

2012

Marker Reports for all Alleles

Uniform Eastern Soft White Winter Wheat 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 2008-2010; in 2011-2012 dominant markers are indicated with **

"?" 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 = hard

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

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

2012 Uniform Soft White Winter Wheat Nursery

Year	Nursery	Entry	Sample Name	Pedigree	Contributor	Plant Source
2012	UESWWWN	1	Superior	TWC839-3/Harus	Mark Etienne	Check
2012	UESWWWN	2	Envoy	MSU Line DC076 / Pioneer Brand 2552	Janet Lewis	Check
2012	UESWWWN	3	VA09W-188WS	PIONEER 25W60 // PION 25W33 / VAN98W-170WS [FFR555W/GORE//CK9803/VA87-54-636(SAL/JUGOSLAVIA)]	Griffey - VT	Retest in 2012
2012	UESWWWN	4	VA09W-192WS	TW137-003 (W052/W044) / VA97W-375WS (CK9803/FREEDOM)	Griffey - VT	Retest in 2012
2012	UESWWWN	5	VA10W-159WS	TW137-003(W052/W044)/VA97W-375WS(CK9803/FREEDOM) //VA98W-627WS [92-52-11 (A55-2//AXM/9*CC/3/ PION2550)/ CK9803] ,F8	Griffey - VT	New Entry
2012	UESWWWN	6	Jupiter (formerly E5011)	Caledonia / NY88024-117	Lewis - MSU	MSU Check
2012	UESWWWN	7	MSU Line F0014	P2552/E0029	Lewis - MSU	New Entry
2012	UESWWWN	8	MSU Line F0037	D8006/CJ 9306//Caledonia/3/Caledonia/4/Caledonia	Lewis - MSU	New Entry
2012	UESWWWN	9	MSU Line F0038	D8006/CJ 9306//Caledonia/3/Caledonia/4/Caledonia	Lewis - MSU	New Entry
2012	UESWWWN	10	MSU Line F0039	D8006/CJ 9306//Caledonia/3/Caledonia/4/Caledonia	Lewis - MSU	New Entry
2012	UESWWWN	11	OH07-254-11	OH728 / VA97W-361WS	Sneller-OSU	New Entry
2012	UESWWWN	12	UGRC19/21	AC RON / 25R18	Tamburic-UGRC	New Entry/was tested in 2010
2012	UESWWWN	13	UGRCDH1-46	Superior x D8006W	Tamburic-UGRC	New Entry
2012	UESWWWN	14	UGRCDH1-62	Superior x D8006W	Tamburic-UGRC	New Entry
2012	UESWWWN	15	UGRC19-114B	AC RON / 25R18	Tamburic-UGRC	Retest in 2012
2012	UESWWWN	16	Caledonia	Offtype selection out of Geneva (Cornell)	Sorrells	Check
2012	UESWWWN	17	Cayuga	Reselection of NY262-37-10W (Cornell)	Sorrells	PHS Check
2012	UESWWWN	18	NY94052-3329	Pio2737w/Harus(18)	Sorrells	Retest in 2012
2012	UESWWWN	19	NY99045-3110	Geneva/Pio25W33 (26+9s)	Sorrells	Retest in 2012
2012	UESWWWN	20	NY99066-3025	NY87048W-7387/Mendon (18)	Sorrells	Retest in 2012
2012	UESWWWN	21	NY94032-46	Pio2737w/Geneva(19)	Sorrells	Retest in 2012
2012	UESWWWN	22	NY99066-3444	NY87048W-7387/Mendon (18)	Sorrells	New Entry
2012	UESWWWN	23	DAS2001 (TW572-019)	25R23/TW060-075	Etienne-HYL/DAS	Retest in 2012
2012	UESWWWN	24	DAS2002 (TWF559*020)	25R23/TWF020-038	Etienne-HYL/DAS	Retest in 2012
2012	UESWWWN	25	DAS2003 (TWF627*053)	TWF064-080/WF026-059	Etienne-HYL/DAS	Retest in 2012
2012	UESWWWN	26	DAS2004 (TW559*017)	25R23/TWF020-038	Etienne-HYL/DAS	New Entry
2012	UESWWWN	27	DAS2005 (TW599*083)	25R23/TWF020-038	Etienne-HYL/DAS	New Entry
2012	UESWWWN	28	DAS2006 (TWF575*081)	TW064-080/25R23	Etienne-HYL/DAS	New Entry
2012	UESWWWN	29	MC07*7001W	P 25W33/DW97*6997	Syngenta	Retest (purified)

2012 Uniform Soft White Winter Wheat Nursery				Dwarfing alleles			Photoperiod Insensitivity alleles		
Year	Nursery	Entry	Sample Name	Rht-B1b	Rht-D1b	Rht8c	Ppd-D1a	Ppd-B1 CS truncated copy	Ppd-B1 Sonora64/Timstein intercopy
2012	UESWWWN	1	Superior	no	Rht-D1b	no	no	no	no
2012	UESWWWN	2	Envoy	no	Rht-D1b	no	Ppd-D1a insens het	no	no
2012	UESWWWN	3	VA09W-188WS	no	Rht-D1b	no	Ppd-D1a insens het	no	no
2012	UESWWWN	4	VA09W-192WS	Rht-B1b	no	no	no	Ppd-B1 CS insens	no
2012	UESWWWN	5	VA10W-159WS	Rht-B1b	no	no	Ppd-D1a insens het	Ppd-B1 CS insens	no
2012	UESWWWN	6	Jupiter (formerly E5011)	no	Rht-D1b	no	no	no	no
2012	UESWWWN	7	MSU Line F0014	no	Rht-D1b	no	Ppd-D1a insens het	no	no
2012	UESWWWN	8	MSU Line F0037	no	Rht-D1b	no	no	no	no
2012	UESWWWN	9	MSU Line F0038	no	Rht-D1b	no	no	no	no
2012	UESWWWN	10	MSU Line F0039	no	Rht-D1b	no	no	no	no
2012	UESWWWN	11	OH07-254-11	Rht-B1b	no	no	no	Ppd-B1 CS insens	no
2012	UESWWWN	12	UGRC19/21	no	Rht-D1b	no	no	no	no
2012	UESWWWN	13	UGRCDH1-46	no	Rht-D1b	no	no	no	no
2012	UESWWWN	14	UGRCDH1-62	no	Rht-D1b	no	no	no	no
2012	UESWWWN	15	UGRC19-114B	no	Rht-D1b	no	no	no	no
2012	UESWWWN	16	Caledonia	no	Rht-D1b	no	no	no	no
2012	UESWWWN	17	Cayuga	no	no	no	no	no	no
2012	UESWWWN	18	NY94052-3329	no	Rht-D1b	no	no	no	no
2012	UESWWWN	19	NY99045-3110	no	Rht-D1b	no	no	no	no
2012	UESWWWN	20	NY99066-3025	no	Rht-D1b	no	no	no	no
2012	UESWWWN	21	NY94032-46	no	Rht-D1b	no	no	no	no
2012	UESWWWN	22	NY99066-3444	no	Rht-D1b	no	no	no	no
2012	UESWWWN	23	DAS2001 (TW572-019)	Rht-B1b	no	Rht8c het	Ppd-D1a insens het	no	no
2012	UESWWWN	24	DAS2002 (TWF559*020)	no	no	no	no	no	no
2012	UESWWWN	25	DAS2003 (TWF627*053)	no	Rht-D1b	no	no	no	no
2012	UESWWWN	26	DAS2004 (TW559*017)	no	Rht-D1b	Rht8c	no	no	no
2012	UESWWWN	27	DAS2005 (TW599*083)	no	no	Rht8c	no	no	no
2012	UESWWWN	28	DAS2006 (TWF575*081)	no	Rht-D1b	no	no	no	no
2012	UESWWWN	29	MC07*7001W	no	Rht-D1b	no	no	no	no

2012 Uniform Soft White Winter Wheat Nursery				Vernalization alleles		Fusarium Head Blight alleles				
Year	Nursery	Entry	Sample Name	vrn-A1	vrn-B1	Fhb1	Fhb Ernie 3Bc	Fhb 2DL-Wuhan1/W14	Fhb 5A Ernie	Fhb 5A Ning7840
2012	UESWWWN	1	Superior	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	2	Envoy	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	3	VA09W-188WS	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	4	VA09W-192WS	vrn-A1 long	vrn-B1 short	no	no	no	no	no
2012	UESWWWN	5	VA10W-159WS	vrn-A1 long	vrn-B1 short	no	no	no	no	no
2012	UESWWWN	6	Jupiter (formerly E5011)	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	7	MSU Line F0014	vrn-A1 long	nd	no	no	no	no	no
2012	UESWWWN	8	MSU Line F0037	vrn-A1 long	nd	no	no	no	no	no
2012	UESWWWN	9	MSU Line F0038	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	10	MSU Line F0039	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	11	OH07-254-11	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	12	UGRC19/21	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	13	UGRCDH1-46	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	14	UGRCDH1-62	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	15	UGRC19-114B	vrn-A1 long	vrn-B1 long	Fhb1	no	no	no	no
2012	UESWWWN	16	Caledonia	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	17	Cayuga	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	18	NY94052-3329	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	19	NY99045-3110	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	20	NY99066-3025	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	21	NY94032-46	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	22	NY99066-3444	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	23	DAS2001 (TW572-019)	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	24	DAS2002 (TWF559*020)	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	25	DAS2003 (TWF627*053)	vrn-A1 long	vrn-B1 long	no	Fhb Ernie 3Bc?	no	no	no
2012	UESWWWN	26	DAS2004 (TW559*017)	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	27	DAS2005 (TW599*083)	vrn-A1 long	vrn-B1 het	no	no	no	no	no
2012	UESWWWN	28	DAS2006 (TWF575*081)	vrn-A1 long	vrn-B1 long	no	no	no	no	no
2012	UESWWWN	29	MC07*7001W	vrn-A1 long	vrn-B1 long	no	no	no	Fhb 5A Ernie	no

2012 Uniform Soft White Winter Wheat Nursery				Rye translocations	Hessian Fly		BYDV	SBMV
Year	Nursery	Entry	Sample Name	1RS	H13	H9	Bdv2/3	Sbm1
2012	UESWWWN	1	Superior	non-1RS	no	no	no	Sbm1
2012	UESWWWN	2	Envoy	non-1RS	no	no	no	no
2012	UESWWWN	3	VA09W-188WS	non-1RS	no	no	no	Sbm1
2012	UESWWWN	4	VA09W-192WS	1RS:1BL	no	no	no	no
2012	UESWWWN	5	VA10W-159WS	1RS:1BL het	no	no	no	Sbm1
2012	UESWWWN	6	Jupiter (formerly E5011)	non-1RS	no	no	no	Sbm1
2012	UESWWWN	7	MSU Line F0014	non-1RS	no	no	no	Sbm1
2012	UESWWWN	8	MSU Line F0037	non-1RS	no	no	no	Sbm1
2012	UESWWWN	9	MSU Line F0038	non-1RS	no	no	no	Sbm1
2012	UESWWWN	10	MSU Line F0039	non-1RS	no	no	no	Sbm1
2012	UESWWWN	11	OH07-254-11	1RS:1BL	no	no	no	no
2012	UESWWWN	12	UGRC19/21	non-1RS	no	no	no	no
2012	UESWWWN	13	UGRCDH1-46	non-1RS	no	no	no	no
2012	UESWWWN	14	UGRCDH1-62	non-1RS	no	no	no	no
2012	UESWWWN	15	UGRC19-114B	non-1RS	no	no	nd	no
2012	UESWWWN	16	Caledonia	non-1RS	no	no	no	Sbm1
2012	UESWWWN	17	Cayuga	non-1RS	no	no	no	Sbm1
2012	UESWWWN	18	NY94052-3329	non-1RS	no	no	no	no
2012	UESWWWN	19	NY99045-3110	non-1RS	no	no	no	Sbm1
2012	UESWWWN	20	NY99066-3025	non-1RS	no	no	no	no
2012	UESWWWN	21	NY94032-46	non-1RS	no	no	no	Sbm1
2012	UESWWWN	22	NY99066-3444	non-1RS	no	no	no	no
2012	UESWWWN	23	DAS2001 (TW572-019)	non-1RS	no	no	no	Sbm1
2012	UESWWWN	24	DAS2002 (TWF559*020)	non-1RS	no	no	no	no
2012	UESWWWN	25	DAS2003 (TWF627*053)	1RS:1BL	no	no	no	Sbm1
2012	UESWWWN	26	DAS2004 (TW559*017)	1RS:1BL	no	no	no	Sbm1
2012	UESWWWN	27	DAS2005 (TW599*083)	1RS:1BL	no	no	no	no
2012	UESWWWN	28	DAS2006 (TWF575*081)	1RS:1BL	no	no	no	no
2012	UESWWWN	29	MC07*7001W	non-1RS	no	no	no	no

2012 Uniform Soft White Winter Wheat Nursery				Glutenin alleles			Pre-Harvest Sprouting	Mill Quality
Year	Nursery	Entry	Sample Name	Glu-B1	Glu-D1	Glu-A1	PHS Cayuga	sucrose synthase
2012	UESWWWN	1	Superior	no	het	Ax1 or null	PHS Cayuga?	no
2012	UESWWWN	2	Envoy	no	2+12	Ax1 or null	no	no
2012	UESWWWN	3	VA09W-188WS	no	2+12	Ax2*	PHS Cayuga?	no
2012	UESWWWN	4	VA09W-192WS	no	2+12	Ax1 or null	no	TaSus2-2B
2012	UESWWWN	5	VA10W-159WS	no	2+12	Ax1 or null	no	TaSus2-2B
2012	UESWWWN	6	Jupiter (formerly E5011)	no	2+12	Ax2*	no	no
2012	UESWWWN	7	MSU Line F0014	Bx7oe	2+12	Ax2*	no	no
2012	UESWWWN	8	MSU Line F0037	no	2+12	Ax2*	no	no
2012	UESWWWN	9	MSU Line F0038	no	2+12	Ax2*	no	no
2012	UESWWWN	10	MSU Line F0039	no	2+12	Ax2*	no	no
2012	UESWWWN	11	OH07-254-11	no	2+12	Ax1 or null	no	TaSus2-2B
2012	UESWWWN	12	UGRC19/21	no	2+12	Ax1 or null	no	no
2012	UESWWWN	13	UGRCDH1-46	no	5+10	Ax1 or null	no	no
2012	UESWWWN	14	UGRCDH1-62	no	5+10	Ax1 or null	PHS Cayuga?	no
2012	UESWWWN	15	UGRC19-114B	no	5+10	Ax2*	no	no
2012	UESWWWN	16	Caledonia	no	2+12	het	no	no
2012	UESWWWN	17	Cayuga	no	2+12	Ax1 or null	PHS Cayuga?	no
2012	UESWWWN	18	NY94052-3329	no	2+12	Ax1 or null	no	no
2012	UESWWWN	19	NY99045-3110	no	2+12	Ax1 or null	no	no
2012	UESWWWN	20	NY99066-3025	no	2+12	Ax1 or null	no	no
2012	UESWWWN	21	NY94032-46	Bx7oe	2+12	Ax1 or null	no	no
2012	UESWWWN	22	NY99066-3444	no	2+12	Ax1 or null	no	no
2012	UESWWWN	23	DAS2001 (TW572-019)	no	2+12	het	no	no
2012	UESWWWN	24	DAS2002 (TWF559*020)	no	5+10	Ax1 or null	no	no
2012	UESWWWN	25	DAS2003 (TWF627*053)	no	2+12	Ax1 or null	PHS Cayuga?	no
2012	UESWWWN	26	DAS2004 (TW559*017)	no	5+10	Ax1 or null	no	no
2012	UESWWWN	27	DAS2005 (TW599*083)	no	het	Ax1 or null	no	no
2012	UESWWWN	28	DAS2006 (TWF575*081)	no	5+10	Ax1 or null	no	no
2012	UESWWWN	29	MC07*7001W	no	2+12	Ax1 or null	PHS Cayuga?	no

2012 Uniform Soft White Winter Wheat Nursery				Kernel Color Genes			
Year	Nursery	Entry	Sample Name	r-A1 white	r-A1 N17 white	r-B1 white	r-D1 white
2012	UESWWWN	1	Superior	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	2	Envoy	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	3	VA09W-188WS	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	4	VA09W-192WS	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	5	VA10W-159WS	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	6	Jupiter (formerly E5011)	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	7	MSU Line F0014	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	8	MSU Line F0037	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	9	MSU Line F0038	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	10	MSU Line F0039	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	11	OH07-254-11	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	12	UGRC19/21	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	13	UGRCDH1-46	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	14	UGRCDH1-62	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	15	UGRC19-114B	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	16	Caledonia	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	17	Cayuga	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	18	NY94052-3329	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	19	NY99045-3110	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	20	NY99066-3025	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	21	NY94032-46	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	22	NY99066-3444	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	23	DAS2001 (TW572-019)	R-A1	R-A1	r-B1 white	R-D1
2012	UESWWWN	24	DAS2002 (TWF559*020)	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	25	DAS2003 (TWF627*053)	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	26	DAS2004 (TW559*017)	r-A1 white	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	27	DAS2005 (TW599*083)	R-A1	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	28	DAS2006 (TWF575*081)	nd	R-A1	r-B1 white	r-D1 white
2012	UESWWWN	29	MC07*7001W	r-A1 white	R-A1	r-B1 white	r-D1 white