

Supplementary Table S1: Full dataset information

Name	AllZea Accession	SHORT Sample	REF Sample	Founder Lines	Parents	Breeder Origin
740	PI601489:250033809		X		[Mo17 x Mexican Deep Kernel (NK OPV)] x Mo17(3)	Northrup, King & Company
764	PI601374:250032400		X		235 (multi-ear source x A635) x B73	Northrup, King & Company
778	PI601375:250031906		X		W117 x B37	Northrup, King & Company
779	PI601376:250032467		X		CM7 x W117	Northrup, King & Company
787	PI601490:250041416		X		Va17 x Va29	Northrup, King & Company
789	PI233318:250032298		X		South Dakota State line developed from hybrid 7983	South Dakota State University
790	PI601491:250033546		X		235 (multi-ear source x A635) x B73	Northrup, King & Company
792	NSL243016:250033579		X		235 X B73	Northrup, King & Company
793	PI601492:250032460		X		235 (multi-ear source x A635) x B73	Northrup, King & Company
794	PI601377:250033866		X		235 (multi-ear source x A635) x B73	Northrup, King & Company
807	PI601430:250032133		X		W117 x B37	Northrup, King & Company
829	PI233319:250035186		X		Developed by SDSU, selection from Burbank Bantam	South Dakota State University
883	PI233320:250032421		X		SDSU line, developed from P39 (81M)	South Dakota State University
884	PI233323:250034825		X			
908	PI233321:250032307		X			
909	PI233322:250032548		X		SDSu line, Selection from P-39. (P39-10-1-1-1-1-1)	South Dakota State University
991	PI593460:250034834	X			H8431*1/L8401	
2369	PI601559:250031915		X		2702H x B73**2	Northrup, King & Company
29MIBZ2	PI548830:250041682		X		(B87 x pioneer3901) x pioneer3901	Dekalb-Pfizer Genetics
2FACC	PI601808:250031936		X		4676A x PB80	Dekalb-Pfizer Genetics
2MA22	PI601560:250033611		X		4780 (A2E x MDF-13A) x 5P9-1 (A295 x 3J3)	Dekalb-Pfizer Genetics
3IBZ2	PI554616:250041701		X		Pioneer3981 x Pioneer3990	Dekalb-Pfizer Genetics
4N506	PI601745:250031639		X		B73 x BSSS	Funk Seeds International Inc.
6F629	PI546483:250041709		X		88051B x 4608H	Dekalb-Pfizer Genetics
6M502	PI601561:250031396		X		4913 X MAWU	Dekalb-Pfizer Genetics
6M502A	PI546484:250041597		X		MAWU x 4913	Dekalb-Pfizer Genetics
78002A	PI601301:250031364		X		B73 x A634	Dekalb-Pfizer Genetics
78371A	PI601438:250033530		X		(4726 x Iowa Long Ear) x 4726	Dekalb-Pfizer Genetics
78551S	PI601562:250034800		X		78060A x LH38	Dekalb-Pfizer Genetics
83IBI3	PI555651:250041659		X		IBC2 x IBI2	Dekalb-Pfizer Genetics
87916W	PI601563:250033533		X		(B73 x W37-2) x B73(2) white	Dekalb-Pfizer Genetics
A6	Ames27062:250032953	X			Minnesota 13	Iowa
A619	PI587139:250033566		X		(A171 x Oh43) x Oh43	Minnesota
A632	PI587140:250031900		X		[(Mt42 x B14) B14 (3)]	Minnesota
B14	NSL65866:250031578	X			Iowa Stiff Stalk Synthetic	Iowa
B37	PI550467:250030985		X		Iowa Stiff Stalk Synthetic	Iowa
B73	PI550473:250031665		X	X	Iowa Stiff Stalk synthetic C5	Iowa
B84	PI608767:250035071		X		BS13 (S2) C0	Iowa
CG1	CG1:250007524	X			Funk's G10	Guelph, ON
CG10	CG10:250007529	X			European Material	Guelph, ON
CG100	CG100:250007679	X			S2 line from SQI x Pioneer3929	Guelph, ON
CG101	CG101:250007699	X			S2 line from CG Lancaster (BIO) x Pioneer3921	Guelph, ON
CG102	CG102:250007711	X			CG Stiff Stalk combined C2	Guelph, ON
CG106	CG106:250007660	X			(CG33 x CG34) x (BSL (S4) C7 x CGSyn A-NL) (S4)	Guelph, ON
CG120	CG120:250007737	X			(CG65 x CG33) x CG102	Guelph, ON
CG13	CG13:250007532	X			Golden Glow	Guelph, ON
CG14	CG14:250007533	X			Wigor (European)	Guelph, ON
CG15	CG15:250007534	X			Wigor (European)	Guelph, ON
CG20	CG20:250007536	X			CG7 X CM37	Guelph, ON
CG21	CG21:250007537	X			CH593-9 BC2 NRP GL5	Guelph, ON
CG22	CG22:250007538	X			CH593-9 BC2 NRP GL5	Guelph, ON

CG23	CG23:250007539	X	CH591-23 BC2 NRP G15	Guelph, ON
CG24	CG24:250007540	X	CG17 X Pioneer 3950	Guelph, ON
CG26	CG26:250007541	X	F2 x F7	Guelph, ON
CG27	CG27:250007542	X	B73 x Early hybrid synthetic	Guelph, ON
CG28	CG28:250007543	X	CG Synthetic A (S) C0	Guelph, ON
CG29	CG29:250007544	X	CG Synthetic B (S) C0	Guelph, ON
CG30	CG30:250007545	X	CG Synthetic B (S) C0	Guelph, ON
CG31	CG31:250007546	X	CG Hope A	Guelph, ON
CG32	CG32:250007547	X	CG Hope A	Guelph, ON
CG33	CG33:250007548	X	CG17 x Pioneer 3950	Guelph, ON
CG34	CG34:250007549	X	CG17 X Pioneer 3950	Guelph, ON
CG42	CG42:250007571	X	Pioneer 3929	Guelph, ON
CG50	CG50:250007573	X	France-Canada Gene Pool	Guelph, ON
CG52	CG52:250007575	X	Morden Stiff Stalk	Guelph, ON
CG53	CG53:250007576	X	CG7 x CM37	Guelph, ON
CG54	CG54:250007577	X	CG7 x CM37 (Stress Population)	Guelph, ON
CG55	CG55:250007578	X	Pioneer3881 (PHJ75 x PHW20 or CO237)	Guelph, ON
CG56	CG56:250007579	X	Pioneer3925 (PHR25 x ??)	Guelph, ON
CG58	CG58:250007581	X	Pioneer3906 (PHM10 x ??) {PHB49 x 207 per M.M.}	Guelph, ON
CG6	CG6:250007527	X	European Material	Guelph, ON
CG66	CG66:250007589	X	Pioneer3901 (PHJ75 x ??)	Guelph, ON
CG67	CG67:250007590	X	Pioneer3901 (PHN82 x ??)	Guelph, ON
CG68	CG68:250007591	X	Pioneer3707 (PHN82 x ??)	Guelph, ON
CG69	CG69:250007592	X	Pioneer3929 (PHJ40 x LH85) {PHJ40 x PHG68 per M.M.}	Guelph, ON
CG7	CG7:250007564	X	European Material	Guelph, ON
CG70	CG70:250007593	X	Pioneer3929 (PHJ40 x LH85) {PHJ40 x PHG68 per M.M.}	Guelph, ON
CG73	CG73:250007596	X	Stalk Quality VII (Stress pop.)	Guelph, ON
CG8	CG8:250007528	X	European Material	Guelph, ON
CG80	CG80:250007603	X	Pioneer3737 (PHN82 x PHG47)	Guelph, ON
CG85	CG85:250007608	X	Pioneer3790 (PHJ40 x PHG72)	Guelph, ON
CG88	CG88:250007611	X	CG Lancaster (RRS)	Guelph, ON
CG89	CG89:250007612	X	S2 line from CG CBI x Pioneer3929	Guelph, ON
CG9	CG9:250007565	X	European Material	Guelph, ON
CG90	CG90:250007613	X	S2 line from CGSynA x Pioneer3902	Guelph, ON
CG91	CG91:250007614	X	S2 line from CG Hope IA x Pioneer3921	Guelph, ON
CG92	CG92:250007615	X	CG23 x Pioneer3921	Guelph, ON
CG93	CG93:250007616	X	S5 line from Pioneer3969 x Pioneer3929	Guelph, ON
CG94	CG94:250007617	X	S2 line from CG Lancaster (Bio) x Pioneer3921	Guelph, ON
CG95	CG95:250007618	X	S2 line from FCGP x Pioneer3929	Guelph, ON
CG97	CG97:250007651	X	S2 line from CG Wigor x Pioneer3921	Guelph, ON
CG98	CG98:250007659	X	S2 line from SQII x Pioneer3929	Guelph, ON
CG99	CG99:250007696	X	S2 line from CG SS (BIO) x Pioneer3921	Guelph, ON
CGR01	CGR01:250007689	X	(B93 x (948/904)) x (948/904), note (948/904)=NK2555	Ridgetown, ON
CGR02	CGR02:250007662	X	(CG44x(MF4xP1247)-3)-B-2-1-1-1	Ridgetown, ON
CGR03	CGR03:250007670	X	(B100 x (948/904)) x (948/904), note (948/904)=NK2555	Ridgetown, ON
CGX333	CGX333:250007702	X	SD79 x SD80, white	Guelph, ON
CH157	Ames22441:250032253	X	unkown	Agriculture Canada
CH701-30	Ames27069:250032425	X	unknown	Harrow Research Station
CH705-8	Ames27017:250034866	X	Funks G4220	Agriculture Canada, Research Branch
CH711-10	Ames27018:250033460	X	Pioneer3773	Agriculture Canada, Research Branch
CH732-12	Ames27019:250032438	X	[(CH592-46 x CH592-13-2) B14]	Agriculture Canada, Research Branch
CH741-6	Ames27020:250032550	X	CH591-36 x CH591-23	Agriculture Canada, Research Branch
CH753-4	Ames27021:250032463	X	A635 x A636	Agriculture Canada, Research Branch

CH9	Ames27068:250034794	X		Funk's G176	Harrow Research Station
CL17	Ames27024:250034749	X		Composite (European, Howe's Alberta, and Saskatchewan White F	Agriculture Canada, Research Branch
CL18	Ames27025:250035226	X		Composite (European, Howe's Alberta, and Saskatchewan White F	Agriculture Canada, Research Branch
CL19	Ames27026:250032509	X		Unknown	Agriculture Canada, Research Branch
CL20	Ames27027:250041411	X		[Prides' X (New England Flint X Zachtecas 58)]	Agriculture Canada, Research Branch
CL22	Ames27028:250032579	X		[Prides' X (New England Flint X Zachtecas 58)]	Agriculture Canada, Research Branch
CL27	Ames27029:250032586	X		[(CO106 x CO109) x (New England Flint OA x ACA179)]	Agriculture Canada, Research Branch
CM105	CM105:250047997	X		V3 x B14(2)	Agriculture Canada, Research Branch
CM145	Ames27032:250034602	X		[(B14 x CMV3) B14J]	Agriculture Canada, Research Branch
CM151	Ames27033:250034614	X		Mt42 x Wf9 (2)	Agriculture Canada, Research Branch
CM155	Ames27034:250032150	X		Wf9 x Mt42	Agriculture Canada, Research Branch
CM169	Ames27035:250032297	X		V3 x B14 (2)	Agriculture Canada, Research Branch
CM174	CM174:250047927	X		V3 x B14(2)	Agriculture Canada, Research Branch
CM182	Ames27036:250032304	X		WD x B8	Agriculture Canada, Research Branch
CM234	Ames27037:250035251	X		WD x B8	Agriculture Canada, Research Branch
CM37	CM37:250040174	X		KE3	Manitoba
CM48	Ames22747:250032296	X		Selection from Greece	Agriculture Canada
CM7	Ames27070:250032341	X		W85 x CMV3	Agriculture Canada
CM99	Ames27031:250035268	X		V3 x B14(2)	Agriculture Canada, Research Branch
CMV3	Ames27038:250035232	X		A21 x W185	Agriculture Canada, Research Branch
CO106	Ames27105:250032276	X		University of Wisconsin CR11	Ontario, Canada
CO109	PI587125:250032138	X		Early butler	Ontario, Canada
CO117	Ames27039:250032217	X		Pioneer 6124	Agriculture Canada, Research Branch
CO120	Ames27040:250032261	X		Dekalb 46	Agriculture Canada, Research Branch
CO125	Ames27106:250035193	X		unknown	Ontario, Canada
CO150	Ames27041:250035261	X		Pioneer 6124	Agriculture Canada, Research Branch
CO158	Ames27042:250035195	X		Dekalb 46	Agriculture Canada, Research Branch
CO192	Ames27043:250032216	X		[(1S2 x 167-8-5) 1S2 (3)]	Agriculture Canada, Research Branch
CO216	Ames27044:250032325	X		Pride	Agriculture Canada, Research Branch
CO220	Ames27045:250035267	X		[(CO109 x 190) CO109 (3)]	Agriculture Canada, Research Branch
CO236	Ames27046:250035213	X		Pride 5	Agriculture Canada, Research Branch
CO237	Ames27047:250035221	X		59-946-1370-7-28 (Penn State)	Agriculture Canada, Research Branch
CO245	Ames27048:250032326	X		Inra 260	Agriculture Canada, Research Branch
CO252	Ames27049:250035190	X		[(CO109 x CO106) CO106]	Agriculture Canada, Research Branch
CO255	Ames27050:250035187	X		unknown	Agriculture Canada, Research Branch
CO256	Ames27051:250032283	X		BSSS	Agriculture Canada, Research Branch
CO257	Ames27052:250035197	X		BSSS	Agriculture Canada, Research Branch
CO258	Ames27053:250032316	X		BSSS	Agriculture Canada, Research Branch
DK4676A	PI601300:250031885		X	1067-1 x (B-line composite)	Dekalb-Pfizer Genetics
DK78010	PI601211:250033651		X	B73 x A634	Dekalb-Pfizer Genetics
DKHBA1	PI601172:250035080		X	pioneer3195 x pinoeer3199	Dekalb-Pfizer Genetics
DKMDF-13D	PI600956:250031548		X	H4101 (Oh24 x C103) x 800M (Lancaster Composite)	Dekalb-Pfizer Genetics
FAPW	PI600958:250031412		X	B14AH X B37H	Dekalb-Pfizer Genetics
FBHJ	PI601439:250031195		X	(FBAB X B84) x B84	Dekalb-Pfizer Genetics
FBLA	PI546482:250041616		X	1094-H [(B14xMt42)xB14(3)] x A656	Dekalb-Pfizer Genetics
FC46	PI257517:250032591		X	Bresse.	Auvergne-Rhone-Alpes
IB014	PI601208:250032429		X	Pio. 3901**2 x H99	Dekalb-Pfizer Genetics
IB02	PI601457:250033610		X	Pio. 3901**2 x Oh43	Dekalb-Pfizer Genetics
IBB14	PI601565:250031391		X	pioneer3710 x pioneer3732	Dekalb-Pfizer Genetics
IBB15	PI601458:250031890		X	Pio. 3901**2 x Pio. 3306	Dekalb-Pfizer Genetics
IBC2	PI601459:250032594		X	Pio. 3901**2 x Mo17Ht	Dekalb-Pfizer Genetics
ICI193	PI559380:250041558		X	BAAJ (aka CB59G) x pioneer3732	ICI Americas Inc.
ICI740	PI559382:250041617		X	Pioneer3377 x LH132	ICI Americas Inc.

ICI893	PI559383:250041590		X	(Pa91 x B73) x B73	ICI Americas Inc.
LH1	PI644101:250031192		X	[(B73 x 644) x B37]	Holden's Foundation Seeds, Inc.
LH119	PI600954:250033455		X	B73 (2) x H93	Holden's Foundation Seeds, Inc.
LH123HT	PI601079:250031456		X	X Pioneer 3535	Holden's Foundation Seeds, Inc.
LH127	PI538007:250032771		X	Mo17, Pioneer 3535	Holden's Foundation Seeds, Inc.
LH128	PI547086-1:250034631		X	BS11, Mo17	Holden's Foundation Seeds, Inc.
LH132	PI601004:250033532		X	B73 (2) x H93	Holden's Foundation Seeds, Inc.
LH143_Maintainer	Ames27450:250032292		X	A632 NRC	Harper, David, Holden's Foundation Seeds, LLC
LH146Ht	PI601402:250031318		X	[(B73 x CM105) CM105]	Holden's Foundation Seeds, Inc.
LH149	PI601493:250035129		X	[(A662 x B73) (3)]	Holden's Foundation Seeds, Inc.
LH150	PI601230:250032958		X	Pioneer 3147	Holden's Foundation Seeds, Inc.
LH156	PI601403:250035235		X	Va85 x Pa91	Holden's Foundation Seeds, Inc.
LH160	PI539920:250033681	X		Mo17, ND246	Holden's Foundation Seeds, Inc.
LH162	PI539921:250031401	X		Mo17, ND246	Holden's Foundation Seeds, Inc.
LH163	PI538008:250041681		X	Pioneer 3720	Holden's Foundation Seeds, Inc.
LH181	PI547087:250041600		X	LH122, Mo17	Holden's Foundation Seeds, Inc.
LH190	PI539922:250031430		X	B14, B73	Holden's Foundation Seeds, Inc.
LH191	PI539925:250041658		X	B73, Pioneer 3184	Holden's Foundation Seeds, Inc.
LH192	PI539926:250041443		X	B73	Holden's Foundation Seeds, Inc.
LH193	PI539927:250031434		X	B73	Holden's Foundation Seeds, Inc.
LH194	PI539923:250034739		X	B37, B73	Holden's Foundation Seeds, Inc.
LH196	PI538009:250033869		X	B14, B73	Holden's Foundation Seeds, Inc.
LH202	PI539924:250033659		X	A662, B73	Holden's Foundation Seeds, Inc.
LH205	PI537099:250031441		X	B14, B73	Holden's Foundation Seeds, Inc.
LH206	PI538010:250041530		X	B14, B37, B73	Holden's Foundation Seeds, Inc.
LH208	PI547088-1:250034564		X	B14, B73	Holden's Foundation Seeds, Inc.
LH209	PI554612:250041718		X	B14, B73	Holden's Foundation Seeds, Inc.
LH211	PI537101-1:250034545		X	Mo17, Pioneer 3535	Holden's Foundation Seeds, Inc.
LH212Ht	PI547089:250041612		X	C123, LH123	Holden's Foundation Seeds, Inc.
LH213	PI547090:250041581		X	LH123, Mo17	Holden's Foundation Seeds, Inc.
LH214	PI555660:250041579		X	LH123, Mo17	Holden's Foundation Seeds, Inc.
LH215	PI552815:250041730		X	Mo17, R177	Holden's Foundation Seeds, Inc.
LH220Ht	PI538011:250031414		X	B14, B73	Holden's Foundation Seeds, Inc.
LH222	PI559375:250041546		X	B14, B73	Holden's Foundation Seeds, Inc.
LH39	PI600944:250041596		X	Oh43 x L120	Holden's Foundation Seeds, Inc.
LH52	PI601360:250041401		X	Mo17 (3) x 610 (610 = W153R)	Holden's Foundation Seeds, Inc.
LH54	PI601316:250031658		X	Mo17 (3) x 610	Holden's Foundation Seeds, Inc.
LH57	PI601317:250033829		X	[(Mo17 x H99) LH53]	Holden's Foundation Seeds, Inc.
LH59	PI601466:250032185		X	[(Mo17 x H99) LH53]	Holden's Foundation Seeds, Inc.
LH60	PI601404:250032892		X	LH55 x LH47	Holden's Foundation Seeds, Inc.
LH61	PI601416:250033654		X	[(Mo17 x ASA) Mo17 (2)]	Holden's Foundation Seeds, Inc.
LH65	PI601494:250033535		X	[(Mo17 x LH18) LH53]	Holden's Foundation Seeds, Inc.
LH74	PI600957:250032450		X	A632 x B73	Holden's Foundation Seeds, Inc.
LH82	PI601170:250032540		X	X 610 x LH7	Holden's Foundation Seeds, Inc.
LH85	PI601405:250033731		X	Pioneer 3978	Holden's Foundation Seeds, Inc.
LH93	PI601171:250033705		X	BS11	Holden's Foundation Seeds, Inc.
LIBC4	PI555650:250041566		X	MBNS x pioneer3901	Dekalb-Pfizer Genetics
MBNA	PI601209:250031398		X	Mo17Ht x MDA-28	Dekalb-Pfizer Genetics
MBPM	PI601440:250033864		X	composite 400M-118	Dekalb-Pfizer Genetics
MBST	PI601566:250031261		X	LH38 x 4726-1	Dekalb-Pfizer Genetics
MBUB	PI548839:250041735		X	LH38 x MANS (4A5 x AUM-H)	Dekalb-Pfizer Genetics
ML606	PI583774:250034846		X	LK2 X LH38	United AgriSeeds, Inc.
MM402A	PI554615:250041715		X	LH38 x MANS	Dekalb-Pfizer Genetics

Mo17	PI558532:250031418		X	X	C.I 187-2 x C103	Missouri
MQ305	PI559917:250041692		X		Pioneer 3901 hybrid x CB59G	United AgriSeeds, Inc.
ND203	NSL32732:250035237	X			Haney's Mn13	North Dakota
ND211	NSL32725:250041470	X			Haney's Mn13	North Dakota
ND230	NSL32728:250032300	X			Haney's Mn13	North Dakota
ND240	PI607519:250032151	X			[(ND230x ND408) ND408]	North Dakota
ND246	PI550490:250032160	X			W755 x W771	North Dakota
ND255	NSL32722:250034634	X			Haney's Mn13	North Dakota
ND261	PI510674:250034550	X			NDSF	North Dakota
ND262	PI522250:250035178	X			NDSF	North Dakota
ND264	PI522252:250035225	X			NDSF	North Dakota
ND265	PI546494:250032318	X			NDSA	North Dakota
ND266	PI548794:250034590	X			NDSC (FS) C1	North Dakota State University
ND283	NSL32738:250032265	X			Haney's Mn13	North Dakota
ND291	PI631393:250032313	X			NDSM	North Dakota
ND300	PI607527:250032264	X			W739 x W845	North Dakota State University
ND33	NSL32720:250041433	X			Manitoba Yellow Flint	North Dakota
ND36	NSL32721:250041482	X			Manitoba Yellow Flint	North Dakota
ND376	NSL32733:250034589	X			A375 x ND203	North Dakota
ND385	NSL32731:250035189	X			[(A334 x ND211) ND211 (2)]	North Dakota
ND405	NSL32730:250032254	X			ND203 x Oh51A	North Dakota
ND407	NSL32735:250035205	X			[(Oh51A x ND230) ND230 (2)]	North Dakota
ND408	NSL32734:250032159	X			Oh51A x ND230	North Dakota
ND468	NSL32729:250032285	X			WD x Wf9	North Dakota
ND474	NSL32739:250035248	X			[(WD x Wf9) WD (2)]	North Dakota
ND480	NSL32736:250035212	X			Oh51A x ND230	North Dakota
NKH8431	PI601610:250031302		X		(NKB73 x NKA632) x NKB14	Northrop, King & Company
NL001	PI546485:250041615		X		(1089Ht x A634Ht) x B73	Dekalb-Pfizer Genetics
NQ508	PI559918:250031522		X		pioneer3713	United AgriSeeds, Inc.
NS501	PI601583:250031392		X		A634 x K1-172B	United AgriSeeds, Inc.
NS701	PI601417:250031507		X		A632 x B73	United AgriSeeds, Inc.
Oh43	Ames19288:250032389				W8 x Oh40B	Ohio
OQ101	PI559919:250041713		X		pioneer3906 x ND246	United AgriSeeds, Inc.
OQ403	PI559920:250041691		X		Pioneer3901 x K81-336	United AgriSeeds, Inc.
OQ603	PI601584:250032547		X		pioneer3713	United AgriSeeds, Inc.
OS420	NSL65874:250033613		X		Osterland Yellow Dent	Iowa Agricultural Experiment Station
PB80	PI601441:250031013		X		(1067-1 x B73) x B73	Dekalb-Pfizer Genetics
PH207	PI601005:250032182		X	X	G3BD2 x G3RZ1	Pioneer Hi-Bred International, Inc
PHB09	PI601007:250032260		X		555 x 031	Pioneer Hi-Bred International, Inc
PHB47	PI601009:250031950		X		B37 x SD105	Pioneer Hi-Bred International, Inc
PHBA6	PI559935:250041542		X		PHZ51 x PHG47	Pioneer Hi-Bred International, Inc
PHG29	PI601270:250033857	X			(207x806)x207	Pioneer Hi-Bred International, Inc
PHG35	PI601008:250041688		X		G3BD2 x H7F56	Pioneer Hi-Bred International, Inc
PHG39	PI600981:250033863		X	X	A33GB4 x A34CB4	Pioneer Hi-Bred International, Inc
PHG47	PI601318:250033667	X			O41 x MKSDTE C10	Pioneer Hi-Bred International, Inc
PHG50	PI601006:250031516		X		848 x 207	Pioneer Hi-Bred International, Inc
PHG71	PI601150:250032418		X		A632 x 207	Pioneer Hi-Bred International, Inc
PHG72	PI601319:250032442		X		891 x 207	Pioneer Hi-Bred International, Inc
PHG80	PI601037:250031660		X		495 x 331	Pioneer Hi-Bred International, Inc
PHG84	PI601320:250034941		X		848 x 595	Pioneer Hi-Bred International, Inc
PHG86	PI601442:250034937		X		B64 x B73	Pioneer Hi-Bred International, Inc
PHH93	PI601567:250031452		X		PHJ29 x PHBT4	Pioneer Hi-Bred International, Inc
PHJ31	PI601773:250031508		X		B97 x 595	Pioneer Hi-Bred International, Inc

PHJ33	PI601774:250033402		X	PHG83 x CE18	Pioneer Hi-Bred Internatinal, Inc
PHJ40	PI601321:250032397	X		B09 x B36	Pioneer Hi-Bred Internatinal, Inc
PHJ70	PI601775:250033835		X	AC26 x B73	Pioneer Hi-Bred Internatinal, Inc
PHJ75	PI601776:250032561	X		207 x G96	Pioneer Hi-Bred Internatinal, Inc
PHJ90	PI548799:250041728		X	G50 x PHK42	Pioneer Hi-Bred Internatinal, Inc
PHK05	PI601467:250035253	X		PHR73 x PHT10	Pioneer Hi-Bred Internatinal, Inc
PHK29	PI601468:250034700		X	B47 x AC54	Pioneer Hi-Bred Internatinal, Inc
PHK35	PI601777:250031875		X	AC34 x G93H	Pioneer Hi-Bred Internatinal, Inc
PHK46	PI543841-1:250034575		X	PHG65 x PH207	Pioneer Hi-Bred Internatinal, Inc
PHK93	PI548800:250041668		X	PHB72 x PHT60	Pioneer Hi-Bred Internatinal, Inc
PHM10	PI601778:250034821		X	PHK70 x PHG96	Pioneer Hi-Bred Internatinal, Inc
PHN11	PI601497:250030994		X	PHG72 x PHG68	Pioneer Hi-Bred Internatinal, Inc
PHN29	PI601780:250031918		X	207 x (207 x 806)	Pioneer Hi-Bred Internatinal, Inc
PHN34	PI543843:250041671		X	G69 x G40	Pioneer Hi-Bred Internatinal, Inc
PHN73	PI601782:250041689		X	041 x G35	Pioneer Hi-Bred Internatinal, Inc
PHP02	PI601570:250032468		X	PHG44 x PHG29	Pioneer Hi-Bred Internatinal, Inc
PHP55	PI601784:250031952		X	G44 x PHG29	Pioneer Hi-Bred Internatinal, Inc
PHP76	PI543846:250041669		X	G50 x PHEJ8	Pioneer Hi-Bred Internatinal, Inc
PHP85	PI559944:250041729		X	PHK29 x PHW52	Pioneer Hi-Bred Internatinal, Inc
PHPR5	PI559945:250041619		X	PHK76 x PHW52	Pioneer Hi-Bred Internatinal, Inc
PHR25	PI601469:250031184	X		B83 x 207	Pioneer Hi-Bred Internatinal, Inc
PHR30	PI559946:250041675		X	PHFM5 x PHG47	Pioneer Hi-Bred Internatinal, Inc
PHR32	PI601571:250034996		X	PHB82 x PHG61	Pioneer Hi-Bred Internatinal, Inc
PHR36	PI601361:250035224		X	(203 x 549) x 549 white	Pioneer Hi-Bred Internatinal, Inc
PHR47	PI601572:250033785		X	G39 x PHB49	Pioneer Hi-Bred Internatinal, Inc
PHR58	PI548805:250041567		X	PH383 x PHG16	Pioneer Hi-Bred Internatinal, Inc
PHR62	PI601786:250031411		X	G50 x G35	Pioneer Hi-Bred Internatinal, Inc
PHT10	PI601573:250035223		X	B73 x G39	Pioneer Hi-Bred Internatinal, Inc
PHT22	PI601788:250031142		X	207 x HD12	Pioneer Hi-Bred Internatinal, Inc
PHT55	PI601498:250033853		X	A33GB4 x A34CB4	Pioneer Hi-Bred Internatinal, Inc
PHT60	PI601574:250035000		X	PHW94 x PHV80	Pioneer Hi-Bred Internatinal, Inc
PHT69	PI559949:250041655		X	PHR73 x PHJ40	Pioneer Hi-Bred Internatinal, Inc
PHT77	PI601499:250031159		X	814 x 995	Pioneer Hi-Bred Internatinal, Inc
PHV07	PI543847-1:250034543		X	PHG41 x PHG21	Pioneer Hi-Bred Internatinal, Inc
PHV37	PI601789:250033443		X	G27 x G21	Pioneer Hi-Bred Internatinal, Inc
PHV53	PI559952:250041712		X	PHB89 x PHDT2	Pioneer Hi-Bred Internatinal, Inc
PHV78	PI601470:250031962		X	G42 x 595	Pioneer Hi-Bred Internatinal, Inc
PHVA9	PI559953:250041592		X	PHK29 x PHGP8	Pioneer Hi-Bred Internatinal, Inc
PHW17	PI601362:250031285		X	(1D11 x B73) x ((B73 x 051)xB73^2) white	Pioneer Hi-Bred Internatinal, Inc
PHW20	PI601791:250034985		X	(1D11 x 1M12 ) x B76 white	Pioneer Hi-Bred Internatinal, Inc
PHW43	PI601792:250035083		X	995 x G35	Pioneer Hi-Bred Internatinal, Inc
PHW51	PI543849-1:250034572		X	PHDF2 x PHG41	Pioneer Hi-Bred Internatinal, Inc
PHW65	PI543850-1:250034618		X	861 x 595	Pioneer Hi-Bred Internatinal, Inc
PHW79	PI601501:250031271		X	PHT90 x PH595	Pioneer Hi-Bred Internatinal, Inc
PHW86	PI601576:250031247		X	PHG71 x PHG72	Pioneer Hi-Bred Internatinal, Inc
PHWG5	PI559954:250041657		X	PH814 x PHG16	Pioneer Hi-Bred Internatinal, Inc
S8324	PI601611:250032552	X		CH593-9 x B73	Northrop, King & Company
S8326	PI601612:250031380	X		(W117 x Mo17) x Mo17	Northrop, King & Company
W64A	NSL30058:250033846		X	Wf9 x C.I.187-2	Wisconsin
Wf9	Wf9:250040168	X		Reid Yellow Dent (Indiana Stn Strain)	Purdue University