

2008

Uniform Eastern Soft White Winter Wheat Nursery

Marker Report

Eastern Regional Small Grains Genotyping Lab

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USDA-ARS

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2008

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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*

RhtW = wild type; RhtM = dwarfing

Ppd-D1a = photoperiod insensitive = yes

2008 Uniform Eastern Soft White Winter Wheat Nursery
Entry List

Nursery	Entry	Sample Name	Pedigree	Source
UESWWWN	1	Augusta		MSU
UESWWWN	2	Superior	TWC839-3/Harus	Hyland
UESWWWN	3	CaledoniaResel-L	Reeselection out of Caledonia	Cornell
UESWWWN	4	Ny88046-8138Jensen	MD286-21/Harus	Cornell
UESWWWN	5	Pearl		Va Tech
UESWWWN	6	Cayuga	Sprout Check - Clark'sCream /Geneva/Geneva	Cornell
UESWWWN	7	NY88046-7088	Susquehanna/Harus	Cornell
UESWWWN	8	NY92039-9065	88068(84061(Geneva/F29-76)//6897-2)/Houser	Cornell
UESWWWN	9	MSULineE2017		MSU
UESWWWN	10	MSULineE2043		MSU
UESWWWN	11	MSULineE5011		MSU
UESWWWN	12	MSULineE5017		MSU
UESWWWN	13	MSULineE5024		MSU
UESWWWN	14	MSULineE5028		MSU
UESWWWN	15	NY93285-7110	SuMei Composite	Cornell
UESWWWN	16	Cal4PHS-10	Caledonia/Cayuga//Caledonia 4-10 (BC1F4select)	Cornell
UESWWWN	17	Cal4PHS-6	Caledonia/Cayuga//Caledonia 4-6 (BC1F4select)	Cornell
UESWWWN	18	NY03179FHB-10	NY7387/Caledonia//Caledonia-2///Caledonia 7-10 (BC2F4select)	Cornell
UESWWWN	19	NY03179FHB-12	NY7387/Caledonia//Caledonia-2///Caledonia 7-12 (BC2F4select)	Cornell
UESWWWN	20	NY03180FHB-10	NY7387/Caledonia//Caledonia-2///Caledonia 9-10 (BC2F4select)	Cornell
UESWWWN	21	VA06W-529WS	PION25W33 / PEARL // VA97W-361WS (CK9803/FREEDOM) / PION25W60	Va Tech
UESWWWN	22	W412-033	TW006-007/TW044-094	Hyland
UESWWWN	23	W433-053	TW060-075/TW044-094	Hyland
UESWWWN	24	W435-025	TW060-075/D8006	Hyland
UESWWWN	25	W436-024	TW060-075/VA97W-469	Hyland

2008 Uniform Eastern Soft White Winter Wheat Nursery
Summary of all Markers

Nursery	Entry	Sample Name	Rht		Ppd-D1a	Fhb Ernie		Fhb 2DL- Wuhan1/W14	Fhb 5A Ernie	Fhb 5A <i>Ning7840</i>
			Rht1-B1b	Rht2-D1b		Fhb1	3Bc			
UESWWWN	1	Augusta	no	yes	no	no	no	no	no	<i>no</i>
UESWWWN	2	Superior	no	yes	no	no	no	no	no	<i>no</i>
UESWWWN	3	CaledoniaResel-L	no	yes	yes	no	no	no	no	<i>no</i>
UESWWWN	4	Ny88046-8138Jensen	no	yes	no	no	no	no	no	<i>no</i>
UESWWWN	5	Pearl	no	yes	no	no	no	no	no	<i>no</i>
UESWWWN	6	Cayuga	no	no	no	no	no	no	no	<i>no</i>
UESWWWN	7	NY88046-7088	no	het	no	no	no	no	no	<i>no</i>
UESWWWN	8	NY92039-9065	nd	nd	nd	nd	nd	nd	nd	<i>nd</i>
UESWWWN	9	MSULineE2017	no	het	no	no	no	no	no	<i>no</i>
UESWWWN	10	MSULineE2043	no	yes	no	no	no	no	no	<i>no</i>
UESWWWN	11	MSULineE5011	nd	yes	het	no	no	no	no	<i>no</i>
UESWWWN	12	MSULineE5017	nd	yes	yes	no	no	no	no	<i>no</i>
UESWWWN	13	MSULineE5024	no	yes	yes	no	no	no	yes	<i>no</i>
UESWWWN	14	MSULineE5028	no	yes	yes	no	no	no	yes	<i>no</i>
UESWWWN	15	NY93285-7110	no	het	no	no	no	no	no	<i>no</i>
UESWWWN	16	Cal4PHS-10	no	yes	het	no	no	no	no	<i>no</i>
UESWWWN	17	Cal4PHS-6	no	het	het	no	no	no	yes	<i>no</i>
UESWWWN	18	NY03179FHB-10	no	het	het	het	no	no	no	<i>no</i>
UESWWWN	19	NY03179FHB-12	no	het	no	yes	no	no	no	<i>no</i>
UESWWWN	20	NY03180FHB-10	no	yes	no	yes	no	no	no	<i>no</i>
UESWWWN	21	VA06W-529WS	no	yes	no	no	no	no	no	<i>no</i>
UESWWWN	22	W412-033	no	yes	no	no	no	no	no	<i>no</i>
UESWWWN	23	W433-053	no	yes	no	no	no	no	no	<i>no</i>
UESWWWN	24	W435-025	no	yes	yes	no	no	no	no	<i>no</i>
UESWWWN	25	W436-024	no	yes	no	no	no	no	yes	<i>no</i>

RhtW = wild type; RhtM = dwarfing Ppd-D1a = photoperiod insensitive = yes

"nd"= not determined or lack of amplification.

If marker is dominant, samples with no amplification are left blank.

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2008 Uniform Eastern Soft White Winter Wheat Nursery

Summary of all Markers

Nursery	Entry	Sample Name	Sr36	Sr24/Lr24	Yr17/Lr37/Sr38	Lr34/Yr18/Pm38	Lr46/Yr29
UESWWWN	1	Augusta	no	no	no	no	Yes?
UESWWWN	2	Superior	no	no	no	no	no
UESWWWN	3	CaledoniaResel-L	no	no	no	no	Yes?
UESWWWN	4	Ny88046-8138Jensen	no	no	no	no	no
UESWWWN	5	Pearl	no	no	no	no	no
UESWWWN	6	Cayuga	no	no	no	no	Yes?
UESWWWN	7	NY88046-7088	no	no	no	no	no
UESWWWN	8	NY92039-9065	nd	nd	nd	nd	nd
UESWWWN	9	MSULineE2017	no	no	no	no	Yes?
UESWWWN	10	MSULineE2043	no	no	no	no	no
UESWWWN	11	MSULineE5011	no	no	no	no	Yes?
UESWWWN	12	MSULineE5017	no	no	no	no	no
UESWWWN	13	MSULineE5024	no	no	no	no	Yes?
UESWWWN	14	MSULineE5028	no	no	no	no	no
UESWWWN	15	NY93285-7110	no	no	no	no	no
UESWWWN	16	Cal4PHS-10	no	no	no	no	Yes?
UESWWWN	17	Cal4PHS-6	no	no	no	het	Yes?
UESWWWN	18	NY03179FHB-10	no	yes	no	no	Yes?
UESWWWN	19	NY03179FHB-12	no	no	no	no	Yes?
UESWWWN	20	NY03180FHB-10	no	no	no	no	Yes?
UESWWWN	21	VA06W-529WS	no	no	no	no	no
UESWWWN	22	W412-033	no	no	no	no	no
UESWWWN	23	W433-053	no	no	no	no	no
UESWWWN	24	W435-025	no	no	no	no	no
UESWWWN	25	W436-024	yes	yes	no	no	no

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Summary of all Markers

Nursery	Entry	Sample Name	1RS	H13	H9	Bdv2/3	Bx7 over-expressing
UESWWWN	1	Augusta	non-1RS	no	no	no	no
UESWWWN	2	Superior	non-1RS	no	no	no	no
UESWWWN	3	CaledoniaResel-L	non-1RS	no	no	no	no
UESWWWN	4	Ny88046-8138Jensen	non-1RS	no	no	no	no
UESWWWN	5	Pearl	non-1RS	no	no	no	no
UESWWWN	6	Cayuga	non-1RS	no	no	no	no
UESWWWN	7	NY88046-7088	non-1RS	no	no	no	no
UESWWWN	8	NY92039-9065	nd	nd	nd	nd	nd
UESWWWN	9	MSULineE2017	non-1RS	no	no	no	no
UESWWWN	10	MSULineE2043	non-1RS	no	no	no	no
UESWWWN	11	MSULineE5011	non-1RS	no	no	no	no
UESWWWN	12	MSULineE5017	1RS:1BL	no	no	no	no
UESWWWN	13	MSULineE5024	1RS:1BL	no	no	no	no
UESWWWN	14	MSULineE5028	1RS:1BL	no	no	no	no
UESWWWN	15	NY93285-7110	non-1RS	no	no	no	no
UESWWWN	16	Cal4PHS-10	non-1RS	no	no	no	nd
UESWWWN	17	Cal4PHS-6	non-1RS	no	no	no	no
UESWWWN	18	NY03179FHB-10	non-1RS	no	no	no	no
UESWWWN	19	NY03179FHB-12	non-1RS	no	no	no	no
UESWWWN	20	NY03180FHB-10	non-1RS	no	no	no	no
UESWWWN	21	VA06W-529WS	non-1RS	no	no	no	no
UESWWWN	22	W412-033	non-1RS	no	no	no	no
UESWWWN	23	W433-053	non-1RS	no	no	no	no
UESWWWN	24	W435-025	non-1RS	no	no	no	no
UESWWWN	25	W436-024	non-1RS	no	no	no	no

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Dwarfing genes & Photoperiod insensitivity

2008

Nursery	Entry	Sample Name	Rht1W	Rht1M	Rht2W	Rht2M	Rht1-B1b	Rht2-D1b	Ppd1	Ppd1	Ppd-D1a
UESWWWN	1	Augusta	358			251	no	yes		414	no
UESWWWN	2	Superior	358			251	no	yes		414	no
UESWWWN	3	CaledoniaResel-L	358			251	no	yes	288		yes
UESWWWN	4	Ny88046-8138Jensen	358			251	no	yes		414	no
UESWWWN	5	Pearl	358			251	no	yes		414	no
UESWWWN	6	Cayuga	358		249		no	no		414	no
UESWWWN	7	NY88046-7088	358		249	251	no	het		414	no
UESWWWN	8	NY92039-9065	nd	nd	nd	nd	nd	nd	nd		nd
UESWWWN	9	MSULineE2017	358		249	251	no	het		414	no
UESWWWN	10	MSULineE2043	358			251	no	yes		414	no
UESWWWN	11	MSULineE5011	nd	nd		251	nd	yes	288	414	het
UESWWWN	12	MSULineE5017	nd	nd		251	nd	yes	288		yes
UESWWWN	13	MSULineE5024	358			251	no	yes	288		yes
UESWWWN	14	MSULineE5028	358			251	no	yes	288		yes
UESWWWN	15	NY93285-7110	358		249	251	no	het		414	no
UESWWWN	16	Cal4PHS-10	358			251	no	yes	288	414	het
UESWWWN	17	Cal4PHS-6	358		249	251	no	het	288	414	het
UESWWWN	18	NY03179FHB-10	358		249	251	no	het	288	414	het
UESWWWN	19	NY03179FHB-12	358		249	251	no	het		414	no
UESWWWN	20	NY03180FHB-10	358			251	no	yes		414	no
UESWWWN	21	VA06W-529WS	358			251	no	yes		414	no
UESWWWN	22	W412-033	358			251	no	yes		414	no
UESWWWN	23	W433-053	358			251	no	yes		414	no
UESWWWN	24	W435-025	358		249	251	no	yes	288		yes
UESWWWN	25	W436-024	358			251	no	yes		414	no

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FHB QTLs

2008

Nursery	Entry	Sample Name	umn 10	umn 10	Fhb1	gwm 285	gwm 285	wmc 612	wmc 612	wmc 307	wmc 307	Fhb Ernie 3Bc
UESWWWN	1	Augusta	236		no	219		279		144		no
UESWWWN	2	Superior	236		no	216	220	268	282	142	144	no
UESWWWN	3	CaledoniaResel-L	236		no	219		268		142		no
UESWWWN	4	Ny88046-8138Jensen	236		no	219		282		142		no
UESWWWN	5	Pearl	236		no	226		291		144		no
UESWWWN	6	Cayuga	236		no	219		276		144		no
UESWWWN	7	NY88046-7088	236		no	219		279		144		no
UESWWWN	8	NY92039-9065	nd		nd	nd		nd		nd		nd
UESWWWN	9	MSULineE2017	236		no	216		268		142		no
UESWWWN	10	MSULineE2043	236		no	216		268		142		no
UESWWWN	11	MSULineE5011	236		no	216		282		142		no
UESWWWN	12	MSULineE5017	236		no	226		291		144		no
UESWWWN	13	MSULineE5024	236		no	220		274		144		no
UESWWWN	14	MSULineE5028	236		no	226		nd		144		no
UESWWWN	15	NY93285-7110	236		no	216		268		142		no
UESWWWN	16	Cal4PHS-10	236		no	216		268		142		no
UESWWWN	17	Cal4PHS-6	236		no	216	226	268	291	144		no
UESWWWN	18	NY03179FHB-10	236	239	het	243		264		142		no
UESWWWN	19	NY03179FHB-12	239		yes	216		nd		142		no
UESWWWN	20	NY03180FHB-10	239		yes	216		264		142		no
UESWWWN	21	VA06W-529WS	236		no	226		291		144		no
UESWWWN	22	W412-033	228		no	219		279		144		no
UESWWWN	23	W433-053	228		no	219		268		144		no
UESWWWN	24	W435-025	236		no	216	226	268	291	144		no
UESWWWN	25	W436-024	236		no	219		268		144		no

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FHB QTLs

2008

Nursery	Entry	Sample Name	cf 233	cf 233	gw 539	gw 539	gw 608	gw 608	Fhb 2DL- Wuhan1/W14
UESWWWN	1	Augusta	274	278	141		150	154	no
UESWWWN	2	Superior	274	278	141		150	154	no
UESWWWN	3	CaledoniaResel-L	274		139		154		no
UESWWWN	4	Ny88046-8138Jensen	282		141		152		no
UESWWWN	5	Pearl	290		137		152		no
UESWWWN	6	Cayuga	288		141	146	152		no
UESWWWN	7	NY88046-7088	282		141		152		no
UESWWWN	8	NY92039-9065	nd		nd		nd		nd
UESWWWN	9	MSULineE2017	270	282	137		150		no
UESWWWN	10	MSULineE2043	270		133		156		no
UESWWWN	11	MSULineE5011	288		139		152		no
UESWWWN	12	MSULineE5017	274		133		154		no
UESWWWN	13	MSULineE5024	272		133		154	156	no
UESWWWN	14	MSULineE5028	274		141		154		no
UESWWWN	15	NY93285-7110	278		141		152		no
UESWWWN	16	Cal4PHS-10	274		139		154		no
UESWWWN	17	Cal4PHS-6	274	276	139		154		no
UESWWWN	18	NY03179FHB-10	274		139		154		no
UESWWWN	19	NY03179FHB-12	274		139		154		no
UESWWWN	20	NY03180FHB-10	274		139		154		no
UESWWWN	21	VA06W-529WS	290		137		152		no
UESWWWN	22	W412-033	278		163		150		no
UESWWWN	23	W433-053	278		141		150		no
UESWWWN	24	W435-025	272		133		156		no
UESWWWN	25	W436-024	278		141		150		no

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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	barc 186	Fhb Ernie 5A	Fhb 5A Ning7840
UESWWWN	1	Augusta	201	203	133		217		203		no	<i>no</i>
UESWWWN	2	Superior	201		133		217		203		no	<i>no</i>
UESWWWN	3	CaledoniaResel-L	201		135		217		203		no	<i>no</i>
UESWWWN	4	Ny88046-8138Jensen	201		133		217		203		no	<i>no</i>
UESWWWN	5	Pearl	199		162		217		203		no	<i>no</i>
UESWWWN	6	Cayuga	201		133		217		203		no	<i>no</i>
UESWWWN	7	NY88046-7088	201		133		217		203		no	<i>no</i>
UESWWWN	8	NY92039-9065	nd		nd		nd		nd		nd	<i>nd</i>
UESWWWN	9	MSULineE2017	201		133		217		203		no	<i>no</i>
UESWWWN	10	MSULineE2043	201		133		217		203		no	<i>no</i>
UESWWWN	11	MSULineE5011	197		158		217		203		no	<i>no</i>
UESWWWN	12	MSULineE5017	201		133		217		203		no	<i>no</i>
UESWWWN	13	MSULineE5024	220		135		<i>221</i>		203		yes	<i>no</i>
UESWWWN	14	MSULineE5028	220		135		<i>221</i>		203		yes	<i>no</i>
UESWWWN	15	NY93285-7110	201		133		217		203		no	<i>no</i>
UESWWWN	16	Cal4PHS-10	201		133		217		203		no	<i>no</i>
UESWWWN	17	Cal4PHS-6	201	220	133	135	217	<i>221</i>	203		yes	<i>no</i>
UESWWWN	18	NY03179FHB-10	201		135		217		203		no	<i>no</i>
UESWWWN	19	NY03179FHB-12	201		135		217		203		no	<i>no</i>
UESWWWN	20	NY03180FHB-10	201		135		217		203		no	<i>no</i>
UESWWWN	21	VA06W-529WS	199	223	135	162	217	<i>221</i>	203		no	<i>no</i>
UESWWWN	22	W412-033	215		133		225		<i>213</i>		no	<i>no</i>
UESWWWN	23	W433-053	201		133		217		203		no	<i>no</i>
UESWWWN	24	W435-025	201		133		217	225	203	<i>213</i>	no	<i>no</i>
UESWWWN	25	W436-024	220		135		<i>221</i>		203		yes	<i>no</i>

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Leaf, Stripe & Stem Rusts

2008

Nursery	Entry	Sample Name	wmc 477	wmc 477	Sr36	barc 71	barc 71	Sr24/Lr24	ventriup	Yr17/Lr37/Sr38
UESWWWN	1	Augusta	162		no	105	113	no	null	no
UESWWWN	2	Superior	167		no	105		no	null	no
UESWWWN	3	CaledoniaResel-L	162	167	no	105		no	null	no
UESWWWN	4	Ny88046-8138Jensen	169		no	105		no	null	no
UESWWWN	5	Pearl	167		no	113		no	null	no
UESWWWN	6	Cayuga	169		no	105		no	null	no
UESWWWN	7	NY88046-7088	162		no	105		no	null	no
UESWWWN	8	NY92039-9065	nd		nd	nd		nd	nd	nd
UESWWWN	9	MSULineE2017	162		no	105		no	null	no
UESWWWN	10	MSULineE2043	162		no	105		no	null	no
UESWWWN	11	MSULineE5011	162	167	no	105		no	null	no
UESWWWN	12	MSULineE5017	162		no	105		no	null	no
UESWWWN	13	MSULineE5024	169		no	105		no	null	no
UESWWWN	14	MSULineE5028	169		no	105		no	null	no
UESWWWN	15	NY93285-7110	169		no	105		no	null	no
UESWWWN	16	Cal4PHS-10	169		no	105		no	null	no
UESWWWN	17	Cal4PHS-6	162	169	no	105		no	null	no
UESWWWN	18	NY03179FHB-10	169		no	88	105	yes	null	no
UESWWWN	19	NY03179FHB-12	169		no	105		no	null	no
UESWWWN	20	NY03180FHB-10	162		no	105		no	null	no
UESWWWN	21	VA06W-529WS	169		no	105		no	null	no
UESWWWN	22	W412-033	162		no	105		no	null	no
UESWWWN	23	W433-053	167		no	105		no	null	no
UESWWWN	24	W435-025	167		no	105		no	null	no
UESWWWN	25	W436-024	186		yes	88	105	yes	null	no

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Leaf, Stripe & Stem Rusts

2008

Nursery	Entry	Sample Name	cslv 34	cslv 34	Lr34/Yr18/Pm38	Lr46 Biotin C	wmc 44	wmc 44	Lr46/Yr29
UESWWWN	1	Augusta	235		no	G	208		Yes?
UESWWWN	2	Superior	235		no	C	208	260	no
UESWWWN	3	CaledoniaResel-L	235		no	G	208		Yes?
UESWWWN	4	Ny88046-8138Jensen	235		no	C	256		no
UESWWWN	5	Pearl	235		no	G	258		no
UESWWWN	6	Cayuga	235		no	G	208		Yes?
UESWWWN	7	NY88046-7088	235		no	C	256		no
UESWWWN	8	NY92039-9065	nd		nd	nd	nd		nd
UESWWWN	9	MSULineE2017	235		no	G	208		Yes?
UESWWWN	10	MSULineE2043	235		no	C	265		no
UESWWWN	11	MSULineE5011	235		no	G	208		Yes?
UESWWWN	12	MSULineE5017	235		no	C	208		no
UESWWWN	13	MSULineE5024	235		no	G	208		Yes?
UESWWWN	14	MSULineE5028	235		no	C	260		no
UESWWWN	15	NY93285-7110	235		no	G	233	260	no
UESWWWN	16	Cal4PHS-10	235		no	G	208		Yes?
UESWWWN	17	Cal4PHS-6	155	235	het	G	208		Yes?
UESWWWN	18	NY03179FHB-10	235		no	G	208		Yes?
UESWWWN	19	NY03179FHB-12	235		no	G	208		Yes?
UESWWWN	20	NY03180FHB-10	235		no	G	208		Yes?
UESWWWN	21	VA06W-529WS	235		no	C	263		no
UESWWWN	22	W412-033	235		no	C	260		no
UESWWWN	23	W433-053	235		no	C	260		no
UESWWWN	24	W435-025	235		no	C	208		no
UESWWWN	25	W436-024	235		no	C	258		no

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"?" 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**

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

2008

Nursery	Entry	Sample Name	scm9	1RS	cf132	H13	cfa2153	cfa2153	H9	Bdv3	Bdv2/3
UESWWWN	1	Augusta		non-1RS	116	no	179	204	no	185	no
UESWWWN	2	Superior		non-1RS	116	no	196	204	no	185	no
UESWWWN	3	CaledoniaResel-L		non-1RS	116	no	192	196	no	185	no
UESWWWN	4	Ny88046-8138Jensen		non-1RS	116	no	179		no	185	no
UESWWWN	5	Pearl		non-1RS	116	no	204		no	185	no
UESWWWN	6	Cayuga		non-1RS	116	no	196		no	185	no
UESWWWN	7	NY88046-7088		non-1RS	116	no	179		no	185	no
UESWWWN	8	NY92039-9065	nd	nd	nd	nd	nd		nd	nd	nd
UESWWWN	9	MSULineE2017		non-1RS	116	no	192		no	185	no
UESWWWN	10	MSULineE2043		non-1RS	116	no	192		no	185	no
UESWWWN	11	MSULineE5011		non-1RS	116	no	204	221	no	185	no
UESWWWN	12	MSULineE5017	208	1RS:1BL	116	no	213		no	185	no
UESWWWN	13	MSULineE5024	208	1RS:1BL	116	no	204		no	185	no
UESWWWN	14	MSULineE5028	208	1RS:1BL	116	no	192		no	185	no
UESWWWN	15	NY93285-7110		non-1RS	116	no	194	197	no	185	no
UESWWWN	16	Cal4PHS-10		non-1RS	116	no	196		no	185	no
UESWWWN	17	Cal4PHS-6		non-1RS	116	no	196	206	no	185	no
UESWWWN	18	NY03179FHB-10		non-1RS	116	no	196	204	no	185	no
UESWWWN	19	NY03179FHB-12		non-1RS	116	no	196	204	no	185	no
UESWWWN	20	NY03180FHB-10		non-1RS	116	no	204		no	185	no
UESWWWN	21	VA06W-529WS		non-1RS	116	no	208		no	185	no
UESWWWN	22	W412-033		non-1RS	116	no	179		no	185	no
UESWWWN	23	W433-053		non-1RS	116	no	179		no	185	no
UESWWWN	24	W435-025		non-1RS	116	no	192	200	no	185	no
UESWWWN	25	W436-024		non-1RS	116	no	208		no	185	no

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

Quality Traits

2008

Nursery	Entry	Sample Name	bx7oe	Bx7 over-expressing
UESWWWN	1	Augusta	404	no
UESWWWN	2	Superior	404	no
UESWWWN	3	CaledoniaResel-L	404	no
UESWWWN	4	Ny88046-8138Jensen	404	no
UESWWWN	5	Pearl	404	no
UESWWWN	6	Cayuga	404	no
UESWWWN	7	NY88046-7088	404	no
UESWWWN	8	NY92039-9065	nd	nd
UESWWWN	9	MSULineE2017	404	no
UESWWWN	10	MSULineE2043	404	no
UESWWWN	11	MSULineE5011	404	no
UESWWWN	12	MSULineE5017	404	no
UESWWWN	13	MSULineE5024	404	no
UESWWWN	14	MSULineE5028	404	no
UESWWWN	15	NY93285-7110	404	no
UESWWWN	16	Cal4PHS-10	nd	nd
UESWWWN	17	Cal4PHS-6	404	no
UESWWWN	18	NY03179FHB-10	404	no
UESWWWN	19	NY03179FHB-12	404	no
UESWWWN	20	NY03180FHB-10	404	no
UESWWWN	21	VA06W-529WS	404	no
UESWWWN	22	W412-033	404	no
UESWWWN	23	W433-053	404	no
UESWWWN	24	W435-025	404	no
UESWWWN	25	W436-024	404	no

"nd"= not determined or lack of amplification.

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