

**2011**

**Marker Reports for all Alleles**

**Eastern Regional Nurseries**

**Uniform Bread Wheat Trial**

**Eastern Regional Small Grains Genotyping Lab**

**Collaborator: Gina Brown-Guedira**

**USDA-ARS**

## Notes

"nd" = not determined or lack of amplification

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

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

All numbers are size in base pairs of amplified fragments

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

NT = marker Not Tested on those samples

Rht = dwarfing allele = yes

Ppd-D1a = photoperiod insensitive = yes

Texture for **pina\_taqman =AlleleX= yes=hard**

Texture for **pinb D1a-b\_taqman = AlleleY=D1a=soft; pinb D1a-d\_taqman=BothAlleles=D1a=soft**

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

**2011 Uniform Bread Wheat Trial**

<b>ID</b>	<b>Year</b>	<b>Nursery</b>	<b>Entry</b>	<b>Sample Name</b>	<b>Contributor</b>
A000950	2011	UBWT	1	NC Neuse	Marshall
A000951	2011	UBWT	2	Tribute	Marshall
A000952	2011	UBWT	3	USG 3120	Marshall
A000953	2011	UBWT	4	Appalachian White	Marshall
A000954	2011	UBWT	5	Culpeper	Marshall
A000955	2011	UBWT	6	Jagger	Marshall
A000956	2011	UBWT	7	NuEast	Marshall
A000957	2011	UBWT	8	TAM 303	Marshall
A000958	2011	UBWT	9	ARS04-1267	Marshall
A000959	2011	UBWT	10	ARS05-0241	Marshall
A000960	2011	UBWT	11	ARS05-0401	Marshall
A000961	2011	UBWT	12	ARS05-1044	Marshall
A000962	2011	UBWT	13	ARS07-0024	Marshall
A000963	2011	UBWT	14	ARS07-0785	Marshall
A000964	2011	UBWT	15	ARS07-0815	Marshall
A000965	2011	UBWT	16	ARS07-1181	Marshall
A000966	2011	UBWT	17	ARS07-1182	Marshall
A000967	2011	UBWT	18	ARS07-1214	Marshall
A000968	2011	UBWT	19	ARS07-1243	Marshall
A000969	2011	UBWT	20	ARS08-0032	Marshall
A000970	2011	UBWT	21	ARS08-0111	Marshall
A000971	2011	UBWT	22	ARS08-0114	Marshall
A000972	2011	UBWT	23	ARS08-0161	Marshall
A000973	2011	UBWT	24	ARS08-1059	Marshall
A000974	2011	UBWT	26	VA06HRW-43	Marshall
A000975	2011	UBWT	25	VA06HRW-3	Marshall
A000976	2011	UBWT	27	Vision 30	Marshall
A000977	2011	UBWT	28	VA07HRW-25	Marshall
A000978	2011	UBWT	29	Vision 40	Marshall
A000979	2011	UBWT	30	VA06HRW-108	Marshall
A000980	2011	UBWT	31	VA07HRW-45	Marshall
A000981	2011	UBWT	32	VA07HRW-93	Marshall
A000982	2011	UBWT	33	VA07HRW-97	Marshall
A000983	2011	UBWT	34	VA08HRW-12	Marshall
A000984	2011	UBWT	35	VA08HRW-80	Marshall
A000985	2011	UBWT	36	VA08HRW-98	Marshall
A000986	2011	UBWT	37	VA08HRW-103	Marshall
A000987	2011	UBWT	38	VA08HRW-104	Marshall
A000988	2011	UBWT	39	VA08HRW-100	Marshall
A000989	2011	UBWT	40	VA08HRW-109	Marshall
A000990	2011	UBWT	41	MD02W17-63565	Marshall

2011 Uniform Bread Wheat Trial					Dwarfing alleles			Photoperiod Insensitive	Vernalization
ID	Year	Nursery	Entry	Sample Name	Rht-B1b	Rht-D1b	Rht8c	Ppd-D1a	vrn-A1
A000950	2011	UBWT	1	NC Neuse	no	<b>Rht-D1b</b>	no	no	vrn-A1 long
A000951	2011	UBWT	2	Tribute	no	<b>Rht-D1b</b>	no	no	vrn-A1 long
A000952	2011	UBWT	3	USG 3120	no	<b>Rht-D1b</b>	<b>Rht8c</b>	no	vrn-A1 long
A000953	2011	UBWT	4	Appalachian White	<b>Rht-B1b</b>	no	no	no	vrn-A1 long
A000954	2011	UBWT	5	Culpeper	no	<b>Rht-D1b</b>	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000955	2011	UBWT	6	Jagger	<b>Rht-B1b</b>	no	no	no	<b>vrn-A1 short</b>
A000956	2011	UBWT	7	NuEast	<b>Rht-B1b</b>	no	no	nd	vrn-A1 long
A000957	2011	UBWT	8	TAM 303	<b>Rht-B1b</b>	no	no	nd	vrn-A1 long
A000958	2011	UBWT	9	ARS04-1267	<b>Rht-B1b</b>	no	no	no	<b>vrn-A1 short</b>
A000959	2011	UBWT	10	ARS05-0241	no	<b>Rht-D1b</b>	no	nd	<b>vrn-A1 short</b>
A000960	2011	UBWT	11	ARS05-0401	<b>Rht-B1b</b>	no	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000961	2011	UBWT	12	ARS05-1044	<b>Rht-B1b</b>	no	no	nd	vrn-A1 long
A000962	2011	UBWT	13	ARS07-0024	no	no	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000963	2011	UBWT	14	ARS07-0785	no	no	no	no	vrn-A1 long
A000964	2011	UBWT	15	ARS07-0815	<b>Rht-B1b</b>	no	no	<b>Ppd-D1a insens het</b>	vrn-A1 long
A000965	2011	UBWT	16	ARS07-1181	nd	nd	nd	nd	nd
A000966	2011	UBWT	17	ARS07-1182	no	<b>Rht-D1b</b>	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000967	2011	UBWT	18	ARS07-1214	<b>Rht-B1b</b>	nd	no	no	vrn-A1 long
A000968	2011	UBWT	19	ARS07-1243	<b>Rht-B1b</b>	no	no	nd	<b>vrn-A1 short</b>
A000969	2011	UBWT	20	ARS08-0032	no	<b>Rht-D1b</b>	no	<b>Ppd-D1a insens</b>	<b>vrn-A1 short</b>
A000970	2011	UBWT	21	ARS08-0111	no	no	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000971	2011	UBWT	22	ARS08-0114	<b>Rht-B1b</b>	no	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000972	2011	UBWT	23	ARS08-0161	no	<b>Rht-D1b</b>	no	<b>Ppd-D1a insens</b>	<b>vrn-A1 short</b>
A000973	2011	UBWT	24	ARS08-1059	<b>Rht-B1b</b>	no	nd	no	vrn-A1 long
A000974	2011	UBWT	26	VA06HRW-43	no	<b>Rht-D1b</b>	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000975	2011	UBWT	25	VA06HRW-3	<b>Rht-B1b</b>	no	no	no	vrn-A1 long
A000976	2011	UBWT	27	Vision 30	<b>Rht-B1b het</b>	<b>Rht-D1b het</b>	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000977	2011	UBWT	28	VA07HRW-25	no	<b>Rht-D1b</b>	no	no	vrn-A1 long
A000978	2011	UBWT	29	Vision 40	no	<b>Rht-D1b</b>	<b>Rht8c</b>	<b>Ppd-D1a insens</b>	vrn-A1 long
A000979	2011	UBWT	30	VA06HRW-108	no	<b>Rht-D1b</b>	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000980	2011	UBWT	31	VA07HRW-45	no	no	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000981	2011	UBWT	32	VA07HRW-93	<b>Rht-B1b</b>	no	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000982	2011	UBWT	33	VA07HRW-97	no	<b>Rht-D1b</b>	<b>Rht8c</b>	<b>Ppd-D1a insens</b>	vrn-A1 long
A000983	2011	UBWT	34	VA08HRW-12	no	<b>Rht-D1b</b>	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000984	2011	UBWT	35	VA08HRW-80	<b>Rht-B1b</b>	no	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000985	2011	UBWT	36	VA08HRW-98	<b>Rht-B1b het</b>	no	no	<b>Ppd-D1a insens</b>	vrn-A1 long
A000986	2011	UBWT	37	VA08HRW-103	no	no	no	<b>Ppd-D1a insens</b>	<b>vrn-A1 short</b>
A000987	2011	UBWT	38	VA08HRW-104	no	no	no	<b>Ppd-D1a insens</b>	<b>vrn-A1 short</b>
A000988	2011	UBWT	39	VA08HRW-100	<b>Rht-B1b het</b>	no	no	<b>Ppd-D1a insens</b>	<b>vrn-A1 short</b>
A000989	2011	UBWT	40	VA08HRW-109	no	<b>Rht-D1b</b>	<b>Rht8c</b>	<b>Ppd-D1a insens</b>	vrn-A1 long
A000990	2011	UBWT	41	MD02W17-63565	no	no	no	<b>Ppd-D1a insens</b>	vrn-A1 long

2011 Uniform Bread Wheat Trial					Fusarium Head Blight alleles			
ID	Year	Nursery	Entry	Sample Name	Fhb1	Fhb 2DL-Wuhan1/W14	Fhb 5A Ernie	Fhb 5A Ning7840
A000950	2011	UBWT	1	NC Neuse	no	no	<b>Fhb 5A Ernie</b>	<i>no</i>
A000951	2011	UBWT	2	Tribute	no	no	no	<i>no</i>
A000952	2011	UBWT	3	USG 3120	no	no	no	<i>no</i>
A000953	2011	UBWT	4	Appalachian White	no	<b>Fhb 2DL-Wuhan1/W14 het?</b>	no	<i>no</i>
A000954	2011	UBWT	5	Culpeper	no	no	no	<i>no</i>
A000955	2011	UBWT	6	Jagger	no	no	no	<i>no</i>
A000956	2011	UBWT	7	NuEast	no	no	no	<i>no</i>
A000957	2011	UBWT	8	TAM 303	no	no	no	<i>no</i>
A000958	2011	UBWT	9	ARS04-1267	no	no	no	<i>no</i>
A000959	2011	UBWT	10	ARS05-0241	no	no	no	<i>no</i>
A000960	2011	UBWT	11	ARS05-0401	no	no	<b>Fhb 5A Ernie</b>	<i>no</i>
A000961	2011	UBWT	12	ARS05-1044	no	no	no	<i>no</i>
A000962	2011	UBWT	13	ARS07-0024	no	no	no	<i>no</i>
A000963	2011	UBWT	14	ARS07-0785	no	no	no	<i>no</i>
A000964	2011	UBWT	15	ARS07-0815	no	no	no	<i>no</i>
A000965	2011	UBWT	16	ARS07-1181	nd	nd	nd	<i>nd</i>
A000966	2011	UBWT	17	ARS07-1182	no	no	<b>Fhb 5A Ernie het</b>	<i>no</i>
A000967	2011	UBWT	18	ARS07-1214	no	no	no	<i>no</i>
A000968	2011	UBWT	19	ARS07-1243	no	no	no	<i>no</i>
A000969	2011	UBWT	20	ARS08-0032	no	no	<b>Fhb 5A Ernie</b>	<i>no</i>
A000970	2011	UBWT	21	ARS08-0111	no	no	nd	<i>nd</i>
A000971	2011	UBWT	22	ARS08-0114	no	no	no	<i>no</i>
A000972	2011	UBWT	23	ARS08-0161	no	no	no	<i>no</i>
A000973	2011	UBWT	24	ARS08-1059	no	no	no	<i>no</i>
A000974	2011	UBWT	26	VA06HRW-43	no	no	no	<i>no</i>
A000975	2011	UBWT	25	VA06HRW-3	no	no	<b>Fhb 5A Ernie</b>	<i>no</i>
A000976	2011	UBWT	27	Vision 30	no	no	no	<i>no</i>
A000977	2011	UBWT	28	VA07HRW-25	no	no	no	<i>no</i>
A000978	2011	UBWT	29	Vision 40	no	no	no	<i>no</i>
A000979	2011	UBWT	30	VA06HRW-108	no	no	no	<i>no</i>
A000980	2011	UBWT	31	VA07HRW-45	no	no	no	<i>no</i>
A000981	2011	UBWT	32	VA07HRW-93	no	no	no	<i>no</i>
A000982	2011	UBWT	33	VA07HRW-97	no	no	<b>Fhb 5A Ernie het</b>	<i>no</i>
A000983	2011	UBWT	34	VA08HRW-12	no	no	no	<i>no</i>
A000984	2011	UBWT	35	VA08HRW-80	no	no	no	<i>no</i>
A000985	2011	UBWT	36	VA08HRW-98	no	no	no	<i>no</i>
A000986	2011	UBWT	37	VA08HRW-103	no	no	no	<i>no</i>
A000987	2011	UBWT	38	VA08HRW-104	no	no	<b>Fhb 5A Ernie het</b>	<i>no</i>
A000988	2011	UBWT	39	VA08HRW-100	no	no	no	<i>no</i>
A000989	2011	UBWT	40	VA08HRW-109	no	no	no	<i>no</i>
A000990	2011	UBWT	41	MD02W17-63565	no	no	no	<i>no</i>



2011 Uniform Bread Wheat Trial					Rye translocations	Hessian Fly alleles				BYDV	Glutenin alleles			Hardness
ID	Year	Nursery	Entry	Sample Name	1RS	H13	H9	H25	H26	Bdv2/3	Glu-B1	Glu-D1	Glu-A1	Texture
A000950	2011	UBWT	1	NC Neuse	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null	soft
A000951	2011	UBWT	2	Tribute	1RS:1AL	no	nd	no	no	no	no	5+10	Ax2*	soft
A000952	2011	UBWT	3	USG 3120	1RS:1BL	no	no	no	no	no	no	5+10	Ax2*	soft
A000953	2011	UBWT	4	Appalachian White	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null	hard
A000954	2011	UBWT	5	Culpeper	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null	hard
A000955	2011	UBWT	6	Jagger	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null	hard
A000956	2011	UBWT	7	NuEast	1RS:1AL	no	no	no	H26?	no	no	2+12	Ax2*	hard
A000957	2011	UBWT	8	TAM 303	1RS:1AL	no	nd	no	no	no	no	het	Ax2*	hard
A000958	2011	UBWT	9	ARS04-1267	1RS:1AL	no	nd	no	no	no	no	5+10	Ax2*	hard
A000959	2011	UBWT	10	ARS05-0241	1RS:1AL	no	no	no	no	no	no	2+12	Ax2*	hard
A000960	2011	UBWT	11	ARS05-0401	non-1RS	no	no	no	H26?	no	no	2+12	Ax1 or null	hard
A000961	2011	UBWT	12	ARS05-1044	1RS:1AL	no	no	no	no	no	no	2+12	Ax2*	hard
A000962	2011	UBWT	13	ARS07-0024	non-1RS	no	no	no	no	no	no	5+10	Ax2*	hard
A000963	2011	UBWT	14	ARS07-0785	non-1RS	H13	no	no	no	no	no	5+10	Ax1 or null	hard
A000964	2011	UBWT	15	ARS07-0815	non-1RS	H13	no	no	no	no	no	5+10	het	hard
A000965	2011	UBWT	16	ARS07-1181	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A000966	2011	UBWT	17	ARS07-1182	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null	hard
A000967	2011	UBWT	18	ARS07-1214	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null	hard
A000968	2011	UBWT	19	ARS07-1243	1RS:1AL	no	nd	no	no	no	no	2+12	Ax2*	hard
A000969	2011	UBWT	20	ARS08-0032	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null	hard
A000970	2011	UBWT	21	ARS08-0111	non-1RS	no	no	no	no	no	no	5+10	Ax2*	hard
A000971	2011	UBWT	22	ARS08-0114	1RS:1AL	no	no	no	no	no	no	2+12	Ax2*	hard
A000972	2011	UBWT	23	ARS08-0161	non-1RS	no	no	no	no	no	no	5+10	Ax2*	hard
A000973	2011	UBWT	24	ARS08-1059	1RS:1BL	no	no	no	H26?	no	no	2+12	Ax1 or null	hard
A000974	2011	UBWT	26	VA06HRW-43	non-1RS	no	no	no	no	no	no	5+10	Ax2*	hard
A000975	2011	UBWT	25	VA06HRW-3	non-1RS	no	no	no	no	no	no	5+10	Ax1 or null	hard
A000976	2011	UBWT	27	Vision 30	non-1RS	no	no	no	no	no	no	5+10	Ax2*	hard
A000977	2011	UBWT	28	VA07HRW-25	non-1RS	no	no	no	no	no	no	5+10	Ax2*	hard
A000978	2011	UBWT	29	Vision 40	non-1RS	no	no	no	no	no	no	2+12	Ax2*	hard
A000979	2011	UBWT	30	VA06HRW-108	non-1RS	no	no	no	no	no	no	2+12	Ax2*	hard
A000980	2011	UBWT	31	VA07HRW-45	non-1RS	no	no	no	no	no	no	2+12	Ax2*	hard
A000981	2011	UBWT	32	VA07HRW-93	non-1RS	no	no	no	no	no	no	5+10	het	hard
A000982	2011	UBWT	33	VA07HRW-97	non-1RS	no	no	no	no	nd	no	2+12	Ax2*	hard
A000983	2011	UBWT	34	VA08HRW-12	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null	hard
A000984	2011	UBWT	35	VA08HRW-80	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null	hard
A000985	2011	UBWT	36	VA08HRW-98	non-1RS	no	no	no	no	no	no	2+12	het	hard
A000986	2011	UBWT	37	VA08HRW-103	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null	hard
A000987	2011	UBWT	38	VA08HRW-104	non-1RS	no	no	no	no	no	no	2+12	het	hard
A000988	2011	UBWT	39	VA08HRW-100	non-1RS	no	no	no	no	no	no	2+12	Ax1 or null	hard
A000989	2011	UBWT	40	VA08HRW-109	non-1RS	no	no	no	no	no	no	2+12	Ax2*	hard
A000990	2011	UBWT	41	MD02W17-63565	non-1RS	no	no	no	no	no	no	5+10	Ax2*	soft