

2008

Soft Red Winter Wheat Cooperative Nurseries

**5-State Advanced & Preliminary
Mason-Dixon
Gulf Atlantic Wheat Nursery**

Marker Reports

Eastern Regional Small Grains Genotyping Lab

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USDA-ARS

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Some details of notations in the Marker tables

"nd" = not determined or lack of amplification

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

"?" 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 *italics*

2008 5-State Advanced & Preliminary

Entry List

Nursery	Entry	Sample Name	Pedigree	Source
5-St Adv	1	MO050197	MO 12278/Pioneer 2552	MO
5-St Adv	2	MO050917	960112/960815	MO
5-St Adv	3	MO050921	Ernie/980521	MO
5-St Adv	4	MO050699	MO 10501*6/Amigo/3/MO 10501*6/Amigo//90X54-1-1/MO 91-1009	MO
5-St Adv	5	BESS	CHECK	MO
5-St Adv	6	IL04-8445	IL94-1653 / IL97-3578	IL
5-St Adv	7	IL04-9942	IL95-2516 / IL97-3578	IL
5-St Adv	8	IL04-10118	IL95-2516 / IL98-12212	IL
5-St Adv	9	IL04-17762	IL97-3578 / IL97-7010	IL
5-St Adv	10	Kaskaskia	IL77-2933 / IL77-3956 // Pike / Caldwell	IL
5-St Adv	11	992192A--81	INW0103/92145/3/Patterson/F201R//Patton	IN
5-St Adv	12	011007A1-14-2	981477/981312//INW0315	IN
5-St Adv	13	03545A1-30-1	INW0301/96169/3/INW0101/981002//9712	IN
5-St Adv	14	03549A1-34-2	981358/97462/3/92145/981004//92226	IN
5-St Adv	15	04281A1-4-5	INW0304/93701/3/INW9811//Ernie*2/92823	IN
5-St Adv	16	OH02-13567	OH581/IN83127E1-24-5-2-1-31//5088B-D-32-1/OH601	OH
5-St Adv	17	OH02-12686	FOSTER/HOPEWELL//OH581/OH569	OH
5-St Adv	18	OH03-75-58	HOPEWELL/OH655	OH
5-St Adv	19	OH03-235-2	OH552/HOPEWELL	OH
5-St Adv	20	HOPEWELL	CHECK	OH
5-St Adv	21	KY00C-2047-04	KY91C-170-3/Allegiance	KY
5-St Adv	22	KY00C-2109-01	KY91C-171-24/KY90C-160-14	KY
5-St Adv	23	KY00C-2755-02	2552/Allegiance	KY
5-St Adv	24	KY00C-2059-09	KY91C-170-3/2552	KY
5-St Adv	25	PEMBROKE	CHECK	KY
5-St Pre	1	MO051150	960815/IL 91-14613	MO
5-St Pre	2	MO050687	MO 12278/Coker 9474	MO
5-St Pre	3	MO050219	MO 94-182/VA 91-54-219	MO
5-St Pre	4	MO061041	MO 94-310/P86981RC1-9-4-X	MO
5-St Pre	5	BESS	CHECK	MO
5-St Pre	6	IL04-7874	G65201 / IL98-12212	IL
5-St Pre	7	IL04-7942	G65201 / IL98-12212	IL
5-St Pre	8	IL04-10721	IL95-4162 / IL97-7010	IL
5-St Pre	9	IL04-10741	IL95-4162 / IL97-7010	IL
5-St Pre	10	Kaskaskia	IL77-2933 / IL77-3956 // Pike / Caldwell	IL
5-St Pre	11	0175A1-31-4	981419/INW0411	IN
5-St Pre	12	0315A1-4	INW0304/INW0315//981358/97462	IN
5-St Pre	13	03707A1--7	INW0315/INW0304//9346/CS5A/3/91202/INW0301	IN
5-St Pre	14	0451A1-7-7	INW0316/97462	IN
5-St Pre	15	04511A1-3	INW0304/99840/4/INW0731/3/INW0315/981543//981542	IN
5-St Pre	16	OH03-183-32	15497/897A	OH
5-St Pre	17	OH04-264-58	OH645/HOPEWELL	OH
5-St Pre	18	OH04-268-39	HOPEWELL/VA96-54-372	OH
5-St Pre	19	OH04-213-39	HOPEWELL/IL94-6858	OH
5-St Pre	20	HOPEWELL	CHECK	OH
5-St Pre	21	KY01C-1587-16	25R26/25W60//25W60/KY90C-160-14	KY
5-St Pre	22	KY01C-1904-06	KY91C-170-3/Declaration//KY91C-170-3/2552	KY
5-St Pre	23	KY01C-1587-08	25R26/25W60//25W60/KY90C-160-14	KY
5-St Pre	24	KY01C-1088-08	KY91C-170-3/KY90C-160-14//KY91C-170-3/Roane	KY
5-St Pre	25	PEMBROKE	CHECK	KY

2008 5-State Advanced & Preliminary

Summary of all Markers

Nursery	Entry	Sample Name	1RS	H13	H9	Bdv2/3	Bx7 over-expressing
5-St Adv	1	MO050197	non-1RS	no	no	no	het
5-St Adv	2	MO050917	non-1RS	no	no	no	no
5-St Adv	3	MO050921	non-1RS	no	no	no	no
5-St Adv	4	MO050699	non-1RS	no	no	no	no
5-St Adv	5	BESS	non-1RS	no	no	no	no
5-St Adv	6	IL04-8445	non-1RS	no	no	no	nd
5-St Adv	7	IL04-9942	non-1RS	no	no	no	no
5-St Adv	8	IL04-10118	non-1RS	no	no	no	no
5-St Adv	9	IL04-17762	non-1RS	no	no	no	no
5-St Adv	10	Kaskaskia	non-1RS	no	no	no	no
5-St Adv	11	992192A--81	1RS:1BL	no	no	no	no
5-St Adv	12	011007A1-14-2	non-1RS	no	no	yes	no
5-St Adv	13	03545A1-30-1	non-1RS	no	no	het	no
5-St Adv	14	03549A1-34-2	1RS:1BL	het	no	no	no
5-St Adv	15	04281A1-4-5	non-1RS	no	no	yes	het
5-St Adv	16	OH02-13567	non-1RS	no	no	no	no
5-St Adv	17	OH02-12686	1RS:1AL	no	no	no	no
5-St Adv	18	OH03-75-58	non-1RS	no	no	no	yes
5-St Adv	19	OH03-235-2	non-1RS	no	no	no	no
5-St Adv	20	HOPEWELL	non-1RS	no	no	no	no
5-St Adv	21	KY00C-2047-04	non-1RS	no	no	no	het
5-St Adv	22	KY00C-2109-01	non-1RS	no	no	no	het
5-St Adv	23	KY00C-2755-02	non-1RS	no	no	no	yes
5-St Adv	24	KY00C-2059-09	non-1RS	no	no	no	no
5-St Adv	25	PEMBROKE	non-1RS	no	no	no	yes
5-St Pre	1	MO051150	non-1RS	nd	no	no	yes
5-St Pre	2	MO050687	non-1RS	no	no	no	no
5-St Pre	3	MO050219	non-1RS	no	no	no	no
5-St Pre	4	MO061041	non-1RS	no	nd	no	no
5-St Pre	5	BESS	non-1RS	no	no	no	no
5-St Pre	6	IL04-7874	non-1RS	no	no	no	no
5-St Pre	7	IL04-7942	non-1RS	no	no	no	no
5-St Pre	8	IL04-10721	non-1RS	no	no	no	no
5-St Pre	9	IL04-10741	non-1RS	no	no	no	no
5-St Pre	10	Kaskaskia	non-1RS	no	no	no	no
5-St Pre	11	0175A1-31-4	1RS:1BL	no	no	no	het
5-St Pre	12	0315A1-4	1RS:1BL	no	no	no	het
5-St Pre	13	03707A1--7	non-1RS	no	no	yes	no
5-St Pre	14	0451A1-7-7	1RS:1BL	yes	no	yes	no
5-St Pre	15	04511A1-3	non-1RS	het	no	no	het
5-St Pre	16	OH03-183-32	non-1RS	no	no	no	no
5-St Pre	17	OH04-264-58	non-1RS	no	no	no	yes
5-St Pre	18	OH04-268-39	non-1RS	no	no	no	no
5-St Pre	19	OH04-213-39	non-1RS	no	no	no	no
5-St Pre	20	HOPEWELL	non-1RS	no	no	no	no
5-St Pre	21	KY01C-1587-16	non-1RS	no	no	no	no
5-St Pre	22	KY01C-1904-06	non-1RS	no	no	no	no
5-St Pre	23	KY01C-1587-08	non-1RS	no	no	no	no
5-St Pre	24	KY01C-1088-08	non-1RS	no	no	no	no
5-St Pre	25	PEMBROKE	non-1RS	no	no	no	yes

FHB QTLs

2008

Nursery	Entry	Sample Name	umn	umn	Fhb1	cf	cf	gwm	gwm	gwm	gwm	Fhb 2DL- Wuhan1/W14
			10	10		233	233	539	539	608	608	
5-St Adv	1	MO050197	228		no	270		133		156		no
5-St Adv	2	MO050917	236		no	290		131		154		no
5-St Adv	3	MO050921	228		no	280		133		150		no
5-St Adv	4	MO050699	236		no	278		161		150		no
5-St Adv	5	BESS	236		no	290		137		162		no
5-St Adv	6	IL04-8445	228		no	280		124		154		no
5-St Adv	7	IL04-9942	228	236	no	284	288	137		150		no
5-St Adv	8	IL04-10118	228		no	278		137		150		no
5-St Adv	9	IL04-17762	228		no	288		153	157	154		no
5-St Adv	10	Kaskaskia	228		no	280		124		162		no
5-St Adv	11	992192A--81	236		no	278		161		150		no
5-St Adv	12	011007A1-14-2	236		no	270		139		150		no
5-St Adv	13	03545A1-30-1	236		no	278		139		nd		no
5-St Adv	14	03549A1-34-2	239		yes	270	278	124	161	150		no
5-St Adv	15	04281A1-4-5	236		no	278	284	137		150		no
5-St Adv	16	OH02-13567	228	236	no	270		155		150		no
5-St Adv	17	OH02-12686	228		no	270		131		150		no
5-St Adv	18	OH03-75-58	236		no	288		131	137	150		no
5-St Adv	19	OH03-235-2	228		no	270		131		150		no
5-St Adv	20	HOPEWELL	236		no	270		131		150		no
5-St Adv	21	KY00C-2047-04	236		no	270	272	133		156		no
5-St Adv	22	KY00C-2109-01	236		no	272		133		158		no
5-St Adv	23	KY00C-2755-02	236		no	270		133		158		no
5-St Adv	24	KY00C-2059-09	236		no	270		133		156		no
5-St Adv	25	PEMBROKE	236		no	270	278	133		156		no
5-St Pre	1	MO051150	236		no	270		133		156		no
5-St Pre	2	MO050687	228		no	290		131		162		no
5-St Pre	3	MO050219	236		no	284	290	137		150	162	no
5-St Pre	4	MO061041	228		no	280		124		150		no
5-St Pre	5	BESS	236		no	290		137		162		no
5-St Pre	6	IL04-7874	228		no	278		137		154		no
5-St Pre	7	IL04-7942	228		no	278		137		150	154	no
5-St Pre	8	IL04-10721	228		no	280		131		150		no
5-St Pre	9	IL04-10741	236		no	270		131		156		no
5-St Pre	10	Kaskaskia	228		no	280		124		154	162	no
5-St Pre	11	0175A1-31-4	239		yes	270		137		150		no
5-St Pre	12	0315A1-4	236		no	270	284	124	142	150		no
5-St Pre	13	03707A1--7	228		no	278	280	142		150		no
5-St Pre	14	0451A1-7-7	236	239	het	278		139		150		no
5-St Pre	15	04511A1-3	236		no	288		139		144		no
5-St Pre	16	OH03-183-32	228		no	270		155		150		no
5-St Pre	17	OH04-264-58	236		no	270		133		156		no
5-St Pre	18	OH04-268-39	236		no	270		131		150		no
5-St Pre	19	OH04-213-39	236		no	270	278	131		150		no
5-St Pre	20	HOPEWELL	236		no	270		131		150		no
5-St Pre	21	KY01C-1587-16	236		no	272		133		158		no
5-St Pre	22	KY01C-1904-06	236		no	270	290	133		156		no
5-St Pre	23	KY01C-1587-08	236		no	272		133		158		no
5-St Pre	24	KY01C-1088-08	236		no	272		133		158		no
5-St Pre	25	PEMBROKE	236		no	270		133		156		no

FHB QTLs

2008

Nursery	Entry	Sample Name	gwm	gwm	wmc	wmc	barc	barc	barc	Fhb 5A	Fhb 5A
			304	304	705	705	117	117	186	Ernie	Ning7840
5-St Adv	1	MO050197	199		162		217		203	no	no
5-St Adv	2	MO050917	199		164		217		203	no	no
5-St Adv	3	MO050921	199		164		217		203	no	no
5-St Adv	4	MO050699	220		135		221		203	yes	no
5-St Adv	5	BESS	199		164		217		203	no	no
5-St Adv	6	IL04-8445	199		164		217		203	no	no
5-St Adv	7	IL04-9942	199		164		217		203	no	no
5-St Adv	8	IL04-10118	199		164		217		203	no	no
5-St Adv	9	IL04-17762	199		164		217		203	no	no
5-St Adv	10	Kaskaskia	203		139		217		215	no	no
5-St Adv	11	992192A--81	201		133		217		203	no	no
5-St Adv	12	011007A1-14-2	203		139		217		203	no	no
5-St Adv	13	03545A1-30-1	213	220	135		221		203	yes	no
5-St Adv	14	03549A1-34-2	199	203	139	164	217		203	no	no
5-St Adv	15	04281A1-4-5	213		139		221		213	no	no
5-St Adv	16	OH02-13567	220		135		221		203	yes	no
5-St Adv	17	OH02-12686	217		nd		221		213	no	?
5-St Adv	18	OH03-75-58	197		139		217		213	no	no
5-St Adv	19	OH03-235-2	220		135		221		203	yes	no
5-St Adv	20	HOPEWELL	197		139		217		213	no	no
5-St Adv	21	KY00C-2047-04	199	220	135	164	217	221	203	het	no
5-St Adv	22	KY00C-2109-01	220	223	135		221		203	yes	no
5-St Adv	23	KY00C-2755-02	220		135		221		203	yes	no
5-St Adv	24	KY00C-2059-09	199		164		217		203	no	no
5-St Adv	25	PEMBROKE	199		164		217		203	no	no
5-St Pre	1	MO051150	199		164		217		203	no	no
5-St Pre	2	MO050687	220		135		221		203	yes	no
5-St Pre	3	MO050219	199		164		217		203	no	no
5-St Pre	4	MO061041	213		164		217		203	no	no
5-St Pre	5	BESS	199		164		217		203	no	no
5-St Pre	6	IL04-7874	199		164		217		203	no	no
5-St Pre	7	IL04-7942	199		164		217		203	no	no
5-St Pre	8	IL04-10721	213		137		221		213	no	no
5-St Pre	9	IL04-10741	213		137		221	nd		no	no
5-St Pre	10	Kaskaskia	203		139		217		215	no	no
5-St Pre	11	0175A1-31-4	217		nd		221		213	no	no
5-St Pre	12	0315A1-4	203		139		217		203	no	no
5-St Pre	13	03707A1--7	203		139		217		203	no	no
5-St Pre	14	0451A1-7-7	203		139		217		203	no	no
5-St Pre	15	04511A1-3	220		135		221		203	yes	no
5-St Pre	16	OH03-183-32	220		137		221		203	no	no
5-St Pre	17	OH04-264-58	199		162		217		203	no	no
5-St Pre	18	OH04-268-39	197		139		217		213	no	no
5-St Pre	19	OH04-213-39	197		139		217		213	no	no
5-St Pre	20	HOPEWELL	197		139		nd		213	no	no
5-St Pre	21	KY01C-1587-16	201	223	135		217	221	203	no	no
5-St Pre	22	KY01C-1904-06	199		162	164	217		203	no	no
5-St Pre	23	KY01C-1587-08	223		135		221		203	no	no
5-St Pre	24	KY01C-1088-08	220		135		221		203	yes	no
5-St Pre	25	PEMBROKE	199		164		217		203	no	no

Leaf, Stripe & Stem Rusts

2008

Nursery	Entry	Sample Name	wmc	wmc	Sr36	barc	barc	Sr24/Lr24	ventriup	Yr17/Lr37/Sr38	cslv	L434/Yr18/Pm38
			477	477		71	71				34	
5-St Adv	1	MO050197	162		no	105		no			235	no
5-St Adv	2	MO050917	169		no	113		no			235	no
5-St Adv	3	MO050921	nd		nd	105		no	256	yes	235	no
5-St Adv	4	MO050699	186		yes	113		no			235	no
5-St Adv	5	BESS	169		no	113		no			235	no
5-St Adv	6	IL04-8445	169		no	105		no			235	no
5-St Adv	7	IL04-9942	162		no	105		no			235	no
5-St Adv	8	IL04-10118	165		no	105		no			235	no
5-St Adv	9	IL04-17762	165		no	105		no			235	no
5-St Adv	10	Kaskaskia	169		no	105		no			235	no
5-St Adv	11	992192A--81	167		no	105		no			235	no
5-St Adv	12	011007A1-14-2	186		yes	118		no			235	no
5-St Adv	13	03545A1-30-1	169		no	105	113	no	256	yes	235	no
5-St Adv	14	03549A1-34-2	186		yes	105		no	256	yes	235	no
5-St Adv	15	04281A1-4-5	nd		nd	nd		nd			235	no
5-St Adv	16	OH02-13567	162		no	105		no			235	no
5-St Adv	17	OH02-12686	162		no	105	113	no			235	no
5-St Adv	18	OH03-75-58	167		no	105		no			235	no
5-St Adv	19	OH03-235-2	167		no	105		no			235	no
5-St Adv	20	HOPEWELL	167		no	105		no			235	no
5-St Adv	21	KY00C-2047-04	162	169	no	113		no			235	no
5-St Adv	22	KY00C-2109-01	169		no	105		no			235	no
5-St Adv	23	KY00C-2755-02	169		no	105		no			235	no
5-St Adv	24	KY00C-2059-09	169		no	105		no			235	no
5-St Adv	25	PEMBROKE	162		no	nd		nd			235	no
5-St Pre	1	MO051150	169		no	93		no	256	yes	235	no
5-St Pre	2	MO050687	169		no	105		no			235	no
5-St Pre	3	MO050219	186		yes	113		no			235	no
5-St Pre	4	MO061041	165		no	105		no			235	no
5-St Pre	5	BESS	169		no	113		no			235	no
5-St Pre	6	IL04-7874	165		no	105		no			235	no
5-St Pre	7	IL04-7942	165		no	105		no			235	no
5-St Pre	8	IL04-10721	165		no	105		no			235	no
5-St Pre	9	IL04-10741	169		no	105		no			235	no
5-St Pre	10	Kaskaskia	169		no	105		no			235	no
5-St Pre	11	0175A1-31-4	186		yes	105		no			235	no
5-St Pre	12	0315A1-4	186		yes	105		no	256	yes	235	no
5-St Pre	13	03707A1--7	186		yes	105		no			235	no
5-St Pre	14	0451A1-7-7	186		yes	105		no	256	yes	235	no
5-St Pre	15	04511A1-3	167		no	113		no			235	no
5-St Pre	16	OH03-183-32	165		no	105		no			235	no
5-St Pre	17	OH04-264-58	162		no	93		no			235	no
5-St Pre	18	OH04-268-39	167		no	105		no			235	no
5-St Pre	19	OH04-213-39	167		no	105		no			nd	nd
5-St Pre	20	HOPEWELL	167		no	105		no			235	no
5-St Pre	21	KY01C-1587-16	169		no	93		no			235	no
5-St Pre	22	KY01C-1904-06	162	169	no	105	113	no			235	no
5-St Pre	23	KY01C-1587-08	nd		nd	93		no			235	no
5-St Pre	24	KY01C-1088-08	169		no	105		no	256	yes	235	no
5-St Pre	25	PEMBROKE	162		no	105		no			235	no

Rye Translocation -- Hessian Fly -- Barley Yellow Dwarf Virus

2008

Nursery	Entry	Sample Name	scm	scm	1RS	cf	cf	H13	cf	cf	H9	Bdv3	Bdv3	Bdv2/3
			9	9		132	132		2153	2153		185	185	
5-St Adv	1	MO050197			non-1RS	116		no	204		no	185		no
5-St Adv	2	MO050917			non-1RS	116		no	221		no	185		no
5-St Adv	3	MO050921			non-1RS	116		no	196		no	185		no
5-St Adv	4	MO050699			non-1RS	116		no	204		no	185		no
5-St Adv	5	BESS			non-1RS	116		no	221		no	185		no
5-St Adv	6	IL04-8445			non-1RS	116		no	204		no	185		no
5-St Adv	7	IL04-9942			non-1RS	116		no	196	204	no	185		no
5-St Adv	8	IL04-10118			non-1RS	116		no	204		no	185		no
5-St Adv	9	IL04-17762			non-1RS	116		no	196		no	185		no
5-St Adv	10	Kaskaskia			non-1RS	116		no	196		no	185		no
5-St Adv	11	992192A--81	208		1RS:1BL	116		no	204		no	185		no
5-St Adv	12	011007A1-14-2			non-1RS	116		no	196		no	200		yes
5-St Adv	13	03545A1-30-1			non-1RS	116		no	213		no	185	200	het
5-St Adv	14	03549A1-34-2	208		1RS:1BL	116	153	het	197		no	185		no
5-St Adv	15	04281A1-4-5			non-1RS	116		no	194		no	200		yes
5-St Adv	16	OH02-13567			non-1RS	116		no	196	204	no	185		no
5-St Adv	17	OH02-12686		224	1RS:1AL	116		no	204		no	185		no
5-St Adv	18	OH03-75-58			non-1RS	116		no	196		no	185		no
5-St Adv	19	OH03-235-2			non-1RS	116		no	196		no	185		no
5-St Adv	20	HOPEWELL			non-1RS	116		no	196		no	185		no
5-St Adv	21	KY00C-2047-04			non-1RS	116		no	213		no	185		no
5-St Adv	22	KY00C-2109-01			non-1RS	116		no	204		no	185		no
5-St Adv	23	KY00C-2755-02			non-1RS	116		no	213		no	185		no
5-St Adv	24	KY00C-2059-09			non-1RS	116		no	204		no	185		no
5-St Adv	25	PEMBROKE			non-1RS	116		no	204		no	185		no
5-St Pre	1	MO051150			non-1RS	nd		nd	213		no	nd		no
5-St Pre	2	MO050687			non-1RS	116		no	194		no	185		no
5-St Pre	3	MO050219			non-1RS	116		no	194	221	no	185		no
5-St Pre	4	MO061041			non-1RS	116		no	nd		nd	185		no
5-St Pre	5	BESS			non-1RS	116		no	221		no	185		no
5-St Pre	6	IL04-7874			non-1RS	116		no	204		no	185		no
5-St Pre	7	IL04-7942			non-1RS	116		no	204		no	185		no
5-St Pre	8	IL04-10721			non-1RS	116		no	200		no	185		no
5-St Pre	9	IL04-10741			non-1RS	116		no	204		no	185		no
5-St Pre	10	Kaskaskia			non-1RS	116		no	196		no	185		no
5-St Pre	11	0175A1-31-4	208		1RS:1BL	116		no	196		no	185		no
5-St Pre	12	0315A1-4	208		1RS:1BL	116		no	204		no	185		no
5-St Pre	13	03707A1--7			non-1RS	116		no	204		no	200		yes
5-St Pre	14	0451A1-7-7	208		1RS:1BL	153		yes	196		no	200		yes
5-St Pre	15	04511A1-3			non-1RS	116	153	het	221		no	185		no
5-St Pre	16	OH03-183-32			non-1RS	116		no	221		no	185		no
5-St Pre	17	OH04-264-58			non-1RS	116		no	204		no	185		no
5-St Pre	18	OH04-268-39			non-1RS	116		no	196	204	no	185		no
5-St Pre	19	OH04-213-39			non-1RS	116		no	204		no	185		no
5-St Pre	20	HOPEWELL			non-1RS	116		no	196		no	185		no
5-St Pre	21	KY01C-1587-16			non-1RS	116		no	204		no	185		no
5-St Pre	22	KY01C-1904-06			non-1RS	116		no	204	213	no	185		no
5-St Pre	23	KY01C-1587-08			non-1RS	116		no	213		no	185		no
5-St Pre	24	KY01C-1088-08			non-1RS	116		no	196	204	no	185		no
5-St Pre	25	PEMBROKE			non-1RS	116		no	204		no	185		no

Quality Traits

2008

Nursery	Entry	Sample Name	bx7oe	bx7oe	Bx7 over-expressing
5-St Adv	1	MO050197	404	449	het
5-St Adv	2	MO050917	404		no
5-St Adv	3	MO050921	404		no
5-St Adv	4	MO050699	404		no
5-St Adv	5	BESS	404		no
5-St Adv	6	IL04-8445	nd		nd
5-St Adv	7	IL04-9942	404		no
5-St Adv	8	IL04-10118	404		no
5-St Adv	9	IL04-17762	404		no
5-St Adv	10	Kaskaskia	404		no
5-St Adv	11	992192A--81	404		no
5-St Adv	12	011007A1-14-2	404		no
5-St Adv	13	03545A1-30-1	404		no
5-St Adv	14	03549A1-34-2	404		no
5-St Adv	15	04281A1-4-5	404	449	het
5-St Adv	16	OH02-13567	404		no
5-St Adv	17	OH02-12686	404		no
5-St Adv	18	OH03-75-58		449	yes
5-St Adv	19	OH03-235-2	404		no
5-St Adv	20	HOPEWELL	404		no
5-St Adv	21	KY00C-2047-04	404	449	het
5-St Adv	22	KY00C-2109-01	404	449	het
5-St Adv	23	KY00C-2755-02		449	yes
5-St Adv	24	KY00C-2059-09	404		no
5-St Adv	25	PEMBROKE		449	yes
5-St Pre	1	MO051150		449	yes
5-St Pre	2	MO050687	404		no
5-St Pre	3	MO050219	404		no
5-St Pre	4	MO061041	404		no
5-St Pre	5	BESS	404		no
5-St Pre	6	IL04-7874	404		no
5-St Pre	7	IL04-7942	404		no
5-St Pre	8	IL04-10721	404		no
5-St Pre	9	IL04-10741	404		no
5-St Pre	10	Kaskaskia	404		no
5-St Pre	11	0175A1-31-4	404	449	het
5-St Pre	12	0315A1-4	404	449	het
5-St Pre	13	03707A1--7	404		no
5-St Pre	14	0451A1-7-7	404		no
5-St Pre	15	04511A1-3	404	449	het
5-St Pre	16	OH03-183-32	404		no
5-St Pre	17	OH04-264-58		449	yes
5-St Pre	18	OH04-268-39	404		no
5-St Pre	19	OH04-213-39	404		no
5-St Pre	20	HOPEWELL	404		no
5-St Pre	21	KY01C-1587-16	404		no
5-St Pre	22	KY01C-1904-06	404		no
5-St Pre	23	KY01C-1587-08	404		no
5-St Pre	24	KY01C-1088-08	404		no
5-St Pre	25	PEMBROKE		449	yes

2008 Mason-Dixon
Entry List

Nursery	Entry	Sample Name	Pedigree	Source
Mason-Dixon	1	Pioneer25R47		CK
Mason-Dixon	2	Branson		CK
Mason-Dixon	3	Pioneer25R15		CK
Mason-Dixon	4	Tribute		CK
Mason-Dixon	5	KY00C-2698-01	Tribute/VA97W-213	KY
Mason-Dixon	6	KY00C-2053-39	91C-170-3/Tribute	KY
Mason-Dixon	7	KY98C-1474-02	Roane/2540//2552	KY
Mason-Dixon	8	KY97C-0508-01-01A-1	FFR 555W/VA94-52-25//2568	KY
Mason-Dixon	9	KY97C-0519-04-05	FFR 555W/2540 //2552	KY
Mason-Dixon	10	KY97C-0504-01-03	COKER 9803/L910097//2552	KY
Mason-Dixon	11	KY97C-0286-01	Foster/KY87C-42-8-6//2552	KY
Mason-Dixon	12	KY98C-1446-02-1	VA92-51-12/2580//Patterson	KY
Mason-Dixon	13	KY01C-1088-15	KY91C-170-3/KY90C-160-14//KY91C-170-3/Roane	KY
Mason-Dixon	14	KY01C-1094-23	KY91C-170-3/Declaration//KY91C-170-3/2552	KY
Mason-Dixon	15	KY01C-1094-26	KY91C-170-3/Declaration//KY91C-170-3/2552	KY
Mason-Dixon	16	KY01C-1094-27	KY91C-170-3/Declaration//KY91C-170-3/2552	KY
Mason-Dixon	17	KY01C-1094-31	KY91C-170-3/Declaration//KY91C-170-3/2552	KY
Mason-Dixon	18	KY01C-1156-05	KY91C-171-24/SS 520//KY91C-171-24/KY91C-170-3	KY
Mason-Dixon	19	KY01C-1159-14	KY91C-171-24/VA97W-213//KY91C-171-24/KY91C-170-3	KY
Mason-Dixon	20	KY01C-1088-09	KY91C-170-3/KY90C-160-14//KY91C-170-3/Roane	KY
Mason-Dixon	21	KY01C-1088-10	KY91C-170-3/KY90C-160-14//KY91C-170-3/Roane	KY
Mason-Dixon	22	KY01C-1531-16	Tribute/2552//Tribute/SS 520	KY
Mason-Dixon	23	KY01C-1286-05	Declaration/Tribute//Declaration/Pearl	KY
Mason-Dixon	24	MD00-W16-07-1	22WS#26/USG3209	MD
Mason-Dixon	25	MD00-W16-07-2	22WS#26/USG3209	MD
Mason-Dixon	26	MD00-W16-07-3	22WS#26/USG3209	MD
Mason-Dixon	27	MD00-W16-07-4	22WS#26/USG3209	MD
Mason-Dixon	28	MD00W24-07-1	ROBERTS/VAN98W128	MD
Mason-Dixon	29	MD00W53-07-1	XW672/TRIBUTE	MD
Mason-Dixon	30	MD00W389-07-1	PIO2643/MD71-5	MD

cont.

2008 Mason-Dixon

Entry List

Nursery	Entry	Sample Name	Pedigree	Source
Mason-Dixon	31	MD00W389-07-2	PIO2643/MD71-5	MD
Mason-Dixon	32	MD00W389-07-3	PIO2643/MD71-5	MD
Mason-Dixon	33	MD00W289-07-4	PIO2643/MD71-5	MD
Mason-Dixon	34	MD00W389-07-5	PIO2643/MD71-5	MD
Mason-Dixon	35	MD99W173-07-1	VA97W375(SISSON 'S')/ROOKIE	MD
Mason-Dixon	36	MD99W173-07-2	VA97W375(SISSON 'S')/ROOKIE	MD
Mason-Dixon	37	MD98W63-07-1	VA96-54-38/SS518	MD
Mason-Dixon	38	MD98W63-07-2	VA96-54-38/SS518	MD
Mason-Dixon	39	MD01W233-07-1	MCCORMICK/CHOPTANK	MD
Mason-Dixon	40	MD99W13-07-1	USG3209/CK9803	MD
Mason-Dixon	41	VA05W-108	COKER 9025 (BL930390)/ SISSON"S" (VA97W-375),F9	VA
Mason-Dixon	42	VA05W-125	COKER 9025 (BL930390)/ McCORMICK (VA98W-591),F8	VA
Mason-Dixon	43	VA05W-151	PIONEER 26R24 (XW674)/ McCORMICK (VA98W-591),F9	VA
Mason-Dixon	44	VA05W-168	FFR 522 (GA84414=P71761/CK797: LR-RES)/ TRIBUTE (VA98W-593),F9	VA
Mason-Dixon	45	VA05W-251	VA98W-130 (SAVANNAH/VA87-54-558 //VA88-54-328(LOV29/TYL// RCT*2/ GAINES)/GORE)// 96W-348 [IN81401A1-32-2(PM-RES)/ FFR555W]/PION 26R61 (XW663),F9	VA
Mason-Dixon	46	VA05W-436	OH 552(P71761A4-31-5-33/MD55-286-21)/AGS 2000,F9	VA
Mason-Dixon	47	VA03W-509	96-52-69(SAVANNAH/MADISON) /96-52-82(NASW85-5186/NC84-93, WHITE-SEED)//96-52-68 (MADISON/ NASW85-96)/ PION2643,F11	VA
Mason-Dixon	48	VA05W-22	96W-391[IN81401A1-32-2(PM-RES)/ CK9803]// SISSON"S" (96-54-244)/ PION2552,F10	VA
Mason-Dixon	49	VA05W-101	COKER 9025 (BL930390)/ SS550 (VA96W-247=SISSON"S"),F9	VA
Mason-Dixon	50	VA05W-139	PIONEER 26R24 (XW674)/ McCORMICK (VA98W-591),F9	VA
Mason-Dixon	51	VA05W-376	SISSON"S" (VA97W-375WS)/ TRIBUTE (VA98W-593),F9	VA
Mason-Dixon	52	VA06W-6	TRIBUTE (VA98W-593) / AGS2000 (UGA89482E7),F9	VA
Mason-Dixon	53	VA06W-93	SS550 (VA96W-247) & SISSON (VA96W-250)/ RC-STRATEGY [VA98W-586=92-51-39(IN71761A4-31-5-48// 71-54-147/MCN1813)/ROANE"S" (91-54-219)] ,F8	VA
Mason-Dixon	54	VA06W-112	VA97W-533(FFR555W/GORE// COKER9803 /VA87-54-636) / RC-STRATEGY [VA98W-586=92-51-39 (IN71761A4-31-5-48//71-54-147/ MCN1813)/ROANE"S" (91-54-219)] ,F8	VA
Mason-Dixon	55	VA06W-194	RC-STRATEGY [VA98W-586=92-51-39 (IN71761A4-31-5-48//71-54-147/ MCN1813)/ROANE"S" (91-54-219)] / VA98W-179(FFR555W/GORE// FFR555W/ CK9803),F8	VA
Mason-Dixon	56	VA06W-215	McCORMICK(VA98W-591) / GA881130LE5 (Lr37,Yr17,Sr38),F8	VA
Mason-Dixon	57	VA06W-237	COKER 9025 (BL930390=AL850046/ CK86-23)/ VA98W-430[91-54-343 (IN71761A4-31-5-48//71-54-147/ MCN1813)/PION2548],F8	VA
Mason-Dixon	58	VA06W-256	McCORMICK"S" (VA98W-590) / VAN99W-97[CK983//GA-ANDY/VA90-21-20(79IWWRN67//CK65-20/ATR)] ,F7	VA
Mason-Dixon	59	VA06W-392	VA96W-49(SAVANNAH/MADISON)/ AGS2000 (UGA89482E7) // RC-STRATEGY [VA98W-586=92-51-39 (IN71761A4-31-5-48//71-54-147/ MCN1813)/ ROANE"S" (91-54-219)] ,F8	VA
Mason-Dixon	60	VA06W-423	AGRIPRO_PATTON (A94-1048) / AGS2000(UGA89482E7) // VA99W-175 [91-54-343(IN71761A4-31-5-48// 71-54-147/ MCN1813)/92-52-52 (ADRIA/2*SAL)] ,F8	VA

2008 Mason-Dixon

Summary of all Markers

Nursery	Entry	Sample Name	1RS	H13	H9	Bdv2/3	Bx7 over-expressing
Mason-Dixon	1	Pioneer25R47	non-1RS	no	no	no	no
Mason-Dixon	2	Branson	non-1RS	no	no	no	no
Mason-Dixon	3	Pioneer25R15	non-1RS	no	no	no	no
Mason-Dixon	4	Tribute	1RS:1AL	no	no	no	no
Mason-Dixon	5	KY00C-2698-01	non-1RS	no	no	no	no
Mason-Dixon	6	KY00C-2053-39	non-1RS	no	no	no	no
Mason-Dixon	7	KY98C-1474-02	non-1RS	no	no	no	no
Mason-Dixon	8	KY97C-0508-01-01A-1	non-1RS	no	no	no	yes
Mason-Dixon	9	KY97C-0519-04-05	non-1RS	no	nd	no	no
Mason-Dixon	10	KY97C-0504-01-03	non-1RS	no	nd	no	nd
Mason-Dixon	11	KY97C-0286-01	non-1RS	no	no	nd	no
Mason-Dixon	12	KY98C-1446-02-1	non-1RS	no	no	no	no
Mason-Dixon	13	KY01C-1088-15	non-1RS	no	no	no	no
Mason-Dixon	14	KY01C-1094-23	non-1RS	nd	no	nd	no
Mason-Dixon	15	KY01C-1094-26	non-1RS	no	no	no	no
Mason-Dixon	16	KY01C-1094-27	non-1RS	no	no	no	no
Mason-Dixon	17	KY01C-1094-31	non-1RS	no	no	no	no
Mason-Dixon	18	KY01C-1156-05	non-1RS	no	no	no	no
Mason-Dixon	19	KY01C-1159-14	1RS:1BL	no	no	no	no
Mason-Dixon	20	KY01C-1088-09	non-1RS	no	no	no	no
Mason-Dixon	21	KY01C-1088-10	non-1RS	no	no	no	no
Mason-Dixon	22	KY01C-1531-16	1RS:1AL	no	no	no	no
Mason-Dixon	23	KY01C-1286-05	1RS:1AL	no	no	no	no
Mason-Dixon	24	MD00-W16-07-1	non-1RS	no	no	no	no
Mason-Dixon	25	MD00-W16-07-2	1RS:1BL	no	nd	no	no
Mason-Dixon	26	MD00-W16-07-3	1RS:1BL	no	no	no	het
Mason-Dixon	27	MD00-W16-07-4	1RS:1BL	no	no	no	no
Mason-Dixon	28	MD00W24-07-1	1RS:1BL	no	no	no	no
Mason-Dixon	29	MD00W53-07-1	1RS:1AL	no	no	no	no
Mason-Dixon	30	MD00W389-07-1	non-1RS	no	no	no	no
Mason-Dixon	31	MD00W389-07-2	non-1RS	no	no	no	no
Mason-Dixon	32	MD00W389-07-3	1RS:1BL	no	no	no	no
Mason-Dixon	33	MD00W289-07-4	non-1RS	nd	no	no	no
Mason-Dixon	34	MD00W389-07-5	1RS:1BL	no	no	no	no
Mason-Dixon	35	MD99W173-07-1	non-1RS	no	no	no	yes
Mason-Dixon	36	MD99W173-07-2	1RS:1BL	no	nd	no	het
Mason-Dixon	37	MD98W63-07-1	non-1RS	no	no	no	yes
Mason-Dixon	38	MD98W63-07-2	non-1RS	no	no	no	yes
Mason-Dixon	39	MD01W233-07-1	1RS:1AL	no	no	no	no
Mason-Dixon	40	MD99W13-07-1	1RS:1BL	no	no	no	no
Mason-Dixon	41	VA05W-108	non-1RS	no	no	no	no
Mason-Dixon	42	VA05W-125	1RS:1AL	no	no	no	no
Mason-Dixon	43	VA05W-151	1RS:1AL	no	no	no	no
Mason-Dixon	44	VA05W-168	1RS:1AL	no	no	no	no
Mason-Dixon	45	VA05W-251	non-1RS	no	no	no	no
Mason-Dixon	46	VA05W-436	non-1RS	no	no	no	no
Mason-Dixon	47	VA03W-509	1RS:1BL	no	no	no	no
Mason-Dixon	48	VA05W-22	non-1RS	no	no	no	no
Mason-Dixon	49	VA05W-101	1RS:1BL	no	no	no	no
Mason-Dixon	50	VA05W-139	1RS:1BL	no	no	no	no
Mason-Dixon	51	VA05W-376	1RS:1BL 1RS:1AL	no	no	no	no
Mason-Dixon	52	VA06W-6	1RS:1BL	no	no	no	yes
Mason-Dixon	53	VA06W-93	non-1RS	no	no	no	no
Mason-Dixon	54	VA06W-112	non-1RS	no	no	no	no
Mason-Dixon	55	VA06W-194	non-1RS	no	no	no	no
Mason-Dixon	56	VA06W-215	non-1RS	no	no	no	no
Mason-Dixon	57	VA06W-237	non-1RS	no	no	no	no
Mason-Dixon	58	VA06W-256	non-1RS	no	no	no	no
Mason-Dixon	59	VA06W-392	nd	nd	nd	nd	nd
Mason-Dixon	60	VA06W-423	nd	nd	nd	nd	nd

FHB QTLs

2008

Nursery	Entry	Sample Name	umn	umn	Fhb1	cfb	cfb	gwm	gwm	gwm	gwm	Fhb 2DL- Wuhan1/W14
			10	10		233	233	539	539	608	608	
Mason-Dixon	1	Pioneer25R47	236	239	het	278		133	142	150		no
Mason-Dixon	2	Branson	236		no	284		144		150		no
Mason-Dixon	3	Pioneer25R15	236		no	270		133		156		no
Mason-Dixon	4	Tribute	236		no	278		135	139	150		no
Mason-Dixon	5	KY00C-2698-01	236		no	272		133		158		no
Mason-Dixon	6	KY00C-2053-39	236		no	270		133		150		no
Mason-Dixon	7	KY98C-1474-02	228		no	270		133		156		no
Mason-Dixon	8	KY97C-0508-01-01A-1	236		no	272		133		156		no
Mason-Dixon	9	KY97C-0519-04-05	236		no	270		137		156		no
Mason-Dixon	10	KY97C-0504-01-03	236		no	270		133		156		no
Mason-Dixon	11	KY97C-0286-01	236		no	270		133		156		no
Mason-Dixon	12	KY98C-1446-02-1	228		no	270	272	133		156		no
Mason-Dixon	13	KY01C-1088-15	236		no	272		139		156		no
Mason-Dixon	14	KY01C-1094-23	228		no	278		137		150		no
Mason-Dixon	15	KY01C-1094-26	236		no	270		133		156		no
Mason-Dixon	16	KY01C-1094-27	236		no	270		133		156		no
Mason-Dixon	17	KY01C-1094-31	236		no	270	272	133		158		no
Mason-Dixon	18	KY01C-1156-05	236		no	278		150		150		no
Mason-Dixon	19	KY01C-1159-14	236		no	280		137		156		no
Mason-Dixon	20	KY01C-1088-09	236		no	272		133		158		no
Mason-Dixon	21	KY01C-1088-10	236		no	270		133		156		no
Mason-Dixon	22	KY01C-1531-16	236		no	270		139		156		no
Mason-Dixon	23	KY01C-1286-05	236		no	272		133		158		no
Mason-Dixon	24	MD00-W16-07-1	236		no	278		131		158		no
Mason-Dixon	25	MD00-W16-07-2	236		no	280		132		150		no
Mason-Dixon	26	MD00-W16-07-3	236		no	278		131		158		no
Mason-Dixon	27	MD00-W16-07-4	236		no	278		131		158		no
Mason-Dixon	28	MD00W24-07-1	236		no	270		139		141		no
Mason-Dixon	29	MD00W53-07-1	239		yes	278		135		150		no
Mason-Dixon	30	MD00W389-07-1	236		no	270		137		156		no
Mason-Dixon	31	MD00W389-07-2	236		no	270		137		150		no
Mason-Dixon	32	MD00W389-07-3	236		no	272		137		154		no
Mason-Dixon	33	MD00W289-07-4	236		no	272		133		nd		no
Mason-Dixon	34	MD00W389-07-5	236		no	278		137		150		no
Mason-Dixon	35	MD99W173-07-1	236		no	290		139		154		no
Mason-Dixon	36	MD99W173-07-2	236		no	270		139		150		no
Mason-Dixon	37	MD98W63-07-1	236		no	270		133		156		no
Mason-Dixon	38	MD98W63-07-2	236		no	270		133		156		no
Mason-Dixon	39	MD01W233-07-1	228		no	272		131		154		no
Mason-Dixon	40	MD99W13-07-1	236		no	272		131	137	154		no
Mason-Dixon	41	VA05W-108	236		no	278		131		150		no
Mason-Dixon	42	VA05W-125	228		no	278		131		150		no
Mason-Dixon	43	VA05W-151	228		no	272		133		162		no
Mason-Dixon	44	VA05W-168	228		no	272	278	135		150	162	no
Mason-Dixon	45	VA05W-251	239		yes	280		131		150		no
Mason-Dixon	46	VA05W-436	236		no	280		124	135	154		no
Mason-Dixon	47	VA03W-509	236		no	272		139		154		no
Mason-Dixon	48	VA05W-22	236		no	272	290	137		154		no
Mason-Dixon	49	VA05W-101	236		no	272		131	137	154		no
Mason-Dixon	50	VA05W-139	236		no	272		137		154	162	no
Mason-Dixon	51	VA05W-376	236		no	272	278	141		150	162	no
Mason-Dixon	52	VA06W-6	236		no	278		135		150		no
Mason-Dixon	53	VA06W-93	236		no	272		131	137	154	162	no
Mason-Dixon	54	VA06W-112	236		no	278		135		150		no
Mason-Dixon	55	VA06W-194	236		no	272		131		150		no
Mason-Dixon	56	VA06W-215	228		no	272		133	139	150		no
Mason-Dixon	57	VA06W-237	228		no	272		133		150		no
Mason-Dixon	58	VA06W-256	228	236	no	270		139		150		no
Mason-Dixon	59	VA06W-392	nd		nd	nd		nd		nd		nd
Mason-Dixon	60	VA06W-423	nd		nd	nd		nd		nd		nd

FHB QTLs

2008

Nursery	Entry	Sample Name	gwm	gwm	wmc	wmc	barc	barc	barc	Fhb 5A	Fhb 5A
			304	304	705	705	117	117	186	Ernie	Ning7840
Mason-Dixon	1	Pioneer25R47	199		133	164	217		203	no	no
Mason-Dixon	2	Branson	199		162		217		203	no	no
Mason-Dixon	3	Pioneer25R15	199		164		217		203	no	no
Mason-Dixon	4	Tribute	199		162		217		203	no	no
Mason-Dixon	5	KY00C-2698-01	199	220	135	164	221		203	no	no
Mason-Dixon	6	KY00C-2053-39	199		164		217		203	no	no
Mason-Dixon	7	KY98C-1474-02	199		164		217		203	no	no
Mason-Dixon	8	KY97C-0508-01-01A-1	199		162		217		203	no	no
Mason-Dixon	9	KY97C-0519-04-05	199		164		217		203	no	no
Mason-Dixon	10	KY97C-0504-01-03	199		162		217		203	no	no
Mason-Dixon	11	KY97C-0286-01	199		162		217		203	no	no
Mason-Dixon	12	KY98C-1446-02-1	199		162		217		203	no	no
Mason-Dixon	13	KY01C-1088-15	199		164		217		203	no	no
Mason-Dixon	14	KY01C-1094-23	199		162		217	nd		no	no
Mason-Dixon	15	KY01C-1094-26	220		135		221		203	yes	no
Mason-Dixon	16	KY01C-1094-27	220		135		221		203	yes	no
Mason-Dixon	17	KY01C-1094-31	220		135		221	nd		yes?	no
Mason-Dixon	18	KY01C-1156-05	220	223	135		221		203	yes	no
Mason-Dixon	19	KY01C-1159-14	220		135		221		203	yes	no
Mason-Dixon	20	KY01C-1088-09	220		135		221		203	yes	no
Mason-Dixon	21	KY01C-1088-10	199		nd		217		203	no	no
Mason-Dixon	22	KY01C-1531-16	199		162		217		203	no	no
Mason-Dixon	23	KY01C-1286-05	220		135		221		203	yes	no
Mason-Dixon	24	MD00-W16-07-1	215		135		nd		213	no	no
Mason-Dixon	25	MD00-W16-07-2	215		135		nd		213	no	no
Mason-Dixon	26	MD00-W16-07-3	215		135		225		213	no	no
Mason-Dixon	27	MD00-W16-07-4	215		135		225		213	no	no
Mason-Dixon	28	MD00W24-07-1	220		135		221		203	yes	no
Mason-Dixon	29	MD00W53-07-1	199		162		217	nd		no	no
Mason-Dixon	30	MD00W389-07-1	199		162		217		203	no	no
Mason-Dixon	31	MD00W389-07-2	199		162		217		203	no	no
Mason-Dixon	32	MD00W389-07-3	199		162		217		203	no	no
Mason-Dixon	33	MD00W289-07-4	220		135		221		203	yes	no
Mason-Dixon	34	MD00W389-07-5	199		162		nd		203	no	no
Mason-Dixon	35	MD99W173-07-1	220		135		221		203	yes	no
Mason-Dixon	36	MD99W173-07-2	218		156		221		213	no	no
Mason-Dixon	37	MD98W63-07-1	220		135		221		203	yes	no
Mason-Dixon	38	MD98W63-07-2	220		135		221		203	yes	no
Mason-Dixon	39	MD01W233-07-1	213		162		217		203	no	no
Mason-Dixon	40	MD99W13-07-1	199	220	135	162	217	221	203	het	no
Mason-Dixon	41	VA05W-108	215		133		225		213	no	no
Mason-Dixon	42	VA05W-125	199		162		217		203	no	no
Mason-Dixon	43	VA05W-151	199		164		217		203	no	no
Mason-Dixon	44	VA05W-168	199		162		217		203	no	no
Mason-Dixon	45	VA05W-251	199		162		217		203	no	no
Mason-Dixon	46	VA05W-436	220		135		221		203	yes	no
Mason-Dixon	47	VA03W-509	199		164		217		203	no	no
Mason-Dixon	48	VA05W-22	232		135		221		203	no	no
Mason-Dixon	49	VA05W-101	215		133		225		213	no	no
Mason-Dixon	50	VA05W-139	199		164		217		203	no	no
Mason-Dixon	51	VA05W-376	215	220	133		225		213	no	no
Mason-Dixon	52	VA06W-6	199		162		217		203	no	no
Mason-Dixon	53	VA06W-93	199		162	166	217		203	no	no
Mason-Dixon	54	VA06W-112	201		133		217		203	no	no
Mason-Dixon	55	VA06W-194	201		133		217		203	no	no
Mason-Dixon	56	VA06W-215	222		135		221		203	no	no
Mason-Dixon	57	VA06W-237	220		135		221		203	yes	no
Mason-Dixon	58	VA06W-256	199		162		217		203	no	no
Mason-Dixon	59	VA06W-392	nd		nd		nd		nd	nd	nd
Mason-Dixon	60	VA06W-423	nd		nd		nd		nd	nd	nd

Leaf, Stripe & Stem Rusts

2008

Nursery	Entry	Sample Name	wmc	wmc	Sr36	barc	barc	Sr24/Lr24	ventriup	Yr17/Lr37/Sr38	slv	L434/Yr18/Pm38
			477	477		71	71				34	
Mason-Dixon	1	Pioneer25R47	167		no	105		no			235	no
Mason-Dixon	2	Branson	162		no	105		no			235	no
Mason-Dixon	3	Pioneer25R15	167		no	105		no			235	no
Mason-Dixon	4	Tribute	167		no	88		yes			235	no
Mason-Dixon	5	KY00C-2698-01	169		no	105		no	256	yes	235	no
Mason-Dixon	6	KY00C-2053-39	169		no	105		no			235	no
Mason-Dixon	7	KY98C-1474-02	162		no	105		no			235	no
Mason-Dixon	8	KY97C-0508-01-01A-1	186		yes	105		no			235	no
Mason-Dixon	9	KY97C-0519-04-05	162		no	105		no			nd	nd
Mason-Dixon	10	KY97C-0504-01-03	169		no	105		no			235	no
Mason-Dixon	11	KY97C-0286-01	162		no	105		no			235	no
Mason-Dixon	12	KY98C-1446-02-1	162		no	113		no			235	no
Mason-Dixon	13	KY01C-1088-15	169		no	105		no			235	no
Mason-Dixon	14	KY01C-1094-23	nd		nd	nd		nd			235	no
Mason-Dixon	15	KY01C-1094-26	169		no	105		no			235	no
Mason-Dixon	16	KY01C-1094-27	169		no	105		no			235	no
Mason-Dixon	17	KY01C-1094-31	169		no	105		no			235	no
Mason-Dixon	18	KY01C-1156-05	162		no	105		no			235	no
Mason-Dixon	19	KY01C-1159-14	169		no	105		no			235	no
Mason-Dixon	20	KY01C-1088-09	167		no	113		no			235	no
Mason-Dixon	21	KY01C-1088-10	162	169	no	105		no			235	no
Mason-Dixon	22	KY01C-1531-16	162		no	88		yes			235	no
Mason-Dixon	23	KY01C-1286-05	169		no	105		no			235	no
Mason-Dixon	24	MD00-W16-07-1	162		no	105		no			235	no
Mason-Dixon	25	MD00-W16-07-2	167		no	105		no			nd	nd
Mason-Dixon	26	MD00-W16-07-3	167		no	105		no			235	no
Mason-Dixon	27	MD00-W16-07-4	162		no	105		no			235	no
Mason-Dixon	28	MD00W24-07-1	186		yes	113		no			235	no
Mason-Dixon	29	MD00W53-07-1	167		no	88		yes			235	no
Mason-Dixon	30	MD00W389-07-1	186		yes	113		no			235	no
Mason-Dixon	31	MD00W389-07-2	186		yes	113		no			nd	nd
Mason-Dixon	32	MD00W389-07-3	186		yes	113		no	256	yes	235	no
Mason-Dixon	33	MD00W289-07-4	169		no	105		no			235	no
Mason-Dixon	34	MD00W389-07-5	186		yes	105		no			235	no
Mason-Dixon	35	MD99W173-07-1	169		no	nd		nd			235	no
Mason-Dixon	36	MD99W173-07-2	169		no	113		no	256	yes	235	no
Mason-Dixon	37	MD98W63-07-1	162		no	105		no			235	no
Mason-Dixon	38	MD98W63-07-2	162		no	105		no			235	no
Mason-Dixon	39	MD01W233-07-1	167		no	88		yes			235	no
Mason-Dixon	40	MD99W13-07-1	186		yes	105		no			235	no
Mason-Dixon	41	VA05W-108	186		yes	93	105	no			235	no
Mason-Dixon	42	VA05W-125	162		no	105		no			235	no
Mason-Dixon	43	VA05W-151	162	167	no	88		yes			235	no
Mason-Dixon	44	VA05W-168	167		no	88		yes			235	no
Mason-Dixon	45	VA05W-251	167		no	113		no			235	no
Mason-Dixon	46	VA05W-436	165		no	113		no			235	no
Mason-Dixon	47	VA03W-509	186		yes	105	113	no			235	no
Mason-Dixon	48	VA05W-22	186		yes	113		no			235	no
Mason-Dixon	49	VA05W-101	186		yes	105		no			235	no
Mason-Dixon	50	VA05W-139	162		no	105		no			235	no
Mason-Dixon	51	VA05W-376	167		no	105		no			235	no
Mason-Dixon	52	VA06W-6	165		no	113		no			235	no
Mason-Dixon	53	VA06W-93	nd		nd	105		no			235	no
Mason-Dixon	54	VA06W-112	186		yes	105		no			235	no
Mason-Dixon	55	VA06W-194	167		no	113		no			235	no
Mason-Dixon	56	VA06W-215	167		no	105		no			235	no
Mason-Dixon	57	VA06W-237	162	167	no	113		no			235	no
Mason-Dixon	58	VA06W-256	167		no	113		no			235	no
Mason-Dixon	59	VA06W-392	nd		nd	nd		nd	nd	nd	nd	nd
Mason-Dixon	60	VA06W-423	nd		nd	nd		nd	nd	nd	nd	nd

Rye Translocation -- Hessian Fly -- Barley Yellow Dwarf Virus

2008

Nursery	Entry	Sample Name	scm	scm	1RS	cf	cf	H13	cf	cf	H9	Bdv	Bdv	Bdv2/3
			9	9		132	132		2153	2153		3	3	
Mason-Dixon	1	Pioneer25R47			non-1RS	116		no	204	213	no	185		no
Mason-Dixon	2	Branson			non-1RS	116		no	204	221	no	185		no
Mason-Dixon	3	Pioneer25R15			non-1RS	116		no	204		no	185		no
Mason-Dixon	4	Tribute		224	1RS:1AL	116		no	196		no	181	185	no
Mason-Dixon	5	KY00C-2698-01			non-1RS	116		no	196		no	185		no
Mason-Dixon	6	KY00C-2053-39			non-1RS	116		no	204		no	185		no
Mason-Dixon	7	KY98C-1474-02			non-1RS	116		no	204	213	no	185		no
Mason-Dixon	8	KY97C-0508-01-01A-1			non-1RS	116		no	204		no	185		no
Mason-Dixon	9	KY97C-0519-04-05			non-1RS	116		no	nd		nd	185		no
Mason-Dixon	10	KY97C-0504-01-03			non-1RS	116		no	nd		nd	185		no
Mason-Dixon	11	KY97C-0286-01			non-1RS	116		no	204		no	nd		nd
Mason-Dixon	12	KY98C-1446-02-1			non-1RS	116		no	204		no	185		no
Mason-Dixon	13	KY01C-1088-15			non-1RS	116		no	221		no	185		no
Mason-Dixon	14	KY01C-1094-23			non-1RS	nd		nd	204		no	nd		nd
Mason-Dixon	15	KY01C-1094-26			non-1RS	116		no	204		no	185		no
Mason-Dixon	16	KY01C-1094-27			non-1RS	116		no	204		no	185		no
Mason-Dixon	17	KY01C-1094-31			non-1RS	116		no	204		no	185		no
Mason-Dixon	18	KY01C-1156-05			non-1RS	116		no	204		no	185		no
Mason-Dixon	19	KY01C-1159-14		208	1RS:1BL	116		no	196		no	185		no
Mason-Dixon	20	KY01C-1088-09			non-1RS	116		no	204		no	185		no
Mason-Dixon	21	KY01C-1088-10			non-1RS	116		no	204	219	no	185		no
Mason-Dixon	22	KY01C-1531-16		224	1RS:1AL	116		no	204		no	185		no
Mason-Dixon	23	KY01C-1286-05		224	1RS:1AL	116		no	204		no	185		no
Mason-Dixon	24	MD00-W16-07-1			non-1RS	116		no	213		no	185		no
Mason-Dixon	25	MD00-W16-07-2		208	1RS:1BL	116		no	nd		nd	185		no
Mason-Dixon	26	MD00-W16-07-3		208	1RS:1BL	116		no	208		no	185		no
Mason-Dixon	27	MD00-W16-07-4		208	1RS:1BL	116		no	208		no	181	185	no
Mason-Dixon	28	MD00W24-07-1		208	1RS:1BL	116		no	182		no	185		no
Mason-Dixon	29	MD00W53-07-1		224	1RS:1AL	116		no	196		no	185		no
Mason-Dixon	30	MD00W389-07-1			non-1RS	116		no	204		no	185		no
Mason-Dixon	31	MD00W389-07-2			non-1RS	116		no	219	221	no	185		no
Mason-Dixon	32	MD00W389-07-3		208	1RS:1BL	116		no	201		no	185		no
Mason-Dixon	33	MD00W289-07-4			non-1RS	nd		nd	201		no	185		no
Mason-Dixon	34	MD00W389-07-5		208	1RS:1BL	116		no	204		no	185		no
Mason-Dixon	35	MD99W173-07-1			non-1RS	116		no	204		no	183	188	no
Mason-Dixon	36	MD99W173-07-2		208	1RS:1BL	116		no	nd		nd	183	188	no
Mason-Dixon	37	MD98W63-07-1			non-1RS	116		no	194		no	185		no
Mason-Dixon	38	MD98W63-07-2			non-1RS	116		no	204		no	185		no
Mason-Dixon	39	MD01W233-07-1		224	1RS:1AL	116		no	200		no	185		no
Mason-Dixon	40	MD99W13-07-1		208	1RS:1BL	116		no	204		no	185		no
Mason-Dixon	41	VA05W-108			non-1RS	116		no	208		no	185		no
Mason-Dixon	42	VA05W-125		224	1RS:1AL	116		no	196	221	no	185		no
Mason-Dixon	43	VA05W-151		224	1RS:1AL	116		no	211		no	185		no
Mason-Dixon	44	VA05W-168		224	1RS:1AL	116		no	194	221	no	185	187	no
Mason-Dixon	45	VA05W-251			non-1RS	116		no	194		no	185		no
Mason-Dixon	46	VA05W-436			non-1RS	116		no	221		no	185		no
Mason-Dixon	47	VA03W-509		208	1RS:1BL	116		no	221		no	185		no
Mason-Dixon	48	VA05W-22			non-1RS	116		no	208		no	185		no
Mason-Dixon	49	VA05W-101		208	1RS:1BL	116		no	208		no	185		no
Mason-Dixon	50	VA05W-139		208	1RS:1BL	116		no	204	208	no	185		no
Mason-Dixon	51	VA05W-376		208	224 1RS:1BL 1RS:1AL	116		no	208		no	181	185	no
Mason-Dixon	52	VA06W-6		208	1RS:1BL	116		no	204		no	185		no
Mason-Dixon	53	VA06W-93			non-1RS	116		no	204	208	no	185		no
Mason-Dixon	54	VA06W-112			non-1RS	116		no	204		no	185		no
Mason-Dixon	55	VA06W-194			non-1RS	116		no	204		no	185	187	no
Mason-Dixon	56	VA06W-215			non-1RS	116		no	204		no	185		no
Mason-Dixon	57	VA06W-237			non-1RS	116		no	204		no	185		no
Mason-Dixon	58	VA06W-256			non-1RS	116		no	201		no	185		no
Mason-Dixon	59	VA06W-392		nd	nd	nd		nd	nd		nd	nd		nd
Mason-Dixon	60	VA06W-423		nd	nd	nd		nd	nd		nd	nd		nd

Quality Traits

2008

Nursery	Entry	Sample Name	bx7oe	bx7oe	Bx7 over-expressing
Mason-Dixon	1	Pioneer25R47	404		no
Mason-Dixon	2	Branson	404		no
Mason-Dixon	3	Pioneer25R15	404		no
Mason-Dixon	4	Tribute	404		no
Mason-Dixon	5	KY00C-2698-01	404		no
Mason-Dixon	6	KY00C-2053-39	404		no
Mason-Dixon	7	KY98C-1474-02	404		no
Mason-Dixon	8	KY97C-0508-01-01A-1		449	yes
Mason-Dixon	9	KY97C-0519-04-05	404		no
Mason-Dixon	10	KY97C-0504-01-03	nd		nd
Mason-Dixon	11	KY97C-0286-01	404		no
Mason-Dixon	12	KY98C-1446-02-1	404		no
Mason-Dixon	13	KY01C-1088-15	404		no
Mason-Dixon	14	KY01C-1094-23	404		no
Mason-Dixon	15	KY01C-1094-26	404		no
Mason-Dixon	16	KY01C-1094-27	404		no
Mason-Dixon	17	KY01C-1094-31	404		no
Mason-Dixon	18	KY01C-1156-05	404		no
Mason-Dixon	19	KY01C-1159-14	404		no
Mason-Dixon	20	KY01C-1088-09	404		no
Mason-Dixon	21	KY01C-1088-10	404		no
Mason-Dixon	22	KY01C-1531-16	404		no
Mason-Dixon	23	KY01C-1286-05	404		no
Mason-Dixon	24	MD00-W16-07-1	404		no
Mason-Dixon	25	MD00-W16-07-2	404		no
Mason-Dixon	26	MD00-W16-07-3	404	449	het
Mason-Dixon	27	MD00-W16-07-4	404		no
Mason-Dixon	28	MD00W24-07-1	404		no
Mason-Dixon	29	MD00W53-07-1	404		no
Mason-Dixon	30	MD00W389-07-1	404		no
Mason-Dixon	31	MD00W389-07-2	404		no
Mason-Dixon	32	MD00W389-07-3	404		no
Mason-Dixon	33	MD00W289-07-4	404		no
Mason-Dixon	34	MD00W389-07-5	404		no
Mason-Dixon	35	MD99W173-07-1		449	yes
Mason-Dixon	36	MD99W173-07-2	404	449	het
Mason-Dixon	37	MD98W63-07-1		449	yes
Mason-Dixon	38	MD98W63-07-2		449	yes
Mason-Dixon	39	MD01W233-07-1	404		no
Mason-Dixon	40	MD99W13-07-1	404		no
Mason-Dixon	41	VA05W-108	404		no
Mason-Dixon	42	VA05W-125	404		no
Mason-Dixon	43	VA05W-151	404		no
Mason-Dixon	44	VA05W-168	404		no
Mason-Dixon	45	VA05W-251	404		no
Mason-Dixon	46	VA05W-436	404		no
Mason-Dixon	47	VA03W-509	404		no
Mason-Dixon	48	VA05W-22	404		no
Mason-Dixon	49	VA05W-101	404		no
Mason-Dixon	50	VA05W-139	404		no
Mason-Dixon	51	VA05W-376	404		no
Mason-Dixon	52	VA06W-6		449	yes
Mason-Dixon	53	VA06W-93	404		no
Mason-Dixon	54	VA06W-112	404		no
Mason-Dixon	55	VA06W-194	404		no
Mason-Dixon	56	VA06W-215	404		no
Mason-Dixon	57	VA06W-237	404		no
Mason-Dixon	58	VA06W-256	404		no
Mason-Dixon	59	VA06W-392	nd		nd
Mason-Dixon	60	VA06W-423	nd		nd

2008 Gulf Atlantic Wheat Nursery

Entry List

Nursery	Entry	Sample Name	Pedigree
GAWN	1	NC04-22866	P86958 / C9835 // NC94-7197(H13)
GAWN	2	NC05-21090	BURR / NC96BGTA6 SIB // NATCHEZ
GAWN	3	NC05-23945	NC94-7197 / P2643
GAWN	4	NC05-21642	NC96-14629 / P2643
GAWN	5	NC05-24757	NC96-14629 / P2643
GAWN	6	NC05-24112	TRIBUTE / NC98-25388(CLB)
GAWN	7	NC05-20276	P86300 / NC95-22426(SN)
GAWN	8	NC05-22804	P92118 / VA94-52-25 // NC96BGTD2(SN)
GAWN	9	NC05-19684	P92118 / VA94-52-25// NC96BGTD2(SN)
GAWN	10	NC05-20671	P92188 / NC95-22365 // ROANE(SN)
GAWN	11	NC05-22975	ROBERTS / NC96BGTA6 // NC95-29317 / VA96-54-225
GAWN	12	NC05-21937	SHAAN 85-15 / SS 520 // NC-NEUSE(SCAB)
GAWN	13	LA01029D-139-3-C	TRIBUTE/LA85411D4-1-1-2
GAWN	14	LA01034D-235-1-C	TRIBUTE/LA94242D4-1(VA92-54-104/GA85238-C3)
GAWN	15	LA01035D-207-3-B	TRIBUTE/AGS2000
GAWN	16	LA01108D-71-1-B	P26R61/LA92283C64-1(M1003/KS91WGRC11(A.S.LR))
GAWN	17	LA01110D-150	P26R61/LA94242D24-4 (VA92-54-104/GA85238-C3-AB3)
GAWN	18	LA01110D-251	P26R61/LA94242D24-4 (VA92-54-104/GA85238-C3-AB3)
GAWN	19	LA01110D-81-1-B	P26R61/LA94242D24-4 (VA92-54-104/GA85238-C3-AB3)
GAWN	21	LA01110D-84-1-C	P26R61/LA94242D24-4 (VA92-54-104/GA85238-C3-AB3)
GAWN	22	LA01113D-44	P26R61/NC98-24710
GAWN	23	LA01138D-55	LA00056(LA841/LA422)/AGS2000
GAWN	24	LA01139D-116	LA00056(LA841/LA422)/P26R61
GAWN	25	LA01140D-163	LA00056(LA841/LA422)/P26R61
GAWN	26	VA03E-509	.
GAWN	27	VA05W-22	96W-391[IN81401A1-32-2(PM-RES)/ CK9803]// SISSON"S" (96-54-244)/ PION2552,F10
GAWN	28	VA05W-139	PIONEER 26R24 (XW674)/ McCORMICK (VA98W-591),F9
GAWN	29	VA05W-376	SISSON"S" (VA97W-375WS)/ TRIBUTE (VA98W-593),F9
GAWN	30	VA06W-6	TRIBUTE (VA98W-593) / AGS2000 (UGA89482E7),F9
GAWN	31	VA06W-93	.
GAWN	32	VA06W-112	.
GAWN	33	VA06W-194	.
GAWN	34	VA06W-215	McCORMICK(VA98W-591) / GA881130LE5 (Lr37,Yr17,Sr38),F8
GAWN	35	VA06W-237	.
GAWN	36	VA06W-256	.
GAWN	37	VA06W-392	.
GAWN	38	GA-011264-7E13	AGS 2000 * 3 / 931433
GAWN	39	GA-031238-DH7-7A28	96229-3E39 / 951395-3E25
GAWN	41	GA-001169-7E15	96667 *2 / AGS 2000

2008 Gulf Atlantic Wheat Nursery

Entry List

Nursery	Entry	Sample Name	Pedigree
GAWN	42	GA-001492-7E9	941396 / 2* AGS 2000
GAWN	43	GA-001170-7E26	PIO 26R61 / 96667 // AGS 2000
GAWN	44	GA-981131-7E33	91215 / 901146
GAWN	45	GA-00190-7A14	931298 / 92601
GAWN	46	GA-031238-DH7-7A28	96229-3E39 / 951395-3E25
GAWN	47	GA-00034-7A17	93132 / 921204
GAWN	48	GA-00138-7A6	AGS 2000 / 2* 881130 // 931520
GAWN	49	GA-001169-G1-10-6-3	96667 *2 / AGS 2000
GAWN	50	GA-011636-2	AGS 2000 * 3 / 93322
GAWN	51	AR99136-13-2	Coker 9663/WGRC 40
GAWN	52	AR99110-11-2	Betty/Jaypee
GAWN	53	AR99110-11-4	Betty/Jaypee
GAWN	54	AR99093-1-1	Pat/Betty
GAWN	55	AR99095-18-1	Pat/Coker 9704
GAWN	56	AR99033-5-1	AR664-21-1/AR835-21-1-2
GAWN	57	AR99114-2-1	CAH-106/Pat
GAWN	58	AR99095-10-2	Pat/Coker 9704
GAWN	59	AR99033-6-2	AR664-21-1/AR835-21-1-2
GAWN	61	AR99037-3-1	AR664-21-1/CAH-106
GAWN	62	AR99016-1-1	AR584A-3-1/Sabbe
GAWN	63	AR99110W-13-1	Betty/Jaypee
GAWN	64	SCW990002K1	.
GAWN	65	SCW990002V1	.
GAWN	66	SCW990002W1	.
GAWN	67	SCW990022A1	F1-VA,H14H15/H13/H14H15//F2-VA85-24/H14H15
GAWN	68	SCW990022B1	F1-VA,H14H15/H13/H14H15//F2-VA85-24/H14H15
GAWN	69	SCW990022C1	F1-VA,H14H15/H13/H14H15//F2-VA85-24/H14H15
GAWN	70	SCW990013A1	.
GAWN	71	SCW990013D1	.
GAWN	72	SCW990013H1	..
GAWN	73	SCW990013J1	.
GAWN	74	SCW990013R1	.
GAWN	75	SCW990013V1	.
GAWN	76	FL01005-K5	LA841/GA92601-17-4-9
GAWN	77	FL01108C-K2	P26R61/LA92283C64-1
GAWN	78	FL02006C-K1	NC98-24710(HFL)/AGS2000,F1//PIO26R61
GAWN	79	FL02006C-K4	NC98-24710(HFL)/AGS2000,F1//PIO26R61
GAWN	80	FL02036C-K6	95158BUB69-3/AGS2000
GAWN	81	FL02154C-K3	ND2928 (FHB)/FL95IN2762 (HFL)
GAWN	82	FL99077D-E29-K4	BL940026/AGS2000

2008 Gulf Atlantic Wheat Nursery

Summary of all Markers

Nursery	Entry	Sample Name	Fhb 2DL-				Sr36	Sr24/Lr24	Yr17/Lr37/Sr38	L434/Yr18/Pm38
			Wuhan1/W	Fhb 5A	Fhb 5A					
			Fhb1	14	Ernie	<i>Ning7840</i>				
GAWN	1	NC04-22866	no	no	no	<i>no</i>	yes	no		no
GAWN	2	NC05-21090	no	no	no	<i>no</i>	het	yes	yes	no
GAWN	3	NC05-23945	no	no	no	<i>no</i>	yes	no		no
GAWN	4	NC05-21642	no	no	no	<i>no</i>	yes	no		no
GAWN	5	NC05-24757	no	no	no	<i>no</i>	yes	no		no
GAWN	6	NC05-24112	no	no	no	<i>no</i>	yes	no		no
GAWN	7	NC05-20276	no	no	no	<i>no</i>	yes	no		no
GAWN	8	NC05-22804	no	no	no	<i>no</i>	yes	no		no
GAWN	9	NC05-19684	no	no	no	<i>no</i>	yes	no		no
GAWN	10	NC05-20671	het	no	no	<i>no</i>	yes	no		no
GAWN	11	NC05-22975	no	no	no	<i>no</i>	yes	no	yes	no
GAWN	12	NC05-21937	yes	no	no	<i>no</i>	yes	no		no
GAWN	13	LA01029D-139-3-C	no	no	no	<i>no</i>	no	no		no
GAWN	14	LA01034D-235-1-C	no	no	no	<i>no</i>	no	no	yes	no
GAWN	15	LA01035D-207-3-B	no	no	no	<i>no</i>	no	no		no
GAWN	16	LA01108D-71-1-B	no	no	no	<i>no</i>	no	no	yes	no
GAWN	17	LA01110D-150	no	no	het	<i>no</i>	no	no	yes	no
GAWN	18	LA01110D-251	no	no	no	<i>no</i>	no	no	yes	no
GAWN	19	LA01110D-81-1-B	no	no	no	<i>no</i>	no	no		no
GAWN	21	LA01110D-84-1-C	no	no	no	<i>no</i>	no	no	yes	no
GAWN	22	LA01113D-44	no	no	no	<i>no</i>	no	no	yes	no
GAWN	23	LA01138D-55	no	no	no	<i>no</i>	no	no	yes	no
GAWN	24	LA011139D-116	no	no	no	<i>no</i>	no	no	yes	no
GAWN	25	LA01140D-163	no	no	no	<i>no</i>	no	no	yes	no
GAWN	26	VA03E-509	no	no	no	<i>no</i>	yes	no		no
GAWN	27	VA05W-22	no	no	yes	<i>no</i>	yes	no		no
GAWN	28	VA05W-139	no	no	no	<i>no</i>	no	no		no
GAWN	29	VA05W-376	no	no	no	<i>no</i>	no	no		no
GAWN	30	VA06W-6	no	no	no	<i>no</i>	no	no		no
GAWN	31	VA06W-93	no	no	no	<i>no</i>	yes	no		no
GAWN	32	VA06W-112	no	no	no	<i>no</i>	yes	no		no
GAWN	33	VA06W-194	no	no	no	<i>no</i>	no	no		no
GAWN	34	VA06W-215	no	no	no	<i>no</i>	no	no		no
GAWN	35	VA06W-237	no	no	yes	<i>no</i>	no	no		no
GAWN	36	VA06W-256	no	no	no	<i>no</i>	no	yes		no
GAWN	37	VA06W-392	no	no	no	<i>no</i>	no	no		no
GAWN	38	GA-011264-7E13	no	no	no	<i>no</i>	no	no		no
GAWN	39	GA-031238-DH7-7A28	no	no	no	<i>no</i>	yes	no	yes	no
GAWN	41	GA-001169-7E15	no	no	no	<i>no</i>	no	yes		no
		continued								

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

2008 Gulf Atlantic Wheat Nursery

Summary of all Markers

Nursery	Entry	Sample Name	Fhb 2DL-				Sr36	Sr24/Lr24	Yr17/Lr37/Sr38	L434/Yr18/Pm38
			Wuhan1/W	Fhb 5A	Fhb 5A					
			Fhb1	14	Ernie	<i>Ning7840</i>				
GAWN	42	GA-001492-7E9	no	no	no	<i>no</i>	no	no	no	
GAWN	43	GA-001170-7E26	no	no	no	<i>no</i>	no	no	no	
GAWN	44	GA-981131-7E33	nd	no	no	<i>no</i>	no	no	yes	
GAWN	45	GA-00190-7A14	nd	nd	nd	<i>nd</i>	nd	nd	nd	
GAWN	46	GA-031238-DH7-7A28	no	no	no	<i>no</i>	yes	no	yes	
GAWN	47	GA-00034-7A17	no	no	no	<i>no</i>	no	no	yes	
GAWN	48	GA-00138-7A6	no	no	no	<i>no</i>	no	no	yes	
GAWN	49	GA-001169-G1-10-6-3	no	no	no	<i>no</i>	no	yes	no	
GAWN	50	GA-011636-2	no	no	no	<i>no</i>	no	no	no	
GAWN	51	AR99136-13-2	no	no	no	<i>no</i>	no	no	no	
GAWN	52	AR99110-11-2	no	no	no	<i>no</i>	no	no	yes	
GAWN	53	AR99110-11-4	no	no	no	<i>no</i>	no	no	no	
GAWN	54	AR99093-1-1	no	no	no	<i>no</i>	no	no	no	
GAWN	55	AR99095-18-1	no	no	no	<i>no</i>	no	no	no	
GAWN	56	AR99033-5-1	no	no	no	<i>no</i>	no	no	no	
GAWN	57	AR99114-2-1	no	no	no	<i>no</i>	no	no	no	
GAWN	58	AR99095-10-2	no	no	no	<i>no</i>	no	no	no	
GAWN	59	AR99033-6-2	no	no	no	<i>no</i>	no	no	no	
GAWN	61	AR99037-3-1	no	no	no	<i>no</i>	nd	nd	no	
GAWN	62	AR99016-1-1	no	no	no	<i>no</i>	no	no	no	
GAWN	63	AR99110W-13-1	no	no	no	<i>no</i>	no	no	no	
GAWN	64	SCW990002K1	no	no	no	<i>no</i>	yes	no	yes	
GAWN	65	SCW990002V1	no	no	no	<i>no</i>	yes	no	yes	
GAWN	66	SCW990002W1	no	no	no	<i>no</i>	yes	no	yes	
GAWN	67	SCW990022A1	no	no	no	<i>no</i>	no	no	yes	
GAWN	68	SCW990022B1	nd	nd	nd	<i>nd</i>	nd	nd	nd	
GAWN	69	SCW990022C1	no	no	no	<i>no</i>	no	no	yes	
GAWN	70	SCW990013A1	no	no	no	<i>no</i>	yes	no	yes	
GAWN	71	SCW990013D1	no	no	no	<i>no</i>	yes	no	yes	
GAWN	72	SCW990013H1	no	no	no	<i>no</i>	yes	no	yes	
GAWN	73	SCW990013J1	no	no	no	<i>no</i>	yes	no	yes	
GAWN	74	SCW990013R1	no	no	no	<i>no</i>	no	no	yes	
GAWN	75	SCW990013V1	no	no	no	<i>no</i>	yes	no	yes	
GAWN	76	FL01005-K5	no	no	no	<i>no</i>	no	no	yes	
GAWN	77	FL01108C-K2	no	no	no	<i>no</i>	no	no	yes	
GAWN	78	FL02006C-K1	no	no	no	<i>no</i>	no	nd	no	
GAWN	79	FL02006C-K4	no	no	no	<i>no</i>	no	no	no	
GAWN	80	FL02036C-K6	nd	nd	nd	<i>nd</i>	nd	nd	nd	
GAWN	81	FL02154C-K3	nd	nd	nd	<i>nd</i>	nd	nd	nd	
GAWN	82	FL99077D-E29-K4	nd	nd	nd	<i>nd</i>	nd	nd	nd	

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2008 Gulf Atlantic Wheat Nursery

Summary of all Markers

Nursery	Entry	Sample Name	1RS	H13	H9	Bdv2/3	Bx7oe over-expressing
GAWN	1	NC04-22866	non-1RS	yes	no	no	no
GAWN	2	NC05-21090	non-1RS	no	no	no	no
GAWN	3	NC05-23945	non-1RS	no	no	no	no
GAWN	4	NC05-21642	non-1RS	no	yes	no	no
GAWN	5	NC05-24757	non-1RS	no	no	no	no
GAWN	6	NC05-24112	1RS:1BL	no	no	no	no
GAWN	7	NC05-20276	non-1RS	no	yes	no	no
GAWN	8	NC05-22804	non-1RS	yes	no	no	no
GAWN	9	NC05-19684	non-1RS	yes	no	no	no
GAWN	10	NC05-20671	non-1RS	no	no	no	no
GAWN	11	NC05-22975	non-1RS	no	no	no	no
GAWN	12	NC05-21937	1RS:1BL	no	no	no	no
GAWN	13	LA01029D-139-3-C	1RS:1BL	no	no	no	no
GAWN	14	LA01034D-235-1-C	non-1RS	no	no	no	yes
GAWN	15	LA01035D-207-3-B	1RS:1BL	no	no	no	no
GAWN	16	LA01108D-71-1-B	non-1RS	no	no	no	yes
GAWN	17	LA01110D-150	non-1RS	no	no	no	het
GAWN	18	LA01110D-251	1RS:1BL	no	no	no	yes
GAWN	19	LA01110D-81-1-B	non-1RS	no	no	no	yes
GAWN	21	LA01110D-84-1-C	non-1RS	no	no	no	yes
GAWN	22	LA01113D-44	non-1RS	het	no	no	no
GAWN	23	LA01138D-55	1RS:1BL	no	no	no	no
GAWN	24	LA01139D-116	non-1RS	no	no	no	no
GAWN	25	LA01140D-163	1RS:1BL	no	no	no	yes
GAWN	26	VA03E-509	1RS:1BL	no	no	no	no
GAWN	27	VA05W-22	non-1RS	no	no	no	no
GAWN	28	VA05W-139	non-1RS	no	no	no	no
GAWN	29	VA05W-376	1RS:1BL 1RS:1AL	no	no	no	no
GAWN	30	VA06W-6	1RS:1BL	no	no	no	no
GAWN	31	VA06W-93	non-1RS	no	no	no	no
GAWN	32	VA06W-112	non-1RS	no	no	no	no
GAWN	33	VA06W-194	non-1RS	no	no	no	no
GAWN	34	VA06W-215	non-1RS	no	no	no	no
GAWN	35	VA06W-237	non-1RS	no	no	no	no
GAWN	36	VA06W-256	non-1RS	no	no	no	no
GAWN	37	VA06W-392	non-1RS	no	no	no	no
GAWN	38	GA-011264-7E13	non-1RS	no	no	no	no
GAWN	39	GA-031238-DH7-7A28	non-1RS	no	no	no	no
GAWN	41	GA-001169-7E15	1RS:1AL	no	nd	no	no
		continued					

"nd" = not determined or lack of amplification

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

"?" 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 italics**

2008 Gulf Atlantic Wheat Nursery

Summary of all Markers

Nursery	Entry	Sample Name	1RS	H13	H9	Bdv2/3	Bx7oe over-expressing
GAWN	42	GA-001492-7E9	non-1RS	nd	no	no	no
GAWN	43	GA-001170-7E26	1RS:1BL	no	no	no	yes
GAWN	44	GA-981131-7E33	non-1RS	no	no	no	no
GAWN	45	GA-00190-7A14	nd	nd	nd	nd	nd
GAWN	46	GA-031238-DH7-7A28	non-1RS	no	no	no	no
GAWN	47	GA-00034-7A17	non-1RS	no	no	no	no
GAWN	48	GA-00138-7A6	1RS:1BL	no	no	no	no
GAWN	49	GA-001169-G1-10-6-3	1RS:1AL	no	no	no	no
GAWN	50	GA-011636-2	non-1RS	no	no	no	no
GAWN	51	AR99136-13-2	non-1RS	no	no	no	no
GAWN	52	AR99110-11-2	1RS:1BL	no	no	nd	no
GAWN	53	AR99110-11-4	1RS:1BL	no	no	no	no
GAWN	54	AR99093-1-1	non-1RS	no	no	no	no
GAWN	55	AR99095-18-1	non-1RS	no	no	no	no
GAWN	56	AR99033-5-1	1RS:1BL	no	no	no	no
GAWN	57	AR99114-2-1	non-1RS	no	no	no	no
GAWN	58	AR99095-10-2	non-1RS	no	no	no	no
GAWN	59	AR99033-6-2	1RS:1BL	no	no	no	yes
GAWN	61	AR99037-3-1	non-1RS	no	no	no	no
GAWN	62	AR99016-1-1	non-1RS	no	no	no	no
GAWN	63	AR99110W-13-1	non-1RS	no	no	no	no
GAWN	64	SCW990002K1	non-1RS	no	no	no	no
GAWN	65	SCW990002V1	non-1RS	no	no	nd	no
GAWN	66	SCW990002W1	non-1RS	no	no	no	no
GAWN	67	SCW990022A1	non-1RS	no	no	no	no
GAWN	68	SCW990022B1	nd	nd	nd	nd	nd
GAWN	69	SCW990022C1	non-1RS	no	no	no	no
GAWN	70	SCW990013A1	non-1RS	no	no	no	no
GAWN	71	SCW990013D1	non-1RS	no	no	no	no
GAWN	72	SCW990013H1	non-1RS	no	no	no	no
GAWN	73	SCW990013J1	non-1RS	no	no	no	no
GAWN	74	SCW990013R1	1RS:1BL	no	no	no	yes
GAWN	75	SCW990013V1	non-1RS	no	no	no	no
GAWN	76	FL01005-K5	non-1RS	no	no	no	yes
GAWN	77	FL01108C-K2	non-1RS	no	no	no	yes
GAWN	78	FL02006C-K1	non-1RS	no	no	no	no
GAWN	79	FL02006C-K4	1RS:1BL	no	no	no	no
GAWN	80	FL02036C-K6	nd	nd	nd	nd	nd
GAWN	81	FL02154C-K3	nd	nd	nd	nd	nd
GAWN	82	FL99077D-E29-K4	nd	nd	nd	nd	nd

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All numbers are size in base pairs of amplified fragments

Target alleles are in **bold or italics**

FHB QTLs

2008

Nursery	Entry	Sample Name	umn 10	umn 10	Fhb1 present?	cfb 233	cfb 233	gwm 539	gwm 539	gwm 608	gwm 608	Fhb3 from Wuhan1 present?
GAWN	1	NC04-22866	236		no	278		139		150		no
GAWN	2	NC05-21090	236		no	278	282	135	153	150	160	no
GAWN	3	NC05-23945	228		no	288		137		154		no
GAWN	4	NC05-21642	236		no	288		137		152		no
GAWN	5	NC05-24757	236		no	288		137		154		no
GAWN	6	NC05-24112	236		no	272	290	131	137	156	162	no
GAWN	7	NC05-20276	228		no	280		124		150		no
GAWN	8	NC05-22804	236		no	270		131	137	150	154	no
GAWN	9	NC05-19684	236		no	270		131		150		no
GAWN	10	NC05-20671	236	239	het	276		155		142		no
GAWN	11	NC05-22975	236		no	272		131		160		no
GAWN	12	NC05-21937	239		yes	276		155		142		no
GAWN	13	LA01029D-139-3-C	236		no	278		135		158		no
GAWN	14	LA01034D-235-1-C	236		no	272		133		156		no
GAWN	15	LA01035D-207-3-B	236		no	272		133		156		no
GAWN	16	LA01108D-71-1-B	236		no	272		133	137	156		no
GAWN	17	LA01110D-150	236		no	288		133		156		no
GAWN	18	LA01110D-251	236		no	288		133		156		no
GAWN	19	LA01110D-81-1-B	236		no	272	288	135		156		no
GAWN	21	LA01110D-84-1-C	236		no	272		133		156		no
GAWN	22	LA01113D-44	236		no	272	288	131	135	156		no
GAWN	23	LA01138D-55	236		no	278		135	137	158		no
GAWN	24	LA011139D-116	236		no	278		133	137	150		no
GAWN	25	LA01140D-163	236		no	288		137		156		no
GAWN	26	VA03E-509	236		no	272		137		154		no
GAWN	27	VA05W-22	236		no	272	290	137		154	162	no
GAWN	28	VA05W-139	236		no	272		137		162		no
GAWN	29	VA05W-376	236		no	278		139		150		no
GAWN	30	VA06W-6	236		no	278		135		150		no
GAWN	31	VA06W-93	236		no	272		137		154		no
GAWN	32	VA06W-112	236		no	278		135		150		no
GAWN	33	VA06W-194	236		no	272		131		150		no
GAWN	34	VA06W-215	228		no	272		133	139	150		no
GAWN	35	VA06W-237	228		no	272		133		150		no
GAWN	36	VA06W-256	228	236	no	270		139		142		no
GAWN	37	VA06W-392	236		no	278		135		150	158	no
GAWN	38	GA-011264-7E13	236		no	278		135		158		no
GAWN	39	GA-031238-DH7-7A28	236		no	278		131		170		no
GAWN	41	GA-001169-7E15	236		no	272		131		156		no

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FHB QTLs

2008

Nursery	Entry	Sample Name	umn 10	umn 10	Fhb1 present?	cfb 233	cfb 233	gwm 539	gwm 539	gwm 608	gwm 608	Fhb3 from Wuhan1 present?
GAWN	42	GA-001492-7E9	236		no	278		135		158		no
GAWN	43	GA-001170-7E26	236		no	263		139		156	158	no
GAWN	44	GA-981131-7E33	nd		nd	272		131		162		no
GAWN	45	GA-00190-7A14	nd		nd	nd		nd		nd		nd
GAWN	46	GA-031238-DH7-7A28	236		no	278		131		170		no
GAWN	47	GA-00034-7A17	236		no	280		131	148	150		no
GAWN	48	GA-00138-7A6	236		no	272	278	131		156		no
GAWN	49	GA-001169-G1-10-6-3	236		no	272	278	124	131	156	158	no
GAWN	50	GA-011636-2	236		no	280		135		158		no
GAWN	51	AR99136-13-2	236		no	272		137		154		no
GAWN	52	AR99110-11-2	236		no	270		133		150		no
GAWN	53	AR99110-11-4	236		no	270		133		150		no
GAWN	54	AR99093-1-1	236		no	288		137		156		no
GAWN	55	AR99095-18-1	236		no	272		133		158		no
GAWN	56	AR99033-5-1	236		no	270	272	131		150	156	no
GAWN	57	AR99114-2-1	236		no	272	290	131		156	162	no
GAWN	58	AR99095-10-2	236		no	272	278	133	137	150	154	no
GAWN	59	AR99033-6-2	236		no	272		129		156		no
GAWN	61	AR99037-3-1	236		no	284		146		150		no
GAWN	62	AR99016-1-1	236		no	272	290	137		158	162	no
GAWN	63	AR99110W-13-1	236		no	272		133		158		no
GAWN	64	SCW990002K1	236		no	272		131		162		no
GAWN	65	SCW990002V1	236		no	272		131		162		no
GAWN	66	SCW990002W1	236		no	272		131		162		no
GAWN	67	SCW990022A1	236		no	272		131		162		no
GAWN	68	SCW990022B1	nd		nd	nd		nd		nd		nd
GAWN	69	SCW990022C1	236		no	272		131		162		no
GAWN	70	SCW990013A1	236		no	272		131		150	162	no
GAWN	71	SCW990013D1	236		no	272		131		162		no
GAWN	72	SCW990013H1	236		no	272		131		162		no
GAWN	73	SCW990013J1	236		no	272		131		162		no
GAWN	74	SCW990013R1	236		no	272	288	131	137	156	162	no
GAWN	75	SCW990013V1	236		no	272		131		162		no
GAWN	76	FL01005-K5	236		no	272		133		156		no
GAWN	77	FL01108C-K2	236		no	272	274	133		150	156	no
GAWN	78	FL02006C-K1	236		no	288		135		156		no
GAWN	79	FL02006C-K4	236		no	288		135		156		no
GAWN	80	FL02036C-K6	nd		nd	nd		nd		nd		nd
GAWN	81	FL02154C-K3	nd		nd	nd		nd		nd		nd
GAWN	82	FL99077D-E29-K4	nd		nd	nd		nd		nd		nd

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FHB QTLs

2008

Nursery	Entry	Sample Name	gwm 304	gwm 304	wmc 705	wmc 705	barc 117	barc 117	barc 186	Fhb 5A Ernie	<i>Fhb 5A Ning7840</i>
GAWN	1	NC04-22866	199		162		217		203	no	<i>no</i>
GAWN	2	NC05-21090	199		164		217		203	no	<i>no</i>
GAWN	3	NC05-23945	199		162		217		203	no	<i>no</i>
GAWN	4	NC05-21642	199		162		217		213	no	<i>no</i>
GAWN	5	NC05-24757	199		nd		nd		203	no	<i>no</i>
GAWN	6	NC05-24112	215		133		225		213	no	<i>no</i>
GAWN	7	NC05-20276	220		133		221		203	no	<i>no</i>
GAWN	8	NC05-22804	199		164		217		203	no	<i>no</i>
GAWN	9	NC05-19684	199		133	164	217		203	no	<i>no</i>
GAWN	10	NC05-20671	201		133		217		203	no	<i>no</i>
GAWN	11	NC05-22975	215		135		225		213	no	<i>no</i>
GAWN	12	NC05-21937	201		133		217		203	no	<i>no</i>
GAWN	13	LA01029D-139-3-C	199		162		217		203	no	<i>no</i>
GAWN	14	LA01034D-235-1-C	199		162		217		203	no	<i>no</i>
GAWN	15	LA01035D-207-3-B	199		162		217		203	no	<i>no</i>
GAWN	16	LA01108D-71-1-B	199		162	164	217		203	no	<i>no</i>
GAWN	17	LA01110D-150	199	220	135	162	217	221	203	het	<i>no</i>
GAWN	18	LA01110D-251	201		133		217		203	no	<i>no</i>
GAWN	19	LA01110D-81-1-B	199	201	131	160	217		203	no	<i>no</i>
GAWN	21	LA01110D-84-1-C	199		162		217		203	no	<i>no</i>
GAWN	22	LA01113D-44	201		164		217		203	no	<i>no</i>
GAWN	23	LA01138D-55	199		162		217		203	no	<i>no</i>
GAWN	24	LA011139D-116	199		162		217		203	no	<i>no</i>
GAWN	25	LA01140D-163	201		133		217		203	no	<i>no</i>
GAWN	26	VA03E-509	199		164		217		203	no	<i>no</i>
GAWN	27	VA05W-22	199	220	135		221		203	yes	<i>no</i>
GAWN	28	VA05W-139	199		164		217		203	no	<i>no</i>
GAWN	29	VA05W-376	215		133		225		213	no	<i>no</i>
GAWN	30	VA06W-6	199		162		217		203	no	<i>no</i>
GAWN	31	VA06W-93	199		162	166	217		203	no	<i>no</i>
GAWN	32	VA06W-112	201		133		217		203	no	<i>no</i>
GAWN	33	VA06W-194	201		133		217		203	no	<i>no</i>
GAWN	34	VA06W-215	222		135		221		203	no	<i>no</i>
GAWN	35	VA06W-237	220		135		221		203	yes	<i>no</i>
GAWN	36	VA06W-256	199		162		217		203	no	<i>no</i>
GAWN	37	VA06W-392	199		164		217		203	no	<i>no</i>
GAWN	38	GA-011264-7E13	199		162		217		203	no	<i>no</i>
GAWN	39	GA-031238-DH7-7A28	199		164		217		203	no	<i>no</i>
GAWN	41	GA-001169-7E15	201		135		217	nd	no	no	<i>no</i>
continued											

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FHB QTLs

2008

Nursery	Entry	Sample Name	gwm 304	gwm 304	wmc 705	wmc 705	barc 117	barc 117	barc 186	Fhb 5A Ernie	<i>Fhb 5A Ning7840</i>
GAWN	42	GA-001492-7E9	199		162		nd		nd	no	<i>no</i>
GAWN	43	GA-001170-7E26	201		135		217		203	no	<i>no</i>
GAWN	44	GA-981131-7E33	213		162		221		213	no	<i>no</i>
GAWN	45	GA-00190-7A14	nd		nd		nd		nd	nd	<i>nd</i>
GAWN	46	GA-031238-DH7-7A28	201		133		217		203	no	<i>no</i>
GAWN	47	GA-00034-7A17	199		162		217		203	no	<i>no</i>
GAWN	48	GA-00138-7A6	203		139		217		203	no	<i>no</i>
GAWN	49	GA-001169-G1-10-6-3	201		135		217		203	no	<i>no</i>
GAWN	50	GA-011636-2	199		162		217		203	no	<i>no</i>
GAWN	51	AR99136-13-2	199		164		217		203	no	<i>no</i>
GAWN	52	AR99110-11-2	207		158		225		213	no	<i>no</i>
GAWN	53	AR99110-11-4	207		158		225		213	no	<i>no</i>
GAWN	54	AR99093-1-1	199		164		217		203	no	<i>no</i>
GAWN	55	AR99095-18-1	199		164		217		203	no	<i>no</i>
GAWN	56	AR99033-5-1	207		158		225		213	no	<i>no</i>
GAWN	57	AR99114-2-1	201		133		217		203	no	<i>no</i>
GAWN	58	AR99095-10-2	199		164		217		203	no	<i>no</i>
GAWN	59	AR99033-6-2	207		nd		nd		213	no	<i>no</i>
GAWN	61	AR99037-3-1	199		164		217		203	no	<i>no</i>
GAWN	62	AR99016-1-1	203		139	158	217	225	203	no	<i>no</i>
GAWN	63	AR99110W-13-1	207		158	168	225		213	no	<i>no</i>
GAWN	64	SCW990002K1	199		162		217		203	no	<i>no</i>
GAWN	65	SCW990002V1	199		162		217		203	no	<i>no</i>
GAWN	66	SCW990002W1	199		162		217		203	no	<i>no</i>
GAWN	67	SCW990022A1	199		164		217		203	no	<i>no</i>
GAWN	68	SCW990022B1	nd		nd		nd		nd	nd	<i>nd</i>
GAWN	69	SCW990022C1	199		164		217		203	no	<i>no</i>
GAWN	70	SCW990013A1	199		162		217		203	no	<i>no</i>
GAWN	71	SCW990013D1	199		162		217		203	no	<i>no</i>
GAWN	72	SCW990013H1	199		162		217		203	no	<i>no</i>
GAWN	73	SCW990013J1	199		162		217		203	no	<i>no</i>
GAWN	74	SCW990013R1	199		133	162	217		203	no	<i>no</i>
GAWN	75	SCW990013V1	199		162		217		203	no	<i>no</i>
GAWN	76	FL01005-K5	199		162		217		203	no	<i>no</i>
GAWN	77	FL01108C-K2	199		162		217		203	no	<i>no</i>
GAWN	78	FL02006C-K1	199		162		217		203	no	<i>no</i>
GAWN	79	FL02006C-K4	201		133		217		203	no	<i>no</i>
GAWN	80	FL02036C-K6	nd		nd		nd		nd	nd	<i>nd</i>
GAWN	81	FL02154C-K3	nd		nd		nd		nd	nd	<i>nd</i>
GAWN	82	FL99077D-E29-K4	nd		nd		nd		nd	nd	<i>nd</i>

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Leaf, Stripe & Stem Rusts

2008

Nursery	Entry	Sample Name	wmc	wmc	Sr36	barc	barc	Sr24/Lr24	ventriup	Yr17/Lr37/Sr38	cslv34	L434/Yr18/Pm38
			477	477		71	71					
GAWN	1	NC04-22866	186		yes	105		no			235	no
GAWN	2	NC05-21090	167	186	het	88	105	yes	256	yes	235	no
GAWN	3	NC05-23945	186		yes	105		no			235	no
GAWN	4	NC05-21642	186		yes	113		no			235	no
GAWN	5	NC05-24757	186		yes	105		no			235	no
GAWN	6	NC05-24112	186		yes	105		no			235	no
GAWN	7	NC05-20276	186		yes	113		no			235	no
GAWN	8	NC05-22804	186		yes	105	113	no			235	no
GAWN	9	NC05-19684	186		yes	105	113	no			235	no
GAWN	10	NC05-20671	186		yes	105		no			235	no
GAWN	11	NC05-22975	186		yes	113		no	256	yes	235	no
GAWN	12	NC05-21937	186		yes	113		no			235	no
GAWN	13	LA01029D-139-3-C	165		no	113		no			235	no
GAWN	14	LA01034D-235-1-C	162		no	105		no	256	yes	235	no
GAWN	15	LA01035D-207-3-B	162		no	113		no			235	no
GAWN	16	LA01108D-71-1-B	162		no	113		no	256	yes	235	no
GAWN	17	LA01110D-150	162		no	113		no	256	yes	235	no
GAWN	18	LA01110D-251	162	169	no	113		no	256	yes	235	no
GAWN	19	LA01110D-81-1-B	169		no	113		no			235	no
GAWN	21	LA01110D-84-1-C	162	169	no	113		no	256	yes	235	no
GAWN	22	LA01113D-44	169		no	113		no	256	yes	235	no
GAWN	23	LA01138D-55	165		no	113		no	256	yes	235	no
GAWN	24	LA011139D-116	169		no	113		no	256	yes	235	no
GAWN	25	LA01140D-163	162		no	113		no	256	yes	235	no
GAWN	26	VA03E-509	186		yes	113		no			235	no
GAWN	27	VA05W-22	186		yes	113		no			235	no
GAWN	28	VA05W-139	162		no	105		no			235	no
GAWN	29	VA05W-376	167		no	113		no			235	no
GAWN	30	VA06W-6	165		no	113		no			235	no
GAWN	31	VA06W-93	186		yes	105		no			235	no
GAWN	32	VA06W-112	186		yes	105		no			235	no
GAWN	33	VA06W-194	167		no	113		no			235	no
GAWN	34	VA06W-215	167		no	105		no			235	no
GAWN	35	VA06W-237	162	167	no	105		no			235	no
GAWN	36	VA06W-256	167		no	88	113	yes			235	no
GAWN	37	VA06W-392	165		no	113		no			235	no
GAWN	38	GA-011264-7E13	165		no	113		no			235	no
GAWN	39	GA-031238-DH7-7A28	186		yes	105		no	256	yes	235	no
GAWN	41	GA-001169-7E15	167		no	88		yes			235	no
continued												

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Leaf, Stripe & Stem Rusts

2008

Nursery	Entry	Sample Name	wmc	wmc	Sr36	barc	barc	Sr24/Lr24	ventriup	Yr17/Lr37/Sr38	cslv34	L434/Yr18/Pm38
			477	477		71	71					
GAWN	42	GA-001492-7E9	165		no	113		no			235	no
GAWN	43	GA-001170-7E26	165		no	113		no			235	no
GAWN	44	GA-981131-7E33	167		no	105		no	256	yes	235	no
GAWN	45	GA-00190-7A14	nd		nd	nd		nd	nd	nd	nd	nd
GAWN	46	GA-031238-DH7-7A28	186		yes	105		no	256	yes	235	no
GAWN	47	GA-00034-7A17	162		no	105		no	256	yes	235	no
GAWN	48	GA-00138-7A6	167		no	113		no	256	yes	235	no
GAWN	49	GA-001169-G1-10-6-3	167		no	88		yes			235	no
GAWN	50	GA-011636-2	165		no	113		no			235	no
GAWN	51	AR99136-13-2	162		no	105		no			235	no
GAWN	52	AR99110-11-2	162		no	105		no	256	yes	235	no
GAWN	53	AR99110-11-4	162		no	105		no			235	no
GAWN	54	AR99093-1-1	169		no	113		no			235	no
GAWN	55	AR99095-18-1	162		no	105		no			235	no
GAWN	56	AR99033-5-1	167		no	105		no			235	no
GAWN	57	AR99114-2-1	169		no	105		no			235	no
GAWN	58	AR99095-10-2	162		no	105		no			235	no
GAWN	59	AR99033-6-2	167		no	105		no			235	no
GAWN	61	AR99037-3-1	nd		nd	nd		nd			235	no
GAWN	62	AR99016-1-1	167		no	105	113	no			235	no
GAWN	63	AR99110W-13-1	162		no	113		no			235	no
GAWN	64	SCW990002K1	186		yes	113		no	256	yes	235	no
GAWN	65	SCW990002V1	186		yes	113		no	256	yes	235	no
GAWN	66	SCW990002W1	186		yes	113		no	256	yes	235	no
GAWN	67	SCW990022A1	167		no	113		no	256	yes	235	no
GAWN	68	SCW990022B1	nd		nd	nd		nd	nd	nd	nd	nd
GAWN	69	SCW990022C1	167		no	113		no	256	yes	235	no
GAWN	70	SCW990013A1	186		yes	113		no	256	yes	235	no
GAWN	71	SCW990013D1	186		yes	113		no	256	yes	235	no
GAWN	72	SCW990013H1	186		yes	113		no	256	yes	235	no
GAWN	73	SCW990013J1	186		yes	113		no	256	yes	235	no
GAWN	74	SCW990013R1	169		no	113		no	256	yes	235	no
GAWN	75	SCW990013V1	186		yes	113		no	256	yes	235	no
GAWN	76	FL01005-K5	162		no	113		no	256	yes	235	no
GAWN	77	FL01108C-K2	162		no	113		no	256	yes	235	no
GAWN	78	FL02006C-K1	169		no	nd		nd			235	no
GAWN	79	FL02006C-K4	169		no	113		no			235	no
GAWN	80	FL02036C-K6	nd		nd	nd		nd	nd	nd	nd	nd
GAWN	81	FL02154C-K3	nd		nd	nd		nd	nd	nd	nd	nd
GAWN	82	FL99077D-E29-K4	nd		nd	nd		nd	nd	nd	nd	nd

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Rye Translocation -- Hessian Fly -- Barley Yellow Dwarf Virus

2008

Nursery	Entry	Sample Name	scm	scm	IRS	cf	cf	H13	cf	cf	H9	Bdv3	Bdv3	Bdv2/3
			9	9		132	132		2153	153		185	187	
GAWN	1	NC04-22866			non-IRS	153		yes	205		no	185		no
GAWN	2	NC05-21090			non-IRS	116		no	196	208	no	185		no
GAWN	3	NC05-23945			non-IRS	116		no	213		no	185		no
GAWN	4	NC05-21642			non-IRS	116		no	181		yes	185		no
GAWN	5	NC05-24757			non-IRS	116		no	204		no	185		no
GAWN	6	NC05-24112	208		IRS:1BL	116		no	196		no	185		no
GAWN	7	NC05-20276			non-IRS	116		no	181		yes	185		no
GAWN	8	NC05-22804			non-IRS	153		yes	204		no	185		no
GAWN	9	NC05-19684			non-IRS	153		yes	204		no	185		no
GAWN	10	NC05-20671			non-IRS	116		no	200	208	no	185		no
GAWN	11	NC05-22975			non-IRS	116		no	204		no	185		no
GAWN	12	NC05-21937	208		IRS:1BL	116		no	200		no	185		no
GAWN	13	LA01029D-139-3-C	208		IRS:1BL	116		no	204		no	185	187	no
GAWN	14	LA01034D-235-1-C			non-IRS	116		no	204		no	185		no
GAWN	15	LA01035D-207-3-B	208		IRS:1BL	116		no	213		no	185	187	no
GAWN	16	LA01108D-71-1-B			non-IRS	116		no	204		no	185	187	no
GAWN	17	LA01110D-150			non-IRS	116		no	194	204	no	185		no
GAWN	18	LA01110D-251	208		IRS:1BL	116		no	194		no	185		no
GAWN	19	LA01110D-81-1-B			non-IRS	116		no	204		no	185		no
GAWN	21	LA01110D-84-1-C			non-IRS	116		no	204		no	185	187	no
GAWN	22	LA01113D-44			non-IRS	116	153	het	194	204	no	185		no
GAWN	23	LA01138D-55	208		IRS:1BL	116		no	204		no	185		no
GAWN	24	LA01139D-116			non-IRS	116		no	194		no	185		no
GAWN	25	LA01140D-163	208		IRS:1BL	116		no	194		no	185		no
GAWN	26	VA03E-509	208		IRS:1BL	116		no	221		no	185		no
GAWN	27	VA05W-22			non-IRS	116		no	208		no	185		no
GAWN	28	VA05W-139			non-IRS	116		no	204		no	185		no
GAWN	29	VA05W-376	208	224	IRS:1BL IRS:1AL	116		no	208		no	181	185	no
GAWN	30	VA06W-6	208		IRS:1BL	116		no	204		no	185		no
GAWN	31	VA06W-93			non-IRS	116		no	204		no	185		no
GAWN	32	VA06W-112			non-IRS	116		no	204		no	185		no
GAWN	33	VA06W-194			non-IRS	116		no	204		no	185	187	no
GAWN	34	VA06W-215			non-IRS	116		no	204		no	185		no
GAWN	35	VA06W-237			non-IRS	116		no	204		no	185		no
GAWN	36	VA06W-256			non-IRS	116		no	201		no	185		no
GAWN	37	VA06W-392			non-IRS	116		no	204		no	185		no
GAWN	38	GA-011264-7E13			non-IRS	116		no	204		no	185		no
GAWN	39	GA-031238-DH7-7A28			non-IRS	116		no	204		no	185	187	no
GAWN	41	GA-001169-7E15		224	IRS:1AL	116		no	nd		nd	185		no
continued														

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Rye Translocation -- Hessian Fly -- Barley Yellow Dwarf Virus

2008

Nursery	Entry	Sample Name	scm	scm	IRS	cfb	cfb	H13	cfb	cfb	H9	Bdv3	Bdv3	Bdv2/3
			9	9		132	132		2153	2153				
GAWN	42	GA-001492-7E9			non-IRS	nd		nd	204		no	185		no
GAWN	43	GA-001170-7E26	208		IRS:1BL	116		no	194		no	185		no
GAWN	44	GA-981131-7E33			non-IRS	116		no	204		no	185		no
GAWN	45	GA-00190-7A14	nd	nd	nd	nd		nd	nd		nd	nd		nd
GAWN	46	GA-031238-DH7-7A28			non-IRS	116		no	204		no	185	187	no
GAWN	47	GA-00034-7A17			non-IRS	116		no	205		no	185		no
GAWN	48	GA-00138-7A6	208		IRS:1BL	116		no	204		no	185		no
GAWN	49	GA-001169-G1-10-6-3		224	IRS:1AL	116		no	194		no	185		no
GAWN	50	GA-011636-2			non-IRS	116		no	204		no	185		no
GAWN	51	AR99136-13-2			non-IRS	116		no	208		no	185		no
GAWN	52	AR99110-11-2	208		IRS:1BL	116		no	205		no	nd		nd
GAWN	53	AR99110-11-4	208		IRS:1BL	116		no	205		no	185		no
GAWN	54	AR99093-1-1			non-IRS	116		no	205		no	185		no
GAWN	55	AR99095-18-1			non-IRS	116		no	208		no	185		no
GAWN	56	AR99033-5-1	208		IRS:1BL	116		no	170		no	185		no
GAWN	57	AR99114-2-1			non-IRS	116		no	208		no	185		no
GAWN	58	AR99095-10-2			non-IRS	116		no	208		no	185		no
GAWN	59	AR99033-6-2	208		IRS:1BL	116		no	204		no	185		no
GAWN	61	AR99037-3-1			non-IRS	116		no	196		no	185		no
GAWN	62	AR99016-1-1			non-IRS	116		no	204		no	185	187	no
GAWN	63	AR99110W-13-1			non-IRS	116		no	204		no	185		no
GAWN	64	SCW990002K1			non-IRS	116		no	204		no	185		no
GAWN	65	SCW990002V1			non-IRS	116		no	204		no	nd		nd
GAWN	66	SCW990002W1			non-IRS	116		no	204		no	185		no
GAWN	67	SCW990022A1			non-IRS	116		no	213		no	185		no
GAWN	68	SCW990022B1	nd	nd	nd	nd		nd	nd		nd	nd		nd
GAWN	69	SCW990022C1			non-IRS	116		no	213		no	185		no
GAWN	70	SCW990013A1			non-IRS	116		no	204		no	185		no
GAWN	71	SCW990013D1			non-IRS	116		no	204		no	185		no
GAWN	72	SCW990013H1			non-IRS	116		no	204		no	185		no
GAWN	73	SCW990013J1			non-IRS	116		no	204		no	185		no
GAWN	74	SCW990013R1	208		IRS:1BL	116		no	204		no	185		no
GAWN	75	SCW990013V1			non-IRS	116		no	204		no	185		no
GAWN	76	FL01005-K5			non-IRS	116		no	204		no	185	187	no
GAWN	77	FL01108C-K2			non-IRS	116		no	204		no	185	187	no
GAWN	78	FL02006C-K1			non-IRS	116		no	194		no	185		no
GAWN	79	FL02006C-K4	208		IRS:1BL	116		no	194		no	185		no
GAWN	80	FL02036C-K6	nd	nd	nd	nd		nd	nd		nd	nd		nd
GAWN	81	FL02154C-K3	nd	nd	nd	nd		nd	nd		nd	nd		nd
GAWN	82	FL99077D-E29-K4	nd	nd	nd	nd		nd	nd		nd	nd		nd

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Quality Traits

2008

Nursery	Entry	Sample Name	bx7oe	bx7oe	Bx7 over-expressing	Nursery	Entry	Sample Name	bx7oe	bx7oe	Bx7 over-expressing
GAWN	1	NC04-22866	404		no	GAWN	42	GA-001492-7E9	404		no
GAWN	2	NC05-21090	404		no	GAWN	43	GA-001170-7E26		449	yes
GAWN	3	NC05-23945	404		no	GAWN	44	GA-981131-7E33	404		no
GAWN	4	NC05-21642	404		no	GAWN	45	GA-00190-7A14	nd		nd
GAWN	5	NC05-24757	404		no	GAWN	46	GA-031238-DH7-7A28	404		no
GAWN	6	NC05-24112	404		no	GAWN	47	GA-00034-7A17	404		no
GAWN	7	NC05-20276	404		no	GAWN	48	GA-00138-7A6	404		no
GAWN	8	NC05-22804	404		no	GAWN	49	GA-001169-G1-10-6-3	404		no
GAWN	9	NC05-19684	404		no	GAWN	50	GA-011636-2	404		no
GAWN	10	NC05-20671	404		no	GAWN	51	AR99136-13-2	404		no
GAWN	11	NC05-22975	404		no	GAWN	52	AR99110-11-2	404		no
GAWN	12	NC05-21937	404		no	GAWN	53	AR99110-11-4	404		no
GAWN	13	LA01029D-139-3-C	404		no	GAWN	54	AR99093-1-1	404		no
GAWN	14	LA01034D-235-1-C		449	yes	GAWN	55	AR99095-18-1	404		no
GAWN	15	LA01035D-207-3-B	404		no	GAWN	56	AR99033-5-1	404		no
GAWN	16	LA01108D-71-1-B		449	yes	GAWN	57	AR99114-2-1	404		no
GAWN	17	LA01110D-150	404	449	het	GAWN	58	AR99095-10-2	404		no
GAWN	18	LA01110D-251		449	yes	GAWN	59	AR99033-6-2		449	yes
GAWN	19	LA01110D-81-1-B		449	yes	GAWN	61	AR99037-3-1	404		no
GAWN	21	LA01110D-84-1-C		449	yes	GAWN	62	AR99016-1-1	404		no
GAWN	22	LA01113D-44	404		no	GAWN	63	AR99110W-13-1	404		no
GAWN	23	LA01138D-55	404		no	GAWN	64	SCW990002K1	404		no
GAWN	24	LA011139D-116	404		no	GAWN	65	SCW990002V1	404		no
GAWN	25	LA01140D-163		449	yes	GAWN	66	SCW990002W1	404		no
GAWN	26	VA03E-509	404		no	GAWN	67	SCW990022A1	404		no
GAWN	27	VA05W-22	404		no	GAWN	68	SCW990022B1	nd		nd
GAWN	28	VA05W-139	404		no	GAWN	69	SCW990022C1	404		no
GAWN	29	VA05W-376	404		no	GAWN	70	SCW990013A1	404		no
GAWN	30	VA06W-6	404		no	GAWN	71	SCW990013D1	404		no
GAWN	31	VA06W-93	404		no	GAWN	72	SCW990013H1	404		no
GAWN	32	VA06W-112	404		no	GAWN	73	SCW990013J1	404		no
GAWN	33	VA06W-194	404		no	GAWN	74	SCW990013R1		449	yes
GAWN	34	VA06W-215	404		no	GAWN	75	SCW990013V1	404		no
GAWN	35	VA06W-237	404		no	GAWN	76	FL01005-K5		449	yes
GAWN	36	VA06W-256	404		no	GAWN	77	FL01108C-K2		449	yes
GAWN	37	VA06W-392	404		no	GAWN	78	FL02006C-K1	404		no
GAWN	38	GA-011264-7E13	404		no	GAWN	79	FL02006C-K4	404		no
GAWN	39	GA-031238-DH7-7A28	404		no	GAWN	80	FL02036C-K6	nd		nd
GAWN	41	GA-001169-7E15	404		no	GAWN	81	FL02154C-K3	nd		nd
		continued				GAWN	82	FL99077D-E29-K4	nd		nd

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