	SSS	1984	Iowa	PVP-Pioneer
PHW65	PH861 X PH595	NSS	1988	Iowa	PVP-Pioneer
PHZ51	PH814 X PH848	NSS	1986	Iowa	PVP-Pioneer
SD40	P3709	unclassified	.	S Dakota	non
Tr	Reid Yellow Dent (Troyer strain)	unclassified	1938	Purdue	non
Va99	Oh07B X Pa91	unclassified	.	Virginia	non
W22	Ill_B10 X W25	NSS	1946	Wisconsin	non
WU-TAN-TZAO	NA	unclassified	.	Shaanxi, China	non

* indicates the line was used only in the full-diallel experiment and not seed source