

2012

Marker Reports for all Alleles

**Uniform Eastern Soft Red Winter Wheat Nursery
Uniform Southern Soft Red 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 Eastern & Southern Soft Red Winter Wheat Nursery

Year	Nursery	Entry	Sample Name	Pedigree	Plant Source	1st Yr in Nursery
2012	UESRWWN	1	Branson	Pio2737W/891-4584A (Pike/FL302) (formerly M00-3701)	Check	03-04
2012	UESRWWN	2	Bess	MO11769/Madison (formerly MO981020)	Check	02-03
2012	UESRWWN	3	Shirley	VA94-52-25 /Coker 9835//VA96-54-234 (formerly VA03W-409)	Check	05-06
2012	UESRWWN	4	MO080104	L910097/MO 92-599	Check	09-10
2012	UESRWWN	5	IL06-14262	IL00-8530/IL97-1828	Kolb	10-11
2012	UESRWWN	6	NC08-23090	NC97-10076/C9704//P26R61	Murphy	11-12
2012	UESRWWN	7	NC08-23324	B960164/NC94-7197//McCormick	Murphy	11-12
2012	UESRWWN	8	GA021087-10LE33	P26R61/AGS2010	Johnson	11-12
2012	UESRWWN	9	KY03C-1237-32	P25R18/KY92C-0010-17//KY96C-0767-1	Van Sanford	11-12
2012	UESRWWN	10	KY03C-1002-02	P25W33/P25W60//P25W33/KY90C-042-37-1	Van Sanford	11-12
2012	UESRWWN	11	P04606RA1-6	Truman/INW0316	Ohm	11-12
2012	UESRWWN	12	P05222A1-7	99840/INW0304//INW0304/INW0316	Ohm	11-12
2012	UESRWWN	13	P05247A1-1	99840*2/03726//99794	Ohm	11-12
2012	UESRWWN	14	VA08MAS-369	McCormick/GA881130LE5	Griffey	11-12
2012	UESRWWN	15	VA09W-73	SS520/VA99W-188(VA91-54-343/Roane'S)//Tribute	Griffey	11-12
2012	UESRWWN	16	VA10W-21	Z00-5018(U90-1A//ZX90-2C1/P2580)/VA01W-158(P2643/VA94-54-331)	Griffey	11-12
2012	UESRWWN	17	MD03W64-10-3	P26R61/Chesapeake	Costa	11-12
2012	UESRWWN	18	MD03W665-09-1	USG3209/Tribute//Chesapeake	Costa	11-12
2012	UESRWWN	19	DAS1001	TW006-007/Emmit(TW044-094)	Etienne	11-12
2012	UESRWWN	20	DAS1002	Emmit(TW044-094)/TW005-008	Etienne	11-12
2012	UESRWWN	21	DAS1003	TW165-065/P25R23	Etienne	11-12
2012	UESRWWN	22	KWS001	Totem/M98-2152	Murche	11-12
2012	UESRWWN	23	KWS002	TW044-094/Honey	Murche	11-12
2012	UESRWWN	24	KWS003	95-3245/Ernie	Murche	11-12
2012	UESRWWN	25	IL06-13721	IL00-8530/IL97-3632	Kolb	11-12
2012	UESRWWN	26	IL06-23571	IL96-6472/P25W33//IL94-1653	Kolb	11-12
2012	UESRWWN	27	MO081652	P2552/MO980829	McKendry	11-12
2012	UESRWWN	28	OH07-263-3	OH748/Bravo	Sneller	11-12
2012	UESRWWN	29	OH08-180-48	Douglas/McCormick	Sneller	11-12
2012	UESRWWN	30	G00120	B980582//T814/L900819	Obert	11-12
2012	UESRWWN	31	G09534	ABI89-4584/T814//T814/L900819	Obert	11-12
2012	UESRWWN	32	G09528	T814/Boone	Obert	11-12
2012	UESRWWN	33	AR02061-1-1	AR910-9-1/Pat	Mason	11-12
2012	UESRWWN	34	AR01163-3-1	USG3709/AR800-1-3-1	Mason	11-12
2012	UESRWWN	35	ARS07-0525	GA951395-10-7/TX99D4031	Marshall	11-12

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

Year	Nursery	Entry	Sample Name	Pedigree	Plant Source	1st Yr in Nursery
2012	USSRWWN	1	AGS 2000	Pio.2555/PF84301//FL 302 (formerly GA89482E7)	Check	97-98
2012	USSRWWN	2	Pioneer Brand 26R61	Omega78/S76/4/Arthur71/3/Stadler//Redcoat/Wisc1/5/Ck747/6/2555sib (formerly	Check	97-98
2012	USSRWWN	3	USG 3555	VA94-52-60/Pio2643//USG3209 (formerly VA02W-555)	Check	04-05
2012	USSRWWN	4	Jamestown	Roane/Pioneer Brand 2691 (formerly VA02W-370)	Check	04-05
2012	USSRWWN	5	NC08-23089	NC97-10076/C9704//P26R61	Murphy	11-12
2012	USSRWWN	6	NC08-23090	NC97-10076/C9704//P26R61	Murphy	11-12
2012	USSRWWN	7	NC08-23323	B960164/NC94-7197//McCormick	Murphy	11-12
2012	USSRWWN	8	NC08-23324	B960164/NC94-7197//McCormick	Murphy	11-12
2012	USSRWWN	9	LA04041D-117	AGS2060/GA951079A25	Harrison	11-12
2012	USSRWWN	10	LA04041D-63	AGS2060/GA951079A25	Harrison	11-12
2012	USSRWWN	11	LA04026D-7	LA95283CA78-1-2/GA941208E35	Harrison	11-12
2012	USSRWWN	12	LA04110D-7	GA941208E35/P26R61	Harrison	11-12
2012	USSRWWN	13	TN1201	(P2552//FFRX304/Dozier/3/VA94W-158//FFR555/Madison)/NC98-26192	West	11-12
2012	USSRWWN	14	TN1202	(C747/ABI90-8369-718)/KY90C-292-4-1//Tribute/(Verne/P2580)	West	11-12
2012	USSRWWN	15	GA031086-10E26	P26R24/GA961565//GA941208	Johnson	11-12
2012	USSRWWN	16	GA031134-10E29	P26R38/2*961565(GA881130*2/GA88151)	Johnson	11-12
2012	USSRWWN	17	GA04570-10E46	GA00440/3/P2684/AGS2000*2/GA84202(Lr37)	Johnson	11-12
2012	USSRWWN	18	GA031257-10LE34	SS8641/GA961591	Johnson	11-12
2012	USSRWWN	19	VA08W-176	KY96C-0079-5(2552/FFR525//2552/FFR555W)/McCormick	Griffey	11-12
2012	USSRWWN	20	VA09W-75	SS520/VA99W-188(VA91-54-343/Roane'S)//Tribute	Griffey	11-12
2012	USSRWWN	21	VA10W-28	SS-MPV57(VA97W-24)/M99*3098(TX85-264/VA88-52-69)	Griffey	11-12
2012	USSRWWN	22	VA10W-119	KY97C-0540-04(C9803/L910097//2552)/GA951079-2E31(GA881130/Gore)	Griffey	11-12
2012	USSRWWN	23	MD03W665-10-5	USG3209/Tribute//Chesapeake	Costa	11-12
2012	USSRWWN	24	MD03W151-10-12	KY96C-0768-1/McCormick	Costa	11-12
2012	USSRWWN	25	G96164	Roane//T814/L900819	Obert	11-12
2012	USSRWWN	26	G95407	IL84-3511/T812//Auburn/OH413	Obert	11-12
2012	USSRWWN	27	G00032	B960208/VA98W-593	Obert	11-12
2012	USSRWWN	28	AR01167-3-1	VA98W-593/AR800-1-3-1	Mason	11-12
2012	USSRWWN	29	AR01179-4-1	AR92145E8-7-7-1-0/AR910-12-1	Mason	11-12

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

Dwarfing alleles

ID	Year	Nursery	Entry	Sample Name	Rht-B1b	Rht-D1b	Rht8c
A000001	2012	UESRWWN	1	Branson	Rht-B1b	no	no
A000002	2012	UESRWWN	2	Bess	Rht-B1b	no	no
A000003	2012	UESRWWN	3	Shirley	Rht-B1b	no	no
A000004	2012	UESRWWN	4	MO080104	no	no	no
A000005	2012	UESRWWN	5	IL06-14262	Rht-B1b	no	no
A000006	2012	UESRWWN	6	NC08-23090	Rht-B1b het	Rht-D1b	no
A000007	2012	UESRWWN	7	NC08-23324	no	Rht-D1b	no
A000008	2012	UESRWWN	8	GA021087-10LE33	no	Rht-D1b	no
A000009	2012	UESRWWN	9	KY03C-1237-32	Rht-B1b	no	Rht8c het
A000010	2012	UESRWWN	10	KY03C-1002-02	Rht-B1b	no	no
A000011	2012	UESRWWN	11	P04606RA1-6	Rht-B1b	no	no
A000012	2012	UESRWWN	12	P05222A1-7	Rht-B1b	no	no
A000013	2012	UESRWWN	13	P05247A1-1	Rht-B1b	no	no
A000014	2012	UESRWWN	14	VA08MAS-369	no	Rht-D1b	no
A000015	2012	UESRWWN	15	VA09W-73	no	Rht-D1b	no
A000016	2012	UESRWWN	16	VA10W-21	no	Rht-D1b	no
A000017	2012	UESRWWN	17	MD03W64-10-3	no	Rht-D1b	no
A000018	2012	UESRWWN	18	MD03W665-09-1	no	Rht-D1b	no
A000019	2012	UESRWWN	19	DAS1001	no	Rht-D1b	no
A000020	2012	UESRWWN	20	DAS1002	no	Rht-D1b	no
A000021	2012	UESRWWN	21	DAS1003	Rht-B1b	no	Rht8c
A000022	2012	UESRWWN	22	KWS001	Rht-B1b	no	Rht8c het
A000023	2012	UESRWWN	23	KWS002	no	Rht-D1b	Rht8c het
A000024	2012	UESRWWN	24	KWS003	Rht-B1b	no	no
A000025	2012	UESRWWN	25	IL06-13721	Rht-B1b	no	no
A000026	2012	UESRWWN	26	IL06-23571	Rht-B1b	no	Rht8c
A000027	2012	UESRWWN	27	MO081652	no	no	no
A000028	2012	UESRWWN	28	OH07-263-3	no	no	no
A000029	2012	UESRWWN	29	OH08-180-48	Rht-B1b	no	Rht8c
A000030	2012	UESRWWN	30	G00120	no	no	no
A000031	2012	UESRWWN	31	G09534	Rht-B1b het	no	no
A000032	2012	UESRWWN	32	G09528	Rht-B1b	no	no
A000033	2012	UESRWWN	33	AR02061-1-1	Rht-B1b	no	no
A000034	2012	UESRWWN	34	AR01163-3-1	Rht-B1b	no	no
A000035	2012	UESRWWN	35	ARS07-0525	no	Rht-D1b het	Rht8c het
A000036	2012	USSRWWN	1	AGS 2000	no	Rht-D1b	no
A000037	2012	USSRWWN	2	Pioneer Brand 26R61	no	Rht-D1b	no

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

Dwarfing alleles

ID	Year	Nursery	Entry	Sample Name	Rht-B1b	Rht-D1b	Rht8c
A000038	2012	USSRWWN	3	USG 3555	no	Rht-D1b	no
A000039	2012	USSRWWN	4	Jamestown	no	Rht-D1b	no
A000040	2012	USSRWWN	5	NC08-23089	no	Rht-D1b	no
A000041	2012	USSRWWN	6	NC08-23090	no	Rht-D1b	no
A000042	2012	USSRWWN	7	NC08-23323	no	Rht-D1b	no
A000043	2012	USSRWWN	8	NC08-23324	no	Rht-D1b	no
A000044	2012	USSRWWN	9	LA04041D-117	no	Rht-D1b	no
A000045	2012	USSRWWN	10	LA04041D-63	no	Rht-D1b	no
A000046	2012	USSRWWN	11	LA04026D-7	no	Rht-D1b	no
A000047	2012	USSRWWN	12	LA04110D-7	no	Rht-D1b	no
A000048	2012	USSRWWN	13	TN1201	no	Rht-D1b	no
A000049	2012	USSRWWN	14	TN1202	no	Rht-D1b	no
A000050	2012	USSRWWN	15	GA031086-10E26	no	Rht-D1b	no
A000051	2012	USSRWWN	16	GA031134-10E29	no	Rht-D1b	no
A000052	2012	USSRWWN	17	GA04570-10E46	no	Rht-D1b	no
A000053	2012	USSRWWN	18	GA031257-10LE34	no	Rht-D1b	no
A000054	2012	USSRWWN	19	VA08W-176	no	Rht-D1b	no
A000055	2012	USSRWWN	20	VA09W-75	no	Rht-D1b	no
A000056	2012	USSRWWN	21	VA10W-28	no	no	no
A000057	2012	USSRWWN	22	VA10W-119	no	Rht-D1b	no
A000058	2012	USSRWWN	23	MD03W665-10-5	no	Rht-D1b	no
A000059	2012	USSRWWN	24	MD03W151-10-12	no	Rht-D1b	no
A000060	2012	USSRWWN	25	G96164	no	no	no
A000061	2012	USSRWWN	26	G95407	Rht-B1b	no	no
A000062	2012	USSRWWN	27	G00032	Rht-B1b	no	no
A000063	2012	USSRWWN	28	AR01167-3-1	Rht-B1b	no	no
A000064	2012	USSRWWN	29	AR01179-4-1	Rht-B1b	no	no

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

ID	Year	Nursery	Entry	Sample Name	Photoperiod Insensitivity alleles			Vernalization alleles	
					Ppd-D1a	Ppd-B1 CS truncated copy	Ppd-B1 Sonora64/Timstein intercopy	vrn-A1	vrn-B1
A000001	2012	UESRWWN	1	Branson	Ppd-D1a insens	no	no	vrn-A1 long	nd
A000002	2012	UESRWWN	2	Bess	no	no	no	vrn-A1 long	vrn-B1 long
A000003	2012	UESRWWN	3	Shirley	Ppd-D1a insens	null	no	vrn-A1 long	vrn-B1 long
A000004	2012	UESRWWN	4	MO080104	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 long
A000005	2012	UESRWWN	5	IL06-14262	no	Ppd-B1 CS insens het	no	vrn-A1 long	vrn-B1 long
A000006	2012	UESRWWN	6	NC08-23090	Ppd-D1a insens	Ppd-B1 CS insens	no	vrn-A1 het	vrn-B1 short
A000007	2012	UESRWWN	7	NC08-23324	no	no	no	vrn-A1 long	vrn-B1 short
A000008	2012	UESRWWN	8	GA021087-10LE33	Ppd-D1a insens	null	no	vrn-A1 long	vrn-B1 long
A000009	2012	UESRWWN	9	KY03C-1237-32	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 short
A000010	2012	UESRWWN	10	KY03C-1002-02	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 short
A000011	2012	UESRWWN	11	P04606RA1-6	no	Ppd-B1 CS insens het	no	vrn-A1 long	vrn-B1 long
A000012	2012	UESRWWN	12	P05222A1-7	Ppd-D1a insens het	no	no	vrn-A1 long	vrn-B1 short
A000013	2012	UESRWWN	13	P05247A1-1	no	Ppd-B1 CS insens	no	vrn-A1 long	vrn-B1 short
A000014	2012	UESRWWN	14	VA08MAS-369	no	no	no	vrn-A1 short	vrn-B1 short
A000015	2012	UESRWWN	15	VA09W-73	no	no	no	vrn-A1 long	vrn-B1 long
A000016	2012	UESRWWN	16	VA10W-21	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 long
A000017	2012	UESRWWN	17	MD03W64-10-3	Ppd-D1a insens	Ppd-B1 CS insens het	no	vrn-A1 long	vrn-B1 long
A000018	2012	UESRWWN	18	MD03W665-09-1	Ppd-D1a insens	null	no	vrn-A1 long	vrn-B1 long
A000019	2012	UESRWWN	19	DAS1001	no	no	no	vrn-A1 long	vrn-B1 long
A000020	2012	UESRWWN	20	DAS1002	no	no	no	vrn-A1 long	vrn-B1 long
A000021	2012	UESRWWN	21	DAS1003	no	no	no	vrn-A1 long	vrn-B1 long
A000022	2012	UESRWWN	22	KWS001	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 het
A000023	2012	UESRWWN	23	KWS002	Ppd-D1a insens het	no	no	vrn-A1 long	vrn-B1 het
A000024	2012	UESRWWN	24	KWS003	no	Ppd-B1 CS insens	no	vrn-A1 long	vrn-B1 long
A000025	2012	UESRWWN	25	IL06-13721	Ppd-D1a insens het	Ppd-B1 CS insens	no	vrn-A1 long	vrn-B1 long
A000026	2012	UESRWWN	26	IL06-23571	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 long
A000027	2012	UESRWWN	27	MO081652	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 long
A000028	2012	UESRWWN	28	OH07-263-3	no	no	no	vrn-A1 long	vrn-B1 long
A000029	2012	UESRWWN	29	OH08-180-48	no	no	no	vrn-A1 long	vrn-B1 short
A000030	2012	UESRWWN	30	G00120	no	Ppd-B1 CS insens	no	vrn-A1 long	vrn-B1 long
A000031	2012	UESRWWN	31	G09534	no	Ppd-B1 CS insens het	no	vrn-A1 long	vrn-B1 long
A000032	2012	UESRWWN	32	G09528	no	null	no	vrn-A1 long	vrn-B1 long
A000033	2012	UESRWWN	33	AR02061-1-1	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 het
A000034	2012	UESRWWN	34	AR01163-3-1	no	no	no	vrn-A1 short	vrn-B1 long
A000035	2012	UESRWWN	35	ARS07-0525	no	Ppd-B1 CS insens	no	vrn-A1 long	vrn-B1 long
A000036	2012	USSRWWN	1	AGS 2000	no	no	Ppd-B1 S64 insens	vrn-A1 long	vrn-B1 short
A000037	2012	USSRWWN	2	Pioneer Brand 26R61	Ppd-D1a insens	no	no	vrn-A1 short	vrn-B1 long

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

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					Ppd-D1a	Ppd-B1 CS truncated copy	Ppd-B1 Sonora64/Timstein intercopy	vrn-A1	vrn-B1
A000038	2012	USSRWWN	3	USG 3555	Ppd-D1a insens	null	no	vrn-A1 long	vrn-B1 short
A000039	2012	USSRWWN	4	Jamestown	Ppd-D1a insens	no	no	vrn-A1 short	vrn-B1 long
A000040	2012	USSRWWN	5	NC08-23089	Ppd-D1a insens	Ppd-B1 CS insens	no	vrn-A1 short	vrn-B1 short
A000041	2012	USSRWWN	6	NC08-23090	Ppd-D1a insens	Ppd-B1 CS insens	no	vrn-A1 het	vrn-B1 short
A000042	2012	USSRWWN	7	NC08-23323	no	no	no	vrn-A1 long	vrn-B1 short
A000043	2012	USSRWWN	8	NC08-23324	no	no	no	vrn-A1 long	vrn-B1 short
A000044	2012	USSRWWN	9	LA04041D-117	Ppd-D1a insens	no	Ppd-B1 S64 insens	vrn-A1 long	vrn-B1 short
A000045	2012	USSRWWN	10	LA04041D-63	Ppd-D1a insens	no	Ppd-B1 S64 insens	vrn-A1 long	vrn-B1 short
A000046	2012	USSRWWN	11	LA04026D-7	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 short
A000047	2012	USSRWWN	12	LA04110D-7	Ppd-D1a insens	no	no	vrn-A1 short	vrn-B1 short
A000048	2012	USSRWWN	13	TN1201	no	no	no	vrn-A1 long	vrn-B1 long
A000049	2012	USSRWWN	14	TN1202	no	no	no	vrn-A1 long	vrn-B1 long
A000050	2012	USSRWWN	15	GA031086-10E26	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 short
A000051	2012	USSRWWN	16	GA031134-10E29	Ppd-D1a insens	no	Ppd-B1 S64 insens	vrn-A1 long	vrn-B1 long
A000052	2012	USSRWWN	17	GA04570-10E46	no	no	Ppd-B1 S64 insens	vrn-A1 long	vrn-B1 short
A000053	2012	USSRWWN	18	GA031257-10LE34	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 long
A000054	2012	USSRWWN	19	VA08W-176	no	no	no	vrn-A1 long	vrn-B1 long
A000055	2012	USSRWWN	20	VA09W-75	no	no	no	vrn-A1 long	vrn-B1 long
A000056	2012	USSRWWN	21	VA10W-28	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 long
A000057	2012	USSRWWN	22	VA10W-119	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 long
A000058	2012	USSRWWN	23	MD03W665-10-5	Ppd-D1a insens	null	no	vrn-A1 long	vrn-B1 long
A000059	2012	USSRWWN	24	MD03W151-10-12	Ppd-D1a insens	null	no	vrn-A1 long	vrn-B1 short
A000060	2012	USSRWWN	25	G96164	no	Ppd-B1 CS insens	no	vrn-A1 long	vrn-B1 long
A000061	2012	USSRWWN	26	G95407	no	no	no	vrn-A1 long	vrn-B1 long
A000062	2012	USSRWWN	27	G00032	no	no	no	vrn-A1 long	vrn-B1 short
A000063	2012	USSRWWN	28	AR01167-3-1	Ppd-D1a insens	no	no	vrn-A1 long	vrn-B1 long
A000064	2012	USSRWWN	29	AR01179-4-1	no	no	no	vrn-A1 short	vrn-B1 long

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

Fusarium Head Blight alleles

ID	Year	Nursery	Entry	Sample Name	Fhb1	Fhb Ernie 3Bc	Fhb 2DL-Wuhan1/W14	Fhb 5A Ernie	Fhb 5A Ning7840
A000001	2012	UESRWWN	1	Branson	no	no	no	no	no
A000002	2012	UESRWWN	2	Bess	no	no	no	no	no
A000003	2012	UESRWWN	3	Shirley	no	no	no	no	no
A000004	2012	UESRWWN	4	MO080104	no	no	no	no	no
A000005	2012	UESRWWN	5	IL06-14262	no	no	no	no	no
A000006	2012	UESRWWN	6	NC08-23090	no	no	Fhb 2DL-Wuhan1/W14 het	no	no
A000007	2012	UESRWWN	7	NC08-23324	no	no	no	no	no
A000008	2012	UESRWWN	8	GA021087-10LE33	no	no	no	no	no
A000009	2012	UESRWWN	9	KY03C-1237-32	no	no	no	no	no
A000010	2012	UESRWWN	10	KY03C-1002-02	Fhb1 het	no	no	no	no
A000011	2012	UESRWWN	11	P04606RA1-6	no	no	no	no	no
A000012	2012	UESRWWN	12	P05222A1-7	no	no	no	Fhb 5A Ernie	no
A000013	2012	UESRWWN	13	P05247A1-1	no	no	no	Fhb 5A Ernie	no
A000014	2012	UESRWWN	14	VA08MAS-369	no	no	no	no	no
A000015	2012	UESRWWN	15	VA09W-73	no	no	no	no	no
A000016	2012	UESRWWN	16	VA10W-21	no	no	no	no	no
A000017	2012	UESRWWN	17	MD03W64-10-3	no	no	no	no	no
A000018	2012	UESRWWN	18	MD03W665-09-1	no	no	no	no	no
A000019	2012	UESRWWN	19	DAS1001	no	no	no	no	no
A000020	2012	UESRWWN	20	DAS1002	no	no	no	no	no
A000021	2012	UESRWWN	21	DAS1003	no	no	no	no	no
A000022	2012	UESRWWN	22	KWS001	no	no	no	no	no
A000023	2012	UESRWWN	23	KWS002	no	no	no	no	no
A000024	2012	UESRWWN	24	KWS003	no	no	no	no	no
A000025	2012	UESRWWN	25	IL06-13721	no	no	no	no	no
A000026	2012	UESRWWN	26	IL06-23571	no	no	no	no	no
A000027	2012	UESRWWN	27	MO081652	no	no	no	no	no
A000028	2012	UESRWWN	28	OH07-263-3	no	no	no	no	no
A000029	2012	UESRWWN	29	OH08-180-48	no	no	no	no	no
A000030	2012	UESRWWN	30	G00120	no	no	no	no	no
A000031	2012	UESRWWN	31	G09534	no	Fhb Ernie 3Bc het	no	no	no
A000032	2012	UESRWWN	32	G09528	no	no	no	no	no
A000033	2012	UESRWWN	33	AR02061-1-1	no	no	no	no	no
A000034	2012	UESRWWN	34	AR01163-3-1	no	no	no	no	no
A000035	2012	UESRWWN	35	ARS07-0525	no	no	no	no	no
A000036	2012	USSRWWN	1	AGS 2000	no	no	no	no	no
A000037	2012	USSRWWN	2	Pioneer Brand 26R61	no	no	no	no	no

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

Fusarium Head Blight alleles

ID	Year	Nursery	Entry	Sample Name	Fhb1	Fhb Ernie 3Bc	Fhb 2DL-Wuhan1/W14	Fhb 5A Ernie	Fhb 5A Ning7840
A000038	2012	USSRWWN	3	USG 3555	no	Fhb Ernie 3Bc	no	no	no
A000039	2012	USSRWWN	4	Jamestown	no	no	no	no	no
A000040	2012	USSRWWN	5	NC08-23089	no	no	no	no	no
A000041	2012	USSRWWN	6	NC08-23090	no	no	no	no	no
A000042	2012	USSRWWN	7	NC08-23323	no	no	no	no	no
A000043	2012	USSRWWN	8	NC08-23324	no	no	no	no	no
A000044	2012	USSRWWN	9	LA04041D-117	no	no	no	no	no
A000045	2012	USSRWWN	10	LA04041D-63	no	no	no	no	no
A000046	2012	USSRWWN	11	LA04026D-7	no	no	no	no	no
A000047	2012	USSRWWN	12	LA04110D-7	no	no	no	no	no
A000048	2012	USSRWWN	13	TN1201	no	no	no	no	no
A000049	2012	USSRWWN	14	TN1202	no	no	no	no	no
A000050	2012	USSRWWN	15	GA031086-10E26	no	no	no	no	no
A000051	2012	USSRWWN	16	GA031134-10E29	no	no	no	no	no
A000052	2012	USSRWWN	17	GA04570-10E46	no	no	no	no	no
A000053	2012	USSRWWN	18	GA031257-10LE34	no	no	no	no	no
A000054	2012	USSRWWN	19	VA08W-176	no	no	no	no	no
A000055	2012	USSRWWN	20	VA09W-75	no	no	no	no	no
A000056	2012	USSRWWN	21	VA10W-28	no	no	no	no	no
A000057	2012	USSRWWN	22	VA10W-119	no	no	no	no	no
A000058	2012	USSRWWN	23	MD03W665-10-5	no	no	no	no	no
A000059	2012	USSRWWN	24	MD03W151-10-12	no	no	no	no	no
A000060	2012	USSRWWN	25	G96164	no	no	no	no	no
A000061	2012	USSRWWN	26	G95407	no	no	no	no	no
A000062	2012	USSRWWN	27	G00032	no	no	no	no	no
A000063	2012	USSRWWN	28	AR01167-3-1	no	no	no	no	no
A000064	2012	USSRWWN	29	AR01179-4-1	no	no	no	no	no

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

Leaf, Stem & Stripe Rusts and Powdery Mildew alleles

ID	Year	Nursery	Entry	Sample Name	Sr2	Sr36	Sr24/Lr24	Yr17/Lr37/Sr38	Lr34/Yr18	Sr9a	Lr9	Lr19/Sr25	Qyr.uga-2AS
A000001	2012	UESRWWN	1	Branson	no	no	no	no	no	nd	no	no	no
A000002	2012	UESRWWN	2	Bess	no	no	no	no	no	nd	no	no	no
A000003	2012	UESRWWN	3	Shirley	no	Sr36 het	no	no	no	no	no	no	no
A000004	2012	UESRWWN	4	MO080104	no	no	no	no	no	no	no	no	no
A000005	2012	UESRWWN	5	IL06-14262	no	no	no	no	no	no	no	no	no
A000006	2012	UESRWWN	6	NC08-23090	no	no	Sr24/Lr24	no	no	no	no	no	APR Yr P26R61
A000007	2012	UESRWWN	7	NC08-23324	no	no	no	no	no	no	Lr9	no	no
A000008	2012	UESRWWN	8	GA021087-10LE33	no	Sr36	no	Yr17Lr37/Sr38	no	no	no	no	no
A000009	2012	UESRWWN	9	KY03C-1237-32	no	no	no	no	no	no	no	no	no
A000010	2012	UESRWWN	10	KY03C-1002-02	no	no	no	no	no	no	no	no	no
A000011	2012	UESRWWN	11	P04606RA1-6	no	no	no	no	no	nd	no	no	no
A000012	2012	UESRWWN	12	P05222A1-7	no	no	no	Yr17Lr37/Sr38	no	no	no	no	no
A000013	2012	UESRWWN	13	P05247A1-1	no	Sr36	no	Yr17Lr37/Sr38	no	no	no	no	no
A000014	2012	UESRWWN	14	VA08MAS-369	no	no	Sr24/Lr24	no	no	no	no	no	no
A000015	2012	UESRWWN	15	VA09W-73	no	no	no	no	no	no	no	no	no
A000016	2012	UESRWWN	16	VA10W-21	no	no	no	no	no	no	no	no	no
A000017	2012	UESRWWN	17	MD03W64-10-3	no	no	no	no	no	no	no	no	no
A000018	2012	UESRWWN	18	MD03W665-09-1	no	Sr36	no	no	no	no	no	no	no
A000019	2012	UESRWWN	19	DAS1001	no	no	no	no	no	no	no	no	no
A000020	2012	UESRWWN	20	DAS1002	no	no	no	no	no	nd	no	no	no
A000021	2012	UESRWWN	21	DAS1003	no	no	no	no	no	no	no	no	no
A000022	2012	UESRWWN	22	KWS001	no	no	no	no	no	nd	no	no	APR Yr P26R61 het
A000023	2012	UESRWWN	23	KWS002	no	no	no	no	no	no	no	no	no
A000024	2012	UESRWWN	24	KWS003	no	Sr36	no	no	no	no	no	no	no
A000025	2012	UESRWWN	25	IL06-13721	no	no	Sr24/Lr24	no	no	no	no	no	no
A000026	2012	UESRWWN	26	IL06-23571	no	no	no	no	no	nd	no	no	no
A000027	2012	UESRWWN	27	MO081652	no	no	no	no	no	no	no	no	no
A000028	2012	UESRWWN	28	OH07-263-3	no	no	no	no	no	no	no	no	no
A000029	2012	UESRWWN	29	OH08-180-48	no	no	Sr24/Lr24	no	no	no	no	no	no
A000030	2012	UESRWWN	30	G00120	Sr2?	Sr36	no	no	no	no	Lr9	no	no
A000031	2012	UESRWWN	31	G09534	no	Sr36	no	no	no	no	Lr9	no	no
A000032	2012	UESRWWN	32	G09528	no	Sr36	no	no	no	no	no	no	no
A000033	2012	UESRWWN	33	AR02061-1-1	no	no	no	no	no	no	no	no	no
A000034	2012	UESRWWN	34	AR01163-3-1	no	no	no	no	no	no	no	no	no
A000035	2012	UESRWWN	35	ARS07-0525	no	Sr36	Sr24/Lr24	Yr17Lr37/Sr38	no	no	no	no	no
A000036	2012	USSRWWN	1	AGS 2000	no	no	no	no	no	nd	no	no	no
A000037	2012	USSRWWN	2	Pioneer Brand 26R61	no	no	no	no	no	no	no	no	APR Yr P26R61

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

Leaf, Stem & Stripe Rusts and Powdery Mildew alleles

ID	Year	Nursery	Entry	Sample Name	Sr2	Sr36	Sr24/Lr24	Yr17/Lr37/Sr38	Lr34/Yr18	Sr9a	Lr9	Lr19/Sr25	Qyr.uga-2AS
A000038	2012	USSRWWN	3	USG 3555	no	Sr36	no	no	no	no	no	no	no
A000039	2012	USSRWWN	4	Jamestown	no	no	no	no	no	no	no	no	no
A000040	2012	USSRWWN	5	NC08-23089	no	no	Sr24/Lr24	no	no	no	no	no	no
A000041	2012	USSRWWN	6	NC08-23090	no	no	Sr24/Lr24	no	no	no	no	no	no
A000042	2012	USSRWWN	7	NC08-23323	no	no	no	no	no	no	Lr9	no	no
A000043	2012	USSRWWN	8	NC08-23324	no	no	Sr24/Lr24	no	no	no	Lr9	no	no
A000044	2012	USSRWWN	9	LA04041D-117	no	no	no	no	no	no	no	no	no
A000045	2012	USSRWWN	10	LA04041D-63	no	no	no	no	no	nd	no	no	no
A000046	2012	USSRWWN	11	LA04026D-7	no	no	no	Yr17Lr37/Sr38	no	nd	no	no	no
A000047	2012	USSRWWN	12	LA04110D-7	no	no	no	no	no	no	no	no	APR Yr P26R61
A000048	2012	USSRWWN	13	TN1201	no	no	no	no	no	no	Lr9	no	no
A000049	2012	USSRWWN	14	TN1202	no	no	no	no	no	no	no	no	no
A000050	2012	USSRWWN	15	GA031086-10E26	no	no	no	Yr17Lr37/Sr38	no	no	no	no	no
A000051	2012	USSRWWN	16	GA031134-10E29	no	no	no	Yr17Lr37/Sr38	no	no	no	no	no
A000052	2012	USSRWWN	17	GA04570-10E46	no	no	no	Yr17Lr37/Sr38	no	no	no	no	no
A000053	2012	USSRWWN	18	GA031257-10LE34	no	no	no	Yr17Lr37/Sr38	no	nd	no	no	no
A000054	2012	USSRWWN	19	VA08W-176	no	no	Sr24/Lr24	no	no	no	no	no	no
A000055	2012	USSRWWN	20	VA09W-75	no	no	no	no	no	no	Lr9	no	no
A000056	2012	USSRWWN	21	VA10W-28	no	no	no	no	no	no	no	no	no
A000057	2012	USSRWWN	22	VA10W-119	no	no	no	Yr17Lr37/Sr38	no	no	no	no	no
A000058	2012	USSRWWN	23	MD03W665-10-5	no	Sr36	no	no	no	no	Lr9	no	no
A000059	2012	USSRWWN	24	MD03W151-10-12	no	Sr36	no	no	no	no	no	no	no
A000060	2012	USSRWWN	25	G96164	no	Sr36	no	no	no	no	no	no	no
A000061	2012	USSRWWN	26	G95407	no	no	no	no	no	nd	no	no	no
A000062	2012	USSRWWN	27	G00032	no	no	Sr24/Lr24	no	no	no	Lr9	no	no
A000063	2012	USSRWWN	28	AR01167-3-1	no	no	no	no	no	no	no	no	no
A000064	2012	USSRWWN	29	AR01179-4-1	no	no	no	Yr17Lr37/Sr38	no	no	Lr9	no	no

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

ID	Year	Nursery	Entry	Sample Name	Rye translocations	Hessian Fly		BYDV	SBMV
					1RS	H13	H9	Bdv2/3	Sbm1
A000001	2012	UESRWWN	1	Branson	non-1RS	no	no	no	Sbm1
A000002	2012	UESRWWN	2	Bess	non-1RS	no	no	no	Sbm1
A000003	2012	UESRWWN	3	Shirley	1RS:1BL	no	no	no	Sbm1
A000004	2012	UESRWWN	4	MO080104	non-1RS	no	no	no	Sbm1
A000005	2012	UESRWWN	5	IL06-14262	non-1RS	no	no	no	Sbm1
A000006	2012	UESRWWN	6	NC08-23090	1RS:1BL het 1RS:1AL het	no	no	no	Sbm1
A000007	2012	UESRWWN	7	NC08-23324	1RS:1AL	no	nd	no	Sbm1
A000008	2012	UESRWWN	8	GA021087-10LE33	non-1RS	no	no	no	Sbm1
A000009	2012	UESRWWN	9	KY03C-1237-32	non-1RS	no	no	no	Sbm1
A000010	2012	UESRWWN	10	KY03C-1002-02	non-1RS?	no	no	no	Sbm1
A000011	2012	UESRWWN	11	P04606RA1-6	1RS:1BL	no	no	Bdv2/3	Sbm1
A000012	2012	UESRWWN	12	P05222A1-7	1RS:1BL	no	H9	Bdv2/3	no
A000013	2012	UESRWWN	13	P05247A1-1	1RS:1BL	no	no	Bdv2/3	Sbm1
A000014	2012	UESRWWN	14	VA08MAS-369	1RS:1AL	no	nd	no	Sbm1
A000015	2012	UESRWWN	15	VA09W-73	non-1RS	no	no	no	no
A000016	2012	UESRWWN	16	VA10W-21	non-1RS	no	no	no	Sbm1
A000017	2012	UESRWWN	17	MD03W64-10-3	1RS:1BL	no	no	no	Sbm1
A000018	2012	UESRWWN	18	MD03W665-09-1	1RS:1BL	no	no	no	Sbm1
A000019	2012	UESRWWN	19	DAS1001	non-1RS	no	no	no	Sbm1
A000020	2012	UESRWWN	20	DAS1002	non-1RS	no	no	no	Sbm1
A000021	2012	UESRWWN	21	DAS1003	1RS:1BL	no	no	no	no
A000022	2012	UESRWWN	22	KWS001	1RS:1BL	no	no	no	Sbm1 het
A000023	2012	UESRWWN	23	KWS002	1RS:1AL?	no	no	no	Sbm1
A000024	2012	UESRWWN	24	KWS003	non-1RS	no	no	no	Sbm1
A000025	2012	UESRWWN	25	IL06-13721	non-1RS	no	no	no	Sbm1
A000026	2012	UESRWWN	26	IL06-23571	non-1RS	no	no	no	Sbm1
A000027	2012	UESRWWN	27	MO081652	non-1RS	no	no	no	Sbm1
A000028	2012	UESRWWN	28	OH07-263-3	1RS:1BL het	no	no	no	Sbm1
A000029	2012	UESRWWN	29	OH08-180-48	non-1RS	no	no	no	Sbm1
A000030	2012	UESRWWN	30	G00120	non-1RS	no	no	no	Sbm1 het
A000031	2012	UESRWWN	31	G09534	non-1RS	no	no	no	Sbm1
A000032	2012	UESRWWN	32	G09528	non-1RS	no	no	no	Sbm1
A000033	2012	UESRWWN	33	AR02061-1-1	1RS:1AL?	no	no	no	Sbm1
A000034	2012	UESRWWN	34	AR01163-3-1	non-1RS	no	no	no	Sbm1
A000035	2012	UESRWWN	35	ARS07-0525	1RS:1BL	H13 het	no	no	no
A000036	2012	USSRWWN	1	AGS 2000	1RS:1BL	no	no	no	no
A000037	2012	USSRWWN	2	Pioneer Brand 26R61	1RS:1BL	nd	no	no	Sbm1

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

ID	Year	Nursery	Entry	Sample Name	Rye translocations	Hessian Fly		BYDV	SBMV
					1RS	H13	H9	Bdv2/3	Sbm1
A000038	2012	USSRWWN	3	USG 3555	1RS:1BL	no	no	no	Sbm1
A000039	2012	USSRWWN	4	Jamestown	non-1RS	no	no	no	Sbm1
A000040	2012	USSRWWN	5	NC08-23089	1RS:1AL	nd	nd	no	Sbm1
A000041	2012	USSRWWN	6	NC08-23090	1RS:1AL	no	no	no	Sbm1
A000042	2012	USSRWWN	7	NC08-23323	1RS:1AL het	no	nd	no	Sbm1
A000043	2012	USSRWWN	8	NC08-23324	1RS:1AL	no	nd	no	Sbm1
A000044	2012	USSRWWN	9	LA04041D-117	1RS:1AL?	no	no	no	no
A000045	2012	USSRWWN	10	LA04041D-63	non-1RS	no	no	no	no
A000046	2012	USSRWWN	11	LA04026D-7	non-1RS	no	no	no	no
A000047	2012	USSRWWN	12	LA04110D-7	non-1RS	no	no	no	Sbm1
A000048	2012	USSRWWN	13	TN1201	non-1RS	no	no	no	no
A000049	2012	USSRWWN	14	TN1202	non-1RS	no	no	no	Sbm1
A000050	2012	USSRWWN	15	GA031086-10E26	non-1RS	H13 het	nd	no	Sbm1
A000051	2012	USSRWWN	16	GA031134-10E29	non-1RS	H13 het	no	no	Sbm1
A000052	2012	USSRWWN	17	GA04570-10E46	1RS:1BL	no	no	no	Sbm1
A000053	2012	USSRWWN	18	GA031257-10LE34	non-1RS	no	no	no	Sbm1
A000054	2012	USSRWWN	19	VA08W-176	1RS:1AL	no	nd	no	Sbm1
A000055	2012	USSRWWN	20	VA09W-75	1RS:1AL	no	nd	no	no
A000056	2012	USSRWWN	21	VA10W-28	1RS:1BL het	no	no	no	Sbm1
A000057	2012	USSRWWN	22	VA10W-119	non-1RS	H13 het	no	no	Sbm1
A000058	2012	USSRWWN	23	MD03W665-10-5	1RS:1BL	no	no	no	no
A000059	2012	USSRWWN	24	MD03W151-10-12	non-1RS	no	no	no	Sbm1
A000060	2012	USSRWWN	25	G96164	non-1RS	no	no	no	no
A000061	2012	USSRWWN	26	G95407	non-1RS	no	no	no	no
A000062	2012	USSRWWN	27	G00032	non-1RS	no	no	no	Sbm1 het
A000063	2012	USSRWWN	28	AR01167-3-1	non-1RS	no	no	no	Sbm1
A000064	2012	USSRWWN	29	AR01179-4-1	non-1RS	no	no	no	no

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

ID	Year	Nursery	Entry	Sample Name	Glutenin alleles			Mill Quality	Kernel Color Genes		
					Glu-B1	Glu-D1	Glu-A1	sucrose synthase	r-A1 white	r-B1 white	r-D1 white
A000001	2012	UESRWWN	1	Branson	no	2+12	Ax2*	no	R-A1	r-B1 white	R-D1
A000002	2012	UESRWWN	2	Bess	no	2+12	Ax1 or null	no	r-A1 white	r-B1 white	R-D1
A000003	2012	UESRWWN	3	Shirley	no	2+12	Ax1 or null	TaSus2-2B het	R-A1	R-B1	R-D1
A000004	2012	UESRWWN	4	MO080104	no	5+10	Ax2*	no	R-A1	R-B1	R-D1
A000005	2012	UESRWWN	5	IL06-14262	no	5+10	Ax2*	no	R-A1	r-B1 white	R-D1
A000006	2012	UESRWWN	6	NC08-23090	no	het	het	no	R-A1	r-B1 white	R-D1
A000007	2012	UESRWWN	7	NC08-23324	no	2+12	Ax1 or null	no	r-A1 white	r-B1 white	r-D1 white
A000008	2012	UESRWWN	8	GA021087-10LE33	no	2+12	Ax2*	TaSus2-2B	R-A1	r-B1 white	R-D1
A000009	2012	UESRWWN	9	KY03C-1237-32	no	5+10	Ax2*	no	R-A1	R-B1	R-D1
A000010	2012	UESRWWN	10	KY03C-1002-02	no	2+12	Ax2*	no	R-A1	R-B1	R-D1
A000011	2012	UESRWWN	11	P04606RA1-6	Bx7oe	2+12	Ax1 or null	no	R-A1	r-B1 white	R-D1
A000012	2012	UESRWWN	12	P05222A1-7	Bx7oe	2+12	Ax2*	no	R-A1	R-B1	r-D1 white
A000013	2012	UESRWWN	13	P05247A1-1	Bx7oe het	2+12	Ax1 or null	TaSus2-2B	r-A1 white	R-B1	r-D1 white
A000014	2012	UESRWWN	14	VA08MAS-369	no	5+10	Ax2*	no	R-A1	r-B1 white	R-D1
A000015	2012	UESRWWN	15	VA09W-73	no	2+12	Ax2*	no	R-A1	r-B1 white	R-D1
A000016	2012	UESRWWN	16	VA10W-21	no	5+10	Ax1 or null	no	R-A1	r-B1 white	R-D1
A000017	2012	UESRWWN	17	MD03W64-10-3	no	het	Ax2*	no	R-A1	r-B1 white	R-D1
A000018	2012	UESRWWN	18	MD03W665-09-1	no	2+12	Ax1 or null	TaSus2-2B	R-A1	R-B1	R-D1
A000019	2012	UESRWWN	19	DAS1001	no	2+12	Ax1 or null	no	R-A1	r-B1 white	r-D1 white
A000020	2012	UESRWWN	20	DAS1002	no	5+10	Ax2*	no	r-A1 white	r-B1 white	R-D1
A000021	2012	UESRWWN	21	DAS1003	no	5+10	Ax1 or null	no	R-A1	R-B1	r-D1 white
A000022	2012	UESRWWN	22	KWS001	no	het	Ax2*	no	R-A1	r-B1 white	R-D1
A000023	2012	UESRWWN	23	KWS002	no	het	het	no	R-A1	r-B1 white	R-D1
A000024	2012	UESRWWN	24	KWS003	no	5+10	Ax2*	TaSus2-2B	R-A1	r-B1 white	r-D1 white
A000025	2012	UESRWWN	25	IL06-13721	no	het	Ax2*	no	R-A1	R-B1	R-D1
A000026	2012	UESRWWN	26	IL06-23571	no	2+12	Ax2*	no	R-A1	R-B1	R-D1
A000027	2012	UESRWWN	27	MO081652	no	5+10	Ax2*	no	R-A1	R-B1	R-D1
A000028	2012	UESRWWN	28	OH07-263-3	no	het	Ax2*	no	R-A1	r-B1 white	R-D1
A000029	2012	UESRWWN	29	OH08-180-48	no	5+10	Ax2*	no	R-A1	r-B1 white	R-D1
A000030	2012	UESRWWN	30	G00120	no	5+10	het	TaSus2-2B	R-A1	r-B1 white	r-D1 white
A000031	2012	UESRWWN	31	G09534	no	5+10	het	TaSus2-2B	r-A1 white	R-B1	r-D1 white
A000032	2012	UESRWWN	32	G09528	no	5+10	Ax1 or null	TaSus2-2B	r-A1 white	R-B1	r-D1 white
A000033	2012	UESRWWN	33	AR02061-1-1	no	2+12	het	no	R-A1	r-B1 white	R-D1
A000034	2012	UESRWWN	34	AR01163-3-1	no	het	nd	no	R-A1	R-B1	R-D1
A000035	2012	UESRWWN	35	ARS07-0525	no	2+12	Ax2*	TaSus2-2B	R-A1	r-B1 white	r-D1 white
A000036	2012	USSRWWN	1	AGS 2000	no	5+10	Ax2*	no	R-A1	r-B1 white	R-D1
A000037	2012	USSRWWN	2	Pioneer Brand 26R61	Bx7oe	5+10	Ax2*	no	R-A1	r-B1 white	R-D1

2012 Uniform Eastern & Southern Soft Red Winter Wheat Nursery

ID	Year	Nursery	Entry	Sample Name	Glutenin alleles			Mill Quality	Kernel Color Genes		
					Glu-B1	Glu-D1	Glu-A1	sucrose synthase	r-A1 white	r-B1 white	r-D1 white
A000038	2012	USSRWWN	3	USG 3555	no	2+12	Ax2*	TaSus2-2B	r-A1 white	R-B1	r-D1 white
A000039	2012	USSRWWN	4	Jamestown	no	2+12	Ax2*	no	R-A1	R-B1	R-D1
A000040	2012	USSRWWN	5	NC08-23089	no	2+12	Ax2*	no	R-A1	R-B1	r-D1 white
A000041	2012	USSRWWN	6	NC08-23090	no	2+12	Ax2*	no	R-A1	r-B1 white	R-D1
A000042	2012	USSRWWN	7	NC08-23323	no	het	Ax1 or null	no	r-A1 white	r-B1 white	r-D1 white
A000043	2012	USSRWWN	8	NC08-23324	no	het	Ax1 or null	no	r-A1 white	r-B1 white	r-D1 white
A000044	2012	USSRWWN	9	LA04041D-117	no	2+12	Ax2*	no	nd	r-B1 white	R-D1
A000045	2012	USSRWWN	10	LA04041D-63	no	2+12	Ax2*	no	R-A1	r-B1 white	R-D1
A000046	2012	USSRWWN	11	LA04026D-7	Bx7oe	2+12	Ax2*	no	R-A1	r-B1 white	r-D1 white
A000047	2012	USSRWWN	12	LA04110D-7	no	5+10	Ax2*	no	R-A1	r-B1 white	r-D1 white
A000048	2012	USSRWWN	13	TN1201	no	2+12	Ax2*	no	R-A1	r-B1 white	R-D1
A000049	2012	USSRWWN	14	TN1202	no	2+12	Ax2*	no	R-A1	r-B1 white	r-D1 white
A000050	2012	USSRWWN	15	GA031086-10E26	no	2+12	Ax2*	no	R-A1	R-B1	R-D1
A000051	2012	USSRWWN	16	GA031134-10E29	no	5+10	Ax2*	no	R-A1	r-B1 white	r-D1 white
A000052	2012	USSRWWN	17	GA04570-10E46	no	5+10	Ax2*	no	r-A1 white	r-B1 white	R-D1
A000053	2012	USSRWWN	18	GA031257-10LE34	no	2+12	Ax2*	no	R-A1	r-B1 het	R-D1
A000054	2012	USSRWWN	19	VA08W-176	no	2+12	Ax2*	no	R-A1	r-B1 white	R-D1
A000055	2012	USSRWWN	20	VA09W-75	no	2+12	Ax2*	no	R-A1	r-B1 white	r-D1 white
A000056	2012	USSRWWN	21	VA10W-28	no	5+10	Ax1 or null	no	R-A1	r-B1 white	R-D1
A000057	2012	USSRWWN	22	VA10W-119	no	2+12	Ax2*	no	R-A1	r-B1 white	r-D1 white
A000058	2012	USSRWWN	23	MD03W665-10-5	no	2+12	Ax1 or null	TaSus2-2B	R-A1	R-B1	R-D1
A000059	2012	USSRWWN	24	MD03W151-10-12	Bx7oe het	2+12	Ax1 or null	TaSus2-2B	R-A1	r-B1 white	r-D1 white
A000060	2012	USSRWWN	25	G96164	no	5+10	Ax2*	TaSus2-2B	R-A1	r-B1 white	R-D1
A000061	2012	USSRWWN	26	G95407	no	2+12	Ax2*	no	R-A1	r-B1 white	r-D1 white
A000062	2012	USSRWWN	27	G00032	no	5+10	Ax2*	no	R-A1	R-B1	R-D1
A000063	2012	USSRWWN	28	AR01167-3-1	no	5+10	Ax1 or null	no	R-A1	r-B1 white	R-D1
A000064	2012	USSRWWN	29	AR01179-4-1	Bx7oe	5+10	Ax1 or null	no	R-A1	r-B1 white	R-D1