

2011

Marker Reports for all Alleles

Eastern Regional Nurseries

**Northern Uniform Winter Wheat Scab Nursery
Preliminary Northern Uniform Winter Wheat Scab Nursery
Uniform Southern FHB Nursery**

Eastern Regional Small Grains Genotyping Lab

Collaborator: Gina Brown-Guedira

USDA-ARS

Notes

"nd" = not determined or lack of amplification

if marker is dominant, samples with no amplification are left blank or **

"?" indicates that markers may not be diagnostic or data was not clear; therefore, can not be sure if gene is present or not

All numbers are size in base pairs of amplified fragments

Target alleles are in **bold or bold italics**

NT = marker Not Tested on those samples

Rht = dwarfing allele = yes

Ppd-D1a = photoperiod insensitive = yes

Texture for **pina_taqman =AlleleX= yes=hard**

Texture for **pinb D1a-b_taqman = AlleleY=D1a=soft; pinb D1a-d_taqman=BothAlleles=D1a=soft**

* pedigrees, contributors and other notes that were available, are at the far right side of the tables

2011 Cooperative Scab Nurseries

ID	Year	Nursery	Entry	Sample Name	Pedigree	Contributor	Plant Source	1st Yr in Nursery
A000764	2011	NUWWSN	1	ERNIE	seed from 2011 PNUWWSN envelope	Sneller	AAA	
A000765	2011	NUWWSN	2	TRUMAN		Sneller	AAA	
A000766	2011	NUWWSN	3	FREEDOM		Sneller	AAA	
A000767	2011	NUWWSN	4	PIONEER2545		Sneller	AAA	
A000768	2011	NUWWSN	5	NY99066-3025	NY87048W-7387/Mendon	Sneller	COR	
A000769	2011	NUWWSN	6	OH751	10584-08-01 (IN71761a4-31-5-33 / MO55-286-21) / Coker9663 (IN71761A4-31-5-48 / FL 302)	Sneller	COR	
A000770	2011	NUWWSN	7	NY99068-383	NY87048W-7387/P25W33	Sneller	COR	
A000771	2011	NUWWSN	8	NY93246SP-6093	Harus/3/92145:91009(Geneva/U1273-5-18-8)/NY73116-4W	Sneller	COR	
A000772	2011	NUWWSN	9	E6012	Caledonia / Pioneer Brand 25W33	Sneller	MSU	
A000773	2011	NUWWSN	10	E6032	Pioneer Brand 25W33 / Pioneer Brand 2552	Sneller	MSU	
A000774	2011	NUWWSN	11	E9022R	Pioneer Brand 2552/D8006	Sneller	MSU	
A000775	2011	NUWWSN	12	E9024R	Pioneer Brand 2552/Pioneer Brand 25R18	Sneller	MSU	
A000776	2011	NUWWSN	13	OH05-200-74	OH629/HOPEWELL	Sneller	OSU	
A000777	2011	NUWWSN	14	OH06-150-57	P.92201D5-2-29/OH708	Sneller	OSU	
A000778	2011	NUWWSN	15	OH06-180-57	KY90C-042-37-1/OH687	Sneller	OSU	
A000779	2011	NUWWSN	16	OH07-98-21	FOSTER / IL95-947	Sneller	OSU	
A000780	2011	NUWWSN	17	OH07-166-49	OH708 / OH684	Sneller	OSU	
A000781	2011	NUWWSN	18	03633A1--5	992059/INW0316//981358/97462	Sneller	PUR	
A000782	2011	NUWWSN	19	04704A1--1	INW0316/INW0304//9346/INW0301	Sneller	PUR	
A000783	2011	NUWWSN	20	04606A1--7	Truman/INW0316	Sneller	PUR	
A000784	2011	NUWWSN	21	05247A1--3	99840*2/03726//99794	Sneller	PUR	
A000785	2011	NUWWSN	22	05264A1--2	INW0304*2/03727/5/96169/3/Tadinia/BH1146//Geneva/4/INW0316	Sneller	PUR	
A000786	2011	NUWWSN	23	M05-1526	FFR502/P931765C-H21	Sneller	SYN	
A000787	2011	NUWWSN	24	M08*8005#	BRANSON/M99*3098	Sneller	SYN	
A000788	2011	NUWWSN	25	M08-8036#	COKER 9511/BRANSON	Sneller	SYN	
A000789	2011	NUWWSN	26	M08-8214	COOPER/PIO2552	Sneller	SYN	
A000790	2011	NUWWSN	27	M08-8349	M99-2418/PATTON	Sneller	SYN	
A000791	2011	NUWWSN	28	RCUOG1	Vienna x AC F1 19/4C	Sneller	UGR	
A000792	2011	NUWWSN	29	RCUOG2	RCL33xRCS 115	Sneller	UGR	
A000793	2011	NUWWSN	30	RCUOG3	Bezostaja x DH TF 203/2	Sneller	UGR	
A000794	2011	NUWWSN	31	RCUOG4	23/3 X Amigo	Sneller	UGR	
A000795	2011	NUWWSN	32	RCUOG5	TF174 x SD97060	Sneller	UGR	
A000796	2011	NUWWSN	33	IL06-14262	IL00-8530 /IL97-1828	Sneller	UIL	
A000797	2011	NUWWSN	34	IL06-14325	IL 00-8530 / IL97-1828	Sneller	UIL	
A000798	2011	NUWWSN	35	IL06-13721	IL00-8530 / IL97-3632	Sneller	UIL	
A000799	2011	NUWWSN	36	IL06-13708	IL00-8530 / IL97-3632	Sneller	UIL	
A000800	2011	NUWWSN	37	IL04-24668	IL98-13404 / IL97-3578	Sneller	UIL	
A000801	2011	NUWWSN	38	KY02C-1002-06	KY93C-0876-66-1//Tribute /KY92C-0168-95	Sneller	UKY	
A000802	2011	NUWWSN	39	KY03C-1237-32	25R18/92C-0017-17//KY96C-0767-1	Sneller	UKY	
A000803	2011	NUWWSN	40	KY02C-2216-05	Tribute/25W60	Sneller	UKY	
A000804	2011	NUWWSN	41	KY03C-1075-04	25R44/Tribute//KY96C-0769-3	Sneller	UKY	
A000805	2011	NUWWSN	42	KY-03C-2047-06	Roane/McCormick	Sneller	UKY	
A000806	2011	NUWWSN	43	MD03W485-10-9	USG3209/TRIBUTE//MD71-5(USG3342"S")	Sneller	UMD	
A000807	2011	NUWWSN	44	MD03W61-10-2	25R42/CHESAPEAKE	Sneller	UMD	
A000808	2011	NUWWSN	45	MD03W69-15	McCormick/25R42	Sneller	UMD	

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ID	Year	Nursery	Entry	Sample Name	Pedigree	Contributor	Plant Source	1st Yr in Nursery
A000809	2011	NUWWSN	46	MD03W61-09-7	25R42/CHESAPEAKE	Sneller	UMD	
A000810	2011	NUWWSN	47	MO080104	L910097/MO 92-599	Sneller	UMO	
A000811	2011	NUWWSN	48	MO081652	Pioneer 2552/MO 980829	Sneller	UMO	
A000812	2011	NUWWSN	49	MO080589	KY 90C-383-18-1/IL 94-1653	Sneller	UMO	
A000813	2011	NUWWSN	50	MO081777	Pioneer 2552/MO 980829	Sneller	UMO	
A000814	2011	NUWWSN	51	MO080789	MO 980525//MO 981020/IL95-4162	Sneller	UMO	
A000815	2011	NUWWSN	52	NE01481		Sneller	UNE	
A000816	2011	NUWWSN	53	NE02558		Sneller	UNE	
A000817	2011	NUWWSN	54	NE05548		Sneller	UNE	
A000818	2011	NUWWSN	55	NE06469		Sneller	UNE	
A000819	2011	NUWWSN	56	NE07444		Sneller	UNE	
A000820	2011	NUWWSN	57	VA08W-176	KY96C-0079-5(2552/FFR525//2552/ FFR 555W) / McCORMICK,F9	Sneller	VAT	
A000821	2011	NUWWSN	58	VA08W-294	SS 520(VA96W-158=FFR555W/ GORE)/ VA99W-188[91-54-343 (IN71761A4-31-5-48 //71-54-147/ MCN1813)/ ROANE"S" (91-54-222)] //TRIBUTE,F9	Sneller	VAT	
A000822	2011	NUWWSN	59	VA09W-657	NEUSE/ VA99W-200[91-54-343 (IN71761A4-31-5-48//71-54-147/ MCN1813)/Roane"S" (91-54-222)] //McCORMICK,F10	Sneller	VAT	
A000823	2011	NUWWSN	60	VA09W-659	NEUSE/ VA99W-200[91-54-343 (IN71761A4-31-5-48//71-54-147/ MCN1813)/Roane"S" (91-54-222)] //McCORMICK,F10	Sneller	VAT	
A000824	2011	PNUWWSN	1	ERNIE		Sneller	AAA	
A000825	2011	PNUWWSN	2	TRUMAN		Sneller	AAA	
A000826	2011	PNUWWSN	3	FREEDOM		Sneller	AAA	
A000827	2011	PNUWWSN	4	PIONEER2545		Sneller	AAA	
A000828	2011	PNUWWSN	5	E9020R	Pioneer Brand 2552/D8006	Sneller	MSU	
A000829	2011	PNUWWSN	6	E9021R	Pioneer Brand 2552/D8006	Sneller	MSU	
A000830	2011	PNUWWSN	7	E9009	D6234/E0029	Sneller	MSU	
A000831	2011	PNUWWSN	8	M09-9804#	TRUMAN/COKER 9511	Sneller	SYN	
A000832	2011	PNUWWSN	9	OH07-166-41	OH708 / OH684	Sneller	OSU	
A000833	2011	PNUWWSN	10	OH07-254-11	OH728 / VA97W-361WS	Sneller	OSU	
A000834	2011	PNUWWSN	11	OH07-263-3	OH748 / BRAVO	Sneller	OSU	
A000835	2011	PNUWWSN	12	OH08-133-25	HONEY / COKER 9663	Sneller	OSU	
A000836	2011	PNUWWSN	13	OH08-269-58	P.92226E2-5-3 / OH708	Sneller	OSU	
A000837	2011	PNUWWSN	14	05251A1--5	INW0412*2/03705//981312	Sneller	PUR	
A000838	2011	PNUWWSN	15	05269A1--1	INW0316*2//INW0304/9346/3/Arina/INW0301//M-6synthStb8/981004	Sneller	PUR	
A000839	2011	PNUWWSN	16	06497A1--3	INW0412/B990081//0128	Sneller	PUR	
A000840	2011	PNUWWSN	17	0711A1--1	92829/A941048/3/Gfd/X117//Roane/92145	Sneller	PUR	
A000841	2011	PNUWWSN	18	0724B1--13	INW0731/OH904	Sneller	PUR	
A000842	2011	PNUWWSN	19	M08-8352	M99-2418/PATTON	Sneller	SYN	
A000843	2011	PNUWWSN	20	IL07-4348	P96169RE2-3-6-4 / IL01-34159	Sneller	UIL	
A000844	2011	PNUWWSN	21	IL07-4415	P96169RE2-3-6-4 / IL01-34159	Sneller	UIL	
A000845	2011	PNUWWSN	22	IL07-7525	IL97-1828 / IL99-12976	Sneller	UIL	
A000846	2011	PNUWWSN	23	IL07-14547	IL01-5642 / IL01-3570	Sneller	UIL	
A000847	2011	PNUWWSN	24	IL07-19334	IL01-36115 / IL79-008T-B-B	Sneller	UIL	
A000848	2011	PNUWWSN	25	KY-03C-2047-07	Roane/McCormick	Sneller	UKY	
A000849	2011	PNUWWSN	26	KY04C-2023-18	VA97W-375WS/Truman	Sneller	UKY	
A000850	2011	PNUWWSN	27	KY04C-2034-2	Truman/KY93C-1238-17-5	Sneller	UKY	

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ID	Year	Nursery	Entry	Sample Name	Pedigree	Contributor	Plant Source	1st Yr in Nursery
A000851	2011	PNUWWSN	28	KY04C-2034-3	Truman/KY93C-1238-17-5	Sneller	UKY	
A000852	2011	PNUWWSN	29	KY04C-2034-4	Truman/KY93C-1238-17-5	Sneller	UKY	
A000853	2011	PNUWWSN	30	MO080241	MO 980521/MO 971215	Sneller	UMO	
A000854	2011	PNUWWSN	31	MO090862	MO 980725/Sumai 3	Sneller	UMO	
A000855	2011	PNUWWSN	32	MO090577	L910097/MO 92-599	Sneller	UMO	
A000856	2011	PNUWWSN	33	MO090812	MO 980829//MO 980725/IL95-4162	Sneller	UMO	
A000857	2011	PNUWWSN	34	MO091122	Ernie/Colorben 4	Sneller	UMO	
A000858	2011	PNUWWSN	35	VA08W-632	OH 552(P71761A4-31-5-33/MD55-286-21: FHB-RES)/SS550 (VA96W-247=CK9803/FREEDOM)//RC STRATEGY [VA98W-586=92-51-39 (IN71761A4-31-5-48//71-54-147/MCN1813)/ Roane"S" (91-54-219)], F11	Sneller	VAT	
A000859	2011	PNUWWSN	36	VA09W-608	97397B1-4-5(Fdm//Clk*4/N7840/3/ Gfd/Clk*4/N7840)/McCORMICK//B980582(L881061/L880436),F9	Sneller	VAT	
A000860	2011	PNUWWSN	37	VA09W-635	COKER 9474(SCAB RES)/ McCormick "S" (VA98W-590) // ERNIE,F10	Sneller	VAT	
A000861	2011	PNUWWSN	38	VA09W-636	ERNIE/ NC96-13374(SCAB RES) //McCORMICK,F10	Sneller	VAT	
A000862	2011	PNUWWSN	39	VA09W-644	ERNIE/ NC96-13374(SCAB RES) //McCORMICK,F10	Sneller	VAT	
A000863	2011	PNUWWSN	40	VA09W-654	VA98W-749[GA821066-1-7-2-1 (GA73054//STACY/AL"S")//CK9803/ FREEDOM]/IL96-3073(SCAB RES) //9793A1-5 (INW9853/INW9811// ERNIE),F10	Sneller	VAT	
A000864	2011	USFHBN	1	ERNIE	<i>Pike /3/ Stoddard / Blueboy // Stoddard D1707</i>	Murphy	CHECK (RES)	1999-00
A000865	2011	USFHBN	2	COKER 9835	<i>CK68-19 // CK61-19*3 / IN4946A4-18-2-10-2 /4/ Bb /3/ CK65-20*5 / W17-TRANS // TIFT /5/ P 2550</i>	Murphy	CHECK (SUS)	2000-01
A000866	2011	USFHBN	3	BESS	<i>MO11769/Madison</i>	Murphy	CHECK (RES)	2006-07
A000867	2011	USFHBN	4	JAMESTOWN	<i>Roane / Pioneer 2691</i>	Murphy	Check (RES)	2007-08
A000868	2011	USFHBN	5	ARS04-1267	<i>KS98HW151-6/KS00HW120</i>	Murphy	Marshall	2009-10
A000869	2011	USFHBN	6	M08*8005#	<i>BRANSON/M99*3098</i>	Murphy	Fogleman	2009-10
A000870	2011	USFHBN	7	MD03W61-09-1	<i>Pio25R42/Chesapeake</i>	Murphy	Costa	2009-10
A000871	2011	USFHBN	8	VA09W-641	<i>Ernie / NC96-13374 // McCormick</i>	Murphy	Griffey	2009-10
A000872	2011	USFHBN	9	ARGE04-1163-44	<i>Freedom/Catbird//Mason/Catbird</i>	Murphy	Milus	2010-11
A000873	2011	USFHBN	10	ARGE04-1163-67	<i>Freedom/Catbird//Mason/Catbird</i>	Murphy	Milus	2010-11
A000874	2011	USFHBN	11	ARS07-0245	<i>FL9567/TX99D4628</i>	Murphy	Marshall	2010-11
A000875	2011	USFHBN	12	ARS07-0262	<i>FL95A331/Terrenzio17077-2</i>	Murphy	Marshall	2010-11
A000876	2011	USFHBN	13	ARS07-0404	<i>GA951079-3-5/NC96BGTD3</i>	Murphy	Marshall	2010-11
A000877	2011	USFHBN	14	ARS07-0609	<i>GA961662-1-7/B980582</i>	Murphy	Marshall	2010-11
A000878	2011	USFHBN	15	ARS07-1227	<i>McCormick/Trego</i>	Murphy	Marshall	2010-11
A000879	2011	USFHBN	16	ARS07-1243	<i>NC00-14622/2137</i>	Murphy	Marshall	2010-11
A000880	2011	USFHBN	17	ARS08-0114	<i>TX99D4441/TAM303</i>	Murphy	Marshall	2010-11
A000881	2011	USFHBN	18	B050154	<i>HOPEWELL/BL920520</i>	Murphy	Hancock	2010-11
A000882	2011	USFHBN	19	B070495	<i>PIO 26R24/BL940026</i>	Murphy	Hancock	2010-11
A000883	2011	USFHBN	20	B070678	<i>D97*6940/PATTON</i>	Murphy	Hancock	2010-11
A000884	2011	USFHBN	21	B070738	<i>D99-5003/NATCHEZ</i>	Murphy	Hancock	2010-11
A000885	2011	USFHBN	22	GA04496-S6	<i>VA01W-476/AGS 2485/3/AGS 2000//04400</i>	Murphy	Johnson	2010-11
A000886	2011	USFHBN	23	GA041273-S14	<i>AGS 2010/Truman</i>	Murphy	Johnson	2010-11
A000887	2011	USFHBN	24	GA041273-S15	<i>AGS 2010/Truman</i>	Murphy	Johnson	2010-11

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ID	Year	Nursery	Entry	Sample Name	Pedigree	Contributor	Plant Source	1st Yr in Nursery
A000888	2011	USFHBN	25	GA04496-S5	VA01W-476/AGS 2485/3/AGS 2000//04400	Murphy	Johnson	2010-11
A000889	2011	USFHBN	26	GA04496-S8	VA01W-476/AGS 2485/3/AGS 2000//04400	Murphy	Johnson	2010-11
A000890	2011	USFHBN	27	GA051173W-S11	Truman/AGS 2010	Murphy	Johnson	2010-11
A000891	2011	USFHBN	28	GA051173W-S12	Truman/AGS 2010	Murphy	Johnson	2010-11
A000892	2011	USFHBN	29	GA051173W-S13	Truman/AGS 2010	Murphy	Johnson	2010-11
A000893	2011	USFHBN	30	IL02-18228	Pio25R26/ IL9634-24437 (IL90-4813/IL85-3132//Ning 7840) // IL95-4162	Murphy	Kolb	2010-11
A000894	2011	USFHBN	31	LA03012E-50	LA92283C64-1/ARLA97-1047-4-2	Murphy	Harrison	2010-11
A000895	2011	USFHBN	32	LA03130E66	ARGE97-1033-14-2(MASON/CATBIRD)/LA9415D104-5-2(PU8686A1-8/CK9134//PIO2684)	Murphy	Milus / Harrison	2010-11
A000896	2011	USFHBN	33	LA03130E68	ARGE97-1033-14-2(MASON/CATBIRD)/LA95361CA8-2-2(FL302/KS93WGRC32)	Murphy	Milus	2010-11
A000897	2011	USFHBN	34	LA03131E-1	ARGE97-1033-14-2/95361CA8-2-2	Murphy	Milus	2010-11
A000898	2011	USFHBN	35	LA03131E-7	ARGE97-1033-14-2/95361CA8-2-2	Murphy	Milus / Harrison	2010-11
A000899	2011	USFHBN	36	LA03135E-39	ARGM97-1047-4-2/NC98-26192 (5AE)	Murphy	Harrison	2010-11
A000900	2011	USFHBN	37	LA03136E71	ARLA97-1047-4-2(P2684/3/N7840//PARULA/VEERY#6)/LA95125BUB73-1	Murphy	Harrison	2010-11
A000901	2011	USFHBN	38	LA06148C-P30	JAMESTOWN/LA95135	Murphy	Harrison	2010-11
A000902	2011	USFHBN	39	M05-1526	FFR502/P931765C-H21	Murphy	Fogleman	2010-11
A000903	2011	USFHBN	40	M08-8036#_	COKER 9511/BRANSON	Murphy	Fogleman	2010-11
A000904	2011	USFHBN	41	MD03W61-09-7	McCormick/Pio25R42	Murphy	Costa	2010-11
A000905	2011	USFHBN	42	MD03W61-10-2	Pio25R42/Chesapeake	Murphy	Costa	2010-11
A000906	2011	USFHBN	43	MD03W665-10-5	USG3209/TRIBUTE//CHESAPEAKE	Murphy	Costa	2010-11
A000907	2011	USFHBN	44	MD03W69-15	Pio25R42/Chesapeake	Murphy	Costa	2010-11
A000908	2011	USFHBN	45	NC05-15-99	NC99-13022*2 / PI 382167	Murphy	Murphy	2010-11
A000909	2011	USFHBN	46	NC05-39-314	NC99-13022*2 / PI 611899 (Sando)	Murphy	Murphy	2010-11
A000910	2011	USFHBN	47	NC05-39-337	NC99-13022*2 / PI 611899 (Sando)	Murphy	Murphy	2010-11
A000911	2011	USFHBN	48	NC05-39-349	NC99-13022*2 / PI 611899 (Sando)	Murphy	Murphy	2010-11
A000912	2011	USFHBN	49	NC05-39-354	NC99-13022*2 / PI 611899 (Sando)	Murphy	Murphy	2010-11
A000913	2011	USFHBN	50	NC05-39-370	NC99-13022*2 / PI 611899 (Sando)	Murphy	Murphy	2010-11
A000914	2011	USFHBN	51	NC05-39-380	NC99-13022*2 / PI 611899 (Sando)	Murphy	Murphy	2010-11
A000915	2011	USFHBN	52	NC06-16-26-988	Frontana / *2 NC99-13022 // NC-Neuse*3 / LDN(3ADIC)	Murphy	Murphy	2010-11
A000916	2011	USFHBN	53	NC99-13022	Susceptible Recurrent Parent	Murphy	Murphy	2010-11
A000917	2011	USFHBN	54	VA05W-251	VA98W-130 // VA96W-348 / Pioneer 26R61	Murphy	Griffey	2010-11
A000918	2011	USFHBN	55	VA08W-176	KY96C-0079-5 / McCormick	Murphy	Griffey	2010-11
A000919	2011	USFHBN	56	VA08W-193	AGS2000 / USG 3706 (VA98W-706) // Dominion	Murphy	Griffey	2010-11
A000920	2011	USFHBN	57	VA08W-294	SS520 / VA99W-188 // Tribute	Murphy	Griffey	2010-11
A000921	2011	USFHBN	58	VA08W-613	Freedom / Neuse "S" // VA98W-688	Murphy	Griffey	2010-11
A000922	2011	USFHBN	59	VA09W-623	NC96-13374 / Ceruga5 // McCormick "S"	Murphy	Griffey	2010-11
A000923	2011	USFHBN	60	VA09W-656	Neuse / VA99W-200 // McCormick	Murphy	Griffey	2010-11

2011 Cooperative Scab Nurseries					Dwarfing alleles			Photoperiod Insensitive	Vernalization
ID	Year	Nursery	Entry	Sample Name	Rht-B1b	Rht-D1b	Rht8c	Ppd-D1a	vrn-A1
A000764	2011	NUWWSN	1	ERNIE	Rht-B1b	no	no	Ppd-D1a insens het	vrn-A1 long
A000765	2011	NUWWSN	2	TRUMAN	Rht-B1b	no	no	no	vrn-A1 long
A000766	2011	NUWWSN	3	FREEDOM	Rht-B1b	no	no	no	vrn-A1 long
A000767	2011	NUWWSN	4	PIONEER2545	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000768	2011	NUWWSN	5	NY99066-3025	no	Rht-D1b	no	no	vrn-A1 long
A000769	2011	NUWWSN	6	OH751	no	no	no	no	vrn-A1 long
A000770	2011	NUWWSN	7	NY99068-383	no	Rht-D1b	no	no	vrn-A1 long
A000771	2011	NUWWSN	8	NY93246SP-6093	no	Rht-D1b	no	no	vrn-A1 long
A000772	2011	NUWWSN	9	E6012	no	Rht-D1b het	no	Ppd-D1a insens	vrn-A1 long
A000773	2011	NUWWSN	10	E6032	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000774	2011	NUWWSN	11	E9022R	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000775	2011	NUWWSN	12	E9024R	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000776	2011	NUWWSN	13	OH05-200-74	Rht-B1b	no	no	no	vrn-A1 long
A000777	2011	NUWWSN	14	OH06-150-57	Rht-B1b	no	Rht8c	Ppd-D1a insens	vrn-A1 long
A000778	2011	NUWWSN	15	OH06-180-57	no	no	Rht8c	Ppd-D1a insens	vrn-A1 long
A000779	2011	NUWWSN	16	OH07-98-21	Rht-B1b	no	no	no	vrn-A1 long
A000780	2011	NUWWSN	17	OH07-166-49	Rht-B1b	no	Rht8c	Ppd-D1a insens	vrn-A1 long
A000781	2011	NUWWSN	18	03633A1--5	Rht-B1b	no	no	no	vrn-A1 long
A000782	2011	NUWWSN	19	04704A1--1	Rht-B1b	no	no	no	vrn-A1 long
A000783	2011	NUWWSN	20	04606A1--7	Rht-B1b	no	no	no	vrn-A1 long
A000784	2011	NUWWSN	21	05247A1--3	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000785	2011	NUWWSN	22	05264A1--2	Rht-B1b	no	no	no	vrn-A1 long
A000786	2011	NUWWSN	23	M05-1526	Rht-B1b	no	no	no	vrn-A1 long
A000787	2011	NUWWSN	24	M08*8005#	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000788	2011	NUWWSN	25	M08-8036#	no	no	no	Ppd-D1a insens	vrn-A1 long
A000789	2011	NUWWSN	26	M08-8214	no	no	no	Ppd-D1a insens	vrn-A1 long
A000790	2011	NUWWSN	27	M08-8349	Rht-B1b	no	no	no	vrn-A1 long
A000791	2011	NUWWSN	28	RCUOG1	Rht-B1b het	Rht-D1b het	no	no	vrn-A1 long
A000792	2011	NUWWSN	29	RCUOG2	Rht-B1b het	Rht-D1b het	no	Ppd-D1a insens het	vrn-A1 long
A000793	2011	NUWWSN	30	RCUOG3	no	no	Rht8c	no	vrn-A1 long
A000794	2011	NUWWSN	31	RCUOG4	no	Rht-D1b het	Rht8c het	no	vrn-A1 long
A000795	2011	NUWWSN	32	RCUOG5	Rht-B1b	no	no	nd	vrn-A1 long
A000796	2011	NUWWSN	33	IL06-14262	Rht-B1b	no	no	nd	vrn-A1 long
A000797	2011	NUWWSN	34	IL06-14325	Rht-B1b	no	no	no	vrn-A1 long
A000798	2011	NUWWSN	35	IL06-13721	Rht-B1b	no	no	no	vrn-A1 long
A000799	2011	NUWWSN	36	IL06-13708	Rht-B1b	no	no	no	vrn-A1 long
A000800	2011	NUWWSN	37	IL04-24668	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000801	2011	NUWWSN	38	KY02C-1002-06	Rht-B1b	no	no	no	vrn-A1 long
A000802	2011	NUWWSN	39	KY03C-1237-32	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000803	2011	NUWWSN	40	KY02C-2216-05	no	Rht-D1b	no	no	vrn-A1 long
A000804	2011	NUWWSN	41	KY03C-1075-04	no	Rht-D1b	no	no	vrn-A1 long
A000805	2011	NUWWSN	42	KY-03C-2047-06	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000806	2011	NUWWSN	43	MD03W485-10-9	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000807	2011	NUWWSN	44	MD03W61-10-2	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000808	2011	NUWWSN	45	MD03W69-15	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000809	2011	NUWWSN	46	MD03W61-09-7	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long

2011 Cooperative Scab Nurseries					Dwarfing alleles			Photoperiod Insensitive	Vernalization
ID	Year	Nursery	Entry	Sample Name	Rht-B1b	Rht-D1b	Rht8c	Ppd-D1a	vrn-A1
A000810	2011	NUWWSN	47	MO080104	no	no	no	Ppd-D1a insens	vrn-A1 long
A000811	2011	NUWWSN	48	MO081652	no	no	no	Ppd-D1a insens	vrn-A1 long
A000812	2011	NUWWSN	49	MO080589	Rht-B1b	no	no	no	vrn-A1 long
A000813	2011	NUWWSN	50	MO081777	no	no	no	Ppd-D1a insens het	vrn-A1 long
A000814	2011	NUWWSN	51	MO080789	Rht-B1b	no	no	no	vrn-A1 long
A000815	2011	NUWWSN	52	NE01481	Rht-B1b	no	no	no	vrn-A1 long
A000816	2011	NUWWSN	53	NE02558	Rht-B1b	no	no	no	vrn-A1 short
A000817	2011	NUWWSN	54	NE05548	Rht-B1b	no	no	no	vrn-A1 long
A000818	2011	NUWWSN	55	NE06469	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000819	2011	NUWWSN	56	NE07444	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000820	2011	NUWWSN	57	VA08W-176	no	Rht-D1b	no	no	vrn-A1 long
A000821	2011	NUWWSN	58	VA08W-294	no	Rht-D1b	no	no	vrn-A1 long
A000822	2011	NUWWSN	59	VA09W-657	no	Rht-D1b	no	Ppd-D1a insens het	vrn-A1 het
A000823	2011	NUWWSN	60	VA09W-659	no	Rht-D1b het	no	no	vrn-A1 long
A000824	2011	PNUWWSN	1	ERNIE	Rht-B1b	no	no	no	vrn-A1 long
A000825	2011	PNUWWSN	2	TRUMAN	Rht-B1b	no	no	no	vrn-A1 long
A000826	2011	PNUWWSN	3	FREEDOM	Rht-B1b	no	no	no	vrn-A1 long
A000827	2011	PNUWWSN	4	PIONEER2545	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000828	2011	PNUWWSN	5	E9020R	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000829	2011	PNUWWSN	6	E9021R	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000830	2011	PNUWWSN	7	E9009	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000831	2011	PNUWWSN	8	M09-9804#	Rht-B1b	no	no	no	vrn-A1 het
A000832	2011	PNUWWSN	9	OH07-166-41	Rht-B1b	no	Rht8c	Ppd-D1a insens	vrn-A1 long
A000833	2011	PNUWWSN	10	OH07-254-11	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000834	2011	PNUWWSN	11	OH07-263-3	no	no	no	no	vrn-A1 long
A000835	2011	PNUWWSN	12	OH08-133-25	no	no	no	no	vrn-A1 long
A000836	2011	PNUWWSN	13	OH08-269-58	Rht-B1b	no	Rht8c	Ppd-D1a insens	vrn-A1 long
A000837	2011	PNUWWSN	14	05251A1--5	Rht-B1b	no	no	no	vrn-A1 long
A000838	2011	PNUWWSN	15	05269A1--1	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000839	2011	PNUWWSN	16	06497A1--3	Rht-B1b	no	no	no	vrn-A1 long
A000840	2011	PNUWWSN	17	0711A1--1	Rht-B1b	no	no	Ppd-D1a insens het	vrn-A1 long
A000841	2011	PNUWWSN	18	0724B1--13	Rht-B1b	no	no	no	vrn-A1 long
A000842	2011	PNUWWSN	19	M08-8352	Rht-B1b	no	no	no	vrn-A1 long
A000843	2011	PNUWWSN	20	IL07-4348	Rht-B1b	no	no	no	vrn-A1 long
A000844	2011	PNUWWSN	21	IL07-4415	Rht-B1b	no	no	no	vrn-A1 long
A000845	2011	PNUWWSN	22	IL07-7525	Rht-B1b	no	no	no	vrn-A1 long
A000846	2011	PNUWWSN	23	IL07-14547	Rht-B1b	no	no	no	vrn-A1 long
A000847	2011	PNUWWSN	24	IL07-19334	Rht-B1b	no	no	Ppd-D1a insens het	vrn-A1 long
A000848	2011	PNUWWSN	25	KY-03C-2047-07	no	Rht-D1b het	no	Ppd-D1a insens het	vrn-A1 long
A000849	2011	PNUWWSN	26	KY04C-2023-18	Rht-B1b	no	no	no	vrn-A1 long
A000850	2011	PNUWWSN	27	KY04C-2034-2	Rht-B1b	no	Rht8c het	no	vrn-A1 long
A000851	2011	PNUWWSN	28	KY04C-2034-3	Rht-B1b	no	no	no	vrn-A1 long
A000852	2011	PNUWWSN	29	KY04C-2034-4	Rht-B1b	no	Rht8c	no	vrn-A1 long
A000853	2011	PNUWWSN	30	MO080241	Rht-B1b	no	no	Ppd-D1a insens het	vrn-A1 long
A000854	2011	PNUWWSN	31	MO090862	Rht-B1b	no	no	no	vrn-A1 short
A000855	2011	PNUWWSN	32	MO090577	no	no	no	Ppd-D1a insens	vrn-A1 long

2011 Cooperative Scab Nurseries					Dwarfing alleles			Photoperiod Insensitive	Vernalization
ID	Year	Nursery	Entry	Sample Name	Rht-B1b	Rht-D1b	Rht8c	Ppd-D1a	vrn-A1
A000856	2011	PNUWWSN	33	MO090812	Rht-B1b	no	no	no	vrn-A1 long
A000857	2011	PNUWWSN	34	MO091122	Rht-B1b	no	no	Ppd-D1a insens het	vrn-A1 long
A000858	2011	PNUWWSN	35	VA08W-632	no	Rht-D1b	no	no	vrn-A1 short
A000859	2011	PNUWWSN	36	VA09W-608	Rht-B1b	no	no	Ppd-D1a insens het	vrn-A1 long
A000860	2011	PNUWWSN	37	VA09W-635	no	no	no	no	vrn-A1 short
A000861	2011	PNUWWSN	38	VA09W-636	no	Rht-D1b	no	no	vrn-A1 long
A000862	2011	PNUWWSN	39	VA09W-644	no	Rht-D1b	no	no	vrn-A1 long
A000863	2011	PNUWWSN	40	VA09W-654	no	no	no	no	vrn-A1 short
A000864	2011	USFHBN	1	ERNIE	Rht-B1b	no	no	no	vrn-A1 short
A000865	2011	USFHBN	2	COKER 9835	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000866	2011	USFHBN	3	BESS	Rht-B1b	no	no	no	vrn-A1 long
A000867	2011	USFHBN	4	JAMESTOWN	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 short
A000868	2011	USFHBN	5	ARS04-1267	Rht-B1b	no	no	no	vrn-A1 long
A000869	2011	USFHBN	6	M08*8005#	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000870	2011	USFHBN	7	MD03W61-09-1	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000871	2011	USFHBN	8	VA09W-641	no	Rht-D1b	no	no	vrn-A1 long
A000872	2011	USFHBN	9	ARGE04-1163-44	Rht-B1b	no	no	no	vrn-A1 long
A000873	2011	USFHBN	10	ARGE04-1163-67	Rht-B1b	no	no	no	vrn-A1 long
A000874	2011	USFHBN	11	ARS07-0245	no	Rht-D1b	nd	no	vrn-A1 long
A000875	2011	USFHBN	12	ARS07-0262	no	no	Rht8c	Ppd-D1a insens	vrn-A1 long
A000876	2011	USFHBN	13	ARS07-0404	no	Rht-D1b	no	no	vrn-A1 short
A000877	2011	USFHBN	14	ARS07-0609	Rht-B1b	no	no	no	vrn-A1 long
A000878	2011	USFHBN	15	ARS07-1227	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000879	2011	USFHBN	16	ARS07-1243	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 short
A000880	2011	USFHBN	17	ARS08-0114	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000881	2011	USFHBN	18	B050154	no	Rht-D1b het	no	Ppd-D1a insens	vrn-A1 long
A000882	2011	USFHBN	19	B070495	Rht-B1b	no	nd	no	vrn-A1 short
A000883	2011	USFHBN	20	B070678	Rht-B1b	no	no	no	vrn-A1 long
A000884	2011	USFHBN	21	B070738	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000885	2011	USFHBN	22	GA04496-S6	no	Rht-D1b	no	no	vrn-A1 long
A000886	2011	USFHBN	23	GA041273-S14	no	Rht-D1b	no	no	vrn-A1 short
A000887	2011	USFHBN	24	GA041273-S15	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 long
A000888	2011	USFHBN	25	GA04496-S5	no	Rht-D1b	no	no	vrn-A1 long
A000889	2011	USFHBN	26	GA04496-S8	no	Rht-D1b	no	no	vrn-A1 long
A000890	2011	USFHBN	27	GA051173W-S11	no	Rht-D1b	no	no	vrn-A1 long
A000891	2011	USFHBN	28	GA051173W-S12	no	Rht-D1b	no	no	vrn-A1 long
A000892	2011	USFHBN	29	GA051173W-S13	no	Rht-D1b	no	no	vrn-A1 long
A000893	2011	USFHBN	30	IL02-18228	Rht-B1b	no	no	no	vrn-A1 long
A000894	2011	USFHBN	31	LA03012E-50	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 short
A000895	2011	USFHBN	32	LA03130E66	Rht-B1b	no	no	Ppd-D1a insens het	vrn-A1 het
A000896	2011	USFHBN	33	LA03130E68	Rht-B1b	no	no	Ppd-D1a insens	vrn-A1 short
A000897	2011	USFHBN	34	LA03131E-1	Rht-B1b	no	no	no	vrn-A1 long
A000898	2011	USFHBN	35	LA03131E-7	Rht-B1b	no	no	no	vrn-A1 long
A000899	2011	USFHBN	36	LA03135E-39	Rht-B1b	no	no	no	vrn-A1 long
A000900	2011	USFHBN	37	LA03136E71	Rht-B1b	no	no	no	vrn-A1 long
A000901	2011	USFHBN	38	LA06148C-P30	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long

2011 Cooperative Scab Nurseries					Dwarfing alleles			Photoperiod Insensitive	Vernalization
ID	Year	Nursery	Entry	Sample Name	Rht-B1b	Rht-D1b	Rht8c	Ppd-D1a	vrn-A1
A000902	2011	USFHBN	39	M05-1526	Rht-B1b	nd	no	no	vrn-A1 long
A000903	2011	USFHBN	40	M08-8036#__	no	no	no	Ppd-D1a insens	vrn-A1 long
A000904	2011	USFHBN	41	MD03W61-09-7	Rht-B1b het	Rht-D1b het	Rht8c het	Ppd-D1a insens het	vrn-A1 long
A000905	2011	USFHBN	42	MD03W61-10-2	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000906	2011	USFHBN	43	MD03W665-10-5	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000907	2011	USFHBN	44	MD03W69-15	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 long
A000908	2011	USFHBN	45	NC05-15-99	no	no	no	no	vrn-A1 long
A000909	2011	USFHBN	46	NC05-39-314	Rht-B1b	no	Rht8c	no	vrn-A1 short
A000910	2011	USFHBN	47	NC05-39-337	Rht-B1b	no	Rht8c	no	vrn-A1 short
A000911	2011	USFHBN	48	NC05-39-349	Rht-B1b	no	Rht8c	no	vrn-A1 short
A000912	2011	USFHBN	49	NC05-39-354	Rht-B1b	no	Rht8c	no	vrn-A1 short
A000913	2011	USFHBN	50	NC05-39-370	Rht-B1b	no	Rht8c	no	vrn-A1 short
A000914	2011	USFHBN	51	NC05-39-380	Rht-B1b	no	Rht8c	no	vrn-A1 short
A000915	2011	USFHBN	52	NC06-16-26-988	no	Rht-D1b	no	no	vrn-A1 long
A000916	2011	USFHBN	53	NC99-13022	no	Rht-D1b	no	no	vrn-A1 long
A000917	2011	USFHBN	54	VA05W-251	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 short
A000918	2011	USFHBN	55	VA08W-176	nd	Rht-D1b	no	no	nd
A000919	2011	USFHBN	56	VA08W-193	no	Rht-D1b	no	no	vrn-A1 long
A000920	2011	USFHBN	57	VA08W-294	no	Rht-D1b	no	no	vrn-A1 long
A000921	2011	USFHBN	58	VA08W-613	no	Rht-D1b	no	Ppd-D1a insens	vrn-A1 short
A000922	2011	USFHBN	59	VA09W-623	no	Rht-D1b	no	no	vrn-A1 long
A000923	2011	USFHBN	60	VA09W-656	no	Rht-D1b	no	no	vrn-A1 short

2011 Cooperative Scab Nurseries

Fusarium Head Blight alleles

ID	Year	Nursery	Entry	Sample Name	Fhb1	Fhb Ernie 3Bc	Fhb 2DL-Wuhan1/W14	Fhb 5A Ernie	Fhb 5A Ning7840
A000764	2011	NUWWSN	1	ERNIE	no	NT	nd	Fhb 5A Ernie het?	<i>no</i>
A000765	2011	NUWWSN	2	TRUMAN	no	NT	no	no	<i>no</i>
A000766	2011	NUWWSN	3	FREEDOM	no	NT	no	no	<i>no</i>
A000767	2011	NUWWSN	4	PIONEER2545	no	NT	no	no	<i>no</i>
A000768	2011	NUWWSN	5	NY99066-3025	no	NT	no	no	<i>no</i>
A000769	2011	NUWWSN	6	OH751	no	NT	no	no	<i>no</i>
A000770	2011	NUWWSN	7	NY99068-383	Fhb1	NT	no	no	<i>no</i>
A000771	2011	NUWWSN	8	NY93246SP-6093	no	NT	no	no	<i>no</i>
A000772	2011	NUWWSN	9	E6012	no	NT	no	Fhb 5A Ernie	<i>no</i>
A000773	2011	NUWWSN	10	E6032	no	NT	no	Fhb 5A Ernie	<i>no</i>
A000774	2011	NUWWSN	11	E9022R	no	NT	no	no	<i>no</i>
A000775	2011	NUWWSN	12	E9024R	no	NT	no	no	<i>no</i>
A000776	2011	NUWWSN	13	OH05-200-74	no	NT	no	no	<i>no</i>
A000777	2011	NUWWSN	14	OH06-150-57	no	NT	no	no	<i>no</i>
A000778	2011	NUWWSN	15	OH06-180-57	no	NT	no	no	Fhb 5A Ning7840?
A000779	2011	NUWWSN	16	OH07-98-21	no	NT	no	no	<i>no</i>
A000780	2011	NUWWSN	17	OH07-166-49	no	NT	no	no	<i>no</i>
A000781	2011	NUWWSN	18	03633A1--5	Fhb1	NT	no	no	<i>no</i>
A000782	2011	NUWWSN	19	04704A1--1	no	NT	no	no	<i>no</i>
A000783	2011	NUWWSN	20	04606A1--7	no	NT	no	no	<i>no</i>
A000784	2011	NUWWSN	21	05247A1--3	no	NT	no	Fhb 5A Ernie	<i>no</i>
A000785	2011	NUWWSN	22	05264A1--2	no	NT	no	no	<i>no</i>
A000786	2011	NUWWSN	23	M05-1526	no	NT	no	Fhb 5A Ernie	<i>no</i>
A000787	2011	NUWWSN	24	M08*8005#	no	NT	no	no	<i>no</i>
A000788	2011	NUWWSN	25	M08-8036#	no	NT	no	no	<i>no</i>
A000789	2011	NUWWSN	26	M08-8214	no	NT	no	no	<i>no</i>
A000790	2011	NUWWSN	27	M08-8349	no	NT	no	Fhb 5A Ernie	<i>no</i>
A000791	2011	NUWWSN	28	RCUOG1	no	NT	no	no	<i>no</i>
A000792	2011	NUWWSN	29	RCUOG2	no	NT	no	no	<i>no</i>
A000793	2011	NUWWSN	30	RCUOG3	Fhb1	NT	no	no	<i>no</i>
A000794	2011	NUWWSN	31	RCUOG4	no	NT	no	no	<i>no</i>
A000795	2011	NUWWSN	32	RCUOG5	no	NT	no	no	<i>no</i>
A000796	2011	NUWWSN	33	IL06-14262	no	NT	no	no	<i>no</i>
A000797	2011	NUWWSN	34	IL06-14325	no	NT	no	no	<i>no</i>
A000798	2011	NUWWSN	35	IL06-13721	no	NT	no	no	<i>no</i>
A000799	2011	NUWWSN	36	IL06-13708	no	NT	no	no	<i>no</i>
A000800	2011	NUWWSN	37	IL04-24668	no	NT	no	no	<i>no</i>
A000801	2011	NUWWSN	38	KY02C-1002-06	no	NT	no	no	<i>no</i>
A000802	2011	NUWWSN	39	KY03C-1237-32	Fhb1 het?	NT	no	no	<i>no</i>
A000803	2011	NUWWSN	40	KY02C-2216-05	no	NT	no	no	<i>no</i>
A000804	2011	NUWWSN	41	KY03C-1075-04	no	NT	no	no	<i>no</i>
A000805	2011	NUWWSN	42	KY-03C-2047-06	no	NT	no	no	<i>no</i>
A000806	2011	NUWWSN	43	MD03W485-10-9	no	NT	no	no	<i>no</i>
A000807	2011	NUWWSN	44	MD03W61-10-2	Fhb1	NT	no	no	<i>no</i>
A000808	2011	NUWWSN	45	MD03W69-15	Fhb1	NT	no	no	<i>no</i>
A000809	2011	NUWWSN	46	MD03W61-09-7	Fhb1	NT	no	no	<i>no</i>

2011 Cooperative Scab Nurseries

Fusarium Head Blight alleles

ID	Year	Nursery	Entry	Sample Name	Fhb1	Fhb Ernie 3Bc	Fhb 2DL-Wuhan1/W14	Fhb 5A Ernie	Fhb 5A Ning7840
A000810	2011	NUWWSN	47	MO080104	no	NT	no	no	no
A000811	2011	NUWWSN	48	MO081652	no	NT	no	no	no
A000812	2011	NUWWSN	49	MO080589	no	NT	no	no	no
A000813	2011	NUWWSN	50	MO081777	no	NT	no	no	no
A000814	2011	NUWWSN	51	MO080789	no	NT	no	no	no
A000815	2011	NUWWSN	52	NE01481	no	NT	no	no	no
A000816	2011	NUWWSN	53	NE02558	no	NT	no	no	no
A000817	2011	NUWWSN	54	NE05548	no	NT	no	no	no
A000818	2011	NUWWSN	55	NE06469	no	NT	no	no	no
A000819	2011	NUWWSN	56	NE07444	no	NT	no	no	no
A000820	2011	NUWWSN	57	VA08W-176	no	NT	no	no	no
A000821	2011	NUWWSN	58	VA08W-294	no	NT	no	no	no
A000822	2011	NUWWSN	59	VA09W-657	no	NT	no	no	no
A000823	2011	NUWWSN	60	VA09W-659	no	NT	no	Fhb 5A Ernie	no
A000824	2011	PNUWWSN	1	ERNIE	no	NT	nd	Fhb 5A Ernie	no
A000825	2011	PNUWWSN	2	TRUMAN	no	NT	no	no	no
A000826	2011	PNUWWSN	3	FREEDOM	no	NT	no	Fhb 5A Ernie	no
A000827	2011	PNUWWSN	4	PIONEER2545	no	NT	no	no	no
A000828	2011	PNUWWSN	5	E9020R	no	NT	no	no	no
A000829	2011	PNUWWSN	6	E9021R	no	NT	no	no	no
A000830	2011	PNUWWSN	7	E9009	no	NT	no	no	no
A000831	2011	PNUWWSN	8	M09-9804#	no	NT	no	no	no
A000832	2011	PNUWWSN	9	OH07-166-41	no	NT	no	no	no
A000833	2011	PNUWWSN	10	OH07-254-11	no	NT	no	no	no
A000834	2011	PNUWWSN	11	OH07-263-3	no	NT	no	no	no
A000835	2011	PNUWWSN	12	OH08-133-25	no	NT	no	no	no
A000836	2011	PNUWWSN	13	OH08-269-58	no	NT	no	no	no
A000837	2011	PNUWWSN	14	05251A1--5	no	NT	nd	Fhb 5A Ernie	no
A000838	2011	PNUWWSN	15	05269A1--1	no	NT	no	no	no
A000839	2011	PNUWWSN	16	06497A1--3	no	NT	no	no	no
A000840	2011	PNUWWSN	17	0711A1--1	Fhb1 het	NT	no	Fhb 5A Ernie	no
A000841	2011	PNUWWSN	18	0724B1--13	Fhb1 het	NT	no	no	no
A000842	2011	PNUWWSN	19	M08-8352	no	NT	no	Fhb 5A Ernie	no
A000843	2011	PNUWWSN	20	IL07-4348	Fhb1	NT	no	no	no
A000844	2011	PNUWWSN	21	IL07-4415	Fhb1	NT	no	no	no
A000845	2011	PNUWWSN	22	IL07-7525	no	NT	no	no	no
A000846	2011	PNUWWSN	23	IL07-14547	no	NT	nd	no	no
A000847	2011	PNUWWSN	24	IL07-19334	no	NT	no	no	no
A000848	2011	PNUWWSN	25	KY-03C-2047-07	no	NT	no	no	no
A000849	2011	PNUWWSN	26	KY04C-2023-18	no	NT	no	no	no
A000850	2011	PNUWWSN	27	KY04C-2034-2	no	NT	no	no	no
A000851	2011	PNUWWSN	28	KY04C-2034-3	no	NT	no	no	no
A000852	2011	PNUWWSN	29	KY04C-2034-4	no	NT	no	no	no
A000853	2011	PNUWWSN	30	MO080241	no	NT	no	no	no
A000854	2011	PNUWWSN	31	MO090862	no	NT	no	no	no
A000855	2011	PNUWWSN	32	MO090577	no	NT	no	no	no

2011 Cooperative Scab Nurseries

Fusarium Head Blight alleles

ID	Year	Nursery	Entry	Sample Name	Fhb1	Fhb Ernie 3Bc	Fhb 2DL-Wuhan1/W14	Fhb 5A Ernie	Fhb 5A Ning7840
A000856	2011	PNUWWSN	33	MO090812	no	NT	no	no	no
A000857	2011	PNUWWSN	34	MO091122	no	NT	no	Fhb 5A Ernie	no
A000858	2011	PNUWWSN	35	VA08W-632	no	NT	no	no	no
A000859	2011	PNUWWSN	36	VA09W-608	no	NT	no	no	no
A000860	2011	PNUWWSN	37	VA09W-635	no	NT	no	no	no
A000861	2011	PNUWWSN	38	VA09W-636	no	NT	no	no	no
A000862	2011	PNUWWSN	39	VA09W-644	no	NT	no	Fhb 5A Ernie	no
A000863	2011	PNUWWSN	40	VA09W-654	no	NT	no	no	no
A000864	2011	USFHBN	1	ERNIE	no	Fhb Ernie 3Bc	no	Fhb 5A Ernie	no
A000865	2011	USFHBN	2	COKER 9835	no	no	no	no	no
A000866	2011	USFHBN	3	BESS	no	no	no	no	no
A000867	2011	USFHBN	4	JAMESTOWN	no	no	no	no	no
A000868	2011	USFHBN	5	ARS04-1267	no	no	no	no	no
A000869	2011	USFHBN	6	M08*8005#	no	no	no	no	no
A000870	2011	USFHBN	7	MD03W61-09-1	Fhb1	no	no	no	no
A000871	2011	USFHBN	8	VA09W-641	no	no	no	Fhb 5A Ernie	no
A000872	2011	USFHBN	9	ARGE04-1163-44	no	no	no	no	Fhb 5A Ning7840?
A000873	2011	USFHBN	10	ARGE04-1163-67	no	no	no	no	no
A000874	2011	USFHBN	11	ARS07-0245	no	no	no	no	no
A000875	2011	USFHBN	12	ARS07-0262	no	no	no	no	no
A000876	2011	USFHBN	13	ARS07-0404	no	no	no	no	no
A000877	2011	USFHBN	14	ARS07-0609	no	no	no	no	no
A000878	2011	USFHBN	15	ARS07-1227	no	no	no	Fhb 5A Ernie	no
A000879	2011	USFHBN	16	ARS07-1243	no	no	no	no	no
A000880	2011	USFHBN	17	ARS08-0114	no	no	no	no	no
A000881	2011	USFHBN	18	B050154	no	no	no	no	no
A000882	2011	USFHBN	19	B070495	no	Fhb Ernie 3Bc?	no	no	no
A000883	2011	USFHBN	20	B070678	no	no	no	no	no
A000884	2011	USFHBN	21	B070738	no	no	no	no	no
A000885	2011	USFHBN	22	GA04496-S6	Fhb1	no	no	no	no
A000886	2011	USFHBN	23	GA041273-S14	no	no	no	Fhb 5A Ernie	no
A000887	2011	USFHBN	24	GA041273-S15	no	no	no	no	no
A000888	2011	USFHBN	25	GA04496-S5	Fhb1	no	no	no	no
A000889	2011	USFHBN	26	GA04496-S8	Fhb1	no	no	no	no
A000890	2011	USFHBN	27	GA051173W-S11	no	no	no	no	no
A000891	2011	USFHBN	28	GA051173W-S12	no	no	no	no	no
A000892	2011	USFHBN	29	GA051173W-S13	no	no	no	no	no
A000893	2011	USFHBN	30	IL02-18228	no	no	no	no	no
A000894	2011	USFHBN	31	LA03012E-50	no	no	no	no	no
A000895	2011	USFHBN	32	LA03130E66	no	no	Fhb 2DL-Wuhan1/W14 het	no	no
A000896	2011	USFHBN	33	LA03130E68	no	no	no	no	no
A000897	2011	USFHBN	34	LA03131E-1	no	no	no	no	no
A000898	2011	USFHBN	35	LA03131E-7	no	no	no	no	no
A000899	2011	USFHBN	36	LA03135E-39	no	no	no	Fhb 5A Ernie	no
A000900	2011	USFHBN	37	LA03136E71	no	no	no	no	no
A000901	2011	USFHBN	38	LA06148C-P30	no	no	no	no	no

2011 Cooperative Scab Nurseries

Fusarium Head Blight alleles

ID	Year	Nursery	Entry	Sample Name	Fhb1	Fhb Ernie 3Bc?	Fhb 2DL-Wuhan1/W14	Fhb 5A Ernie	Fhb 5A Ning7840
A000902	2011	USFHBN	39	M05-1526	nd	Fhb Ernie 3Bc?	no	nd	nd
A000903	2011	USFHBN	40	M08-8036#__	no	no	no	no	no
A000904	2011	USFHBN	41	MD03W61-09-7	Fhb1 het?	no	no	no	no
A000905	2011	USFHBN	42	MD03W61-10-2	Fhb1	no	no	no	no
A000906	2011	USFHBN	43	MD03W665-10-5	no	no	no	no	no
A000907	2011	USFHBN	44	MD03W69-15	Fhb1	no	no	no	no
A000908	2011	USFHBN	45	NC05-15-99	no	no	no	no	no
A000909	2011	USFHBN	46	NC05-39-314	no	no	no	no	no
A000910	2011	USFHBN	47	NC05-39-337	no	no	no	no	no
A000911	2011	USFHBN	48	NC05-39-349	no	no	no	no	no
A000912	2011	USFHBN	49	NC05-39-354	no	no	no	no	no
A000913	2011	USFHBN	50	NC05-39-370	no	no	no	no	no
A000914	2011	USFHBN	51	NC05-39-380	no	no	no	no	no
A000915	2011	USFHBN	52	NC06-16-26-988	no	no	no	Fhb 5A Ernie	no
A000916	2011	USFHBN	53	NC99-13022	no	no	no	no	no
A000917	2011	USFHBN	54	VA05W-251	no	no	no	no	no
A000918	2011	USFHBN	55	VA08W-176	no	no	no	no	no
A000919	2011	USFHBN	56	VA08W-193	no	no	no	no	no
A000920	2011	USFHBN	57	VA08W-294	no	no	no	no	no
A000921	2011	USFHBN	58	VA08W-613	no	no	no	no	no
A000922	2011	USFHBN	59	VA09W-623	no	no	no	no	no
A000923	2011	USFHBN	60	VA09W-656	no	no	no	no	no

2011 Cooperative Scab Nurseries

Leaf, Stem & Stripe Rusts and Powdery Mildew alleles

ID	Year	Nursery	Entry	Sample Name	Sr2	Sr36	Sr24/Lr24	Yr17/Lr37/Sr38	Lr34/Yr18	Lr9	Lr19/Sr25	Qyr.uga-2AS
A000856	2011	PNUWWSN	33	MO090812	no	no	no	no	no	no	no	no
A000857	2011	PNUWWSN	34	MO091122	no	Sr36 het	no	no	no	no	no	no
A000858	2011	PNUWWSN	35	VA08W-632	no	no	no	no	no	Lr9	no	no
A000859	2011	PNUWWSN	36	VA09W-608	no	Sr36	no	no	Lr34/Yr18 het	Lr9	no	no
A000860	2011	PNUWWSN	37	VA09W-635	no	Sr36	no	no	no	no	no	no
A000861	2011	PNUWWSN	38	VA09W-636	no	no	Sr24/Lr24	no	no	Lr9	no	no
A000862	2011	PNUWWSN	39	VA09W-644	no	Sr36 het	no	no	no	no	no	no
A000863	2011	PNUWWSN	40	VA09W-654	no	no	no	no	no	no	no	no
A000864	2011	USFHBN	1	ERNIE	no	Sr36	no	no	no	no	no	no
A000865	2011	USFHBN	2	COKER 9835	no	Sr36	no	no	no	Lr9	no	no
A000866	2011	USFHBN	3	BESS	no	no	no	no	no	no	no	no
A000867	2011	USFHBN	4	JAMESTOWN	no	no	no	no	no	no	no	no
A000868	2011	USFHBN	5	ARS04-1267	no	no	no	Yr17Lr37/Sr38 het	no	no	no	no
A000869	2011	USFHBN	6	M08*8005#	no	no	no	no	no	no	no	no
A000870	2011	USFHBN	7	MD03W61-09-1	no	no	no	no	no	no	no	no
A000871	2011	USFHBN	8	VA09W-641	no	no	no	no	no	Lr9	no	no
A000872	2011	USFHBN	9	ARGE04-1163-44	no	no	no	no	no	no	no	no
A000873	2011	USFHBN	10	ARGE04-1163-67	no	no	no	no	no	no	no	no
A000874	2011	USFHBN	11	ARS07-0245	no	no	no	Yr17Lr37/Sr38	no	no	no	no
A000875	2011	USFHBN	12	ARS07-0262	no	no	no	Yr17Lr37/Sr38	Lr34/Yr18	no	no	no
A000876	2011	USFHBN	13	ARS07-0404	no	Sr36 het	no	Yr17Lr37/Sr38 het	no	no	no	APR Yr P26R61 het
A000877	2011	USFHBN	14	ARS07-0609	no	Sr36	no	no	no	no	no	no
A000878	2011	USFHBN	15	ARS07-1227	no	Sr36	no	no	no	no	no	no
A000879	2011	USFHBN	16	ARS07-1243	no	no	no	Yr17Lr37/Sr38	no	no	no	no
A000880	2011	USFHBN	17	ARS08-0114	no	no	no	no	no	no	no	no
A000881	2011	USFHBN	18	B050154	no	no	no	no	no	no	no	no
A000882	2011	USFHBN	19	B070495	no	no	Sr24/Lr24	no	no	no	no	no
A000883	2011	USFHBN	20	B070678	no	no	Sr24/Lr24	no	no	Lr9	no	no
A000884	2011	USFHBN	21	B070738	no	no	no	no	no	no	no	no
A000885	2011	USFHBN	22	GA04496-S6	no	no	no	no	no	no	no	no
A000886	2011	USFHBN	23	GA041273-S14	no	no	no	no	no	no	no	no
A000887	2011	USFHBN	24	GA041273-S15	no	no	no	Yr17Lr37/Sr38	no	no	no	no
A000888	2011	USFHBN	25	GA04496-S5	no	no	no	no	no	no	no	no
A000889	2011	USFHBN	26	GA04496-S8	no	no	no	no	no	no	no	no
A000890	2011	USFHBN	27	GA051173W-S11	no	no	no	Yr17Lr37/Sr38	no	no	no	no
A000891	2011	USFHBN	28	GA051173W-S12	no	no	no	Yr17Lr37/Sr38	no	no	no	no
A000892	2011	USFHBN	29	GA051173W-S13	no	no	no	Yr17Lr37/Sr38	no	no	no	no
A000893	2011	USFHBN	30	IL02-18228	no	no	no	no	no	no	no	no
A000894	2011	USFHBN	31	LA03012E-50	no	no	no	no	no	no	no	no
A000895	2011	USFHBN	32	LA03130E66	no	Sr36	no	no	no	Lr9	no	no
A000896	2011	USFHBN	33	LA03130E68	no	Sr36	no	no	Lr34/Yr18	no	no	no
A000897	2011	USFHBN	34	LA03131E-1	no	no	no	no	Lr34/Yr18	Lr9	no	no
A000898	2011	USFHBN	35	LA03131E-7	no	nd	no	no	Lr34/Yr18	Lr9	no	no
A000899	2011	USFHBN	36	LA03135E-39	no	no	no	no	no	Lr9	no	APR Yr P26R61
A000900	2011	USFHBN	37	LA03136E71	no	no	no	no	no	Lr9	no	no
A000901	2011	USFHBN	38	LA06148C-P30	no	no	no	no	no	Lr9	no	no

2011 Cooperative Scab Nurseries					Rye translocations	Hessian Fly alleles				BYDV	Glutenin alleles		
ID	Year	Nursery	Entry	Sample Name	1RS	H13	H9	H25	H26	Bdv2/3	Glu-B1	Glu-D1	Glu-A1
A000764	2011	NUWWSN	1	ERNIE	non-1RS	no	no	no	no	no	no	2+12	het
A000765	2011	NUWWSN	2	TRUMAN	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000766	2011	NUWWSN	3	FREEDOM	1RS:1BL	no	no	no	no	no	no	2+12	het
A000767	2011	NUWWSN	4	PIONEER2545	1RS:1AL	no	no	no	no	no	no	het	Ax2*
A000768	2011	NUWWSN	5	NY99066-3025	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000769	2011	NUWWSN	6	OH751	non-1RS	no	nd	no	no	no	no	2+12	Ax1 or null
A000770	2011	NUWWSN	7	NY99068-383	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000771	2011	NUWWSN	8	NY93246SP-6093	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000772	2011	NUWWSN	9	E6012	non-1RS	no	no	no	no	no	no	2+12	nd
A000773	2011	NUWWSN	10	E6032	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000774	2011	NUWWSN	11	E9022R	non-1RS	no	no	no	no	no	Bx7oe	5+10	Ax2*
A000775	2011	NUWWSN	12	E9024R	1RS:1BL	no	nd	no	no	no	no	2+12	Ax2*
A000776	2011	NUWWSN	13	OH05-200-74	1RS:1AL	nd	nd	no	no	no	no	2+12	Ax1 or null
A000777	2011	NUWWSN	14	OH06-150-57	non-1RS	no	no	no	no	no	no	2+12	het
A000778	2011	NUWWSN	15	OH06-180-57	1RS:1BL	nd	no	no	no	no	no	2+12	Ax1 or null
A000779	2011	NUWWSN	16	OH07-98-21	1RS:1BL	no	no	no	no	no	no	5+10	Ax2*
A000780	2011	NUWWSN	17	OH07-166-49	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000781	2011	NUWWSN	18	03633A1--5	1RS:1BL	no	no	no	no	Bdv2/3	Bx7oe	5+10	Ax1 or null
A000782	2011	NUWWSN	19	04704A1--1	non-1RS	no	no	no	no	Bdv2/3	Bx7oe	5+10	Ax1 or null
A000783	2011	NUWWSN	20	04606A1--7	1RS:1BL	no	no	no	no	Bdv2/3	Bx7oe	5+10	Ax1 or null
A000784	2011	NUWWSN	21	05247A1--3	1RS:1BL	no	no	no	no	Bdv2/3	Bx7oe	2+12	Ax2*
A000785	2011	NUWWSN	22	05264A1--2	non-1RS	no	no	no	no	Bdv2/3	no	2+12	Ax1 or null
A000786	2011	NUWWSN	23	M05-1526	1RS:1BL	no	no	no	no	no	Bx7oe het	2+12	Ax1 or null
A000787	2011	NUWWSN	24	M08*8005#	non-1RS	nd	no	no	no	no	no	5+10	Ax2*
A000788	2011	NUWWSN	25	M08-8036#	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000789	2011	NUWWSN	26	M08-8214	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000790	2011	NUWWSN	27	M08-8349	1RS:1BL	no	no	no	no	no	Bx7oe	2+12	het
A000791	2011	NUWWSN	28	RCUOG1	1RS:1BL	no	no	no	no	no	no	5+10	Ax1 or null
A000792	2011	NUWWSN	29	RCUOG2	non-1RS	no	no	no	no	no	no	het	Ax2*
A000793	2011	NUWWSN	30	RCUOG3	non-1RS	nd	no	no	no	no	no	2+12	het
A000794	2011	NUWWSN	31	RCUOG4	1RS:1AL	no	no	no	no	no	no	het	het
A000795	2011	NUWWSN	32	RCUOG5	1RS:1AL	no	no	no	no	no	no	5+10	het
A000796	2011	NUWWSN	33	IL06-14262	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000797	2011	NUWWSN	34	IL06-14325	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000798	2011	NUWWSN	35	IL06-13721	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000799	2011	NUWWSN	36	IL06-13708	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000800	2011	NUWWSN	37	IL04-24668	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000801	2011	NUWWSN	38	KY02C-1002-06	1RS:1AL	no	no	no	no	no	Bx7oe	5+10	Ax1 or null
A000802	2011	NUWWSN	39	KY03C-1237-32	non-1RS	no	no	no	no	no	Bx7oe het	2+12	Ax2*
A000803	2011	NUWWSN	40	KY02C-2216-05	1RS:1AL	no	nd	no	no	no	no	5+10	Ax2*
A000804	2011	NUWWSN	41	KY03C-1075-04	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000805	2011	NUWWSN	42	KY-03C-2047-06	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000806	2011	NUWWSN	43	MD03W485-10-9	1RS:1BL	no	no	no	no	no	no	5+10	Ax1 or null
A000807	2011	NUWWSN	44	MD03W61-10-2	1RS:1BL	no	no	no	no	no	no	2+12	Ax1 or null
A000808	2011	NUWWSN	45	MD03W69-15	1RS:1BL	no	no	no	no	no	no	2+12	Ax1 or null
A000809	2011	NUWWSN	46	MD03W61-09-7	1RS:1BL	no	no	no	no	no	no	5+10	Ax1 or null

2011 Cooperative Scab Nurseries					Rye translocations	Hessian Fly alleles				BYDV	Glutenin alleles		
ID	Year	Nursery	Entry	Sample Name	1RS	H13	H9	H25	H26	Bdv2/3	Glu-B1	Glu-D1	Glu-A1
A000810	2011	NUWWSN	47	MO080104	non-1RS	no	no	no	no	no	no	5+10	het
A000811	2011	NUWWSN	48	MO081652	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000812	2011	NUWWSN	49	MO080589	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000813	2011	NUWWSN	50	MO081777	non-1RS	no	no	no	no	no	no	het	het
A000814	2011	NUWWSN	51	MO080789	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000815	2011	NUWWSN	52	NE01481	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000816	2011	NUWWSN	53	NE02558	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000817	2011	NUWWSN	54	NE05548	non-1RS	no	no	no	no	no	no	het	het
A000818	2011	NUWWSN	55	NE06469	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000819	2011	NUWWSN	56	NE07444	non-1RS	no	H9	no	no	no	no	5+10	Ax1 or null
A000820	2011	NUWWSN	57	VA08W-176	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000821	2011	NUWWSN	58	VA08W-294	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000822	2011	NUWWSN	59	VA09W-657	1RS:1AL	no	no	no	no	no	nd	het	Ax2*
A000823	2011	NUWWSN	60	VA09W-659	1RS:1AL	no	no	no	no	no	Bx7oe het	2+12	het
A000824	2011	PNUWWSN	1	ERNIE	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000825	2011	PNUWWSN	2	TRUMAN	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000826	2011	PNUWWSN	3	FREEDOM	1RS:1BL	no	no	no	no	no	no	2+12	het
A000827	2011	PNUWWSN	4	PIONEER2545	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000828	2011	PNUWWSN	5	E9020R	non-1RS	no	no	no	no	no	Bx7oe	5+10	Ax2*
A000829	2011	PNUWWSN	6	E9021R	non-1RS	no	no	no	no	no	Bx7oe	5+10	Ax2*
A000830	2011	PNUWWSN	7	E9009	1RS:1BL	no	no	no	no	no	no	2+12	Ax1 or null
A000831	2011	PNUWWSN	8	M09-9804#	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null
A000832	2011	PNUWWSN	9	OH07-166-41	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000833	2011	PNUWWSN	10	OH07-254-11	1RS:1BL	no	no	no	no	no	no	2+12	Ax1 or null
A000834	2011	PNUWWSN	11	OH07-263-3	1RS:1BL	no	no	no	no	no	no	het	Ax2*
A000835	2011	PNUWWSN	12	OH08-133-25	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000836	2011	PNUWWSN	13	OH08-269-58	non-1RS	no	H9	no	no	no	no	2+12	Ax2*
A000837	2011	PNUWWSN	14	05251A1--5	non-1RS	nd	no	no	no	Bdv2/3	no	het	Ax1 or null
A000838	2011	PNUWWSN	15	05269A1--1	1RS:1BL	no	no	no	no	Bdv2/3	Bx7oe	2+12	Ax1 or null
A000839	2011	PNUWWSN	16	06497A1--3	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000840	2011	PNUWWSN	17	0711A1--1	1RS:1BL	no	no	no	no	no	no	het	Ax2*
A000841	2011	PNUWWSN	18	0724B1--13	1RS:1BL	H13	no	no	no	no	no	5+10	Ax1 or null
A000842	2011	PNUWWSN	19	M08-8352	1RS:1BL	no	no	no	no	no	Bx7oe	2+12	Ax2*
A000843	2011	PNUWWSN	20	IL07-4348	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null
A000844	2011	PNUWWSN	21	IL07-4415	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null
A000845	2011	PNUWWSN	22	IL07-7525	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000846	2011	PNUWWSN	23	IL07-14547	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000847	2011	PNUWWSN	24	IL07-19334	non-1RS	no	no	no	no	no	no	het	het
A000848	2011	PNUWWSN	25	KY-03C-2047-07	1RS:1AL	no	no	no	no	no	no	het	Ax2*
A000849	2011	PNUWWSN	26	KY04C-2023-18	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000850	2011	PNUWWSN	27	KY04C-2034-2	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000851	2011	PNUWWSN	28	KY04C-2034-3	non-1RS	no	no	no	no	no	no	2+12	het
A000852	2011	PNUWWSN	29	KY04C-2034-4	non-1RS	no	no	no	no	no	no	2+12	het
A000853	2011	PNUWWSN	30	MO080241	non-1RS	no	no	no	no	no	no	het	Ax1 or null
A000854	2011	PNUWWSN	31	MO090862	non-1RS	no	no	no	no	nd	no	het	Ax1 or null
A000855	2011	PNUWWSN	32	MO090577	non-1RS	no	no	no	no	no	no	5+10	Ax2*

2011 Cooperative Scab Nurseries					Rye translocations	Hessian Fly alleles				BYDV	Glutenin alleles		
ID	Year	Nursery	Entry	Sample Name	1RS	H13	H9	H25	H26	Bdv2/3	Glu-B1	Glu-D1	Glu-A1
A000856	2011	PNUWWSN	33	MO090812	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000857	2011	PNUWWSN	34	MO091122	non-1RS	no	no	no	no	no	no	2+12	het
A000858	2011	PNUWWSN	35	VA08W-632	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000859	2011	PNUWWSN	36	VA09W-608	non-1RS	no	no	no	no	no	no	het	Ax1 or null
A000860	2011	PNUWWSN	37	VA09W-635	1RS:1AL	no	nd	no	no	no	no	5+10	Ax2*
A000861	2011	PNUWWSN	38	VA09W-636	1RS:1AL	no	nd	no	no	no	no	2+12	het
A000862	2011	PNUWWSN	39	VA09W-644	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000863	2011	PNUWWSN	40	VA09W-654	non-1RS	no	nd	no	no	no	no	5+10	Ax1 or null
A000864	2011	USFHBN	1	ERNIE	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000865	2011	USFHBN	2	COKER 9835	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000866	2011	USFHBN	3	BESS	non-1RS	no	no	no	no	no	no	het	Ax1 or null
A000867	2011	USFHBN	4	JAMESTOWN	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000868	2011	USFHBN	5	ARS04-1267	1RS:1AL	no	nd	no	no	no	no	5+10	Ax2*
A000869	2011	USFHBN	6	M08*8005#	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000870	2011	USFHBN	7	MD03W61-09-1	1RS:1BL	no	no	no	no	no	no	2+12	Ax1 or null
A000871	2011	USFHBN	8	VA09W-641	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000872	2011	USFHBN	9	ARGE04-1163-44	1RS:1BL	no	no	no	no	no	no	2+12	Ax2*
A000873	2011	USFHBN	10	ARGE04-1163-67	1RS:1BL	no	no	no	no	no	no	2+12	het
A000874	2011	USFHBN	11	ARS07-0245	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000875	2011	USFHBN	12	ARS07-0262	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000876	2011	USFHBN	13	ARS07-0404	non-1RS	H13	no	no	no	no	no	2+12	Ax2*
A000877	2011	USFHBN	14	ARS07-0609	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000878	2011	USFHBN	15	ARS07-1227	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null
A000879	2011	USFHBN	16	ARS07-1243	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000880	2011	USFHBN	17	ARS08-0114	1RS:1AL	no	no	no	no	no	no	2+12	Ax2*
A000881	2011	USFHBN	18	B050154	non-1RS	no	no	no	no	no	Bx7oe het	het	Ax2*
A000882	2011	USFHBN	19	B070495	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null
A000883	2011	USFHBN	20	B070678	non-1RS	nd	nd	no	no	no	no	2+12	Ax2*
A000884	2011	USFHBN	21	B070738	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null
A000885	2011	USFHBN	22	GA04496-S6	non-1RS	nd	nd	no	no	no	no	5+10	Ax2*
A000886	2011	USFHBN	23	GA041273-S14	1RS:1BL	no	no	no	no	no	no	2+12	Ax2*
A000887	2011	USFHBN	24	GA041273-S15	non-1RS	H13	no	no	no	no	no	2+12	Ax1 or null
A000888	2011	USFHBN	25	GA04496-S5	non-1RS	nd	no	no	no	no	nd	5+10	Ax2*
A000889	2011	USFHBN	26	GA04496-S8	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000890	2011	USFHBN	27	GA051173W-S11	non-1RS	H13	no	no	no	no	no	2+12	het
A000891	2011	USFHBN	28	GA051173W-S12	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000892	2011	USFHBN	29	GA051173W-S13	non-1RS	H13	no	no	no	no	no	2+12	het
A000893	2011	USFHBN	30	IL02-18228	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null
A000894	2011	USFHBN	31	LA03012E-50	non-1RS	no	no	no	no	no	no	5+10	Ax2*
A000895	2011	USFHBN	32	LA03130E66	non-1RS	no	no	no	no	no	no	2+12	het
A000896	2011	USFHBN	33	LA03130E68	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000897	2011	USFHBN	34	LA03131E-1	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000898	2011	USFHBN	35	LA03131E-7	1RS:1BL	no	no	no	no	no	no	2+12	Ax2*
A000899	2011	USFHBN	36	LA03135E-39	1RS:1BL	no	no	no	no	no	no	2+12	Ax1 or null
A000900	2011	USFHBN	37	LA03136E71	non-1RS	no	no	no	no	no	Bx7oe	2+12	Ax1 or null
A000901	2011	USFHBN	38	LA06148C-P30	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null

2011 Cooperative Scab Nurseries					Rye translocations	Hessian Fly alleles				BYDV	Glutenin alleles		
ID	Year	Nursery	Entry	Sample Name	1RS	H13	H9	H25	H26	Bdv2/3	Glu-B1	Glu-D1	Glu-A1
A000902	2011	USFHBN	39	M05-1526	1RS:1BL	no	no	no	no	no	Bx7oe het	2+12	Ax1 or null
A000903	2011	USFHBN	40	M08-8036#__	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000904	2011	USFHBN	41	MD03W61-09-7	1RS:1BL	no	no	no	no	no	no	het	het
A000905	2011	USFHBN	42	MD03W61-10-2	1RS:1BL	no	no	no	no	no	no	2+12	Ax1 or null
A000906	2011	USFHBN	43	MD03W665-10-5	1RS:1BL	no	no	no	no	no	no	2+12	Ax1 or null
A000907	2011	USFHBN	44	MD03W69-15	1RS:1BL	no	no	no	no	no	no	2+12	Ax1 or null
A000908	2011	USFHBN	45	NC05-15-99	1RS:1BL	no	no	no	no	no	no	het	Ax2*
A000909	2011	USFHBN	46	NC05-39-314	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000910	2011	USFHBN	47	NC05-39-337	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000911	2011	USFHBN	48	NC05-39-349	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000912	2011	USFHBN	49	NC05-39-354	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000913	2011	USFHBN	50	NC05-39-370	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000914	2011	USFHBN	51	NC05-39-380	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000915	2011	USFHBN	52	NC06-16-26-988	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null
A000916	2011	USFHBN	53	NC99-13022	1RS:1AL	no	nd	no	no	no	no	5+10	Ax2*
A000917	2011	USFHBN	54	VA05W-251	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000918	2011	USFHBN	55	VA08W-176	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000919	2011	USFHBN	56	VA08W-193	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000920	2011	USFHBN	57	VA08W-294	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000921	2011	USFHBN	58	VA08W-613	non-1RS	no	no	no	no	no	no	2+12	Ax2*
A000922	2011	USFHBN	59	VA09W-623	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*
A000923	2011	USFHBN	60	VA09W-656	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*