

**Memorandum**

To: Wheat Variety Release and Recommendation Committee

From: Dr. Luther Talbert and Susan Lanning

Date: January 5, 2011

**Motions**

- 1) **A MOTION TO REMOVE WESTBRED 926 FROM THE MONTANA RECOMMENDED HARD RED SPRING WHEAT VARIETY LIST (EFFECTIVE FEBRUARY 2011)**  
There is less than 1% acreage of WestBred 926 being grown in Montana and there are more improved varieties available to grow instead.
  
- 2) **A MOTION TO RELEASE MT 0832 HARD RED SPRING WHEAT (EFFECTIVE 2011)**

We propose MT 0832 be released with PVP title V protection.

MT 0832 was derived from the cross of Choteau//ND695/MT9433 made in 2004. ND695 and MT9433 were released in 1999 as “Reeder” and “Scholar” by North Dakota and Montana, respectively. Selection in early generations of development of MT 0832 was for solid stems, long grain fill duration, increased height and threshability relative to Choteau.

MT 0832 is an awned semidwarf hard red spring wheat heading one and two days earlier while growing one inch taller and one inch shorter than Choteau and Vida, respectively. Mt 0832 has solid stems generally more solid than Fortuna but slightly less than Choteau.

Over the last two years (2009-2010) in the Advanced Spring Wheat nursery MT 0832 has yielded competitively across 16 locations. MT 0832 averaged 66 bu/ac compared to 65, 66 and 68 bu/ac for Choteau, Reeder and Vida, respectively. Across six 2010 offstation nurseries with low to moderate sawfly infestations, MT 0832 averaged a 5% loss in plots due to cutting compared to 5, 8, 11 and up to 19 % for Choteau, Vida, McNeal and Volt, respectively. At these same nurseries, MT 0832 averaged 39 bu/ac compared to ~ 36, 37, 34 and 30 bu/ac for those same varieties.

MT 0832 showed good resistance to prevalent races of stem rust at an inoculated nursery near Bozeman in 2009. It also showed good resistance to stripe rust at Kalispell in 2010. MT 0832 has average test weight at 60 lb/bu and grain protein averaging 13.7 % across 16 locations. MT 0832 exhibits acceptable milling and baking quality traits.

We propose the name “Duclair” which was a 1916-18 post office site in Blaine county west of Turner near Choteau coulee.

Breeders seed is available for planting in the spring of 2011.

Crop Science

Entomology

Horticulture

Plant Biology

Plant Genetics

Plant Pathology

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TABLE OF PAIRED T-TEST RESULTS

GRAIN YIELD (BU/AC)

REFERENCE MEAN: MT 0832 66.1 (N= 16)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 13596	FORTUNA	56.4	16	-9.7	-4.4	.001
PI574642	MCNEAL	60.0	16	-6.1	-2.9	.011
ND 695	REEDER	66.4	16	.3	.2	.882
PI632252	OUTLOOK	63.1	16	-3.0	-1.1	.305
PI633974	CHOTEAU	64.8	16	-1.3	-1.2	.247
PI642366	VIDA	67.8	16	1.8	.7	.467
BZ992322	HANK	64.5	16	-1.6	-.7	.482
BZ992588	CONAN	55.7	16	-10.4	-4.5	.000
BZ996434	CORBIN	61.3	16	-4.8	-2.8	.014
ACS52610	VOLT	64.4	16	-1.7	-.7	.486
BZ999592	ONEAL	65.0	16	-1.1	-.4	.708
BZ9M1044	JEDD	59.2	16	-6.9	-2.2	.044
AGRIPRO3	FREYR	59.4	16	-6.7	-2.9	.011
AGRIPRO6	KELBY	55.9	16	-10.2	-3.9	.002
AGRIPRO7	KUNTZ	60.8	16	-5.3	-2.9	.012
NDSW0449	MOTT	59.2	16	-6.9	-2.4	.029
MT 0827		63.9	16	-2.2	-1.3	.214
MT 0852		63.9	16	-2.2	-1.7	.110

GRAIN TEST WEIGHT (LB/BU)

REFERENCE MEAN: MT 0832 60.0 (N= 16)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 13596	FORTUNA	60.8	16	.8	4.5	.000
PI574642	MCNEAL	60.3	16	.4	1.5	.156
ND 695	REEDER	61.3	16	1.3	7.0	.000
PI632252	OUTLOOK	59.9	16	-.1	-.4	.709
PI633974	CHOTEAU	60.5	16	.5	2.6	.018
PI642366	VIDA	60.0	16	.0	.1	.895
BZ992322	HANK	59.3	16	-.7	-2.5	.023
BZ992588	CONAN	60.8	16	.8	2.6	.021
BZ996434	CORBIN	60.9	16	.9	4.3	.000
ACS52610	VOLT	62.2	16	2.2	9.2	.000
BZ999592	ONEAL	60.9	16	.9	2.0	.067
BZ9M1044	JEDD	61.0	16	1.1	3.0	.008
AGRIPRO3	FREYR	61.1	16	1.1	7.8	.000
AGRIPRO6	KELBY	61.2	16	1.2	5.9	.000
AGRIPRO7	KUNTZ	61.0	16	1.0	4.8	.000
NDSW0449	MOTT	60.5	16	.5	3.6	.002
MT 0827		61.4	16	1.4	5.1	.000
MT 0852		60.9	16	1.0	5.3	.000

TABLE OF PAIRED T-TEST RESULTS (CONT.)

REFERENCE MEAN: MT 0832 178.6 (N= 16)

HEADING DATE (JULIAN DAYS)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 13596	FORTUNA	180.0	16	1.5	4.4	.000
PI574642	MCNEAL	181.6	16	3.0	9.9	.000
ND 695	REEDER	180.1	16	1.5	4.1	.000
PI632252	OUTLOOK	182.1	16	3.5	17.6	.000
PI633974	CHOTEAU	179.7	16	1.1	3.3	.005
PI642366	VIDA	180.7	16	2.1	6.8	.000
BZ992322	HANK	178.7	16	.2	.7	.511
BZ992588	CONAN	179.8	16	1.2	6.0	.000
BZ996434	CORBIN	178.8	16	.2	1.0	.337
ACS52610	VOLT	182.3	16	3.7	6.3	.000
BZ999592	ONEAL	181.0	16	2.4	8.2	.000
BZ9M1044	JEDD	178.5	16	-.1	-.2	.854
AGRIPRO3	FREYR	179.6	16	1.1	3.8	.002
AGRIPRO6	KELBY	178.0	16	-.5	-2.6	.020
AGRIPRO7	KUNTZ	180.4	16	1.8	7.8	.000
NDSW0449	MOTT	182.1	16	3.5	11.6	.000
MT 0827		178.3	16	-.3	-2.0	.064
MT 0852		180.4	16	1.8	6.8	.000

PLANT HEIGHT (INCHES)

REFERENCE MEAN: MT 0832 30.7 (N= 16)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 13596	FORTUNA	36.5	16	5.9	11.5	.000
PI574642	MCNEAL	31.7	16	1.1	2.3	.038
ND 695	REEDER	31.4	16	.7	1.5	.148
PI632252	OUTLOOK	31.8	16	1.2	3.0	.009
PI633974	CHOTEAU	29.7	16	-1.0	-3.5	.003
PI642366	VIDA	31.2	16	.5	1.5	.160
BZ992322	HANK	29.0	16	-1.7	-6.2	.000
BZ992588	CONAN	29.6	16	-1.0	-3.0	.009
BZ996434	CORBIN	30.3	16	-.4	-1.3	.223
ACS52610	VOLT	29.6	16	-1.0	-3.0	.009
BZ999592	ONEAL	31.0	16	.3	1.1	.278
BZ9M1044	JEDD	25.9	16	-4.8	-14.7	.000
AGRIPRO3	FREYR	32.5	16	1.9	8.5	.000
AGRIPRO6	KELBY	28.2	16	-2.5	-8.9	.000
AGRIPRO7	KUNTZ	29.0	16	-1.7	-5.4	.000
NDSW0449	MOTT	33.4	16	2.7	5.5	.000
MT 0827		31.5	16	.8	2.7	.018
MT 0852		31.2	16	.6	2.5	.024

TABLE OF PAIRED T-TEST RESULTS (CONT.)

GRAIN PROTEIN (%)

REFERENCE MEAN: MT 0832 13.7 (N=16)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 13596	FORTUNA	13.8	16	.1	.7	.497
PI574642	MCNEAL	13.6	16	-.1	-.8	.449
ND 695	REEDEER	14.0	16	.3	2.0	.063
PI632252	OUTLOOK	13.7	16	-.0	-.1	.902
PI633974	CHOTEAU	14.1	16	.4	3.2	.006
PI642366	VIDA	13.3	16	-.4	-2.1	.049
BZ992322	HANK	13.3	16	-.4	-2.7	.016
BZ992588	CONAN	13.9	16	.2	.9	.394
BZ996434	CORBIN	13.5	16	-.2	-1.0	.347
ACS52610	VOLT	13.0	16	-.6	-3.1	.007
BZ999592	ONEAL	13.3	16	-.3	-1.7	.109
BZ9M1044	JEDD	13.4	16	-.3	-2.1	.055
AGRIPRO3	FREYR	13.9	16	.2	1.4	.180
AGRIPRO6	KELBY	14.7	16	1.0	4.0	.001
AGRIPRO7	KUNTZ	13.2	16	-.5	-3.2	.006
NDSW0449	MOTT	13.7	16	.0	.0	.985
MT 0827		14.2	16	.5	2.9	.011
MT 0852		14.0	16	.4	2.7	.017

**2009-2010 GRAIN YIELD (BU/AC) SUMMARY FOR MT 0832 COMPARED TO SELECTED SPRING WHEATS IN THE  
ADVANCED SPRING WHEAT NURSERY GROWN ACROSS MONTANA**

VARIETY	DISTRICT 1 KALISPELL			DISTRICT 2 BOZEMAN DRY			DISTRICT 2 BOZEMAN IRR.			DISTRICT 3 HUNTLEY DRY			DISTRICT 4 MOCCASIN		
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.
MT0832	90.4	101.2	95.8	71.2	not harvested	71.2	74.9	not harvested	74.9	40.9	72.4	56.7	29.0	42.1	35.6
FORTUNA	78.3	86.3	82.3	63.6	not harvested, damaged by hail	63.6	62.6	not harvested, damaged by hail	62.6	45.6	62.9	54.3	26.2	38.1	32.2
MCNEAL	77.8	84.2	81.0	64.6		64.6	68.9		68.9	47.2	72.5	59.9	33.9	40.8	37.4
REEDER	99.9	103.2	101.6	72.1		72.1	82.6		82.6	51.1	68.5	59.8	30.5	41.2	35.9
OUTLOOK	71.2	89.0	80.1	72.9		72.9	80.9		80.9	47.9	74.8	61.4	27.9	44.4	36.2
CHOTEAU	92.1	95.0	93.6	73.9		73.9	80.3		80.3	45.7	74.6	60.2	24.4	40.2	32.3
VIDA	91.9	99.2	95.6	78.7		78.7	81.4		81.4	57.1	75.5	66.3	34.3	41.5	37.9
HANK	89.6	88.9	89.3	69.7		69.7	79.2		79.2	55.3	80.7	68.0	31.1	42.8	37.0
CONAN	63.3	77.2	70.3	58.7		58.7	60.0		60.0	40.4	71.8	56.1	29.6	41.1	35.4
CORBIN	87.0	95.0	91.0	67.1		67.1	65.0		65.0	48.0	72.8	60.4	26.6	37.6	32.1
VOLT	75.4	113.6	94.5	79.0		79.0	87.2		87.2	44.6	78.6	61.6	28.2	38.4	33.3
ONEAL	94.3	70.6	82.5	71.9		71.9	80.6		80.6	55.9	74.5	65.2	31.2	43.9	37.6
JEDD	95.3	71.1	83.2	69.5		69.5	72.1		72.1	50.0	75.9	63.0	26.4	41.4	33.9
FREYR	81.6	96.2	88.9	60.1		60.1	65.7		65.7	47.3	68.7	58.0	29.6	37.5	33.6
KELBY	80.0	98.4	89.2	49.3		49.3	51.1		51.1	36.2	68.9	52.6	25.5	45.4	35.5
KUNTZ	81.1	94.3	87.7	61.0		61.0	64.8		64.8	50.5	74.4	62.5	29.1	38.0	33.6
MOTT	71.2	83.6	77.4	68.0		68.0	68.5		68.5	54.0	68.9	61.5	29.7	37.9	33.8
MT0827	90.1	109.0	99.6	62.2		62.2	66.2		66.2	44.4	71.4	57.9	31.0	44.7	37.9
MT0852	82.0	93.4	87.7	68.9		68.9	72.3		72.3	48.8	68.4	58.6	27.9	41.8	34.9
AVERAGE	83.8	92.1	87.9	67.5		67.5	71.8		71.8	47.9	72.4	60.2	29.1	41	35.0
C.V.			11.29			5.86			5.84		6.72			6.9	
F-value (entry)			1.29 ns		8.8**		14.39**		1.88 ns			1.3 ns			
LSD (.05)			20.85		6.54		6.96		8.5			5.08			

ID	DISTRICT 5 HAVRE			DISTRICT 5 CONRAD DRY			DISTRICT 6 SIDNEY DRYLAND			DISTRICT 6 SIDNEY IRR			OVERALL AVERAGE
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	
MT0832	41.2	53.62	47.4	77.5	79.7	78.6	43.8	52.9	48.4	101.4	85.3	93.4	66.1
FORTUNA	46.3	48.72	47.5	62.8	55.0	58.9	39.7	43.2	41.5	75.5	68.2	71.9	56.4
MCNEAL	42.4	48.83	45.6	74.7	58.4	66.6	45.0	39.4	42.2	95.3	66.2	80.8	60.0
REEDER	49.0	55.23	52.1	78.7	57.7	68.2	44.5	47.4	46.0	95.7	85.0	90.4	66.4
OUTLOOK	44.3	56.23	50.3	82.0	42.8	62.4	44.7	46.7	45.7	96.3	87.2	91.8	63.1
CHOTEAU	40.7	54.77	47.8	75.0	81.2	78.1	39.8	45.6	42.7	94.8	79.4	87.1	64.8
VIDA	53.8	59.3	56.6	85.5	60.7	73.1	49.5	53.2	51.4	96.0	68.0	82.0	67.8
HANK	46.7	56.23	51.5	75.3	65.7	70.5	42.8	44.0	43.4	99.2	65.3	82.3	64.5
CONAN	43.3	51.09	47.2	62.2	61.2	61.7	37.4	38.2	37.8	82.7	73.3	78.0	55.7
CORBIN	45.9	52.76	49.4	72.5	69.2	70.9	39.2	47.2	43.2	93.4	61.6	77.5	61.3
VOLT	42.5	49.02	45.8	74.7	56.5	65.6	39.8	46.0	42.9	96.9	80.8	88.9	64.4
ONEAL	48.6	59.23	53.9	85.4	59.8	72.6	46.8	48.7	47.8	100.5	67.6	84.1	65.0
JEDD	43.3	52.55	48.0	68.2	60.2	64.2	42.3	46.1	44.2	82.5	51.0	66.8	59.2
FREYR	43.2	46.19	44.7	66.2	44.4	55.3	43.9	43.2	43.6	91.0	85.4	88.2	59.4
KELBY	44.0	47.31	45.7	60.6	43.9	52.3	42.4	39.7	41.1	88.3	74.0	81.2	55.9
KUNTZ	44.4	44.4	44.4	72.4	59.2	65.8	45.9	39.5	42.7	95.2	78.7	87.0	60.8
MOTT	44.1	51.54	47.8	77.5	42.5	60.0	40.0	41.5	40.8	98.2	70.5	84.4	59.2
MT0827	42.7	50.63	46.7	67.1	65.3	66.2	42.9	48.8	45.9	92.3	94.1	93.2	63.9
MT0852	44.7	57.31	51.0	70.3	73.5	71.9	41.3	45.4	43.4	95.8	91.1	93.5	63.9
AVERAGE	44.8	51	48.6	73.1	59.8	66.4	42.7	45.1	43.9	93.2	75.4	84.3	62.0
C.V.			5.52		13.6		6.63		9.35			10.35	
F-value (entry)			2.93*		1.23 ns		2.24*		1.73 ns			5.25**	
LSD (.05)			5.6		19.02		6.11		16.56			4.47	

**2009-2010 TEST WEIGHT (LB/BU) SUMMARY FOR MT 0832 COMPARED TO SELECTED SPRING WHEATS IN THE ADVANCED SPRING WHEAT NURSERY GROWN ACROSS MONTANA**

ID	DISTRICT 1 KALISPELL			DISTRICT 2 BOZEMAN DRY			DISTRICT 2 BOZEMAN IRR.			DISTRICT 3 HUNTLEY DRY			DISTRICT 4 MOCCASIN		
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.
MT0832	62.0	58.9	60.5	61.4	not harvested	61.4	61.2	not harvested	61.2	60.1	61.8	61.0	58.2	57.8	58.0
FORTUNA	63.4	59.1	61.3	62.4	not harvested, damaged by hail	62.4	62.8	not harvested, damaged by hail	62.8	60.3	61.9	61.1	58.7	60.2	59.5
MCNEAL	61.9	59.5	60.7	60.0		61.7	61.7		60.5	62.1	61.3	61.3	58.4	59.9	
REEDER	62.5	60.3	61.4	61.7		61.7	62.2		61.6	63.1	62.4	60.9	60.5	60.7	
OUTLOOK	59.5	58.0	58.8	60.6		60.6	61.7		60.0	61.1	60.6	59.0	59.3	59.2	
CHOTEAU	62.7	58.9	60.8	61.8		61.8	62.5		60.1	62.5	61.3	58.5	60.2	59.4	
VIDA	61.4	59.4	60.4	60.6		60.6	59.6		60.4	62.2	61.3	59.3	59.8	59.6	
HANK	62.2	56.2	59.2	59.9		59.9	60.4		60.1	60.5	60.3	58.1	57.0	57.6	
CONAN	61.3	59.4	60.4	59.8		59.8	61.2		60.4	61.9	61.2	61.5	58.6	60.1	
CORBIN	63.4	59.3	61.4	62.1		62.1	62.8		60.8	62.5	61.7	60.6	58.4	59.5	
VOLT	63.1	60.7	61.9	63.3		63.3	64.1		62.1	63.2	62.7	61.7	61.5	61.6	
ONEAL	61.5	57.9	59.7	61.1		61.1	61.5		62.2	63.4	62.8	60.9	59.8	60.4	
JEDD	63.8	57.2	60.5	62.6		62.6	63.6		61.8	63	62.4	60.9	59.8	60.4	
FREYR	62.7	59.8	61.3	62.1		62.1	62.3		60.6	62.8	61.7	60.5	59.8	60.2	
KELBY	64.0	59.4	61.7	63.0		63.0	62.5		59.7	62.6	61.2	60.1	61.1	60.6	
KUNTZ	63.4	59.5	61.5	62.5		62.5	62.5		60.9	62.3	61.6	59.8	60.2	60.0	
MOTT	62.2	58.9	60.6	61.9		61.9	62.2		59.8	61.7	60.8	58.9	59.6	59.3	
MT0827	62.9	59.9	61.4	62.3		62.3	62.2		60.7	62.7	61.7	60.9	62.3	61.6	
MT0852	62.4	59.4	60.9	61.5		61.5	61.4		60.9	62.8	61.9	59.8	60.4	60.1	
AVERAGE	62.4	59	60.7	61.6		61.6	62.0		60.7	62.3	61.5	60.0	59.7	59.9	
C.V.			1.56			1 rep				1 rep	0.63			1.63	
F-value (entry)			1.55 ns						6.32**			2.13 ns			
LSD (.05)			1.98						0.81			2.05			

ID	DISTRICT 5 HAVRE			DISTRICT 5 CONRAD DRY			DISTRICT 6 SIDNEY DRYLAND			DISTRICT 6 SIDNEY IRR			OVERALL AVERAGE
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	
MT0832	57.8	56.8	57.3	62.8	58.55	60.7	62.8	60.0	61.4	61.1	58.5	59.8	60.0
FORTUNA	59.5	57.8	58.7	63.3	59.76	61.6	62.7	61.0	61.9	61.4	58.5	60.0	60.8
MCNEAL	58.5	57.6	58.1	62.7	59.65	61.2	62.5	60.0	61.3	61.7	57.5	59.6	60.3
REEDER	59.9	58	59.0	63.3	60.03	61.7	63.6	61.5	62.6	62.2	59.0	60.6	61.3
OUTLOOK	59.2	56.8	58.0	62.1	59.08	60.6	62.5	60.5	61.5	60.9	58.0	59.5	59.9
CHOTEAU	57.9	56.5	57.2	63.2	59.48	61.4	63.2	61.0	62.1	60.9	58.0	59.5	60.5
VIDA	58.9	57.5	58.2	62.5	59.15	60.9	62.8	60.0	61.4	60.3	56.5	58.4	60.0
HANK	58.8	55.8	57.3	63.1	58.1	60.6	62.8	59.5	61.2	60.8	55.5	58.2	59.3
CONAN	59.8	58.3	59.1	62.7	60.43	61.6	63.3	62.0	62.7	61.6	60.0	60.8	60.8
CORBIN	59.9	57.1	58.5	64.5	59.5	62.0	63.6	60.0	61.8	62.0	57.5	59.8	60.9
VOLT	59.8	57.9	58.9	65.2	62.98	64.1	65.0	61.5	63.3	63.1	60.0	61.6	62.2
ONEAL	60.6	59	59.8	63.4	62.21	62.8	64.1	60.5	62.3	61.9	54.5	58.2	60.9
JEDD	59.7	57.5	58.6	63.7	59.26	61.5	65.0	61.0	63.0	61.8	56.0	58.9	61.0
FREYR	59.4	57.4	58.4	63.4	60.47	62.0	63.7	61.5	62.6	62.2	59.0	60.6	61.1
KELBY	59.5	58.2	58.9	63.5	59.6	61.6	63.7	61.0	62.4	61.7	59.5	60.6	61.2
KUNTZ	58.4	56.6	57.5	63.6	60.67	62.2	64.4	60.0	62.2	62.6	58.0	60.3	61.0
MOTT	58.0	56.3	57.2	63.9	59.56	61.8	63.3	61.0	62.2	62.1	59.0	60.6	60.5
MT0827	59.5	57.1	58.3	63.2	60.16	61.7	63.8	62.5	63.2	61.5	60.5	61.0	61.4
MT0852	58.5	57.4	58.0	63.3	60.52	61.9	63.4	62.0	62.7	61.8	59.5	60.7	60.9
AVERAGE	59.1	57.3	58.2	63.3	60	61.7	63.5	60.9	62.2	61.7	58.2	59.9	60.7
C.V.			0.7			1.11			1.05			1.8	1.29
F-value (entry)			6.29**			2.86*			1.96 ns			1.63 ns	10.93**
LSD (.05)			0.86			1.43			1.37			2.27	0.55

2009-2010 HEADING DATE (JULIAN DAYS; 180= JUNE 29) SUMMARY FOR MT 0832 COMPARED TO SELECTED  
 SPRING WHEATS IN THE ADVANCED SPRING WHEAT NURSERY GROWN ACROSS MONTANA

ID	DISTRICT 1 KALISPELL			DISTRICT 2 BOZEMAN DRY			DISTRICT 2 BOZEMAN IRR.			DISTRICT 3 HUNTLEY DRY			DISTRICT 4 MOCCASIN		
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.
MT0832	183	180	181	189		189	189		189	167	168	168	181	182	182
FORTUNA	184	182	183	190	damaged by hail	190	190	damaged by hail	190	168	170	169	182	184	183
MCNEAL	185	184	185	193		193	193		193	170	171	171	184	185	184
REEDER	185	180	183	194		194	193		193	169	170	169	183	185	184
OUTLOOK	185	184	185	193		193	194		194	171	172	172	185	186	186
CHOTEAU	183	181	182	191		191	190		190	169	171	170	181	184	183
VIDA	184	181	182	192		192	192		192	169	170	170	184	186	185
HANK	181	180	181	189		189	188		188	168	169	169	182	183	182
CONAN	184	181	182	191		191	190		190	168	170	169	182	184	183
CORBIN	183	181	182	191		191	189		189	167	169	168	181	184	183
VOLT	190	182	186	196		196	196		196	169	170	170	182	187	185
ONEAL	185	183	184	192		192	192		192	169	171	170	183	184	184
JEDD	181	180	181	189		189	189		189	168	168	168	181	184	182
FREYR	184	180	182	190		190	189		189	169	170	169	182	184	183
KELBY	182	179	181	188		188	188		188	167	168	168	181	183	182
KUNTZ	185	181	183	191		191	190		190	170	170	170	183	185	184
MOTT	186	186	186	193		193	193		193	172	172	172	184	186	185
MT0827	182	180	181	188		188	188		188	167	168	168	181	183	182
MT0852	184	182	183	191	191	190	190	170	170	170	182	184	183		
AVERAGE	184	182	182	191	191	191	191	169	170	169	182	185	183		
C.V.			0.65		1 rep		1 rep			0.33			0.34		
F-value (entry)			3.85							10.22**			6.8**		
LSD (.05)			2.5							1.18			1.32		

ID	DISTRICT 5 HAVRE			DISTRICT 5 CONRAD DRY			DISTRICT 6 SIDNEY DRYLAND			DISTRICT 6 SIDNEY IRR			OVERALL AVERAGE
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	
MT0832	176	179	178	179	181	180	172	177	175	175	178	177	178.6
FORTUNA	177	181	179	179	187	183	173	178	176	177	180	178	180.0
MCNEAL	180	180	180	180	187	184	174	180	177	178	181	180	181.6
REEDER	177	180	178	179	182	181	172	178	175	175	179	177	180.1
OUTLOOK	180	182	181	181	185	183	175	180	178	178	182	180	182.1
CHOTEAU	177	179	178	179	185	182	171	179	175	175	179	177	179.7
VIDA	178	181	180	180	186	183	173	179	176	176	180	178	180.7
HANK	178	180	179	179	182	181	170	177	173	175	179	177	178.7
CONAN	178	180	179	180	184	182	172	177	175	176	180	178	179.8
CORBIN	177	179	178	178	181	180	170	178	174	175	179	177	178.8
VOLT	180	181	180	180	187	184	173	179	176	179	185	182	182.3
ONEAL	179	181	180	180	187	184	173	179	176	177	180	179	181.0
JEDD	177	179	178	179	182	181	169	176	173	175	178	177	178.5
FREYR	177	180	179	179	185	182	171	178	175	176	179	178	179.6
KELBY	176	179	177	178	181	180	169	177	173	174	177	176	178.0
KUNTZ	179	181	180	179	184	182	173	179	176	177	179	178	180.4
MOTT	179	180	180	182	187	185	174	180	177	178	181	180	182.1
MT0827	177	179	178	178	181	180	171	178	175	175	178	176	178.3
MT0852	178	180	179	180	186	183	173	179	176	176	180	178	180.4
AVERAGE	178	180	179	179	184	182	172	178	175	176	180	178	180
C.V.			0.28			0.71			0.39			0.35	0.51
F-value (entry)			7.84**			3.12**			7.31**			12.39**	35.04**
LSD (.05)			1.07			2.69			1.45			1.32	0.63

**2009-2010 PLANT HEIGHT (INCHES) SUMMARY FOR MT 0832 COMPARED TO SELECTED SPRING WHEATS IN THE  
ADVANCED SPRING WHEAT NURSERY GROWN ACROSS MONTANA**

ID	DISTRICT 1 KALISPELL			DISTRICT 2 BOZEMAN DRY			DISTRICT 2 BOZEMAN IRR.			DISTRICT 3 HUNTLEY DRY			DISTRICT 4 MOCCASIN		
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.
MT0832	30.7	36.5	33.6	29.8	32.7	31.3	-		-	33.6	38.5	36.1	24.1	31.7	27.9
FORTUNA	40.1	45.1	42.6	35.9	38.6	37.3	-	damaged by hail	-	40.5	42.7	41.6	29.3	37.5	33.4
MCNEAL	30.8	41.1	36.0	30.1	33.1	31.6	-		-	32.9	39.8	36.4	27.3	32.6	30.0
REEDER	33.7	39.4	36.6	32.3	31.2	31.8	-		-	34.5	40.2	37.4	25.3	32.6	29.0
OUTLOOK	32.4	39.2	35.8	31.7	33.4	32.6	-		-	34.1	38.5	36.3	24.3	31.2	27.8
CHOTEAU	30.6	36.2	33.4	29.0	32.4	30.7	-		-	31.4	37.0	34.2	21.3	31.4	26.4
VIDA	32.1	38.7	35.4	31.0	31.8	31.4	-		-	34.2	39.9	37.1	23.7	31.3	27.5
HANK	29.9	35.2	32.6	28.1	30.7	29.4	-		-	31.9	35.0	33.5	23.6	30.2	26.9
CONAN	30.6	36.8	33.7	29.4	31.5	30.5	-		-	31.5	36.9	34.2	24.6	30.1	27.4
CORBIN	31.9	37.5	34.7	30.5	32.6	31.6	-		-	33.4	38.5	36.0	21.5	31.5	26.5
VOLT	31.7	36.2	34.0	30.9	32.5	31.7	-		-	32.3	36.6	34.5	24.4	31.0	27.7
ONEAL	31.9	36.8	34.4	30.5	33.6	32.1	-		-	33.0	36.5	34.8	25.0	33.4	29.2
JEDD	25.9	30.8	28.4	25.7	28.0	26.9	-		-	28.2	33.1	30.7	19.9	26.7	23.3
FREYR	33.4	39.2	36.3	32.1	33.9	33.0	-		-	35.6	41.1	38.4	26.4	34.5	30.5
KELBY	28.7	33.2	31.0	27.0	29.9	28.5	-		-	31.4	36.1	33.8	22.1	31.5	26.8
KUNTZ	29.1	34.1	31.6	28.4	30.0	29.2	-		-	32.0	37.5	34.8	25.1	29.0	27.1
MOTT	33.7	42.7	38.2	32.2	34.0	33.1	-		-	36.3	41.8	39.1	24.8	33.8	29.3
MT0827	31.7	38.9	35.3	30.5	32.0	31.3	-		-	34.4	41.1	37.8	25.7	32.2	29.0
MT0852	31.9	37.9	34.9	30.4	34.0	32.2	-	-	33.7	39.3	36.5	24.6	32.0	28.3	
AVERAGE	31.6	37.7	34.6	30.3	32.4	31.4			33.4	38.4	35.9	24.4	31.8	28.1	
C.V.			3.04			2.42					2.26			4.02	
F-value (entry)			15.81**			15.8					17.62**			6.58**	
LSD (.05)			2.21			1.6					1.71			2.37	

ID	DISTRICT 5 HAVRE			DISTRICT 5 CONRAD DRY			DISTRICT 6 SIDNEY DRYLAND			DISTRICT 6 SIDNEY IRR			OVERALL AVERAGE
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	
MT0832	27.9	31.4	29.7	29.0	36.5	32.8	20.5	25.6	23.1	30.8	31.0	30.9	30.7
FORTUNA	30.1	40.0	35.1	35.0	43.3	39.2	24.0	30.5	27.3	37.9	34.0	36.0	36.5
MCNEAL	24.7	33.6	29.2	31.0	38.0	34.5	22.0	25.1	23.6	34.5	31.2	32.9	31.7
REEDER	25.8	33.5	29.7	29.0	37.8	33.4	19.8	22.5	21.2	33.4	30.9	32.2	31.4
OUTLOOK	25.5	34.8	30.2	30.0	38.7	34.4	23.1	25.4	24.3	34.2	32.6	33.4	31.8
CHOTEAU	24.4	31.6	28.0	27.0	35.3	31.2	20.8	24.6	22.7	30.8	30.8	30.8	29.7
VIDA	26.4	30.7	28.6	33.0	37.8	35.4	21.1	25.6	23.4	30.3	30.8	30.6	31.2
HANK	24.7	30.8	27.8	28.0	34.6	31.3	21.2	23.6	22.4	28.2	28.4	28.3	29.0
CONAN	26.2	32.5	29.4	28.0	33.6	30.8	21.9	22.5	22.2	29.1	28.7	28.9	29.6
CORBIN	25.8	32.5	29.2	27.0	35.8	31.4	21.5	24.5	23.0	30.3	29.3	29.8	30.3
VOLT	25.6	29.5	27.6	27.0	33.3	30.2	20.1	22.4	21.3	29.7	31.1	30.4	29.6
ONEAL	26.0	32.1	29.1	30.0	36.9	33.5	22.4	25.8	24.1	31.8	30.1	31.0	31.0
JEDD	22.0	26.9	24.5	24.0	31.0	27.5	19.5	22.1	20.8	26.0	23.9	25.0	25.9
FREYR	28.3	33.7	31.0	30.0	37.6	33.8	23.6	27.6	25.6	31.9	31.4	31.7	32.5
KELBY	25.6	29.6	27.6	25.0	32.7	28.9	20.3	22.9	21.6	27.5	27.3	27.4	28.2
KUNTZ	24.8	31.0	27.9	26.0	33.7	29.9	21.1	24.2	22.7	28.1	29.8	29.0	29.0
MOTT	26.9	33.5	30.2	34.0	41.6	37.8	21.6	27.0	24.3	36.9	33.7	35.3	33.4
MT0827	27.3	34.8	31.1	29.0	36.2	32.6	20.2	27.7	24.0	30.8	31.2	31.0	31.5
MT0852	25.9	33.7	29.8	30.0	37.3	33.7	21.0	25.8	23.4	31.6	30.7	31.2	31.2
AVERAGE	26.0	32.4	29.2	29.1	36.4	32.7	21.3	25	23.2	31.3	30.4	30.8	30.7
C.V.			4.45			2.27			5.03			3.63	3.82
F-value (entry)			5.07**			30.1**			3.64**			10.73**	56.47**
LSD (.05)			2.73			1.56			2.45			2.35	0.82



**2009-2010 GRAIN PROTEIN (%) SUMMARY FOR MT 0832 COMPARED TO SELECTED SPRING WHEATS IN THE  
ADVANCED SPRING WHEAT NURSERY GROWN ACROSS MONTANA**

ID	DISTRICT 1 KALISPELL			DISTRICT 2 BOZEMAN DRY			DISTRICT 2 BOZEMAN IRR.			DISTRICT 3 HUNTLEY DRY			DISTRICT 4 MOCCASIN		
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.
MT0832	14.1	14.9	14.5	14.0	not harvested	14.0	14.8	not harvested	14.8	12.6	10.7	11.7	17.0	11.25	14.1
FORTUNA	14.5	14.4	14.5	14.1	not harvested,	14.1	14.6	not harvested,	14.6	12.5	11.7	12.1	15.2	12.1	13.7
MCNEAL	14.6	15.2	14.9	13.8	damaged by hail	13.8	13.9	damaged by hail	13.9	12.8	10.6	11.7	15.7	12.15	13.9
REEDER	14.2	15.2	14.7	14.4		14.4	14.8		14.8	13.5	10.9	12.2	16.3	12.6	14.5
OUTLOOK	15.0	15.2	15.1	13.5		13.5	14.5		14.5	12.8	10.5	11.7	15.8	12.05	13.9
CHOTEAU	14.2	15.0	14.6	14.3		14.3	15.3		15.3	13.4	11.6	12.5	16.9	11.45	14.2
VIDA	14.2	15.0	14.6	13.6		13.6	14.3		14.3	10.9	10.4	10.7	15.8	11.45	13.6
HANK	13.7	13.7	13.7	13.7		13.7	13.9		13.9	12.3	10.7	11.5	16.7	11.8	14.3
CONAN	15.3	14.4	14.9	14.3		14.3	14.7		14.7	13.8	12.1	13.0	15.7	11.5	13.6
CORBIN	14.3	14.2	14.3	13.2		13.2	14.3		14.3	13.0	10.5	11.8	17.9	11.3	14.6
VOLT	13.4	13.5	13.5	13.0		13.0	13.8		13.8	12.9	10.8	11.9	15.1	12.35	13.7
ONEAL	14.1	14.8	14.5	14.1		14.1	14.8		14.8	11.7	9.9	10.8	16.6	13.15	14.9
JEDD	14.0	13.7	13.9	13.4		13.4	14.1		14.1	12.9	10.5	11.7	17.2	12.25	14.7
FREYR	14.5	14.7	14.6	14.0		14.0	15.0		15.0	12.6	11.2	11.9	16.1	12.85	14.5
KELBY	14.9	15.1	15.0	15.4		15.4	14.9		14.9	16.0	12.6	14.3	16.3	11.95	14.1
KUNTZ	13.5	14.5	14.0	13.1		13.1	13.9		13.9	12.5	10.8	11.7	14.6	11.65	13.1
MOTT	15.3	14.5	14.9	13.7		13.7	13.8		13.8	12.8	11.3	12.1	16.1	11.6	13.9
MT0827	14.8	15.1	15.0	15.1		15.1	15.8		15.8	13.0	11.4	12.2	16.5	12.3	14.4
MT0852	14.7	14.8	14.8	14.1		14.1	14.6		14.6	13.2	11.7	12.5	16.8	12	14.4
AVERAGE	14.4	14.6	14.5	13.9		13.9	14.5		14.5	12.9	11.05	12.0	16.2	11.99	14.1
C.V.			2.68			1 rep			1 rep			3.84			5.1
F-value (entry)			2.84*									5.71**			.77 ns
LSD (.05)			0.82									0.97			1.51

ID	DISTRICT 5 HAVRE			DISTRICT 5 CONRAD DRY			DISTRICT 6 SIDNEY DRYLAND			DISTRICT 6 SIDNEY IRR			OVERALL AVERAGE
	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	2009	2010	ave.	
MT0832	14.9	12.8	13.9	14.2	13.9	14.1	13.7	12.1	12.9	14.0	14.1	14.1	13.7
FORTUNA	14.8	13.0	13.9	14.2	14.7	14.5	14.4	11.4	12.9	15.1	14.4	14.8	13.8
MCNEAL	15.0	12.6	13.8	13.8	13.4	13.6	14.1	11	12.6	14.8	13.6	14.2	13.6
REEDER	14.6	12.7	13.7	14.4	13.9	14.2	13.9	12.2	13.1	15.7	14.5	15.1	14.0
OUTLOOK	14.9	12.7	13.8	13.5	13.8	13.7	13.7	11.6	12.7	15.1	14.1	14.6	13.7
CHOTEAU	15.4	13.0	14.2	14.6	13.6	14.1	15.0	11.7	13.4	15.6	14.9	15.3	14.1
VIDA	14.2	11.5	12.9	13.7	13.6	13.7	14.2	11.2	12.7	14.1	15	14.6	13.3
HANK	14.6	12.9	13.8	13.3	13.5	13.4	13.6	10.7	12.2	14.2	14.1	14.2	13.3
CONAN	14.9	12.1	13.5	13.9	13.8	13.9	14.1	11.6	12.9	14.9	14.6	14.8	13.9
CORBIN	14.6	12.5	13.6	13.8	13.3	13.6	15.0	10.9	13.0	14.0	13.8	13.9	13.5
VOLT	14.2	11.5	12.9	13.0	13.5	13.3	13.8	10.2	12.0	13.5	14.2	13.9	13.1
ONEAL	14.6	12.3	13.5	13.4	12.9	13.2	12.8	10.5	11.7	13.0	14.8	13.9	13.3
JEDD	15.0	12.1	13.6	13.8	13	13.4	12.8	10.7	11.8	13.9	14.4	14.2	13.4
FREYR	14.4	13.2	13.8	15.0	14.4	14.7	13.3	12.5	12.9	15.0	13.8	14.4	13.9
KELBY	15.0	14.0	14.5	16.3	14.7	15.5	13.8	13.4	13.6	15.4	15.1	15.3	14.7
KUNTZ	14.2	12.0	13.1	13.6	13.6	13.6	13.5	11.7	12.6	13.9	14	14.0	13.2
MOTT	15.1	13.3	14.2	13.5	14.2	13.9	14.1	11.8	13.0	14.7	13.3	14.0	13.7
MT0827	15.1	12.6	13.9	15.3	13.5	14.4	14.1	11.5	12.8	15.4	14.9	15.2	14.2
MT0852	15.4	12.6	14.0	15.4	13.4	14.4	14.0	12.1	13.1	15.2	14.8	15.0	14.1
AVERAGE	14.8	12.6	13.7	14.1	13.72	13.9	13.9	11.52	12.7	14.6	14.34	14.5	13.7
C.V.			2.72			3.89			5.1			4.05	2.83
F-value (entry)			2.64*			2.28*			1.21 ns			1.47 ns	9.61**
LSD (.05)			0.78			1.14			1.36			1.23	0.36

2009-2010 Stem solidness, sawfly damage and grain yields under sawfly pressure

STEM SOLIDNESS						
VARIETY	08 PYT	BOZEMAN		MOCCASIN		AVE
		2009 DRY	2009 IRR	2010 DRY	2010	
MT 0832	23	17.0	15.7	20.7	19.6	20.7
FORTUNA	21.6	19.8	15.6	17.7	19.5	19.9
MCNEAL	8.4	5.4	6.4	7.1	7.3	7.5
REEDER	7	5.4	5.3	6.3	7.9	6.6
OUTLOOK	.	6.1	6.5	7.1	8.4	7.0
CHOTEAU	24.9	23.4	21.2	20.1	24.1	23.6
VIDA	14.8	8.1	9.0	13	9.6	12.4
HANK	.	6.5	5.5	8.1	9.3	7.4
CONAN	.	8.7	7.3	10.1	11.5	9.4
CORBIN	.	8.4	6.8	9.4	10.9	8.9
VOLT	.	5.9	5.4	8.8	7.4	6.9
ONEAL	.	5.5	5.7	8.4	7.8	6.9
JEDD	.	6.9	5.9	7.8	9.9	7.6
FREYR	.	6.4	5.8	9.5	8.3	7.5
KELBY	.	5.6	5.5	6.1	8.7	6.5
KUNTZ	.	6.2	5.5	6.3	8.1	6.5
MOTT	.	14.2	15.9	17	16	15.8
MT 0827	22.4	18.0	15.8	20.6	21.5	20.7
MT 0852	22.4	17.3	17.9	21.7	23.6	21.3

  

2010 SAWFLY DAMAGE (% STEMS CUT)							
VARIETY	LORING	TURNER	NO.HAVRE	MOCC NO-TILL	DENTON	GERALDINE	AVE
MT 0832	10.0	13.7	2.3	1.0	0.7	1.7	4.9
FORTUNA	11.7	8.3	2.3	1.7	1.3	1.3	4.4
MCNEAL	20.0	25	7.0	4.0	2.3	7.8	11.0
REEDER	10.3	16.7	10.0	5.3	7.0	6.3	9.3
OUTLOOK	13.3	21.7	6.7	5.7	5.0	8.7	10.2
CHOTEAU	8.3	13.3	3.7	1.3	2.7	2.3	5.3
VIDA	10.0	18.3	6.7	2.0	1.3	3.3	6.9
HANK	5.0	8.3	6.7	7.7	9.0	12.7	8.2
CONAN	1.0	3.7	1.0	1.7	1.0	3.0	1.9
CORBIN	5.3	10.3	1.0	1.7	1.0	2.3	3.6
VOLT	15.0	21.7	13.3	15.0	21.7	27.7	19.1
ONEAL	2.3	2.3	2.3	1.7	1.7	3.0	2.2
JEDD	2.3	3.7	2.3	4.0	4.7	9.3	4.4
FREYR	11.7	31.7	6.7	10.0	8.3	17.7	14.4
KELBY	3.7	8.7	3.7	5.3	8.3	4.0	5.6
KUNTZ	10.0	18.3	11.7	6.0	19.3	22.0	14.6
MOTT	1.0	3.7	1.0	1.0	0.7	2.7	1.7
MT 0827	15.0	21.7	3.7	4.0	3.7	3.7	8.6
MT 0852	2.3	8.3	1.0	1.0	0.3	0.7	2.3

  

2010 GRAIN YIELDS (BU/AC)							
VARIETY	LORING	TURNER	NO.HAVRE	MOCC NO-TILL	DENTON	GERALDINE	AVE
MT 0832	34.9	36.7	66.0	29.9	36.5	33.6	39.6
FORTUNA	26.4	24.4	55.5	34.1	31.9	35.4	34.6
MCNEAL	29.3	32.7	55.0	29.8	30.2	25.6	33.8
REEDER	32.9	30.9	49.5	28.1	27.9	27.6	32.8
OUTLOOK	28.6	26.9	50.9	32.8	31.8	30.7	33.6
CHOTEAU	29.6	32.6	56.9	26.5	37.0	32.0	35.8
VIDA	36.9	25.6	55.4	30.4	36.4	34.9	36.6
HANK	30.2	36.5	55.3	27.3	24.1	24.7	33.0
CONAN	22.8	31.4	51.5	31.8	32.0	31.7	33.5
CORBIN	30.5	32.7	58.6	31.1	35.1	35.9	37.3
VOLT	34.7	27.2	50.7	23.7	22.2	23.3	30.3
ONEAL	36.3	37.1	59.6	33.0	37.5	35.3	39.8
JEDD	36.2	41.5	60.9	28.8	30.9	27.5	37.6
FREYR	26.1	31.6	48.8	25.1	25.5	24.3	30.2
KELBY	35.1	32.9	42.6	24.9	24.1	30.1	31.6
KUNTZ	30.1	32.4	50.5	21.8	20.6	20.2	29.3
MOTT	32.8	30.3	51.2	32.9	32.5	33.2	35.5
MT 0827	28.0	28.5	47.1	33.3	37.1	35.0	34.8
MT 0852	32.5	32.3	57.1	35.5	36.6	38.8	38.8

2010 GRAIN YIELD SUMMARY FOR THE OFFSTATION SPRING WHEAT NURSERIES GROWN ACROSS MONTANA

ID	PEDIGREE	NARC			WTARC			CARC		
		TURNER	NO. HAVRE	LORING	NORTH DEVON	"KNEES"	CONRAD IRR	MOCC NO-TILL	DENTON	GERALDINE
ACS52610	VOLT	27.2	50.7	34.7	43.1	48.5	59.1	23.7	22.2	23.3
AGRIPRO3	FREYR	31.6	48.8	26.1	35.4	45.0	42.6	25.1	25.5	24.3
AGRIPRO6	KELBY	32.9	42.6	35.1	35.8	37.5	40.4	24.9	24.1	30.1
AGRIPRO7	KUNTZ	32.4	50.5	30.1	30.9	39.6	57.2	21.8	20.6	20.2
AGRIPRO8	AP604CL	31.8	46.8	29.8	37.9	42.4	48.5	26.2	28.0	24.0
BZ992322	HANK	36.5	55.3	30.2	38.0	47.2	67.6	27.3	24.1	24.7
BZ992588	CONAN	31.4	51.5	32.8	36.5	49.5	59.2	31.8	32.0	31.6
BZ996434	CORBIN	32.7	58.6	30.5	38.8	54.2	64.9	31.1	35.1	35.9
BZ999592	ONEAL	37.1	59.6	36.3	43.7	56.2	60.9	33.0	37.5	35.3
BZ9M1044	JEDD	41.5	60.9	36.2	34.5	52.5	68.0	28.8	31.0	27.5
CI 13596	FORTUNA	24.4	55.5	26.4	42.4	35.3	54.9	34.1	32.0	35.4
MT 0827	CHOTEAU/MT0249	28.5	47.1	28.0	43.7	58.4	60.5	33.3	37.1	35.0
<b>MT 0832</b>	<b>CHOTEAU/MT0249</b>	<b>36.7</b>	<b>66.0</b>	<b>34.9</b>	<b>43.3</b>	<b>58.5</b>	<b>81.8</b>	<b>29.9</b>	<b>36.5</b>	<b>33.6</b>
MT 0852	MT0249/CHOTEAU	32.3	57.1	32.5	45.3	50.8	77.6	33.5	38.6	38.8
ND 695	REEDER	30.9	49.5	32.9	38.9	48.5	51.9	28.1	28.0	27.6
NDSW0449	MOTT	30.3	51.2	32.8	37.3	49.5	49.0	32.9	32.5	33.2
PI574642	McNEAL	32.7	55.0	29.3	43.5	51.2	56.0	29.8	30.2	25.6
PI632252	OUTLOOK	26.9	50.9	28.6	41.7	50.3	48.4	32.8	31.8	30.7
PI633974	CHOTEAU	32.6	56.9	29.6	41.9	53.3	71.5	26.5	37.0	32.0
PI642366	VIDA	25.6	55.4	37.0	44.0	53.0	63.0	30.4	36.4	34.9
*****	SITE MEAN *****	31.8	53.5	31.7	39.3	49.1	59.2	29.3	31.0	30.2
	C.V.	10.50	8.97	14.17	8.80	10.64	7.03	12.19	10.67	9.57
	LSD (.05)	5.51	7.95	7.39	5.71	8.63	6.96	5.89	5.46	4.77

ID	PEDIGREE	SARC						OVERALL AVE	OVERALL		
		MOLT DRY	BROADVIEW DRY	HYSHAM IRR	FROMBERG IRR	HUNTLEY DRY	HUNTLET IRR		Test weight AVE	Plant height AVE	Protein AVE
ACS52610	VOLT	35.4	33.8	74.4	89.6	74.4	97.8	49.2	59.9	30.6	13.5
AGRIPRO3	FREYR	38.9	40.7	78.4	86.8	69.1	89.4	47.2	58.8	33.4	13.8
AGRIPRO6	KELBY	38.2	32.3	76.4	85.5	60.3	90.7	45.8	59.3	29.8	14.6
AGRIPRO7	KUNTZ	36.2	33.3	69.5	87.3	71.7	93.8	46.3	58.3	30.3	13.3
AGRIPRO8	AP604CL	34.6	31.6	80.5	92.2	69.7	93.9	47.9	58.9	33.8	14.6
BZ992322	HANK	40.8	38.4	71.2	114.5	76.3	103.4	53.0	56.8	30.8	13.9
BZ992588	CONAN	35.6	35.4	78.9	76.6	64.9	87.8	49.0	58.8	30.9	14.1
BZ996434	CORBIN	32.6	35.4	67.3	83.4	76.5	79.4	50.4	58.4	31.8	14.1
BZ999592	ONEAL	38.0	40.8	69.3	102.2	75.2	87.4	54.2	59.5	32.7	13.8
BZ9M1044	JEDD	35.6	32.1	90.1	88.6	69.1	95.4	52.8	59.2	28.4	13.6
CI 13596	FORTUNA	36.0	36.5	64.5	89.1	67.1	74.3	47.2	58.4	37.7	13.9
MT 0827	CHOTEAU/MT0249	35.4	43.0	62.8	79.5	68.9	85.4	49.8	59.5	32.9	14.2
<b>MT 0832</b>	<b>CHOTEAU/MT0249</b>	<b>37.6</b>	<b>43.8</b>	<b>80.5</b>	<b>101.7</b>	<b>76.1</b>	<b>93.2</b>	<b>56.9</b>	<b>57.7</b>	<b>32.2</b>	<b>14.1</b>
MT 0852	MT0249/CHOTEAU	36.2	42.9	48.4	76.6	70.0	84.2	51.0	59.0	32.7	14.4
ND 695	REEDER	37.6	37.8	62.7	74.5	72.2	91.5	47.5	59.0	33.0	14.3
NDSW0449	MOTT	31.3	36.7	70.1	77.5	63.2	90.7	47.9	58.4	34.5	14.4
PI574642	McNEAL	31.8	33.1	79.2	83.9	67.3	87.7	49.1	57.9	33.3	14.1
PI632252	OUTLOOK	40.8	32.5	61.9	90.8	70.9	90.9	48.7	57.2	32.9	13.7
PI633974	CHOTEAU	33.5	42.1	78.8	86.7	71.3	93.8	52.5	57.7	31.2	14.4
PI642366	VIDA	36.0	41.0	69.1	77.1	75.3	86.4	51.0	58.1	31.7	13.7
*****	SITE MEAN *****	36.2	37.4	71.2	87.0	70.5	89.7	49.9	58.5	32.2	14.0
	C.V.	11.20	13.00	21.00	14.60	6.40	5.50	11.40	1.54	4.18	3.65
	LSD (.05)	ns	8.30	ns	21.30	7.50	9.50	4.08	0.65	0.97	0.38

2010 GRAIN YIELD SUMMARY FOR THE DRYLAND OFFSTATION SPRING WEHAT NURSERIES GROWN IN NORTHEASTERN MT

ID	PEDIGREE	EARC						
		CIRCLE	NASHUA	FLAXVILLE	WIBAUX	POPLAR	OUTLOOK	AVG
ACS52610	VOLT	4.6	35.1	35.4	28.5	34.6	22.1	26.7
AGRIPRO3	FREYR	.	.	.	.	.	.	.
AGRIPRO6	KELBY	6.3	44.9	34.0	24.4	54.0	28.1	31.9
AGRIPRO7	KUNTZ	7.7	32.9	40.7	27.1	48.3	38.7	32.6
AGRIPRO8	AP604CL	6.7	44.4	36.4	25.3	52.1	17.1	30.3
BZ992322	HANK	.	.	.	.	.	.	.
BZ992588	CONAN	.	.	.	.	.	.	.
BZ996434	CORBIN	10.3	38.6	36.4	24.1	41.6	25.7	29.5
BZ999592	ONEAL	12.3	31.2	42.3	27.8	43.9	38.0	32.6
BZ9M1044	JEDD	9.4	29.0	34.1	23.2	52.5	28.7	29.5
CI 13596	FORTUNA	.	.	.	.	.	.	.
MT 0827	CHOTEAU/MT0249	12.0	29.6	33.9	31.4	46.1	31.6	30.8
<b>MT 0832</b>	<b>CHOTEAU/MT0249</b>	<b>14.3</b>	<b>25.8</b>	<b>32.7</b>	<b>31.9</b>	<b>52.2</b>	<b>30.3</b>	<b>31.2</b>
MT 0852	MT0249/CHOTEAU	16.8	25.8	37.2	33.2	45.7	34.8	32.2
ND 695	REEDER	10.1	38.6	45.4	26.4	47.5	36.7	34.1
NDSW0449	MOTT	12.6	18.0	31.3	25.2	37.4	35.9	26.7
PI574642	McNEAL	9.3	38.8	32.0	19.9	38.8	34.6	28.9
PI632252	OUTLOOK	9.9	28.1	37.3	24.1	37.9	26.0	27.2
PI633974	CHOTEAU	10.9	28.4	42.0	23.5	47.6	16.3	28.1
PI642366	VIDA	13.9	40.8	41.5	28.8	47.7	38.0	35.1
*****	SITE MEAN *****	10.4	33.1	37.0	26.6	45.5	30.2	30.5
	C.V.	13.50	17.40	12.40	17.70	12.20	12.50	
	LSD (.05)	2.30	9.40	7.50	7.60	8.90	6.40	

2010 % Sawfly infested stems from nurseries grown at Havre and Amsterdam, MT

ID	% Infested stems		overall
	Havre	Amsterdam	
Choteau	29	20	24.5
MT0827	33	37	35
MT0832	31.3	32.7	32
MT0852	16.7	24.6	20.7
MEAN	27.5	28.6	28
C.V.	56.8	38.1	45.2
F-VALUE(ID)	.67 ns	1.49 ns	1.63 ns
LSD(.05)	31.2	21.7	15.6

2009-2010 Mill and Bake quality summary for MT 0832 compared to selected varieties grown in the advanced spring wheat nursery across Montana (4 locations, 2 years)

VARIETY	GRAIN PROTEIN (%)		KERNEL HARDNESS (%)		FLOUR YIELD (%)		FLOUR PROTEIN (%)		FLOUR ASH (%)		WHEAT ASH (%)		MIXOGRAPH		BAKE		LOAF VOLUME (CC)		CRUMB-GRAIN SCORE (1-10)		
	Havre	Amsterdam	Havre	Amsterdam	Havre	Amsterdam	Havre	Amsterdam	Havre	Amsterdam	Havre	Amsterdam	TOLERANCE (%)	TIME (MIN.)	ABSORPTION (%)	TIME (MIN.)	ABSORPTION (%)	Havre	Amsterdam	Havre	Amsterdam
MT0832	13.7	66.0	67.2	12.2	0.42	1.51	4.25	4.99	65.81	6.58	75.14	1102.5	6.63	6.58	75.14	1102.5	6.63	1102.5	6.63	6.63	6.63
FORTUNA	13.8	65.1	69.5	12.5	0.43	1.57	3.38	3.56	64.41	4.76	74.11	1042.5	7.50	4.76	74.11	1042.5	7.50	1042.5	7.50	7.50	
MCNEAL	13.3	80.2	66.7	12.2	0.42	1.64	4.88	7.23	66.61	10.68	78.13	1126.9	8.00	4.88	78.13	1126.9	8.00	1126.9	8.00	8.00	
REEDER	13.7	69.0	67.5	12.4	0.42	1.53	3.25	4.21	64.88	5.40	74.64	1068.1	7.25	3.25	74.64	1068.1	7.25	1068.1	7.25	7.25	
OUTLOOK	13.5	83.7	67.6	12.3	0.42	1.57	4.00	4.83	65.39	5.90	75.09	1105.0	7.13	4.00	75.09	1105.0	7.13	1105.0	7.13	7.13	
CHOTEAU	14.1	63.0	67.1	12.9	0.41	1.54	3.75	3.89	66.00	4.88	75.33	1118.1	7.38	3.75	75.33	1118.1	7.38	1118.1	7.38	7.38	
VIDA	13.3	69.7	69.6	12.1	0.43	1.48	3.25	4.45	65.40	5.78	74.60	1097.5	7.38	3.25	74.60	1097.5	7.38	1097.5	7.38	7.38	
HANK	13.4	64.8	67.3	12.1	0.43	1.60	4.00	6.36	65.46	9.36	75.66	1093.1	7.50	4.00	75.66	1093.1	7.50	1093.1	7.50	7.50	
CONAN	13.7	68.1	65.5	12.1	0.42	1.67	4.25	5.85	65.65	8.26	76.41	1117.5	7.75	4.25	76.41	1117.5	7.75	1117.5	7.75	7.75	
CORBIN	13.4	64.0	68.1	12.0	0.42	1.66	3.75	5.59	65.16	9.36	75.43	1008.1	7.38	3.75	75.43	1008.1	7.38	1008.1	7.38	7.38	
VOLT	13.0	77.2	67.1	11.6	0.43	1.63	5.38	7.21	65.90	14.65	78.16	988.1	7.75	5.38	78.16	988.1	7.75	988.1	7.75	7.75	
ONEAL	13.2	78.8	67.7	11.9	0.42	1.55	5.00	7.05	64.94	11.55	77.14	1131.3	7.38	5.00	77.14	1131.3	7.38	1131.3	7.38	7.38	
JEDD	13.4	75.5	67.5	12.3	0.42	1.64	4.50	5.30	66.33	8.61	76.53	1072.5	7.50	4.50	76.53	1072.5	7.50	1072.5	7.50	7.50	
FREYR	13.6	72.7	68.5	12.3	0.43	1.56	4.25	4.50	65.83	6.75	75.53	1071.3	7.75	4.25	75.53	1071.3	7.75	1071.3	7.75	7.75	
KELBY	14.2	66.2	65.7	12.8	0.45	1.56	3.88	4.59	66.85	6.66	76.49	1093.1	7.63	3.88	76.49	1093.1	7.63	1093.1	7.63	7.63	
KUNTZ	13.1	74.8	68.3	11.9	0.42	1.57	5.00	5.35	65.76	8.63	76.21	1061.9	7.50	5.00	76.21	1061.9	7.50	1061.9	7.50	7.50	
MT0827	14.0	65.5	66.7	12.5	0.41	1.55	3.75	4.39	66.63	5.73	75.89	1042.5	6.88	3.75	75.89	1042.5	6.88	1042.5	6.88	6.88	
MT0852	13.8	73.5	67.6	12.5	0.42	1.56	3.63	3.90	66.65	4.98	74.79	1029.4	6.63	3.63	74.79	1029.4	6.63	1029.4	6.63	6.63	
MOTT	13.6	71.0	68.6	12.3	0.40	1.60	4.00	5.21	67.28	9.70	76.85	1092.5	7.50	4.00	76.85	1092.5	7.50	1092.5	7.50	7.50	
MEAN	13.6	70.8	67.6	12.3	0.42	1.58	4.11	5.18	65.83	7.8	75.9	1076.9	7.39	4.11	75.9	1076.9	7.39	1076.9	7.39	7.39	
C.V.	3.86	7.75	1.89	4.55	6.33	4.86	18.83	18.16	2.19	25.8	2.48	4.69	11.7	18.83	2.48	4.69	11.7	4.69	11.7	11.7	
F-VALUE	3.2**	9.83**	5.52**	2.6**	1.19 ns	3.51**	4.98**	11.48**	2.14**	13.9**	2.91**	5.06**	1.43 ns	4.98**	2.91**	5.06**	1.43 ns	5.06**	1.43 ns	1.43 ns	
LSD (.05)	0.52	5.44	1.26	0.55	0.03	0.08	0.77	0.93	1.43	1.99	1.87	49.9	0.86	0.77	1.87	49.9	0.86	49.9	0.86	0.86	