2015 MONTANA WINTER WHEAT OFF-STATION TESTS
TABLE OF CONTENTS

Table 30. 2015 Off-Station Winter Wheat Tests: Summary

Cultivar/Line + = new for 2015	Origin/Pedigree	Yield bu/ac RCB	Test weight lb/bu	Plant height in	Protein % bulk
	Locations	15	15	15	15
Bearpaw	Montana, 2011	54.6	58.0	30.3	12.0
+ Broadview	Alberta, 2009 (Meridian Seeds)	54.3	57.7	30.7	12.3
CDC Falcon	Sask/WestBred, 1999	**55.3***	58.0	29.2	12.0
Colter	Montana, 2013	**57.7***	58.9	33.0	12.2
Decade	Montana/North Dakota, 2010	**55.2***	58.4	31.4	12.2
Genou	Montana, 2004	48.1	58.6	34.0	12.4
Jerry	North Dakota, 2001	53.1	57.6	34.1	12.2
Judee	Montana, 2011	48.8	**59.1***	29.8	12.4
MT1078	MT02113*4/MTS0359	**57.7***	57.1	31.1	11.6
MT1117	Yellowstone*3/KS96WGRC40	**55.5***	**59.1***	33.1	12.2
MT1138	W99-194/2*Yellowstone	**58.5***	58.3	32.4	11.7
+ MT1257	Yellowstone/Krichauff	**57.2***	57.8	32.7	12.0
+ MT1265	Yellowstone*4/KS96WGRC40 (Lr41,	**58.7****	58.4	33.1	11.9
MT1286	Yellowstone*2/NE99445	**57.6***	**59.3***	32.3	11.7
MTCS1204	MTCL0510/4/Paul/3/98X96C16cl/CD	52.2	58.9	32.2	12.3
MTS0826-63	MT9524/G15048//Rampart	52.3	58.6	33.0	12.5
+ MTS1224	Yellowstone//MTS0112/MTS0125	**55.7***	58.1	29.3	12.3
Northern	Montana, 2015	**56.8***	58.1	30.4	12.4
Rampart	Montana, 1996	44.6	58.4	33.2	**13.2****
SY Clearstone 2CL	Montana/Syngenta, 2012	52.8	57.7	33.3	12.3
+ SY Wolf	Syngenta (AgriPro), 2010	**56.0***	**59.6****	30.2	12.2
Warhorse	Montana, 2013	50.4	58.2	30.3	12.5
WB3768	Montana/WestBred, 2013	**58.5***	59.0	34.4	12.0
WB-Quake	WestBred, 2011	48.0	58.3	30.4	11.9
Yellowstone	Montana 2005	**58.1***	58.5	32.9	12.0
Average		**54.3**	**58.4**	**31.9**	**12.2**
LSD (0.05)		**3.5**	**0.6**	**0.9**	**0.4**
C.V. (%)		**9.0**	**1.5**	**4.0**	**4.2**

Table 31. 2015 Off-Station Winter Wheat Test (Exp. 3851): Turner (NARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Stand %	Plant height in	Protein %
		+ = new for 2015		LAT	LAT	LAT	LAT	LAT
			lattice efficiency relative to RCB	209%	256%	102%	108%	117%
23		**MT1286**	Yellowstone*2/NE99445	**47.2****	59.5	92.2	25.6	12.6
13		**WB3768**	Montana/WestBred, 2013	**45.3***	59.8	92.1	29.2	13.2
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	**44.6***	58.5	90.1	23.2	12.9
15		**MT1078**	MT02113*4/MTS0359	**44.0***	57.8	93.2	25.3	12.5
21	**+**	**MT1257**	Yellowstone/Krichauff	**43.5***	58.7	91.0	27.6	13.5
12		**Colter**	Montana, 2013	43.1	59.9	87.0	25.9	13.7
17		**MT1138**	W99-194/2*Yellowstone	42.7	59.2	92.6	27.6	13.1
19		**MTS0826-63**	MT9524/G15048//Rampart	42.7	58.3	89.8	27.7	13.4
3		**Decade**	Montana/North Dakota, 2010	41.8	59.2	88.2	25.2	**14.4****
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	41.8	59.6	93.6	25.5	12.8
16		**MT1117**	Yellowstone*3/KS96WGRC40	40.7	60.2	89.8	27.1	13.4
5		**CDC Falcon**	Sask/WestBred, 1999	40.5	58.8	92.9	23.0	12.9
4		**Genou**	Montana, 2004	40.3	59.1	93.2	27.9	13.3
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	39.6	59.3	90.5	26.9	13.2
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	39.2	59.1	92.0	24.1	13.7
1		**Yellowstone**	Montana 2005	39.1	59.4	88.5	25.8	13.3
14		**Northern**	Montana, 2015	38.9	59.2	91.7	24.2	13.7
9		**Bearpaw**	Montana, 2011	38.6	58.2	93.7	23.2	13.8
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	38.3	59.3	89.9	22.1	13.6
6		**Jerry**	North Dakota, 2001	38.2	58.1	90.7	25.7	12.9
8		**WB-Quake**	WestBred, 2011	37.8	58.8	92.9	24.2	13.3
2		**Judee**	Montana, 2011	36.8	**60.8****	93.1	24.3	13.7
10		**Warhorse**	Montana, 2013	36.2	59.3	89.8	23.7	**14.2***
7		**Rampart**	Montana, 1996	34.3	58.4	89.2	24.5	**14.0***
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	33.7	59.5	91.1	25.9	**14.0***
		Average		**40.3**	**59.1**	**91.1**	**25.4**	**13.4**
		LSD (0.05)		**4.0**	**0.6**	**ns**	**2.0**	**0.5**
		C.V. (%)		**5.4**	**0.5**	**4.4**	**4.4**	**1.9**
		P-value (Varieties)		**<.0001**	**<.0001**	**0.9178**	**<.0001**	**<.0001**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 32. 2015 Off-Station Winter Wheat Test (Exp. 3853): Loma (NARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Stand %	Plant height in	Sawfly cutting %	Protein %
	+ = new for 2015			LAT	LAT	RCB	LAT	LAT	LAT
			lattice efficiency relative to RCB	244%	129%		112%	142%	166%
14		**Northern**	Montana, 2015	**55.1****	57.4	95.8	29.4	15	**15.0***
5		**CDC Falcon**	Sask/WestBred, 1999	**53.1***	56.8	92.8	27.4	**3***	14.2
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	**52.9***	57.8	97.1	30.1	15	14.2
23		**MT1286**	Yellowstone*2/NE99445	51.4	**58.4***	91.7	29.9	25	14.0
9		**Bearpaw**	Montana, 2011	50.8	56.8	95.4	25.7	**7***	14.2
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	49.9	**59.0****	96.4	28.3	9	14.1
15		**MT1078**	MT02113*4/MTS0359	49.3	56.4	95.4	29.3	23	13.7
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	49.3	57.1	96.4	29.9	18	14.3
13		**WB3768**	Montana/WestBred, 2013	49.2	57.3	94.1	30.0	29	14.4
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	48.3	56.4	93.4	26.5	**7***	**15.2***
17		**MT1138**	W99-194/2*Yellowstone	47.8	56.4	95.5	28.1	16	**14.8***
21	**+**	**MT1257**	Yellowstone/Krichauff	46.7	56.6	97.4	28.7	26	14.5
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	46.7	57.9	95.4	30.0	8	14.0
7		**Rampart**	Montana, 1996	46.7	**58.3***	96.7	29.9	**2***	14.6
3		**Decade**	Montana/North Dakota, 2010	46.6	56.4	97.7	28.4	**4***	**14.7***
1		**Yellowstone**	Montana 2005	46.4	56.7	96.1	29.4	15	14.1
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	46.2	56.5	98.4	25.5	12	**14.8***
19		**MTS0826-63**	MT9524/G15048//Rampart	45.7	56.6	97.7	29.1	**3***	**14.9***
6		**Jerry**	North Dakota, 2001	45.3	55.8	97.0	33.3	13	14.2
10		**Warhorse**	Montana, 2013	44.3	56.7	94.4	28.6	**0****	14.3
8		**WB-Quake**	WestBred, 2011	44.0	56.7	93.8	27.4	**3***	14.3
2		**Judee**	Montana, 2011	43.4	56.9	96.0	25.9	**1***	**15.3****
16		**MT1117**	Yellowstone*3/KS96WGRC40	43.4	56.5	94.7	28.7	15	**15.0***
4		**Genou**	Montana, 2004	42.2	56.9	96.7	31.6	9	**14.9***
12		**Colter**	Montana, 2013	41.4	55.8	93.1	27.1	22	**14.8***
		Average		**47.4**	**57.0**	**95.6**	**28.7**	**11.9**	**14.5**
		LSD (0.05)		**3.4**	**1.0**	**ns**	**2.5**	**8.4**	**0.7**
		C.V. (%)		**3.8**	**1.0**	**3.0**	**4.9**	**38.5**	**2.7**
		P-value (Varieties)		**<.0001**	**<.0001**	**0.3900**	**<.0001**	**<.0001**	**0.0085**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 33. 2015 Off-Station Winter Wheat Test (Exp. 3862): The Knees (WTARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Plant height in	Lodging %	Protein %
		+ = new for 2015		LAT	LAT	RCB	LAT	LAT
			lattice efficiency	115%	128%		106%	118%
17		**MT1138**	W99-194/2*Yellowstone	**77.1****	58.6	34.3	17.7	10.5
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	**73.2***	58.7	32.7	**6.7**	11.5
12		**Colter**	Montana, 2013	**72.1***	59.1	36.3	**15.3**	10.4
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	**71.7***	**60.8****	32.3	**6.7**	10.1
21	**+**	**MT1257**	Yellowstone/Krichauff	**71.1***	58.2	34.3	19.5	11.0
15		**MT1078**	MT02113*4/MTS0359	**70.1***	57.1	33.0	**9.7**	11.1
14		**Northern**	Montana, 2015	**70.0***	59.3	32.3	23.6	11.4
3		**Decade**	Montana/North Dakota, 2010	**69.5***	59.2	33.7	**4.8**	10.2
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	**69.5***	57.8	35.7	23.1	10.5
13		**WB3768**	Montana/WestBred, 2013	**69.5***	59.4	37.0	**14.8**	10.9
19		**MTS0826-63**	MT9524/G15048//Rampart	**69.4***	59.6	36.7	**16.0**	11.3
1		**Yellowstone**	Montana 2005	**68.8***	58.6	33.7	23.2	11.0
10		**Warhorse**	Montana, 2013	**68.7***	59.3	31.3	**9.1**	11.1
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	**67.3***	**60.4***	33.3	**14.5**	11.6
16		**MT1117**	Yellowstone*3/KS96WGRC40	65.8	59.8	34.0	**11.6**	10.7
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	65.5	58.7	33.3	18.2	10.6
23		**MT1286**	Yellowstone*2/NE99445	65.4	59.6	34.3	19.6	11.0
9		**Bearpaw**	Montana, 2011	63.6	58.7	33.3	16.1	11.2
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	62.4	58.5	35.0	18.3	10.6
2		**Judee**	Montana, 2011	59.7	60.0	30.3	**13.8**	11.6
5		**CDC Falcon**	Sask/WestBred, 1999	59.0	58.0	31.7	19.7	11.4
4		**Genou**	Montana, 2004	58.0	59.9	36.3	23.4	10.4
6		**Jerry**	North Dakota, 2001	55.7	58.5	35.7	32.4	11.0
8		**WB-Quake**	WestBred, 2011	55.0	58.9	31.3	**10.8**	12.1
7		**Rampart**	Montana, 1996	52.8	60.1	35.0	**13.1**	11.8
		Average		**66.0**	**59.1**	**33.9**	**16.1**	**11.0**
		LSD (0.05)		**10.5**	**0.7**	**2.7**	**11.2**	**ns**
		C.V. (%)		**8.9**	**0.7**	**4.8**	**39.8**	**5.9**
		P-value (Varieties)		**0.0012**	**<.0001**	**0.0002**	**0.0026**	**0.1078**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 34. 2015 Off-Station Winter Wheat Test (Exp. 3864): Cut Bank (WTARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Plant height in	Protein %
		+ = new for 2015		LAT	RCB	RCB	LAT
			lattice efficiency	171%			131%
13		**WB3768**	Montana/WestBred, 2013	**65.1***	**60.5***	30.4	12.5
21	**+**	**MT1257**	Yellowstone/Krichauff	**64.0***	59.8	30.3	12.4
14		**Northern**	Montana, 2015	**63.6***	**60.8***	28.0	12.8
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	**63.1***	**60.8***	29.3	12.5
1		**Yellowstone**	Montana 2005	**62.5***	59.7	30.0	12.5
23		**MT1286**	Yellowstone*2/NE99445	**61.4***	**61.1***	29.0	12.1
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	**59.5***	**60.5***	27.3	12.6
4		**Genou**	Montana, 2004	**58.7***	58.8	32.0	12.7
12		**Colter**	Montana, 2013	**58.2***	59.9	28.0	12.5
19		**MTS0826-63**	MT9524/G15048//Rampart	**57.9***	59.4	28.0	12.7
16		**MT1117**	Yellowstone*3/KS96WGRC40	**57.3***	**60.8***	30.7	12.6
9		**Bearpaw**	Montana, 2011	**57.2***	58.4	28.3	12.4
17		**MT1138**	W99-194/2*Yellowstone	**56.0***	59.6	29.7	12.2
6		**Jerry**	North Dakota, 2001	**55.9***	59.1	29.0	12.2
3		**Decade**	Montana/North Dakota, 2010	**55.7***	59.7	27.3	12.8
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	**55.6***	60.2	25.3	12.3
15		**MT1078**	MT02113*4/MTS0359	54.3	59.1	26.3	11.8
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	54.1	58.4	26.0	11.6
5		**CDC Falcon**	Sask/WestBred, 1999	53.6	58.3	27.7	12.6
2		**Judee**	Montana, 2011	52.9	**61.2****	26.0	12.6
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	50.0	60.0	29.0	12.9
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	47.6	60.1	30.7	12.5
8		**WB-Quake**	WestBred, 2011	47.4	59.9	27.7	12.1
7		**Rampart**	Montana, 1996	40.7	59.8	26.3	13.2
10		**Warhorse**	Montana, 2013	34.1	60.1	27.3	12.7
		Average		**55.5**	**59.9**	**28.4**	**12.5**
		LSD (0.05)		**10.1**	**0.9**	**3.4**	**ns**
		C.V. (%)		**9.9**	**0.9**	**7.1**	**3.8**
		P-value (Varieties)		**<.0001**	**<.0001**	**0.0167**	**0.2462**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 35. 2015 Off-Station Winter Wheat Test (Exp. 3865): Shelby/Devon (WTARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Plant height in	Protein %
		+ = new for 2015	data not used - chemical damage	LAT	RCB	LAT	LAT
			lattice efficiency relative to RCB	136%		197%	105%
21	+	**MT1257**	Yellowstone/Krichauff	47.6	55.4	27.7	13.1
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	44.7	53.2	30.3	13.2
6		**Jerry**	North Dakota, 2001	43.0	55.5	29.7	13.8
23		**MT1286**	Yellowstone*2/NE99445	42.7	56.6	23.8	13.2
16		**MT1117**	Yellowstone*3/KS96WGRC40	42.1	55.8	26.9	13.0
15		**MT1078**	MT02113*4/MTS0359	41.8	54.1	26.7	12.9
25	+	**Broadview**	Alberta, 2009 (Meridian Seeds)	41.8	54.5	26.6	14.0
5		**CDC Falcon**	Sask/WestBred, 1999	41.3	56.1	26.4	13.6
12		**Colter**	Montana, 2013	41.1	55.0	30.1	13.8
22	+	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	40.8	55.0	24.2	13.4
1		**Yellowstone**	Montana 2005	40.1	55.4	26.7	13.4
14		**Northern**	Montana, 2015	38.9	53.6	27.7	13.8
13		**WB3768**	Montana/WestBred, 2013	38.2	56.8	30.8	13.6
3		**Decade**	Montana/North Dakota, 2010	37.2	57.3	27.3	13.7
24	+	**SY Wolf**	Syngenta (AgriPro), 2010	36.6	57.5	26.6	13.0
8		**WB-Quake**	WestBred, 2011	36.3	54.0	25.9	13.6
20	+	**MTS1224**	Yellowstone//MTS0112/MTS0125	35.6	55.4	24.0	13.2
2		**Judee**	Montana, 2011	34.3	56.6	26.1	13.7
9		**Bearpaw**	Montana, 2011	34.2	56.6	25.5	14.1
10		**Warhorse**	Montana, 2013	32.1	54.8	26.0	14.2
7		**Rampart**	Montana, 1996	31.1	57.5	30.3	14.4
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	30.6	57.9	26.6	12.9
17		**MT1138**	W99-194/2*Yellowstone	29.1	53.4	28.3	14.0
4		**Genou**	Montana, 2004	27.1	55.0	29.2	14.5
19		**MTS0826-63**	MT9524/G15048//Rampart	23.9	56.9	26.8	14.8
		Average		**37.3**	**55.6**	**27.2**	**13.6**
		LSD (0.05)		**ns**	**2.6**	**3.0**	**1.0**
		C.V. (%)		**18.7**	**2.8**	**6.0**	**4.2**
		P-value (Varieties)		**0.0708**	**0.0135**	**0.0005**	**0.0157**

= 1 plot with chemical damage = 2 plots damaged

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 36. 2015 Off-Station Winter Wheat Test (Exp. 3870): Moccasin No-till (CARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Heading date Julian	Plant height in	Disease yellowing (0-9)	Protein %
	+ = new for 2015			RCB	1 rep	RCB	RCB	RCB	bulk
								3-Jun	
23		**MT1286**	Yellowstone*2/NE99445	**47.4****	58.7	161.7	33.4	2.3	12.2
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	**46.5***	55.1	163.3	35.2	1.7	14.2
1		**Yellowstone**	Montana 2005	**46.2***	55.7	162.7	34.7	1.7	13.7
3		**Decade**	Montana/North Dakota, 2010	**45.0***	55.8	160.3	33.5	2.0	12.9
21	**+**	**MT1257**	Yellowstone/Krichauff	**44.9***	56.1	161.7	34.6	1.7	13.6
17		**MT1138**	W99-194/2*Yellowstone	**44.2***	56.3	161.0	34.8	1.7	13.7
13		**WB3768**	Montana/WestBred, 2013	**42.3***	57.4	163.3	38.3	2.0	12.7
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	42.1	54.9	164.0	31.5	1.7	14.0
5		**CDC Falcon**	Sask/WestBred, 1999	41.5	55.2	161.7	29.7	3.0	14.1
16		**MT1117**	Yellowstone*3/KS96WGRC40	41.4	57.4	162.7	34.6	1.0	13.1
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	41.1	57.4	160.0	30.4	3.7	13.0
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	40.8	54.6	162.3	34.8	2.7	13.9
10		**Warhorse**	Montana, 2013	40.8	54.3	161.3	32.2	1.3	13.6
15		**MT1078**	MT02113*4/MTS0359	40.7	53.9	162.3	31.1	4.0	12.6
9		**Bearpaw**	Montana, 2011	38.8	54.6	161.7	32.7	1.0	13.8
14		**Northern**	Montana, 2015	37.9	55.6	162.0	31.0	1.3	13.7
6		**Jerry**	North Dakota, 2001	37.8	54.5	161.3	36.2	1.7	13.3
12		**Colter**	Montana, 2013	37.0	57.7	163.3	35.8	1.7	13.4
8		**WB-Quake**	WestBred, 2011	35.3	54.2	161.7	31.3	2.0	14.1
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	34.7	54.6	161.0	31.2	1.7	13.6
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	32.2	57.2	162.3	32.1	3.3	13.8
2		**Judee**	Montana, 2011	30.8	54.8	162.7	33.1	1.3	14.2
19		**MTS0826-63**	MT9524/G15048//Rampart	29.6	56.3	162.3	33.7	1.7	14.3
26		**MSWW14-001**	CARC addition	25.1	57.2	159.3	36.0	5.0	14.5
4		**Genou**	Montana, 2004	23.8	55.9	162.3	34.1	1.7	14.5
7		**Rampart**	Montana, 1996	22.3	55.2	162.0	35.0	2.3	15.0
		Average		**38.1**	**55.8**	**161.9**	**33.5**	**2.1**	**13.7**
		LSD (0.05)		**6.2**		**1.8**	**2.9**	**1.3**	
		C.V. (%)		**9.8**		**0.7**	**5.2**	**37.6**	
		P-value (Varieties)		**<.0001**		**0.0010**	**<.0001**	**<.0001**	

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 37. 2015 Off-Station Winter Wheat Test (Exp. 3871): Denton (CARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Heading date Julian	Plant height in	Yellow leaf spots	Protein %
		+ = new for 2015		RCB	RCB	RCB	RCB	RCB	bulk
								28-May	
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	**45.7****	**57.5***	159.7	28.2	1.7	10.4
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	**45.2***	56.1	158.3	28.2	1.7	12.3
15		**MT1078**	MT02113*4/MTS0359	**45.0***	53.6	160.3	29.9	3.5	11.6
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	**45.0***	**56.9***	160.3	29.9	2.0	10.8
12		**Colter**	Montana, 2013	**44.0***	**58.1***	159.7	30.8	2.0	11.9
3		**Decade**	Montana/North Dakota, 2010	**43.1***	**56.3***	158.0	28.6	1.3	11.9
17		**MT1138**	W99-194/2*Yellowstone	**42.6***	**56.3***	159.3	31.4	2.7	11.5
13		**WB3768**	Montana/WestBred, 2013	**41.8***	**58.4****	160.3	31.5	2.0	11.2
1		**Yellowstone**	Montana 2005	**39.7***	**56.2***	158.7	30.4	2.3	11.4
14		**Northern**	Montana, 2015	**39.5***	**57.0***	161.3	26.9	2.3	12.3
23		**MT1286**	Yellowstone*2/NE99445	**39.1***	**57.3***	159.7	28.2	2.0	11.1
9		**Bearpaw**	Montana, 2011	**38.4***	54.7	157.3	26.8	1.7	11.2
10		**Warhorse**	Montana, 2013	**38.2***	54.8	159.3	26.0	2.0	12.2
19		**MTS0826-63**	MT9524/G15048//Rampart	**37.7***	55.3	159.3	30.6	3.0	11.7
6		**Jerry**	North Dakota, 2001	**37.3***	55.4	158.3	29.4	2.7	11.8
5		**CDC Falcon**	Sask/WestBred, 1999	**37.2***	55.4	159.0	26.8	2.3	12.0
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	**36.5***	54.5	159.7	30.2	3.0	13.1
8		**WB-Quake**	WestBred, 2011	35.4	55.1	160.7	28.0	1.7	11.3
21	**+**	**MT1257**	Yellowstone/Krichauff	35.2	55.4	160.0	29.4	2.3	11.5
16		**MT1117**	Yellowstone*3/KS96WGRC40	33.8	**56.2***	160.0	28.7	2.0	13.2
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	32.4	**56.8***	159.7	27.7	2.0	11.9
4		**Genou**	Montana, 2004	31.2	**56.6***	158.3	31.0	2.0	11.4
7		**Rampart**	Montana, 1996	29.2	54.9	158.3	30.3	2.0	13.7
26		**MSWW14-001**	CARC addition	28.5	**58.3***	157.3	34.1	3.0	11.5
2		**Judee**	Montana, 2011	28.2	**57.4***	159.7	26.5	2.0	11.3
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	24.4	**57.2***	160.7	28.7	2.7	11.0
		Average		**37.5**	**56.2**	**159.4**	**29.2**	**2.2**	**11.7**
		LSD (0.05)		**9.4**	**2.2**	**1.1**	**3.1**	**0.9**	
		C.V. (%)		**15.4**	**1.9**	**0.4**	**6.6**	**25.5**	
		P-value (Varieties)		**0.0003**	**0.0065**	**<.0001**	**0.0006**	**0.0034**	

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 38. 2015 Off-Station Winter Wheat Test (Exp. 3872): Geraldine (CARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac RCB	Test weight lb/bu RCB	Heading date Julian RCB	Plant height in RCB	Yelow leaves (1-9) RCB	Lodging % RCB	Broken stems[1/] % RCB	Protein % bulk
	+ = new for 2015										
1		**Yellowstone**	Montana 2005	**86.7****	**60.8***	157.3	34.7	3.3	0	15	11.6
17		**MT1138**	W99-194/2*Yellowstone	**83.0***	**60.9***	157.0	34.4	3.7	3	2	11.8
16		**MT1117**	Yellowstone*3/KS96WGRC40	**82.9***	**62.0****	158.0	35.8	3.0	0	9	12.0
21	**+**	**MT1257**	Yellowstone/Krichauff	**82.5***	**60.1***	157.0	34.1	2.7	0	4	12.0
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	**82.2***	**61.2***	150.0	31.8	3.7	2	1	12.6
12		**Colter**	Montana, 2013	**81.1***	**61.2***	158.7	34.0	4.3	0	4	11.2
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	**81.0***	**61.8***	159.0	34.7	4.3	0	2	13.2
9		**Bearpaw**	Montana, 2011	**80.5***	59.0	155.7	32.3	2.3	17	1	12.8
15		**MT1078**	MT02113*4/MTS0359	**80.0***	57.9	157.7	31.8	5.3	0	2	12.0
23		**MT1286**	Yellowstone*2/NE99445	**79.6***	**61.2***	157.0	33.7	4.0	0	2	12.8
13		**WB3768**	Montana/WestBred, 2013	**79.5***	**60.9***	160.0	36.5	2.3	0	5	12.1
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	**78.2***	**60.5***	158.7	35.0	2.7	2	3	12.5
2		**Judee**	Montana, 2011	**77.7***	**62.0****	155.0	30.9	2.3	0	1	12.7
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	**77.3***	58.8	158.7	32.5	1.7	3	6	12.1
19		**MTS0826-63**	MT9524/G15048//Rampart	**76.6***	**60.3***	159.3	35.4	2.7	7	1	12.1
14		**Northern**	Montana, 2015	75.8	58.6	159.0	33.6	2.3	0	3	12.3
3		**Decade**	Montana/North Dakota, 2010	74.9	**60.1***	156.3	32.3	1.7	2	88	11.9
6		**Jerry**	North Dakota, 2001	74.8	59.3	158.0	37.3	2.3	0	4	12.3
8		**WB-Quake**	WestBred, 2011	74.8	**59.9***	157.0	35.1	2.3	0	1	12.8
5		**CDC Falcon**	Sask/WestBred, 1999	73.2	59.4	156.7	30.4	5.3	0	2	12.2
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	72.8	**59.9***	157.7	34.8	3.7	0	6	12.7
10		**Warhorse**	Montana, 2013	71.7	59.6	158.0	32.8	4.3	0	1	13.0
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	66.1	**59.8***	158.0	33.2	3.7	1	2	14.1
4		**Genou**	Montana, 2004	64.7	**61.0***	156.7	31.6	3.0	23	1	12.6
7		**Rampart**	Montana, 1996	63.6	**61.2***	157.3	35.8	2.7	15	2	13.1
27		**Broadview (#2)**	CARC addition	59.8	58.9	158.7	31.8	4.0	8	3	13.5
26		**MSWW14-001**	CARC addition	57.2	**61.1***	155.3	38.8	5.0	0	2	14.1
		Average		**75.5**	**60.2**	**157.3**	**33.9**	**3.3**	**3.0**	**6.3**	**12.5**
		LSD (0.05)		**10.6**	**1.3**	**1.1**	**2.4**	**1.7**	**12.1**	**7.9**	
		C.V. (%)		**8.6**	**1.0**	**0.4**	**4.3**	**32.3**	**243**	**77**	
		P-value (Varieties)		**<.0001**	**<.0001**	**<.0001**	**<.0001**	**0.0005**	**0.0196**	**<.0001**	

1/ - may be due to a combination of hessian fly, powdery mildey, stripe rust, fusarium root rot, etc.

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 39. 2015 Off-Station Winter Wheat Test (Exp. 3874): Wininfred (CARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Heading date Julian	Plant height in	Yellow leaf spots	Protein %
	+ = new for 2015			RCB	RCB	RCB	RCB	RCB	bulk
								28-May	
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	**64.8****	57.9	162.0	30.2	2.3	9.0
15		**MT1078**	MT02113*4/MTS0359	**60.5***	55.4	162.0	29.7	6.0	9.4
1		**Yellowstone**	Montana 2005	**59.5***	57.2	159.7	31.2	4.3	8.9
3		**Decade**	Montana/North Dakota, 2010	**59.3***	55.8	159.0	31.9	2.3	9.4
5		**CDC Falcon**	Sask/WestBred, 1999	**55.9***	55.3	161.0	26.9	4.7	8.7
21	**+**	**MT1257**	Yellowstone/Krichauff	**55.7***	54.3	159.0	31.6	4.0	8.2
12		**Colter**	Montana, 2013	**55.6***	56.3	160.3	31.4	4.0	10.3
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	**54.5***	53.9	161.3	30.2	4.3	8.4
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	**54.2***	55.7	159.3	29.3	3.3	10.3
14		**Northern**	Montana, 2015	**53.3***	54.7	163.0	26.8	3.3	8.5
8		**WB-Quake**	WestBred, 2011	**53.3***	57.1	161.7	28.1	2.0	8.4
23		**MT1286**	Yellowstone*2/NE99445	**51.8***	57.0	160.0	28.5	4.7	8.8
9		**Bearpaw**	Montana, 2011	50.5	56.8	160.0	28.0	2.3	8.6
26		**MSWW14-001**	CARC addition	50.4	58.5	158.3	35.3	5.7	9.4
10		**Warhorse**	Montana, 2013	49.4	55.0	160.7	29.1	2.3	10.2
16		**MT1117**	Yellowstone*3/KS96WGRC40	49.3	56.7	160.7	31.5	4.0	9.4
6		**Jerry**	North Dakota, 2001	48.1	54.0	160.0	31.6	2.3	9.7
13		**WB3768**	Montana/WestBred, 2013	48.1	56.0	163.3	32.4	3.0	9.6
17		**MT1138**	W99-194/2*Yellowstone	47.6	54.0	160.0	27.4	5.7	8.5
19		**MTS0826-63**	MT9524/G15048//Rampart	47.5	57.3	161.3	34.4	3.0	10.0
2		**Judee**	Montana, 2011	45.5	57.0	160.7	29.4	2.7	8.7
4		**Genou**	Montana, 2004	44.8	56.8	161.0	34.3	2.3	9.2
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	43.7	58.2	162.0	29.5	4.0	9.5
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	41.6	53.5	159.7	28.0	2.3	10.7
7		**Rampart**	Montana, 1996	39.4	55.3	160.3	31.9	2.7	10.9
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	38.5	54.0	160.7	31.4	6.3	9.5
		Average		**50.9**	**55.9**	**160.7**	**30.4**	**3.6**	**9.3**
		LSD (0.05)		**13.9**	**ns**	**1.5**	**4.2**	**1.5**	
		C.V. (%)		**16.7**	**3.1**	**0.6**	**8.5**	**0.6**	
		P-value (Varieties)		**0.0405**	**0.1738**	**<.0001**	**0.0053**	**<.0001**	

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 40. 2015 Off-Station Winter Wheat Test (Exp. 3875): Belt (CARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Plant height in	Protein %
	+ = new for 2015			RCB	RCB	RCB	bulk
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	**58.8****	**55.5***	27.4	9.5
13		**WB3768**	Montana/WestBred, 2013	**58.7***	**56.1***	31.1	9.3
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	**57.0***	**56.6***	30.3	10.0
19		**MTS0826-63**	MT9524/G15048//Rampart	**56.4***	**55.3***	32.3	9.9
6		**Jerry**	North Dakota, 2001	**55.8***	53.4	30.5	10.7
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	**54.6***	**56.9****	30.1	10.0
5		**CDC Falcon**	Sask/WestBred, 1999	**54.2***	54.2	27.9	10.8
1		**Yellowstone**	Montana 2005	**53.6***	**54.7***	27.5	9.8
9		**Bearpaw**	Montana, 2011	**53.2***	52.9	27.6	10.4
12		**Colter**	Montana, 2013	**53.2***	**55.9***	28.3	9.7
17		**MT1138**	W99-194/2*Yellowstone	**51.4***	54.5	28.6	10.0
21	**+**	**MT1257**	Yellowstone/Krichauff	**51.4***	52.9	29.5	10.6
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	**51.4***	53.7	28.6	10.4
14		**Northern**	Montana, 2015	**50.2***	52.7	26.8	11.8
16		**MT1117**	Yellowstone*3/KS96WGRC40	**49.7***	**56.3***	28.1	10.4
26		**MSWW14-001**	CARC addition	**49.7***	54.2	29.7	12.3
23		**MT1286**	Yellowstone*2/NE99445	**48.9***	54.3	27.4	10.5
10		**Warhorse**	Montana, 2013	**47.8***	54.2	27.2	10.5
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	45.5	54.0	26.3	9.9
27		**Broadview (#2)**	CARC addition	44.5	54.2	32.2	12.7
3		**Decade**	Montana/North Dakota, 2010	43.7	53.2	27.0	10.7
4		**Genou**	Montana, 2004	42.8	**55.1***	30.2	10.2
15		**MT1078**	MT02113*4/MTS0359	41.6	52.2	28.4	11.8
7		**Rampart**	Montana, 1996	41.4	54.2	29.3	11.4
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	41.0	52.9	26.4	9.9
2		**Judee**	Montana, 2011	36.6	**54.7***	25.8	11.3
8		**WB-Quake**	WestBred, 2011	27.1	54.3	24.0	10.7
		Average		**40.5**	**54.4**	**28.5**	**10.6**
		LSD (0.05)		**12.2**	**2.3**	**3.4**	
		C.V. (%)		**12.1**	**2.1**	**5.8**	
		P-value (Varieties)		**0.0028**	**0.0104**	**0.0054**	

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 41. 2015 Off-Station Winter Wheat Test (Exp. 3887): Hardin (SARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Plant height in	Protein %
	+ = new for 2015						bulk
12		**Colter**	Montana, 2013	**51.4****	54.2	34.3	14.8
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	**51.0***	53.2	32.9	15.4
16		**MT1117**	Yellowstone*3/KS96WGRC40	**49.3***	54.3	34.1	14.6
3		**Decade**	Montana/North Dakota, 2010	**49.0***	54.1	30.3	14.1
1		**Yellowstone**	Montana 2005	**46.9***	53.0	34.6	15.3
14		**Northern**	Montana, 2015	**46.0***	52.9	32.0	15.8
17		**MT1138**	W99-194/2*Yellowstone	**45.2***	51.7	32.5	14.6
13		**WB3768**	Montana/WestBred, 2013	**45.2***	53.9	30.8	15.7
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	**44.2***	**57.5****	29.0	14.1
15		**MT1078**	MT02113*4/MTS0359	**44.0***	52.0	32.5	14.6
9		**Bearpaw**	Montana, 2011	**43.3***	53.5	30.8	14.5
23		**MT1286**	Yellowstone*2/NE99445	**43.2***	53.7	34.4	15.0
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	**43.1***	52.7	33.6	14.5
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	**41.4***	48.9	34.1	15.2
5		**CDC Falcon**	Sask/WestBred, 1999	**40.8***	52.3	28.5	15.3
6		**Jerry**	North Dakota, 2001	40.1	53.2	34.3	14.9
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	37.1	51.3	31.4	15.0
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	36.1	49.8	29.3	15.7
2		**Judee**	Montana, 2011	35.5	52.7	31.9	14.7
21	**+**	**MT1257**	Yellowstone/Krichauff	34.5	50.5	31.6	15.5
10		**Warhorse**	Montana, 2013	33.0	54.3	31.0	14.9
7		**Rampart**	Montana, 1996	29.2	54.4	34.1	15.8
19		**MTS0826-63**	MT9524/G15048//Rampart	28.1	53.8	29.1	15.6
4		**Genou**	Montana, 2004	27.2	51.5	34.0	16.0
8		**WB-Quake**	WestBred, 2011	24.7	52.4	31.0	15.0
		Average		**40.4**	**52.9**	**32.1**	**15.1**
		LSD (0.05)		**11.2**	**2.7**	**ns**	
		C.V. (%)		**17.0**	**2.8**	**8.3**	
		P-value (Varieties)					

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 42. 2015 Off-Station Winter Wheat Test (Exp. 3881): Rapelje (SARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Plant height in	Protein %
	+ = new for 2015						bulk
16		**MT1117**	Yellowstone*3/KS96WGRC40	**88.7****	**61.2***	37.8	11.4
21	+	**MT1257**	Yellowstone/Krichauff	**87.8***	**60.1***	37.2	11.1
17		**MT1138**	W99-194/2*Yellowstone	**86.9***	**60.7***	36.9	10.0
22	+	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	**86.2***	**60.2***	38.3	11.8
1		**Yellowstone**	Montana 2005	**86.2***	**60.2***	37.6	10.5
12		**Colter**	Montana, 2013	**85.1***	**60.2***	37.8	11.5
15		**MT1078**	MT02113*4/MTS0359	**85.1***	59.1	34.3	11.0
23		**MT1286**	Yellowstone*2/NE99445	**84.7***	**61.1***	36.5	11.9
13		**WB3768**	Montana/WestBred, 2013	**84.0***	**60.5***	38.8	11.6
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	**82.2***	**60.1***	36.1	12.3
6		**Jerry**	North Dakota, 2001	**80.7***	59.4	42.4	11.9
25	+	**Broadview**	Alberta, 2009 (Meridian Seeds)	**80.2***	58.6	34.7	12.6
14		**Northern**	Montana, 2015	**79.6***	59.0	35.7	12.3
24	+	**SY Wolf**	Syngenta (AgriPro), 2010	**79.1***	**61.5****	35.1	11.2
20	+	**MTS1224**	Yellowstone//MTS0112/MTS0125	**77.7***	59.3	33.9	12.0
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	76.4	59.4	39.2	11.5
5		**CDC Falcon**	Sask/WestBred, 1999	75.9	**60.1***	33.2	10.7
10		**Warhorse**	Montana, 2013	71.0	58.9	34.4	13.0
3		**Decade**	Montana/North Dakota, 2010	70.2	**59.8***	35.7	10.7
9		**Bearpaw**	Montana, 2011	68.7	**59.8***	35.0	11.7
19		**MTS0826-63**	MT9524/G15048//Rampart	66.0	**60.9***	37.0	12.6
2		**Judee**	Montana, 2011	65.8	59.5	32.9	12.3
8		**WB-Quake**	WestBred, 2011	64.7	**60.4***	32.6	11.3
4		**Genou**	Montana, 2004	62.4	**60.9***	39.1	11.4
7		**Rampart**	Montana, 1996	57.3	58.6	38.1	13.4
		Average		**77.3**	**60.0**	**36.4**	**11.7**
		LSD (0.05)		**11.6**	**1.7**	**2.8**	
		C.V. (%)		**7.6**	**1.5**	**3.4**	
		P-value (Varieties)					

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 43. 2015 Off-Station Winter Wheat Test (Exp. 3882): Hysham (SARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Plant height in	Protein %
	+ = new for 2015						bulk
15		**MT1078**	MT02113*4/MTS0359	**58.6****	**62.0***	34.3	13.0
17		**MT1138**	W99-194/2*Yellowstone	**55.0***	**62.6***	37.4	13.3
1		**Yellowstone**	Montana 2005	**54.1***	**62.3***	36.5	13.8
23		**MT1286**	Yellowstone*2/NE99445	**53.0***	**62.8***	36.2	13.3
19		**MTS0826-63**	MT9524/G15048//Rampart	52.4	**62.1***	34.1	13.7
3		**Decade**	Montana/North Dakota, 2010	52.0	**62.7***	34.5	14.0
9		**Bearpaw**	Montana, 2011	51.8	**62.4***	33.1	13.9
14		**Northern**	Montana, 2015	51.8	60.8	33.7	13.5
12		**Colter**	Montana, 2013	51.7	**62.9***	37.3	13.5
22	+	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	51.5	**62.2***	36.9	13.4
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	51.5	61.8	38.6	13.6
25	+	**Broadview**	Alberta, 2009 (Meridian Seeds)	51.4	61.0	31.8	13.6
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	51.1	60.9	35.3	14.3
4		**Genou**	Montana, 2004	51.0	**62.3***	36.6	14.1
13		**WB3768**	Montana/WestBred, 2013	50.9	61.6	38.1	13.2
24	+	**SY Wolf**	Syngenta (AgriPro), 2010	50.7	**63.6****	34.6	13.6
21	+	**MT1257**	Yellowstone/Krichauff	49.9	61.5	36.0	14.2
20	+	**MTS1224**	Yellowstone//MTS0112/MTS0125	49.9	61.3	29.3	14.7
10		**Warhorse**	Montana, 2013	49.5	**62.3***	32.8	13.3
6		**Jerry**	North Dakota, 2001	48.7	**62.0***	39.0	13.6
2		**Judee**	Montana, 2011	47.5	**63.4***	32.5	14.4
7		**Rampart**	Montana, 1996	47.2	**62.6***	38.7	14.4
8		**WB-Quake**	WestBred, 2011	47.0	**62.2***	32.5	13.7
16		**MT1117**	Yellowstone*3/KS96WGRC40	46.7	61.7	36.0	14.1
5		**CDC Falcon**	Sask/WestBred, 1999	45.5	**63.0***	30.6	13.3
		Average		**50.8**	**62.2**	**35.0**	**13.7**
		LSD (0.05)		**6.1**	**1.6**	**1.8**	
		C.V. (%)		**5.5**	**1.6**	**3.1**	
		P-value (Varieties)					

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 44. 2015 Off-Station Winter Wheat Test (Exp. 3884): Fly Creek (Hardin Area, SARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Plant height in	Protein %
	+ = new for 2015						bulk
15		**MT1078**	MT02113*4/MTS0359	74.7	58.3	36.2	11.8
17		**MT1138**	W99-194/2*Yellowstone	68.5	60.0	39.5	13.0
13		**WB3768**	Montana/WestBred, 2013	67.2	59.3	42.4	12.9
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	67.0	59.4	41.5	13.2
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	66.5	59.4	40.5	13.5
21	**+**	**MT1257**	Yellowstone/Krichauff	65.9	59.5	39.0	13.1
9		**Bearpaw**	Montana, 2011	65.8	59.9	35.7	12.5
5		**CDC Falcon**	Sask/WestBred, 1999	64.7	59.3	36.8	13.5
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	64.1	59.0	40.9	14.1
19		**MTS0826-63**	MT9524/G15048//Rampart	63.8	58.5	38.4	13.6
23		**MT1286**	Yellowstone*2/NE99445	63.0	60.0	41.1	13.3
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	62.8	58.2	33.9	13.3
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	62.5	60.0	36.4	13.7
14		**Northern**	Montana, 2015	62.4	58.9	34.5	13.7
12		**Colter**	Montana, 2013	62.0	60.0	41.8	13.5
2		**Judee**	Montana, 2011	61.6	**61.3****	36.6	14.3
10		**Warhorse**	Montana, 2013	60.5	60.1	35.1	13.8
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	60.0	59.4	38.5	13.0
16		**MT1117**	Yellowstone*3/KS96WGRC40	59.8	**60.4***	40.5	13.0
8		**WB-Quake**	WestBred, 2011	59.6	59.6	37.3	12.9
6		**Jerry**	North Dakota, 2001	58.9	58.0	40.2	14.1
7		**Rampart**	Montana, 1996	58.3	58.7	38.9	14.3
4		**Genou**	Montana, 2004	58.2	59.7	41.0	13.4
3		**Decade**	Montana/North Dakota, 2010	58.0	58.8	35.9	13.9
1		**Yellowstone**	Montana 2005	57.8	59.7	40.5	14.4
		Average		**63.0**	**59.4**	**38.5**	**13.4**
		LSD (0.05)		**ns**	**1.0**	**3.7**	
		C.V. (%)		**7.9**	**1.0**	**5.8**	
		P-value (Varieties)					

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 45. 2015 Off-Station Winter Wheat Test (Exp. 3885): Molt (SARC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Plant height in	Protein %
	+ = new for 2015						bulk
14		**Northern**	Montana, 2015	83.0	**62.6***	36.6	10.0
13		**WB3768**	Montana/WestBred, 2013	80.6	61.5	39.2	9.7
22	**+**	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	80.1	61.1	37.8	9.9
25	**+**	**Broadview**	Alberta, 2009 (Meridian Seeds)	79.2	**63.4***	36.4	10.2
2		**Judee**	Montana, 2011	79.2	**62.7***	32.5	10.0
17		**MT1138**	W99-194/2*Yellowstone	79.0	**62.5***	37.1	9.6
23		**MT1286**	Yellowstone*2/NE99445	78.8	**62.9***	37.0	9.5
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	78.0	**62.8***	36.7	10.9
9		**Bearpaw**	Montana, 2011	77.8	**63.3***	35.0	10.1
5		**CDC Falcon**	Sask/WestBred, 1999	77.7	**63.0***	32.2	10.1
24	**+**	**SY Wolf**	Syngenta (AgriPro), 2010	77.1	**62.7***	32.3	10.5
20	**+**	**MTS1224**	Yellowstone//MTS0112/MTS0125	75.8	**62.7***	32.5	10.4
15		**MT1078**	MT02113*4/MTS0359	75.7	60.8	35.2	9.3
16		**MT1117**	Yellowstone*3/KS96WGRC40	74.7	60.9	36.4	10.3
8		**WB-Quake**	WestBred, 2011	74.7	**63.2***	35.6	9.4
1		**Yellowstone**	Montana 2005	74.3	61.8	36.1	9.7
12		**Colter**	Montana, 2013	74.1	60.3	36.1	10.0
10		**Warhorse**	Montana, 2013	73.9	**62.8***	35.8	10.5
21	**+**	**MT1257**	Yellowstone/Krichauff	71.4	**62.5***	36.6	10.0
3		**Decade**	Montana/North Dakota, 2010	71.0	**63.2***	36.0	10.2
19		**MTS0826-63**	MT9524/G15048//Rampart	70.9	**63.8***	37.0	10.2
4		**Genou**	Montana, 2004	69.2	**64.0****	38.3	10.4
7		**Rampart**	Montana, 1996	69.0	61.9	39.0	11.1
6		**Jerry**	North Dakota, 2001	68.3	62.0	38.7	10.6
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	66.8	61.5	36.4	9.8
		Average		**75.2**	**62.4**	**36.1**	**10.1**
		LSD (0.05)		**ns**	**1.8**	**2.5**	
		C.V. (%)		**8.2**	**1.7**	**4.2**	
		P-value (Varieties)					

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 46. 2015 Off-Station Winter Wheat Test (Exp. 3891): Williston Dryland (WREC)

Entry		Cultivar/Line	Origin/Pedigree	Yield bu/ac	Test weight lb/bu	Winter survival % 20-May	Winter survival % WREC	Heading date from Jan1	Plant height in	Protein %
	+ = new for 2015			LAT	LAT	LAT	LAT	LAT	RCB	bulk
		lattice efficiency		131%	107%	114%	105%	117%		
5		**CDC Falcon**	Sask/WestBred, 1999	**56.7****	61.5	**63.4***	**98.3**	156.0	26.0	9.8
12		**Colter**	Montana, 2013	**56.2***	61.9	**57.9***	**98.5**	159.3	27.6	10.5
25	+	**Broadview**	Alberta, 2009 (Meridian Seeds)	**55.4***	61.2	**67.2***	**98.6****	156.0	26.1	9.9
21	+	**MT1257**	Yellowstone/Krichauff	**53.3***	61.1	42.8	**93.2**	157.8	28.1	10.9
13		**WB3768**	Montana/WestBred, 2013	**50.7***	61.9	41.8	**95.1**	158.4	29.2	10.7
6		**Jerry**	North Dakota, 2001	**50.2***	60.6	**68.9****	**95.5**	156.1	27.4	10.0
1		**Yellowstone**	Montana 2005	**49.9***	61.2	**52.3***	**96.3**	157.2	27.5	10.1
17		**MT1138**	W99-194/2*Yellowstone	**49.8***	61.0	47.6	**92.5**	156.8	28.0	10.6
16		**MT1117**	Yellowstone*3/KS96WGRC40	**49.7***	61.6	**56.2***	**94.2**	156.8	29.0	10.7
23		**MT1286**	Yellowstone*2/NE99445	**49.6***	61.7	38.4	**88.0**	157.7	27.7	10.4
3		**Decade**	Montana/North Dakota, 2010	**48.2***	**62.0***	**51.8***	**95.1**	155.9	26.5	11.1
4		**Genou**	Montana, 2004	47.5	61.2	42.0	**92.4**	157.4	28.2	11.7
11		**SY Clearstone 2CL**	Montana/Syngenta, 2012	45.9	60.5	40.9	**94.2**	157.8	28.7	11.5
14		**Northern**	Montana, 2015	45.3	61.5	43.9	**92.9**	159.7	24.8	10.5
20	+	**MTS1224**	Yellowstone//MTS0112/MTS0125	44.0	**62.0***	44.7	**82.5**	159.2	22.6	11.0
22	+	**MT1265**	Yellowstone*4/KS96WGRC40 (Lr41,	41.6	61.0	33.6	**79.8**	159.5	28.0	10.8
15		**MT1078**	MT02113*4/MTS0359	41.4	60.3	28.2	**78.7**	159.5	27.9	10.5
19		**MTS0826-63**	MT9524/G15048//Rampart	40.5	61.3	**52.1***	**91.5**	159.1	28.8	11.3
9		**Bearpaw**	Montana, 2011	40.5	61.5	43.2	**94.6**	156.0	26.4	10.6
18		**MTCS1204**	MTCL0510/4/Paul/3/98X96C16cl/CD	39.3	61.8	31.9	66.8	158.7	28.0	11.0
8		**WB-Quake**	WestBred, 2011	38.6	61.8	35.1	**85.4**	159.3	25.6	10.6
24	+	**SY Wolf**	Syngenta (AgriPro), 2010	38.5	**62.3***	35.7	**92.5**	156.6	25.5	11.1
7		**Rampart**	Montana, 1996	37.5	**62.0***	17.6	67.6	159.1	28.6	11.7
10		**Warhorse**	Montana, 2013	36.3	61.2	37.8	**81.0**	159.2	25.6	10.4
2		**Judee**	Montana, 2011	31.3	**62.6****	20.2	40.7	159.9	25.1	11.8
		Average		**45.5**	**61.5**	**43.8**	**87.4**	**157.9**	**27.1**	**10.8**
		LSD (0.05)		**8.8**	**0.7**	**17.0**	**20.7**	**1.2**	**1.3**	
		C.V. (%)		**10.7**	**0.6**	**21.7**	**13.6**	**0.4**	**2.8**	
		P-value (Varieties)		**<.0001**	**<.0001**	**<.0001**	**0.0005**	**<.0001**	**<.0001**	

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 47. 2015 Off-Station Winter Wheat Test (Exp. 38): Multi-Location Yield (bu/a)

Cultivar/Line + = new for 2015	Turner NARC LAT	Loma NARC LAT	Knees WTARC LAT	Cut Bank LAT	Devon/ Shelby WTARC chem.	Choteau WTARC no	Mocc. No-Till RCB	Denton CARC RCB	Gerald- ine RCB	Wini- fred RCB	Belt CARC RCB	Hardin SARC	Rapelje SARC	Hysham SARC	Fly Cr/ Hardin SARC	Molt SARC	Ft Smith SARC no	Willis- ton LAT	15 Loc. Average
	209%	244%	115%	171%	damage	harvest											harvest	131%	
+ **MT1265**	41.8	**52.9***	62.4	**63.1***			**46.5***	**45.0***	**78.2***	**54.5***	**58.8****	**51.0***	**86.2***	51.5	67.0	80.1		41.6	**58.7****
MT1138	42.7	47.8	**77.1****	**56.0***			**44.2***	**42.6***	**83.0***	47.6	**51.4***	**45.2***	**86.9***	**55.0***	68.5	79.0		**49.8***	**58.5***
WB3768	**45.3***	49.2	**69.5***	**65.1***			**42.3***	**41.8***	**79.5***	48.1	**58.7***	**45.2***	**84.0***	50.9	67.2	80.6		**50.7***	**58.5***
Yellowstone	39.1	46.4	**68.8***	**62.5***			**46.2***	**39.7***	**86.7****	**59.5***	**53.6***	**46.9***	**86.2***	**54.1***	57.8	74.3		**49.9***	**58.1***
Colter	43.1	41.4	**72.1***	**58.2***			37.0	**44.0***	**81.1***	**55.6***	**53.2***	**51.4****	**85.1***	51.7	62.0	74.1		**56.2***	**57.7***
MT1078	**44.0***	49.3	**70.1***	54.3			40.7	**45.0***	**80.0***	**60.5***	41.6	**44.0***	**85.1***	**58.6****	74.7	75.7		41.4	**57.7***
MT1286	**47.2****	51.4	65.4	**61.4***			**47.4****	**39.1***	**79.6***	**51.8***	**48.9***	**43.2***	**84.7***	**53.0***	63.0	78.8		**49.6***	**57.6***
+ **MT1257**	**43.5***	46.7	**71.1***	**64.0***			**44.9***	35.2	**82.5***	**55.7***	**51.4***	34.5	**87.8***	49.9	65.9	71.4		**53.3***	**57.2***
Northern	38.9	**55.1****	**70.0***	**63.6***			37.9	**39.5***	75.8	**53.3***	**50.2***	**46.0***	**79.6***	51.8	62.4	83.0		45.3	**56.8***
+ **SY Wolf**	39.2	49.9	**71.7***	**59.5***			41.1	32.4	**82.2***	**54.2***	**57.0***	**44.2***	**79.1***	50.7	62.5	77.1		38.5	**56.0***
+ **MTS1224**	38.3	46.2	**73.2***	**55.6***			42.1	**45.7****	**77.3***	**64.8****	45.5	36.1	**77.7***	49.9	62.8	75.8		44.0	**55.7***
MT1117	40.7	43.4	65.8	**57.3***			41.4	33.8	**82.9***	49.3	**49.7***	**49.3***	**88.7****	46.7	59.8	74.7		**49.7***	**55.5***
CDC Falcon	40.5	**53.1***	59.0	53.6			41.5	**37.2***	73.2	**55.9***	**54.2***	**40.8***	75.9	45.5	64.7	77.7		**56.7****	**55.3***
Decade	41.8	46.6	**69.5***	**55.7***			**45.0***	**43.1***	74.9	**59.3***	43.7	**49.0***	70.2	52.0	58.0	71.0		**48.2***	**55.2***
Bearpaw	38.6	50.8	63.6	**57.2***			38.8	**38.4***	**80.5***	50.5	**53.2***	**43.3***	68.7	51.8	65.8	77.8		40.5	54.6
+ **Broadview**	**44.6***	48.3	65.5	54.1			34.7	**45.2***	66.1	41.6	41.0	**43.1***	**80.2***	51.4	64.1	79.2		**55.4***	54.3
Jerry	38.2	45.3	55.7	**55.9***			37.8	**37.3***	74.8	48.1	**55.8***	40.1	**80.7***	48.7	58.9	68.3		**50.2***	53.1
SY Clearstone 2CI	39.6	49.3	**69.5***	50.0			40.8	**36.5***	72.8	38.5	**51.4***	37.1	76.4	51.5	66.5	66.8		45.9	52.8
MTS0826-63	42.7	45.7	**69.4***	**57.9***			29.6	**37.7***	**76.6***	47.5	**56.4***	28.1	66.0	52.4	63.8	70.9		40.5	52.3
MTCS1204	33.7	46.7	**67.3***	47.6			32.2	24.4	**81.0***	43.7	**54.6***	**41.4***	**82.2***	51.1	60.0	78.0		39.3	52.2
Warhorse	36.2	44.3	**68.7***	34.1			40.8	**38.2***	71.7	49.4	**47.8***	33.0	71.0	49.5	60.5	73.9		36.3	50.4
Judee	36.8	43.4	59.7	52.9			30.8	28.2	**77.7***	45.5	36.6	35.5	65.8	47.5	61.6	79.2		31.3	48.8
Genou	40.3	42.2	58.0	**58.7***			23.8	31.2	64.7	44.8	42.8	27.2	62.4	51.0	58.2	69.2		47.5	48.1
WB-Quake	37.8	44.0	55.0	47.4			35.3	35.4	74.8	**53.3***	27.1	24.7	64.7	47.0	59.6	74.7		38.6	48.0
Rampart	34.3	46.7	52.8	40.7			22.3	29.2	63.6	39.4	41.4	29.2	57.3	47.2	58.3	69.0		37.5	44.6
Average	**40.3**	**47.4**	**66.0**	**55.5**			**38.1**	**37.5**	**75.5**	**50.9**	**40.0**	**40.4**	**77.3**	**50.8**	**63.0**	**75.2**		**45.5**	**54.3**
LSD (0.05)	**4.0**	**3.4**	**10.5**	**10.1**			**6.2**	**9.4**	**10.6**	**13.9**	**12.2**	**11.2**	**11.6**	**6.1**	**ns**	**ns**		**8.8**	**3.5**
C.V. (%)	**5.4**	**3.8**	**8.9**	**9.9**			**9.8**	**15.4**	**8.6**	**16.7**	**12.1**	**17.0**	**7.6**	**5.5**	**7.9**	**8.2**		**10.7**	**9.0**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 48. 2015 Off-Station Winter Wheat Test (Exp. 38): Multi-Location Test weight (lb/bu)

Cultivar/Line + = new for 2015	Turner NARC LAT	Loma NARC LAT	Knees WTARC LAT	Cut Bank RCB	Shelby WTARC chem.	Devon/ Choteau WTARC no	Mocc. No-Till 1 rep	Denton CARC RCB	Gerald-ine RCB	Wini-fred RCB	Belt CARC	Hardin SARC	Rapelje SARC	Hysham SARC	Fly Cr/ Hardin SARC	Molt SARC	Ft Smith SARC no	Willis-ton LAT	15 Loc. Average
	256%	129%	128%		damage	harvest											harvest	107%	
+ **SY Wolf**	59.1	**59.0****	**60.8****	**60.5***			57.4	**56.8***	**61.2***	55.7	**56.6***	**57.5****	**61.5****	**63.6****	60.0	**62.7***		**62.3***	**59.6****
MT1286	59.5	**58.4***	59.6	**61.1***			58.7	**57.3***	**61.2***	57.0	54.3	53.7	**61.1***	**62.8***	60.0	**62.9***		61.7	**59.3***
Judee	**60.8****	56.9	60.0	**61.2****			54.8	**57.4***	**62.0****	57.0	**54.7***	52.7	59.5	**63.4***	**61.3****	**62.7***		**62.6****	**59.1***
MT1117	60.2	56.5	59.8	**60.8***			57.4	**56.2***	**62.0****	56.7	**56.3***	54.3	**61.2***	61.7	**60.4***	60.9		61.6	**59.1***
WB3768	59.8	57.3	59.4	**60.5***			57.4	**58.4****	**60.9***	56.0	**56.1***	53.9	**60.5***	61.6	59.3	61.5		61.9	59.0
Colter	59.9	55.8	59.1	59.9			57.7	**58.1***	**61.2***	56.3	**55.9***	54.2	**60.2***	**62.9***	60.0	60.3		61.9	58.9
MTCS1204	59.5	57.9	**60.4***	60.1			57.2	**57.2***	**61.8***	58.2	**56.9****	48.9	**60.1***	60.9	59.4	**62.8***		61.8	58.9
Genou	59.1	56.9	59.9	58.8			55.9	**56.6***	**61.0***	56.8	**55.1***	51.5	**60.9***	**62.3***	59.7	**64.0****		61.2	58.6
MTS0826-63	58.3	56.6	59.6	59.4			56.3	55.3	**60.3***	57.3	**55.3***	53.8	**60.9***	**62.1***	58.5	**63.8***		61.3	58.6
Yellowstone	59.4	56.7	58.6	59.7			55.7	**56.2***	**60.8***	57.2	**54.7***	53.0	**60.2***	**62.3***	59.7	61.8		61.2	58.5
Decade	59.2	56.4	59.2	59.7			55.8	**56.3***	**60.1***	55.8	53.2	54.1	**59.8***	**62.7***	58.8	**63.2***		**62.0***	58.4
+ **MT1265**	59.6	57.8	58.5	**60.8***			55.1	**56.9***	**60.5***	53.9	**55.5***	53.2	**60.2***	**62.2***	59.4	61.1		61.0	58.4
Rampart	58.4	**58.3***	60.1	59.8			55.2	54.9	**61.2***	55.3	54.2	54.4	58.6	**62.6***	58.7	61.9		**62.0***	58.4
MT1138	59.2	56.4	58.6	59.6			56.3	**56.3***	**60.9***	54.0	54.5	51.7	**60.7***	**62.6***	60.0	**62.5***		61.0	58.3
WB-Quake	58.8	56.7	58.9	59.9			54.2	55.1	**59.9***	57.1	54.3	52.4	**60.4***	**62.2***	59.6	**63.2***		61.8	58.3
Warhorse	59.3	56.7	59.3	60.1			54.3	54.8	59.6	55.0	54.2	54.3	58.9	**62.3***	60.1	**62.8***		61.2	58.2
+ **MTS1224**	59.3	56.5	58.7	60.2			54.9	**57.5***	58.8	57.9	54.0	49.8	59.3	61.3	58.2	**62.7***		**62.0***	58.1
Northern	59.2	57.4	59.3	**60.8***			55.6	**57.0***	58.6	54.7	52.7	52.9	59.0	60.8	58.9	**62.6***		61.5	58.1
Bearpaw	58.2	56.8	58.7	58.4			54.6	54.7	59.0	56.8	52.9	53.5	**59.8***	**62.4***	59.9	**63.3***		61.5	58.0
CDC Falcon	58.8	56.8	58.0	58.3			55.2	55.4	59.4	55.3	54.2	52.3	**60.1***	**63.0***	59.3	**63.0***		61.5	58.0
+ **MT1257**	58.7	56.6	58.2	59.8			56.1	55.4	**60.1***	54.3	52.9	50.5	**60.1***	61.5	59.5	**62.5***		61.1	57.8
+ **Broadview**	58.5	56.4	58.7	58.4			54.6	56.1	**59.8***	53.5	52.9	52.7	58.6	61.0	59.0	**63.4***		61.2	57.7
SY Clearstone 2CI	59.3	57.1	57.8	60.0			54.6	54.5	**59.9***	54.0	53.7	51.3	59.4	61.8	59.4	61.5		60.5	57.7
Jerry	58.1	55.8	58.5	59.1			54.5	55.4	59.3	54.0	53.4	53.2	59.4	**62.0***	58.0	62.0		60.6	57.6
MT1078	57.8	56.4	57.1	59.1			53.9	53.6	57.9	55.4	52.2	52.0	59.1	**62.0***	58.3	60.8		60.3	57.1
Average	**59.1**	**57.0**	**59.1**	**59.9**			**55.8**	**56.2**	**60.2**	**55.9**	**54.4**	**52.9**	**60.0**	**62.2**	**59.4**	**62.4**		**61.5**	**58.4**
LSD (0.05)	**0.6**	**1.0**	**0.7**	**0.9**				**2.2**	**1.3**	**ns**	**2.3**	**2.7**	**1.7**	**1.6**	**1.0**	**1.8**		**0.7**	**0.6**
C.V. (%)	**0.5**	**1.0**	**0.7**	**0.9**				**1.9**	**1.0**	**3.1**	**2.1**	**2.8**	**1.5**	**1.6**	**1.0**	**1.7**		**0.6**	**1.5**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 49. 2015 Off-Station Winter Wheat Test (Exp. 38): Multi-Location Plant Height (in)

Cultivar/Line + = new for 2015	Turner NARC LAT	Loma NARC LAT	Knees WTARC RCB	Cut Bank RCB	Devon/ Shelby WTARC chem. damage	Choteau WTARC no harvest	Mocc. No-Till RCB	Denton CARC RCB	Gerald-ine RCB	Wini-fred RCB	Belt CARC RCB	Hardin SARC	Rapelje SARC	Hysham SARC	Fly Cr/ Hardin SARC	Molt SARC	Ft Smith SARC no harvest	Willis-ton RCB	15 Loc. Average
	108%	112%																	
CDC Falcon	23.0	27.4	31.7	27.7			29.7	26.8	30.4	26.9	27.9	28.5	33.2	30.6	36.8	32.2		26.0	29.2
+ MTS1224	22.1	25.5	32.7	25.3			31.5	28.2	32.5	30.2	26.3	29.3	33.9	29.3	33.9	32.5		22.6	29.3
Judee	24.3	25.9	30.3	26.0			33.1	26.5	30.9	29.4	25.8	31.9	32.9	32.5	36.6	32.5		25.1	29.8
+ SY Wolf	24.1	28.3	32.3	27.3			30.4	27.7	31.8	29.3	30.3	29.0	35.1	34.6	36.4	32.3		25.5	30.2
Bearpaw	23.2	25.7	33.3	28.3			32.7	26.8	32.3	28.0	27.6	30.8	35.0	33.1	35.7	35.0		26.4	30.3
Warhorse	23.7	28.6	31.3	27.3			32.2	26.0	32.8	29.1	27.2	31.0	34.4	32.8	35.1	35.8		25.6	30.3
Northern	24.2	29.4	32.3	28.0			31.0	26.9	33.6	26.8	26.8	32.0	35.7	33.7	34.5	36.6		24.8	30.4
WB-Quake	24.2	27.4	31.3	27.7			31.3	28.0	35.1	28.1	24.0	31.0	32.6	32.5	37.3	35.6		25.6	30.4
+ Broadview	23.2	26.5	33.3	26.0			31.2	28.2	33.2	28.0	26.4	33.6	34.7	31.8	40.9	36.4		26.1	30.7
MT1078	25.3	29.3	33.0	26.3			31.1	29.9	31.8	29.7	28.4	32.5	34.3	34.3	36.2	35.2		27.9	31.1
Decade	25.2	28.4	33.7	27.3			33.5	28.6	32.3	31.9	27.0	30.3	35.7	34.5	35.9	36.0		26.5	31.4
MTCS1204	25.9	30.0	33.3	30.7			32.1	28.7	34.7	29.5	30.1	34.1	36.1	35.3	38.5	36.7		28.0	32.2
MT1286	25.6	29.9	34.3	29.0			33.4	28.2	33.7	28.5	27.4	34.4	36.5	36.2	41.1	37.0		27.7	32.3
MT1138	27.6	28.1	34.3	29.7			34.8	31.4	34.4	27.4	28.6	32.5	36.9	37.4	39.5	37.1		28.0	32.4
+ MT1257	27.6	28.7	34.3	30.3			34.6	29.4	34.1	31.6	29.5	31.6	37.2	36.0	39.0	36.6		28.1	32.7
Yellowstone	25.8	29.4	33.7	30.0			34.7	30.4	34.7	31.2	27.5	34.6	37.6	36.5	40.5	36.1		27.5	32.9
Colter	25.9	27.1	36.3	28.0			35.8	30.8	34.0	31.4	28.3	34.3	37.8	37.3	41.8	36.1		27.6	33.0
MTS0826-63	27.7	29.1	36.7	28.0			33.7	30.6	35.4	34.4	32.3	29.1	37.0	34.1	38.4	37.0		28.8	33.0
MT1117	27.1	28.7	34.0	30.7			34.6	28.7	35.8	31.5	28.1	34.1	37.8	36.0	40.5	36.4		29.0	33.1
+ MT1265	25.5	30.1	35.0	29.3			35.2	29.9	35.0	30.2	27.4	32.9	38.3	36.9	41.5	37.8		28.0	33.1
Rampart	24.5	29.9	35.0	26.3			35.0	30.3	35.8	31.9	29.3	34.1	38.1	38.7	38.9	39.0		28.6	33.2
SY Clearstone 2CI	26.9	29.9	35.7	29.0			34.8	30.2	34.8	31.4	28.6	31.4	39.2	38.6	40.5	36.4		28.7	33.3
Genou	27.9	31.6	36.3	32.0			34.1	31.0	31.6	34.3	30.2	34.0	39.1	36.6	41.0	38.3		28.2	34.0
Jerry	25.7	33.3	35.7	29.0			36.2	29.4	37.3	31.6	30.5	34.3	42.4	39.0	40.2	38.7		27.4	34.1
WB3768	29.2	30.0	37.0	30.4			38.3	31.5	36.5	32.4	31.1	30.8	38.8	38.1	42.4	39.2		29.2	34.4
Average	**25.4**	**28.7**	**33.9**	**28.4**			**33.5**	**29.2**	**33.9**	**30.4**	**28.3**	**32.1**	**36.4**	**35.0**	**38.5**	**36.1**		**27.1**	**31.9**
LSD (0.05)	**2.0**	**2.5**	**2.7**	**3.4**			**2.9**	**3.1**	**2.4**	**4.2**	**3.4**	**ns**	**2.8**	**1.8**	**3.7**	**2.5**		**1.3**	**0.9**
C.V. (%)	**4.4**	**4.9**	**4.8**	**7.1**			**5.2**	**6.6**	**4.3**	**8.5**	**5.8**	**8.3**	**3.4**	**3.1**	**5.8**	**4.2**		**2.8**	**4.0**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 50. 2015 Off-Station Winter Wheat Test (Exp. 38): Multi-Location Protein (%)

Cultivar/Line + = new for 2015	Turner NARC LAT	Loma NARC LAT	Knees WTARC LAT	Cut Bank LAT	Devon/ Shelby WTARC chem. damage	Choteau WTARC no harvest	Mocc. No-Till bulk	Denton CARC bulk	Gerald-ine bulk	Wini-fred bulk	Belt CARC bulk	Fly Cr/ Hardin SARC bulk	Rapelje SARC bulk	Hysham SARC bulk	Hardin SARC bulk	Molt SARC bulk	Ft Smith SARC no harvest	Willis-ton bulk	15 Loc. Average
	117%	166%	118%	131%															
Rampart	**14.0***	14.6	11.8	13.2			15.0	13.7	13.0	10.9	11.4	15.8	13.4	14.4	14.3	11.1		11.7	**13.2****
MTS0826-63	13.4	**14.9***	11.3	12.7			14.3	11.7	12.7	10.0	9.9	15.6	12.6	13.7	13.6	10.2		11.3	12.5
Warhorse	**14.2***	14.3	11.1	12.7			13.6	12.2	12.8	10.2	10.5	14.9	13.0	13.3	13.8	10.5		10.4	12.5
Genou	13.3	**14.9***	10.4	12.7			14.5	11.4	13.1	9.2	10.2	16.0	11.4	14.1	13.4	10.4		11.7	12.4
Judee	13.7	**15.3****	11.6	12.6			14.2	11.3	12.6	8.7	11.3	14.7	12.3	14.4	14.3	10.0		11.8	12.4
Northern	13.7	**15.0***	11.4	12.8			13.7	12.3	14.1	8.5	11.8	15.8	12.3	13.5	13.7	10.0		10.5	12.4
+ **Broadview**	12.9	**15.2***	10.6	11.6			13.6	12.3	12.0	10.7	9.9	14.5	12.6	13.6	14.1	10.2		9.9	12.3
MTCS1204	**14.0***	14.0	11.6	12.5			13.8	11.0	12.0	9.5	10.0	15.2	12.3	14.3	13.0	10.9		11.0	12.3
+ **MTS1224**	13.6	**14.8***	11.5	12.3			14.0	10.4	12.8	9.0	9.9	15.7	12.0	14.7	13.3	10.4		11.0	12.3
SY Clearstone 2CI	13.2	14.3	10.5	12.9			13.9	13.1	12.2	9.5	10.4	15.0	11.5	13.6	13.5	9.8		11.5	12.3
Colter	13.7	**14.8***	10.4	12.5			13.4	11.9	11.2	10.3	9.7	14.8	11.5	13.5	13.5	10.0		10.5	12.2
Decade	**14.4****	**14.7***	10.2	12.8			12.9	11.9	12.8	9.4	10.7	14.1	10.7	14.0	13.9	10.2		11.1	12.2
Jerry	12.9	14.2	11.0	12.2			13.3	11.8	12.6	9.7	10.7	14.9	11.9	13.6	14.1	10.6		10.0	12.2
MT1117	13.4	**15.0***	10.7	12.6			13.1	13.2	12.1	9.4	10.4	14.6	11.4	14.1	13.0	10.3		10.7	12.2
+ **SY Wolf**	13.7	14.1	10.1	12.6			13.0	11.9	12.3	10.3	10.0	14.1	11.2	13.6	13.7	10.5		11.1	12.2
Bearpaw	13.8	14.2	11.2	12.4			13.8	11.2	12.7	8.6	10.4	14.5	11.7	13.9	12.5	10.1		10.6	12.0
CDC Falcon	12.9	14.2	11.4	12.6			14.1	12.0	13.2	8.7	10.8	15.3	10.7	13.3	13.5	10.1		9.8	12.0
+ **MT1257**	13.5	14.5	11.0	12.4			13.6	11.5	12.5	8.2	10.6	15.5	11.1	14.2	13.1	10.0		10.9	12.0
WB3768	13.2	14.4	10.9	12.5			12.7	11.2	12.1	9.6	9.3	15.7	11.6	13.2	12.9	9.7		10.7	12.0
Yellowstone	13.3	14.1	11.0	12.5			13.7	11.4	12.0	8.9	9.8	15.3	10.5	13.8	14.4	9.7		10.1	12.0
+ **MT1265**	12.8	14.2	10.6	12.5			14.2	10.8	12.1	8.4	9.5	15.4	11.8	13.4	13.2	9.9		10.8	11.9
WB-Quake	13.3	14.3	12.1	12.1			14.1	11.3	12.3	8.4	10.7	15.0	11.3	13.7	12.9	9.4		10.6	11.9
MT1138	13.1	**14.8***	10.5	12.2			13.7	11.5	11.6	8.5	10.0	14.6	10.0	13.3	13.0	9.6		10.6	11.7
MT1286	12.6	14.0	11.0	12.1			12.2	11.1	11.9	8.8	10.5	15.0	11.9	13.3	13.3	9.5		10.4	11.7
MT1078	12.5	13.7	11.1	11.8			12.6	11.6	11.8	9.4	11.8	14.6	11.0	13.0	11.8	9.3		10.5	11.6
Average	**13.4**	**14.5**	**11.0**	**12.5**			**13.7**	**11.7**	**12.5**	**9.3**	**10.6**	**15.1**	**11.7**	**13.7**	**13.4**	**10.1**		**10.8**	**12.2**
LSD (0.05)	**0.5**	**0.7**	**ns**	**ns**															**0.4**
C.V. (%)	**1.9**	**2.7**	**5.9**	**3.8**															**4.2**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 51. 2012//2015 Off-Station Winter Wheat Test (Exp. 3851): Turner (NARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)			Protein (%)		
	2015		2013//15	2012//15	2015	2013//15	2012//15	2015	2013//15	2012//15
	1y		2y	3y	1y	2y	3y	1y	2y	3y
Bearpaw	38.6	**2014, no**	48.1	40.2	58.2	59.7	59.6	13.8	13.1	11.9
+ **Broadview**	**44.6***	**harvest**			58.5			12.9		
CDC Falcon	40.5	**hailed**	47.9	39.0	58.8	59.9	59.5	12.9	12.4	11.4
Colter	43.1	**out**	46.6	39.4	59.9	**61.0***	60.4	13.7	12.9	11.8
Decade	41.8		47.0	38.3	59.2	60.1	60.1	**14.4****	**13.8****	12.5
Genou	40.3		45.1	38.2	59.1	60.6	60.2	13.3	12.4	11.9
Jerry	38.2		41.7	35.4	58.1	59.4	59.1	12.9	12.6	11.9
Judee	36.8		42.9	36.5	**60.8****	**61.7****	**61.2****	13.7	12.9	11.8
MT1078	**44.0***		49.1		57.8	59.3		12.5	12.1	
MT1117	40.7				60.2			13.4		
MT1138	42.7				59.2			13.1		
+ **MT1257**	**43.5***				58.7			13.5		
+ **MT1265**	41.8				59.6			12.8		
MT1286	**47.2****				59.5			12.6		
MTCS1204	33.7				59.5			**14.0***		
MTS0826-63	42.7				58.3			13.4		
+ **MTS1224**	38.3				59.3			13.6		
Northern	38.9		46.8		59.2	60.6		13.7	13.0	
Rampart	34.3		39.9	34.1	58.4	60.1	59.8	**14.0***	**13.3***	12.3
SY Clearstone 2CL	39.6		49.8	41.0	59.3	60.4	59.8	13.2	12.2	11.6
+ **SY Wolf**	39.2				59.1			13.7		
Warhorse	36.2		44.2	37.8	59.3	60.8	60.3	**14.2***	**13.2***	12.0
WB3768	**45.3***		52.8		59.8	**61.1***		13.2	12.6	
WB-Quake	37.8		47.4	39.7	58.8	60.4	60.0	13.3	12.4	11.3
Yellowstone	39.1		51.1	42.0	59.4	60.5	59.9	13.3	12.4	11.5
Average	**40.3**		**46.7**	**38.5**	**59.1**	**60.3**	**60.0**	**13.4**	**12.7**	**11.9**
LSD (0.05)	**4.0**		**ns**	**ns**	**0.6**	**0.8**	**0.7**	**0.5**	**0.6**	**ns**
C.V. (%)	**5.4**		**7.6**	**8.9**	**0.5**	**0.6**	**0.7**	**1.9**	**2.3**	**4.3**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 53. 2012-2015 Off-Station Winter Wheat Test (Exp. 3853): Loma (NARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)				Protein (%)			
	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15
	1y	2y	3y	4y	1y	2y	3y	4y	1y	2y	3y	4y
Bearpaw	50.8	44.5	48.8	**49.8***	56.8	59.5	**59.2***	58.6	14.2	14.9	**14.6***	14.0
+ Broadview	48.3				56.4				**15.2***			
CDC Falcon	**53.1***	47.6	**54.5***	**53.9***	56.8	59.3	58.9	58.1	14.2	14.4	14.2	13.7
Colter	41.4	42.2	47.7	**49.6***	55.8	58.6	58.2	58.2	**14.8***	14.9	**14.5***	13.8
Decade	46.6	40.5	46.6	48.4	56.4	59.4	**59.1***	58.6	**14.7***	15.2	**15.0****	14.5
Genou	42.2	44.2	48.7	48.9	56.9	59.5	**59.1***	58.1	**14.9***	14.6	14.4	14.2
Jerry	45.3	40.9	45.6	45.1	55.8	58.4	58.4	57.6	14.2	14.9	**14.5***	14.2
Judee	43.4	44.4	51.4	**51.0***	56.9	59.9	**59.8****	59.0	**15.3****	15.2	**14.6***	14.2
MT1078	49.3	47.7	**52.9***		56.4	58.9	58.5		13.7	13.9	13.6	
MT1117	43.4	44.1			56.5	59.2			**15.0***	15.0		
MT1138	47.8	46.3			56.4	58.7			**14.8***	14.7		
+ MT1257	46.7				56.6				14.5			
+ MT1265	**52.9***				57.8				14.2			
MT1286	51.4	48.8			**58.4***	60.1			14.0	14.2		
MTCS1204	46.7	45.0			57.9	60.1			14.0	14.5		
MTS0826-63	45.7	45.6			56.6	59.3			14.9*	14.8		
+ MTS1224	46.2				56.5				14.8*			
Northern	**55.1****	49.8	**57.4****		57.4	59.8	**59.5***		15.0*	15.2	**14.6***	
Rampart	46.7	42.2	47.0	45.5	**58.3***	60.3	**59.6***	58.5	14.6	14.9	**14.7***	14.3
SY Clearstone 2CL	49.3	48.9	**53.4***	**54.3***	57.1	59.2	58.5	57.8	14.3	14.2	14.0	13.6
+ SY Wolf	49.9				**59.0****				14.1			
Warhorse	44.3	44.9	50.3	**51.2***	56.7	59.6	**59.7***	58.8	14.3	14.6	14.3	13.6
WB3768	49.2	46.4	51.2		57.3	59.4	**58.9***		14.4	14.6	14.4	
WB-Quake	44.0	42.3	49.8	48.1	56.7	59.6	58.8	57.6	14.3	14.3	14.0	13.9
Yellowstone	46.4	46.3	**53.2***	**54.6****	56.7	59.0	58.6	58.1	14.1	14.2	13.9	13.6
Average	**47.4**	**45.1**	**50.6**	**50.0**	**57.0**	**59.4**	**59.0**	**58.2**	**14.5**	**14.6**	**14.4**	**13.9**
LSD (0.05)	**3.4**	**ns**	**5.8**	**5.6**	**1.0**	**ns**	**0.9**	**ns**	**0.7**	**ns**	**0.6**	**ns**
C.V. (%)	**3.8**	**8.1**	**6.9**	**7.7**	**1.0**	**0.9**	**0.9**	**1.4**	**2.7**	**2.6**	**2.3**	**3.4**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 53. 2012-2015 Off-Station Winter Wheat Test (Exp. 3865): The Knees (WTARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)				Protein (%)			
	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15
	1y	2y	3y	4y	1y	2y	3y	4y	1y	2y	3y	4y
Bearpaw	63.6	60.6	54.9	54.7	58.7	**60.4***	**61.4***	**60.6***	11.2	12.5	12.9	13.0
+ **Broadview**	65.5				58.7				10.6			
CDC Falcon	59.0	58.6	56.4	**59.0***	58.0	**59.7***	60.6	**60.6***	11.4	12.7	13.0	12.9
Colter	**72.1***	**70.7***	61.0	**61.5***	59.1	**59.8***	60.7	60.3	10.4	11.9	12.4	12.4
Decade	**69.5***	**70.2***	64.7	**65.5***	59.2	**60.9***	**61.6***	**61.4***	10.2	12.2	12.9	12.9
Genou	58.0	55.0	55.0	53.8	59.9	**60.5***	**61.0***	**60.5***	10.4	11.9	12.6	12.8
Jerry	55.7	56.9	54.3	54.1	58.5	59.1	60.5	59.9	11.0	12.3	12.7	12.9
Judee	59.7	60.3	55.9	56.2	60.0	**60.8***	**61.9****	**61.5****	11.6	12.7	13.1	13.2
MT1078	**70.1***	**64.1***	58.4		57.1	58.2	59.4		11.1	12.1	12.4	
MT1117	65.8	**66.4***			59.8	**60.5***			10.7	12.2		
MT1138	**77.1****	**71.8****			58.6	59.5			10.5	12.0		
+ **MT1257**	**71.1***				58.2				11.0			
+ **MT1265**	62.4				58.5				10.6			
MT1286	65.4	62.5			59.6	59.4			11.0	12.0		
MTCS1204	**67.3***	**64.7***			**60.4***	**61.0****			11.6	12.5		
MTS0826-63	**69.4***	**64.2***			59.6	**60.5***			11.3	12.1		
+ **MTS1224**	**73.2***				58.7				11.5			
Northern	**70.0***	**66.5***	60.0		59.3	**60.0***	**60.9***		11.4	12.3	12.7	
Rampart	52.8	55.0	56.5	55.0	60.1	**60.4***	**61.0***	**60.7***	11.8	12.7	13.3	13.2
SY Clearstone 2CL	**69.5***	**64.5***	69.1	**68.1****	57.8	58.5	59.9	59.4	10.5	12.1	12.6	12.7
+ **SY Wolf**	**71.7***				**60.8****				10.1			
Warhorse	**68.7***	**65.0***	62.2	**63.4***	59.3	**60.4***	**61.1***	**60.8***	11.1	12.0	12.5	12.4
WB3768	**69.5***	**64.4***	60.9		59.4	**60.2***	**61.0***		10.9	12.0	12.5	
WB-Quake	55.0	59.1	60.2	**60.9***	58.9	**60.3***	60.8	**60.6***	12.1	12.6	12.9	12.8
Yellowstone	**68.8***	**71.5***	65.5	**64.2***	58.6	**59.6***	60.4	59.8	11.0	12.0	12.5	12.7
Average	**66.0**	**63.6**	**59.7**	**59.7**	**59.1**	**60.0**	**60.8**	**60.5**	**11.0**	**12.2**	**12.7**	**12.8**
LSD (0.05)	**10.5**	**8.9**	**ns**	**9.4**	**0.7**	**1.4**	**1.1**	**1.1**	**ns**	**ns**	**ns**	**ns**
C.V. (%)	**8.9**	**6.7**	**12.0**	**10.9**	**0.7**	**1.1**	**1.1**	**1.2**	**5.9**	**4.0**	**3.3**	**3.4**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 54. 2014-2015 Off-Station Winter Wheat Test (Exp. 3864): Cut Bank (WTARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)		Protein (%)	
	2015	2014-15			2015	2014-15	2015	2014-15
	1y	2y			1y	2y	1y	2y
Bearpaw	**57.2***	63.7	**2013, no**	**2012, no**	58.4	56.2	12.4	13.1
+ **Broadview**	54.1		**harvest**	**harvest**	58.4		11.6	
CDC Falcon	53.6	59.0	**herbicide**	**hailed**	58.3	55.4	12.6	13.3
Colter	**58.2***	60.7	**damage**	**out**	59.9	**57.7***	12.5	13.1
Decade	**55.7***	60.0			59.7	**57.0***	12.8	13.2
Genou	**58.7***	54.8			58.8	**56.9***	12.7	**13.6***
Jerry	**55.9***	57.9			59.1	55.9	12.2	13.2
Judee	52.9	62.0			**61.2****	**58.4****	12.6	13.1
MT1078	54.3	61.0			59.1	56.1	11.8	12.5
MT1117	**57.3***	60.7			**60.8***	**58.3***	12.6	13.2
MT1138	**56.0***	68.2			59.6	**58.1***	12.2	12.9
+ **MT1257**	**64.0***				59.8		12.4	
+ **MT1265**	**63.1***				**60.8***		12.5	
MT1286	**61.4***	59.6			**61.1***	**57.8***	12.1	12.9
MTCS1204	47.6	56.5			60.1	**57.8***	12.5	13.0
MTS0826-63	**57.9***	65.7			59.4	**57.8***	12.7	**13.6***
+ **MTS1224**	**55.6***				60.2		12.3	
Northern	**63.6***	62.5			**60.8***	**57.7***	12.8	13.5
Rampart	40.7	52.4			59.8	**57.6***	13.2	**14.0****
SY Clearstone 2CL	50.0	57.2			60.0	**56.9***	12.9	13.3
+ **SY Wolf**	**59.5***				**60.5***		12.6	
Warhorse	34.1	49.2			60.1	**57.4***	12.7	**13.6***
WB3768	**65.1***	70.3			**60.5***	**58.3***	12.5	13.1
WB-Quake	47.4	51.0			59.9	**57.6***	12.1	13.0
Yellowstone	**62.5***	65.1			59.7	56.8	12.5	13.1
Average	**55.5**	**59.8**			**59.9**	**57.7**	**12.5**	**13.2**
LSD (0.05)	**10.1**	**ns**			**0.9**	**1.5**	**ns**	**0.5**
C.V. (%)	**9.9**	**11.3**			**0.9**	**1.3**	**3.8**	**1.8**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 55. 2012-2014 Off-Station Winter Wheat Test (Exp. 3865): Shelby area - Devon (WTARC) Yield, Test Weight and Protein

Cultivar/Line		Grain Yield (bu/a)			Test Weight (lb/bu)			Protein (%)		
		2014	2013-14	2012-14	2014	2013-14	2012-14	2014	2013-14	2012-14
		1y	2y	3y	1y	2y	3y	1y	2y	3y
Bearpaw	**herbicide**	51.7	68.4	**55.8***	63.2	61.8	59.9	12.9	12.6	13.4
+ Broadview	**damage,**									
CDC Falcon	**data not**	55.9	67.7	**55.8***	62.8	61.0	59.3	11.5	12.0	12.8
Colter	**used**	62.1	75.5	**61.5****	63.2	61.6	60.1	11.4	11.8	12.8
Decade		60.9	73.1	**59.5***	**63.9***	62.0	**61.0***	12.0	11.7	12.6
Genou		52.8	63.4	52.6	63.0	61.5	60.2	11.5	11.9	12.9
Jerry		52.7	67.8	53.4	61.8	60.6	59.4	11.8	11.8	12.8
Judee		50.1	65.0	51.4	63.5	61.6	60.3	11.9	12.6	13.5
MT1078		53.1	69.1		61.5	59.7		10.4	11.2	
MT1117		57.1			62.8			10.9		
MT1138		60.9			62.7			11.4		
+ MT1257										
+ MT1265										
MT1286		67.9			62.6			10.4		
MTCS1204		52.6			63.0			13.1		
MTS0826-63		58.3			62.2			11.8		
+ MTS1224										
Northern		61.5	74.9		62.5	61.4		11.9	11.8	
Rampart		54.7	62.2	51.2	63.3	61.9	60.6	12.4	12.2	13.1
SY Clearstone 2CL		55.9	67.4	**55.6***	62.3	60.6	59.3	11.5	11.7	12.5
+ SY Wolf										
Warhorse		54.0	64.9	53.5	62.9	60.7	59.9	11.5	12.2	12.8
WB3768		60.5	74.6		62.8	61.8		11.4	11.5	
WB-Quake		61.0	69.3	**57.2***	63.1	61.5	60.0	11.2	11.5	12.4
Yellowstone		62.1	74.1	**59.1***	62.1	60.5	59.3	11.1	11.7	12.6
Average		**57.7**	**69.3**	**55.5**	**62.8**	**61.2**	**60.1**	**11.5**	**11.8**	**12.8**
LSD (0.05)		**ns**	**ns**	**6.2**	**1.3**	**1.0**	**1.0**		**ns**	**ns**
C.V. (%)		**13.5**	**6.3**	**6.6**	**1.3**	**0.8**	**1.0**		**4.7**	**3.5**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 56. 2012-2014 Off-Station Winter Wheat Test (Exp. 3863): Choteau area (WTARC) Yield, Test Weight and Protein

Cultivar/Line		Grain Yield (bu/a)			Test Weight (lb/bu)			Protein (%)		
		2014	2013-14	2012-14	2014	2013-14	2012-14	2014	2013-14	2012-14
		1y	2y	3y	1y	2y	3y	1y	2y	3y
Bearpaw	**poor**	65.6	60.7	53.6	60.3	59.4	59.3	14.9	15.4	14.2
+ **Broadview**	**stands,**									
CDC Falcon	**no**	67.5	58.3	53.0	58.4	57.4	57.7	14.8	15.3	13.7
Colter	**harvest**	70.4	56.8	53.0	58.0	57.3	57.6	15.3	16.4	14.0
Decade		**73.2***	57.4	51.9	60.6	58.8	59.1	14.7	16.0	14.1
Genou		65.2	58.2	52.4	58.5	58.9	58.9	15.4	15.9	14.4
Jerry		67.3	54.2	48.8	57.8	57.5	58.0	14.8	15.9	14.1
Judee		67.2	56.8	52.1	58.7	58.4	58.9	15.5	15.9	14.3
MT1078		**72.6***	62.6		57.7	57.4		14.3	15.2	
MT1117		70.8			57.9			15.5		
MT1138		**75.9***			57.4			15.1		
+ **MT1257**										
+ **MT1265**										
MT1286		64.5			58.1			14.7		
MTCS1204		**75.8***			61.0			14.4		
MTS0826-63		62.7			59.2			15.6		
+ **MTS1224**										
Northern		**74.3***	55.8		57.6	57.0		15.3	16.7	
Rampart		62.7	49.2	45.3	59.6	59.1	59.0	15.3	16.5	14.6
SY Clearstone 2CL		**75.5***	58.3	52.8	57.8	57.8	58.0	14.6	15.9	13.7
+ **SY Wolf**										
Warhorse		64.1	52.9	49.2	58.1	57.5	57.9	14.4	15.2	14.2
WB3768		**72.7***	58.5		58.7	58.8		14.9	15.9	
WB-Quake		67.1	50.3	48.0	59.2	58.1	58.1	14.9	16.0	13.8
Yellowstone		**75.2***	62.8	57.5	57.4	57.7	57.9	15.3	15.5	13.8
Average		**69.7**	**57.4**	**51.7**	**58.6**	**58.0**	**58.8**	**14.9**	**15.8**	**15.3**
LSD (0.05)		**8.5**	**ns**	**ns**	**1.3**	**1.9**	**1.3**		**ns**	**ns**
C.V. (%)		**7.5**	**9.4**	**10.8**	**1.3**	**1.6**	**1.3**		**3.4**	**3.2**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 57. 2012//2015 Off-Station Winter Wheat Test (Exp. 3870): Moccasin No-till (CARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)			Test Weight (lb/bu)			Protein (%)		
	2015	2013//15	2012//15	2015	2013//15	2012//15	2015	2013//15	2012//15
	1y	2y	3y	1y	2y	3y	1y	2y	3y
Bearpaw	38.8	**41.1***	**35.0***	54.6	55.5	55.3	13.8	15.0	15.5
+ **Broadview**	34.7			54.6			13.6		
CDC Falcon	41.5	**40.1***	**35.2***	55.2	54.4	54.0	14.1	15.7	**16.2***
Colter	37.0	**40.8***	**35.5***	57.7	58.1	56.0	13.4	14.6	15.3
Decade	**45.0***	**41.9***	**35.5***	55.8	55.2	55.0	12.9	14.6	15.4
Genou	23.8	29.8	26.5	55.9	55.4	54.8	14.5	16.1	**16.5***
Jerry	37.8	37.1	32.0	54.5	54.6	53.9	13.3	15.2	15.7
Judee	30.8	36.2	30.3	54.8	55.1	54.4	14.2	15.3	**16.1***
MT1078	40.7	**43.6***		53.9	53.7		12.6	14.2	
MT1117	41.4			57.4			13.1		
MT1138	**44.2***			56.3			13.7		
+ **MT1257**	**44.9***			56.1			13.6		
+ **MT1265**	**46.5***			55.1			14.2		
MT1286	**47.4****			58.7			12.2		
MTCS1204	32.2			57.2			13.8		
MTS0826-63	29.6			56.3			14.3		
+ **MTS1224**	42.1			54.9			14.0		
Northern	37.9	**41.0***		55.6	55.5		13.7	15.2	
Rampart	22.3	26.9	23.9	55.2	56.4	55.7	15.0	16.2	**16.7****
SY Clearstone 2CL	40.8	**46.5****	**39.3****	54.6	55.5	54.2	13.9	14.3	15.2
+ **SY Wolf**	41.1			57.4			13.0		
Warhorse	40.8	**41.5***	**35.7***	54.3	55.0	54.9	13.6	14.4	15.2
WB3768	**42.3***	**42.6***		57.4	56.5		12.7	14.9	
WB-Quake	35.3	35.2	29.9	54.2	55.2	54.8	14.1	14.9	15.5
Yellowstone	**46.2***	**45.8***	**38.7***	55.7	55.2	54.1	13.7	15.2	**15.9***
Average	**38.1**	**39.3**	**33.1**	**55.8**	**55.4**	**54.8**	**13.7**	**15.0**	**15.8**
LSD (0.05)	**6.2**	**8.6**	**6.5**		**ns**	**ns**		**ns**	**0.9**
C.V. (%)	**9.8**	**10.2**	**11.6**		**1.8**	**2.2**		**4.3**	**3.4**

2014, no harvest cheat-grass infest-ation

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 58. 2013//2015 Off-Station Winter Wheat Test (Exp. 3871): Denton (CARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)		Protein (%)	
	2015		2013//15		2015	2013//15	2015	2013//15
	1y		2y		1y	2y	1y	2y
Bearpaw	**38.4***	**2014, Clear-field wheat infest-ation - data not used**	40.1	**2012, no harvest hailed out**	54.7	57.1	11.2	11.9
+ **Broadview**	**45.2***				56.1		12.3	
CDC Falcon	**37.2***		41.4		55.4	57.0	12.0	11.7
Colter	**44.0***		42.8		**58.1***	**58.6***	11.9	12.6
Decade	**43.1***		43.6		**56.3***	**57.8***	11.9	12.0
Genou	31.2		35.9		**56.6***	**58.2***	11.4	11.8
Jerry	**37.3***		38.9		55.4	57.0	11.8	12.3
Judee	28.2		35.7		**57.4***	**58.4***	11.3	11.3
MT1078	**45.0***		43.9		53.6	55.2	11.6	11.8
MT1117	33.8				**56.2***		13.2	
MT1138	**42.6***				**56.3***		11.5	
+ **MT1257**	35.2				55.4		11.5	
+ **MT1265**	**45.0***				**56.9***		10.8	
MT1286	**39.1***				**57.3***		11.1	
MTCS1204	24.4				**57.2***		11.0	
MTS0826-63	**37.7***				55.3		11.7	
+ **MTS1224**	**45.7****				**57.5***		10.4	
Northern	**39.5***		44.6		**57.0***	**59.1***	12.3	11.8
Rampart	29.2		32.3		54.9	57.4	13.7	13.3
SY Clearstone 2CL	**36.5***		40.5		54.5	57.1	13.1	12.4
+ **SY Wolf**	32.4				**56.8***		11.9	
Warhorse	**38.2***		39.9		54.8	57.0	12.2	12.3
WB3768	**41.8***		41.8		**58.4****	**59.3****	11.2	11.8
WB-Quake	35.4		38.1		55.1	57.4	11.3	11.4
Yellowstone	**39.7***		43.5		**56.2***	**58.3***	11.4	11.6
Average	**37.5**		**40.2**		**56.2**	**57.6**	**11.7**	**12.0**
LSD (0.05)	**9.4**		**ns**		**2.2**	**1.9**		**ns**
C.V. (%)	**15.4**		**8.5**		**1.9**	**1.5**		**5.1**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 59. 2012-2015 Off-Station Winter Wheat Test (Exp. 3872): Geraldine (CARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)				Protein (%)			
	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15
	1y	2y	3y	4y	1y	2y	3y	4y	1y	2y	3y	4y
Bearpaw	**80.5***	70.0	75.7	69.4	59.0	61.6	61.3	60.5	12.8	**12.9***	**11.9***	12.4
+ **Broadview**	66.1				**59.8***				14.1			
CDC Falcon	73.2	68.6	74.5	70.7	59.4	61.2	60.8	60.3	12.2	**12.7***	**12.0***	11.8
Colter	**81.1***	75.9	**79.9***	**75.9***	**61.2***	62.6	**62.2***	**61.5***	11.2	11.5	11.0	11.3
Decade	74.9	67.3	74.3	70.3	**60.1***	61.9	61.7	**61.1***	11.9	**12.8***	**11.9***	11.7
Genou	64.7	63.6	65.2	59.9	**61.0***	62.0	61.5	60.2	12.6	**12.6***	**12.0***	12.9
Jerry	74.8	64.3	69.9	66.8	59.3	61.2	60.5	60.1	12.3	**13.0***	**12.1***	12.0
Judee	**77.7***	73.0	**76.4***	70.6	**62.0****	63.5	**62.9****	**61.9****	12.7	12.2	11.6	11.9
MT1078	**80.0***	74.0	**81.4***		57.9	60.8	60.3		12.0	11.3	10.5	
MT1117	**82.9***	75.6			**62.0****	63.0			12.0	12.0		
MT1138	**83.0***	77.9			**60.9***	62.1			11.8	11.7		
+ **MT1257**	**82.5***				**60.1***				12.0			
+ **MT1265**	**78.2***				**60.5***				12.5			
MT1286	**79.6***	70.2			**61.2***	61.8			12.8	12.0		
MTCS1204	**81.0***	71.7			**61.8***	63.5			13.2	12.2		
MTS0826-63	**76.6***	73.8			**60.3***	62.1			12.1	12.4		
+ **MTS1224**	**77.3***				58.8				12.1			
Northern	75.8	72.1	**79.9***		58.6	60.8	60.9		12.3	**13.5****	**12.5****	
Rampart	63.6	64.7	65.7	60.0	**61.2***	62.5	61.7	60.5	13.1	**12.8***	**12.2***	13.0
SY Clearstone 2CL	72.8	71.2	**77.1***	**73.4***	**59.9***	61.5	61.2	60.4	12.7	11.5	10.8	11.3
+ **SY Wolf**	**82.2***				**61.2***				12.6			
Warhorse	71.7	65.9	72.5	68.4	59.6	61.7	61.3	60.3	13.0	**13.3***	**12.0***	12.2
WB3768	**79.5***	71.9	**77.9***		**60.9***	62.8	**62.6***		12.1	11.8	11.0	
WB-Quake	74.8	69.6	73.8	68.0	**59.9***	61.9	61.5	60.6	12.8	12.4	11.5	11.5
Yellowstone	**86.7****	78.9	**84.3****	**76.4****	**60.8***	62.0	61.6	60.7	11.6	12.0	11.6	12.0
Average	**75.5**	**71.0**	**75.2**	**69.3**	**60.2**	**62.0**	**61.5**	**60.7**	**12.5**	**12.3**	**11.6**	**12.0**
LSD (0.05)	**10.6**	**ns**	**7.9**	**6.6**	**1.3**	**ns**	**1.1**	**1.1**		**1.0**	**0.9**	**ns**
C.V. (%)	**8.6**	**6.3**	**6.3**	**6.6**	**1.0**	**1.3**	**1.0**	**1.2**		**4.0**	**4.6**	**7.5**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 60. 2012-2015 Off-Station Winter Wheat Test (Exp. 3874): Winifred (CARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)				Protein (%)			
	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15
	1y	2y	3y	4y	1y	2y	3y	4y	1y	2y	3y	4y
Bearpaw	50.5	45.3	51.4	53.9	56.8	59.0	59.8	59.8	8.6	11.1	10.9	11.4
+ Broadview	41.6				53.5				10.7			
CDC Falcon	**55.9***	50.7	**53.6***	**57.3***	55.3	58.5	59.2	59.1	8.7	10.7	10.5	10.6
Colter	**55.6***	49.6	50.2	53.9	56.3	59.4	59.6	59.6	10.3	11.3	11.1	11.6
Decade	**59.3***	52.2	**59.7****	**61.5****	55.8	59.0	60.0	60.1	9.4	12.2	11.4	10.9
Genou	44.8	44.1	44.9	48.1	56.8	59.0	59.9	60.0	9.2	11.7	11.6	11.9
Jerry	48.1	42.7	46.4	48.9	54.0	57.1	58.3	58.5	9.7	11.6	11.1	11.3
Judee	45.5	42.8	48.3	49.4	57.0	59.9	60.5	60.3	8.7	11.9	11.1	11.7
MT1078	**60.5***	54.6	**59.7****		55.4	58.2	59.0		9.4	11.4	10.9	
MT1117	49.3	44.9			56.7	59.3			9.4	12.1		
MT1138	47.6	50.4			54.0	57.9			8.5	10.1		
+ MT1257	**55.7***				54.3				8.2			
+ MT1265	**54.5***				53.9				8.4			
MT1286	**51.8***	47.0			57.0	59.2			8.8	11.5		
MTCS1204	43.7	41.6			58.2	60.3			9.5	11.3		
MTS0826-63	47.5	43.6			57.3	59.3			10.0	11.3		
+ MTS1224	**64.8****				57.9				9.0			
Northern	**53.3***	50.1	**57.8***		54.7	58.3	59.4		8.5	11.0	10.5	
Rampart	39.4	40.4	42.6	43.6	55.3	58.2	59.7	59.4	10.9	12.5	12.2	12.3
SY Clearstone 2CL	38.5	38.7	44.0	50.6	54.0	57.7	58.5	59.0	9.5	12.2	11.5	11.2
+ SY Wolf	**54.2***				55.7				10.3			
Warhorse	49.4	45.9	48.2	51.8	55.0	58.7	59.2	58.9	10.2	11.7	11.2	11.5
WB3768	48.1	45.8	51.6		56.0	58.7	60.1		9.6	11.3	11.0	
WB-Quake	**53.3***	46.8	49.5	50.1	57.1	59.5	60.2	60.0	8.4	11.5	11.0	10.9
Yellowstone	**59.5***	50.4	**54.1***	**56.7***	57.2	59.2	59.4	59.7	8.9	11.8	11.3	11.1
Average	**50.9**	**46.4**	**50.8**	**52.1**	**55.9**	**58.8**	**59.5**	**59.5**	**9.3**	**11.5**	**11.1**	**11.4**
LSD (0.05)	**13.9**	**ns**	**8.0**	**7.3**	**ns**	**ns**	**ns**	**ns**		**ns**	**ns**	**ns**
C.V. (%)	**16.7**	**8.9**	**9.4**	**9.8**	**3.1**	**1.5**	**1.4**	**1.5**		**7.7**	**6.7**	**8.3**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 61. 2012-2015 Off-Station Winter Wheat Test (Exp. 3875): Belt (CARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)				Protein (%)			
	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15
	1y	2y	3y	4y	1y	2y	3y	4y	1y	2y	3y	4y
Bearpaw	**53.2***	54.6	46.4	**41.8***	52.9	57.8	57.1	56.4	10.4	11.0	11.2	12.2
+ **Broadview**	41.0				52.9				9.9			
CDC Falcon	**54.2***	54.7	45.0	**42.8***	54.2	58.8	57.0	56.9	10.8	11.0	11.7	12.1
Colter	**53.2***	54.6	44.2	**42.9***	**55.9***	59.5	57.5	57.2	9.7	11.6	11.7	12.4
Decade	43.7	49.3	43.2	**42.9***	53.2	58.2	56.9	57.1	10.7	10.2	10.6	11.6
Genou	42.8	50.7	39.8	36.7	**55.1***	59.4	57.0	56.3	10.2	10.3	11.1	12.3
Jerry	**55.8***	55.6	46.7	**43.3***	53.4	57.9	56.8	56.5	10.7	11.6	11.7	12.4
Judee	36.6	43.9	37.0	35.6	**54.7***	59.2	57.8	57.3	11.3	10.2	10.7	11.8
MT1078	41.6	49.5	43.2		52.2	57.2	56.2		11.8	10.6	10.9	
MT1117	**49.7***	55.2			**56.3***	59.9			10.4	10.5		
MT1138	**51.4***	57.8			54.5	58.6			10.0	10.3		
+ **MT1257**	**51.4***				52.9				10.6			
+ **MT1265**	**58.8****				**55.5***				9.5			
MT1286	**48.9***	55.8			54.3	58.7			10.5	10.3		
MTCS1204	**54.6***	56.2			**56.9****	59.8			10.0	10.8		
MTS0826-63	**56.4***	54.4			**55.3***	58.8			9.9	11.7		
+ **MTS1224**	45.5				54.0				9.9			
Northern	**50.2***	54.8	47.3		52.7	57.8	57.8		11.8	10.8	10.9	
Rampart	41.4	44.9	37.2	34.5	54.2	58.7	56.8	56.2	11.4	11.5	12.0	13.1
SY Clearstone 2CL	**51.4***	54.0	46.3	**44.1***	53.7	57.9	56.7	56.2	10.4	10.4	10.6	11.7
+ **SY Wolf**	**57.0***				**56.6***				10.0			
Warhorse	**47.8***	49.9	43.6	**41.2***	54.2	58.0	57.1	56.9	10.5	11.9	11.7	12.5
WB3768	**58.7***	57.7	46.0		**56.1***	59.1	57.9		9.3	10.6	11.1	
WB-Quake	27.1	39.2	34.7	33.4	54.3	58.7	56.8	56.2	10.7	9.7	10.5	11.6
Yellowstone	**53.6***	58.2	47.7	**45.0****	**54.7***	58.6	57.6	56.8	9.8	10.3	11.0	11.9
Average	**40.5**	**52.5**	**43.2**	**40.3**	**54.4**	**58.6**	**57.1**	**56.6**	**10.6**	**10.7**	**11.2**	**12.1**
LSD (0.05)	**12.2**	**ns**	**ns**	**6.7**	**2.3**	**ns**	**ns**	**ns**		**ns**	**ns**	**ns**
C.V. (%)	**12.1**	**9.6**	**11.8**	**11.6**	**2.1**	**1.5**	**2.1**	**1.8**		**6.6**	**6.7**	**6.5**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 62. 2012-2014 Off-Station Winter Wheat Test (Exp. 3880): Huntley Irrigated (SARC) Yield, Test Weight and Protein

Cultivar/Line		Grain Yield (bu/a)			Test Weight (lb/bu)			Protein (%)		
		2014	2013-14	2012-14	2014	2013-14	2012-14	2014	2013-14	2012-14
		1y	2y	3y	1y	2y	3y	1y	2y	3y
Bearpaw	**2015, no test plant-ed**	71.7	84.1	99.2	56.3	58.3	59.8	14.6	13.8	13.7
+ **Broadview**										
CDC Falcon		88.7	**106.9***	**119.1****	56.5	59.7	**60.8***	13.9	13.4	12.6
Colter		91.5	**108.5***	**116.3***	57.0	59.4	**60.9***	15.1	13.6	13.3
Decade		68.9	87.2	**104.6***	54.0	58.2	59.5	13.8	13.6	13.8
Genou		54.2	81.3	88.1	56.0	59.9	60.7	**15.7***	13.7	13.8
Jerry		58.6	81.7	87.4	55.2	58.5	59.3	14.3	13.7	14.1
Judee		66.8	89.6	**103.4***	57.5	60.2	**61.0***	14.8	13.5	13.5
MT1078		**105.5***	**116.6***		56.1	58.5		13.4	12.9	
MT1117		**92.1***			**58.2***			14.1		
MT1138		**105.3***			56.4			14.3		
+ **MT1257**										
+ **MT1265**										
MT1286		87.7			**58.2***			13.8		
MTCS1204		**98.4***			**58.7***			14.1		
MTS0826-63		64.1			57.4			**16.1****		
+ **MTS1224**										
Northern		89.8	**101.1***		56.4	58.4		14.1	13.6	
Rampart		73.3	85.1	90.8	**57.9***	59.9	60.7	**16.0***	14.2	14.7
SY Clearstone 2CL		**94.9***	**102.2***	**112.5***	56.2	58.5	59.6	14.4	13.2	13.2
+ **SY Wolf**										
Warhorse		79.5	94.5	99.2	56.5	59.7	**61.0***	**15.8***	13.7	14.0
WB3768		**101.8***	**117.9****		57.2	60.1		14.3	13.4	
WB-Quake		72.5	92.6	101.6	56.1	59.3	60.5	14.9	13.4	13.2
Yellowstone		**94.6***	**98.0***	**110.3***	56.8	57.7	59.3	14.2	13.3	13.3
Average		**84.3**	**98.8**	**103.9**	**56.7**	**59.1**	**60.4**	**14.4**	**14.0**	**13.5**
LSD (0.05)		**17.1**	**20.1**	**17.2**	**1.8**	**ns**	**1.7**	**0.5**	**ns**	**ns**
C.V. (%)		**12.3**	**9.7**	**9.9**	**1.9**	**1.8**	**1.6**	**2.1**	**6.1**	**7.0**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 63. 2012-2015 Off-Station Winter Wheat Test (Exp. 3881): Rapelje (SARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)				Protein (%)			
	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15	2015		2013//15	2012//15
	1y	2y	3y	4y	1y	2y	3y	4y	1y		2y	3y
Bearpaw	68.7	77.3	68.9	64.2	**59.8***	61.2	60.8	59.6	11.7	**2014,**	12.9	14.8
+ **Broadview**	**80.2***				58.6				12.6	**data**		
CDC Falcon	75.9	85.2	72.2	**67.2***	**60.1***	61.6	61.0	59.1	10.7	**not**	11.6	13.6
Colter	**85.1***	86.9	77.4	**72.1****	**60.2***	61.8	61.4	60.0	11.5	**used**	12.3	14.2
Decade	70.2	80.9	71.4	63.7	**59.8***	61.7	61.2	59.6	10.7		10.6	13.2
Genou	62.4	71.4	61.1	54.7	**60.9***	62.2	60.8	59.5	11.4		12.6	14.9
Jerry	**80.7***	86.5	73.6	**67.0***	59.4	61.5	60.9	59.9	11.9		12.9	14.7
Judee	65.8	75.6	67.9	61.7	59.5	61.2	61.9	59.9	12.3		12.4	14.6
MT1078	**85.1***	82.0	75.8		59.1	61.2	60.6		11.0		11.6	
MT1117	**88.7****	84.2			**61.2***	61.8			11.4			
MT1138	**86.9***	84.9			**60.7***	62.3			10.0			
+ **MT1257**	**87.8***				**60.1***				11.1			
+ **MT1265**	**86.2***				**60.2***				11.8			
MT1286	**84.7***	93.4			**61.1***	62.1			11.9			
MTCS1204	**82.2***	84.8			**60.1***	61.4			12.3			
MTS0826-63	66.0	72.0			**60.9***	62.3			12.6			
+ **MTS1224**	**77.7***				59.3				12.0			
Northern	**79.6***	78.5	71.5		59.0	61.2	61.2		12.3		12.9	
Rampart	57.3	68.9	61.7	57.8	58.6	60.9	60.6	60.0	13.4		13.4	14.9
SY Clearstone 2CL	76.4	81.3	70.9	**68.9***	59.4	61.4	60.4	58.8	11.5		12.8	14.3
+ **SY Wolf**	**79.1***				**61.5****				11.2			
Warhorse	71.0	72.8	65.3	60.8	58.9	61.2	61.1	59.7	13.0		13.0	14.8
WB3768	**84.0***	83.5	71.3		**60.5***	61.7	61.8		11.6		11.7	
WB-Quake	64.7	73.6	66.6	61.3	**60.4***	61.6	61.1	60.1	11.3		12.0	13.8
Yellowstone	**86.2***	85.4	76.0	**71.9***	**60.2***	61.6	61.3	59.8	10.5		11.4	13.3
Average	**77.3**	**80.4**	**70.1**	**64.3**	**60.0**	**61.6**	**61.1**	**59.6**	**11.7**		**12.2**	**14.3**
LSD (0.05)	**11.6**	**ns**	**ns**	**7.6**	**1.7**	**ns**	**ns**	**ns**			**ns**	**ns**
C.V. (%)	**7.6**	**9.0**	**9.0**	**8.2**	**1.5**	**1.0**	**1.5**	**1.8**			**5.8**	**5.4**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 64. 2012//2015 Off-Station Winter Wheat Test (Exp. 3882): Hysham (2014-15) and Forsyth (2012) [SARC] Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)			Test Weight (lb/bu)			Protein (%)		
	2015	2014-15	2012//15	2015	2014-15	2012//15	2015	2014-15	2012//15
	1y	2y	3y	1y	2y	3y	1y	2y	3y
Bearpaw	51.8	58.1	47.0	**62.4***	62.5	60.9	13.9	13.0	14.3
+ **Broadview**	51.4			61.0			13.6		
CDC Falcon	45.5	51.0	42.6	**63.0***	62.3	60.8	13.3	13.0	13.9
Colter	51.7	67.1	53.0	**62.9***	62.7	61.1	13.5	13.0	14.5
Decade	52.0	59.1	47.9	**62.7***	62.7	61.5	14.0	13.4	14.8
Genou	51.0	60.0	47.8	**62.3***	62.3	60.7	14.1	12.4	14.3
Jerry	48.7	56.8	45.5	**62.0***	62.0	60.6	13.6	12.6	13.8
Judee	47.5	52.4	42.1	**63.4***	63.3	61.7	14.4	13.2	14.9
MT1078	**58.6****	62.8		**62.0***	62.0		13.0	12.1	
MT1117	46.7	61.8		61.7	62.1		14.1	13.6	
MT1138	**55.0***	63.2		**62.6***	62.4		13.3	12.1	
+ **MT1257**	49.9			61.5			14.2		
+ **MT1265**	51.5			**62.2***			13.4		
MT1286	**53.0***	59.6		**62.8***	62.4		13.3	12.4	
MTCS1204	51.1	60.6		60.9	61.5		14.3	13.7	
MTS0826-63	52.4	54.8		**62.1***	62.1		13.7	13.6	
+ **MTS1224**	49.9			61.3			14.7		
Northern	51.8	58.2		60.8	61.8		13.5	12.8	
Rampart	47.2	50.8	41.3	**62.6***	62.3	60.7	14.4	12.9	14.5
SY Clearstone 2CL	51.5	61.9	48.8	61.8	61.8	60.6	13.6	13.1	14.6
+ **SY Wolf**	50.7			**63.6****			13.6		
Warhorse	49.5	54.5	44.2	**62.3***	62.3	60.7	13.3	13.0	14.6
WB3768	50.9	57.9		61.6	62.0		13.2	13.0	
WB-Quake	47.0	57.5	46.4	**62.2***	62.5	60.5	13.7	12.8	14.5
Yellowstone	**54.1***	59.8	48.1	**62.3***	62.4	60.9	13.8	12.4	14.0
Average	**50.8**	**58.4**	**46.2**	**62.2**	**62.2**	**60.9**	**13.7**	**12.9**	**14.4**
LSD (0.05)	**6.1**	**ns**	**ns**	**1.6**	**ns**	**ns**		**ns**	**ns**
C.V. (%)	**5.5**	**8.3**	**9.1**	**1.6**	**0.8**	**0.8**		**4.8**	**4.4**

Nursery not planted in 2013, drought

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 65. 2012-2015 Off-Station Winter Wheat Test (Exp. 3884): Fly Creek (Hardin area - SARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)				Protein (%)			
	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15
	1y	2y	3y	4y	1y	2y	3y	4y	1y	2y	3y	4y
Bearpaw	65.8	59.9	48.4	49.3	59.9	60.4	58.9	57.5	12.5	12.9	**14.9***	16.0
+ **Broadview**	64.1				59.0				14.1			
CDC Falcon	64.7	56.9	45.2	47.0	59.3	60.0	58.4	56.6	13.5	13.1	14.7	15.9
Colter	62.0	59.4	47.5	47.5	60.0	60.4	58.4	56.8	13.5	13.1	**15.2***	**16.5***
Decade	58.0	63.0	50.7	50.8	58.8	59.7	58.5	56.7	13.9	13.5	**15.3***	**16.5***
Genou	58.2	54.5	44.2	44.1	59.7	60.7	59.2	57.7	13.4	13.0	**14.9***	**16.3***
Jerry	58.9	57.3	46.0	47.3	58.0	58.9	58.3	56.9	14.1	13.4	14.6	15.9
Judee	61.6	62.3	49.1	47.8	**61.3****	**62.2****	60.2	57.8	14.3	13.6	**15.1***	**16.6***
MT1078	74.7	63.6	51.9		58.3	59.4	58.2		11.8	12.2	13.6	
MT1117	59.8	57.5			**60.4***	60.6			13.0	13.1		
MT1138	68.5	68.4			60.0	60.4			13.0	12.6		
+ **MT1257**	65.9				59.5				13.1			
+ **MT1265**	67.0				59.4				13.2			
MT1286	63.0	55.0			60.0	60.6			13.3	12.9		
MTCS1204	60.0	56.9			59.4	60.1			13.0	13.8		
MTS0826-63	63.8	64.3			58.5	59.8			13.6	13.8		
+ **MTS1224**	62.8				58.2				13.3			
Northern	62.4	63.7	50.1		58.9	60.1	58.4		13.7	13.5	**15.0***	
Rampart	58.3	56.2	45.8	45.6	58.7	59.9	58.8	57.5	14.3	14.0	**15.7***	**16.8***
SY Clearstone 2CL	66.5	62.4	49.2	49.9	59.4	59.7	58.2	56.4	13.5	13.2	14.6	15.9
+ **SY Wolf**	62.5				60.0				13.7			
Warhorse	60.5	58.5	47.3	47.7	60.1	60.8	58.4	56.5	13.8	13.8	**15.8****	**17.0****
WB3768	67.2	60.9	49.0		59.3	60.1	58.4		12.9	13.0	**15.0***	
WB-Quake	59.6	57.4	44.8	45.6	59.6	60.6	59.5	57.7	12.9	12.8	14.7	15.9
Yellowstone	57.8	60.1	48.7	48.1	59.7	59.9	57.9	56.1	14.4	13.5	**15.2***	**16.3***
Average	**63.0**	**59.9**	**47.9**	**47.6**	**59.4**	**60.2**	**58.6**	**57.0**	**13.4**	**13.2**	**15.0**	**16.3**
LSD (0.05)	**ns**	**ns**	**ns**	**ns**	**1.0**	**1.0**	**ns**	**ns**		**ns**	**1.0**	**0.8**
C.V. (%)	**7.9**	**9.1**	**9.3**	**7.4**	**1.0**	**0.8**	**1.5**	**1.7**		**4.6**	**3.9**	**3.2**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 66. 2012-2015 Off-Station Winter Wheat Test (Exp. 3885): Molt (SARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)				Protein (%)			
	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15
	1y	2y	3y	4y	1y	2y	3y	4y	1y	2y	3y	4y
Bearpaw	77.8	62.4	**56.6***	**47.9***	**63.3***	**61.9***	60.6	59.7	10.1	**13.4***	13.6	14.1
+ **Broadview**	79.2				**63.4***				10.2			
CDC Falcon	77.7	68.6	**58.4***	**50.2***	**63.0***	**61.9***	60.4	59.5	10.1	12.6	13.3	13.7
Colter	74.1	58.3	**55.1***	**48.8***	60.3	59.5	59.3	58.7	10.0	**13.5***	13.5	14.1
Decade	71.0	64.4	**59.0***	**52.1****	**63.2***	**62.8****	61.2	60.2	10.2	**13.4***	13.7	**14.2***
Genou	69.2	56.9	50.3	42.5	**64.0****	**62.0***	60.3	58.9	10.4	**13.7***	13.8	**14.4***
Jerry	68.3	56.3	51.1	44.2	62.0	60.6	59.7	58.3	10.6	**13.5***	13.5	**14.3***
Judee	79.2	63.6	**55.8***	**47.2***	**62.7***	**61.4***	60.8	59.3	10.0	13.3	13.4	**14.4***
MT1078	75.7	65.4	**59.2***		60.8	60.5	58.9		9.3	12.1	13.0	
MT1117	74.7	57.0			60.9	60.1			10.3	**13.6***		
MT1138	79.0	61.6			**62.5***	60.7			9.6	13.0		
+ **MT1257**	71.4				**62.5***				10.0			
+ **MT1265**	80.1				61.1				9.9			
MT1286	78.8	62.3			**62.9***	**61.5***			9.5	12.5		
MTCS1204	78.0	59.7			**62.8***	**61.7***			10.9	**13.6***		
MTS0826-63	70.9	56.0			**63.8***	**62.1***			10.2	**13.5***		
+ **MTS1224**	75.8				**62.7***				10.4			
Northern	83.0	67.0	**62.1***		**62.6***	61.3	60.7		10.0	13.3	13.4	
Rampart	69.0	54.9	49.3	42.4	61.9	61.2	60.4	59.2	11.1	**14.1****	14.3	**14.9****
SY Clearstone 2CL	66.8	56.2	53.5	**46.4***	61.5	60.5	59.0	58.2	9.8	12.9	12.9	13.5
+ **SY Wolf**	77.1				**62.7***				10.5			
Warhorse	73.9	61.7	**55.2***	**47.5***	**62.8***	**61.5***	60.1	59.4	10.5	**13.5***	13.9	**14.5***
WB3768	80.6	67.9	**62.5****		61.5	60.9	60.3		9.7	13.0	13.4	
WB-Quake	74.7	59.0	52.4	45.4	**63.2***	**61.7***	60.4	59.2	9.4	12.9	13.2	13.8
Yellowstone	74.3	59.6	**57.4***	**50.5***	61.8	59.9	59.5	58.6	9.7	13.0	12.7	13.4
Average	**75.2**	**60.9**	**55.9**	**47.1**	**62.4**	**61.2**	**60.1**	**59.1**	**10.1**	**13.2**	**13.4**	**14.1**
LSD (0.05)	**ns**	**ns**	**7.5**	**6.2**	**1.8**	**1.4**	**ns**	**ns**		**0.8**	**ns**	**0.7**
C.V. (%)	**8.2**	**7.2**	**8.0**	**9.1**	**1.7**	**1.1**	**1.7**	**1.7**		**2.8**	**4.3**	**3.5**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 67. 2012//2014 Off-Station Winter Wheat Test (Exp. 3886): Ft. Smith (SARC) Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)		Protein (%)	
	2014			2012//14	2014	2012//14	2014	2012//14
	1y			2y	1y	2y	1y	2y
Bearpaw	**Nursery not planted**	81.1	**Nursery not planted in 2013, drought**	77.4	59.5	59.7	14.5	14.6
+ **Broadview**								
CDC Falcon		74.6		71.0	59.8	59.8	14.0	14.1
Colter		84.6		77.0	60.4	59.3	15.6	**15.5***
Decade		65.5		69.5	58.5	58.3	14.4	**15.0***
Genou		67.3		64.0	57.4	58.9	**16.6****	**16.1****
Jerry		76.2		69.2	58.9	58.3	14.6	**15.4***
Judee		89.4		77.5	60.0	59.6	14.8	**15.2***
MT1078		88.6			59.2		14.1	
MT1117		82.9			**61.2***		14.7	
MT1138		83.0			60.6		14.5	
+ **MT1257**								
+ **MT1265**								
MT1286		66.3			**62.1****		14.1	
MTCS1204		85.5			60.8		14.8	
MTS0826-63		60.2			58.8		**16.3***	
+ **MTS1224**								
Northern		87.9			60.8		14.5	
Rampart		67.5		63.7	58.2	58.8	**16.5***	**16.1****
SY Clearstone 2CL		74.4		79.0	59.2	59.3	15.4	14.8
+ **SY Wolf**								
Warhorse		74.9		70.7	60.7	60.6	15.8	**15.6***
WB3768		62.4			**61.2***		14.3	
WB-Quake		85.9		73.7	58.5	59.1	14.6	14.5
Yellowstone		83.1		78.7	61.0	59.9	14.4	14.6
Average		**79.8**		**73.5**	**59.9**	**59.5**	**14.7**	**15.0**
LSD (0.05)		**6.4**		**ns**	**0.9**	**ns**	**0.7**	**1.2**
C.V. (%)		**4.9**		**9.2**	**0.9**	**1.8**	**3.0**	**3.8**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 68. 2012-2015 Off-Station Winter Wheat Test (Exp. 38): Combined Locations - Yield, Test Weight and Protein

Cultivar/Line	Grain Yield (bu/a)				Test Weight (lb/bu)				Protein (%)			
	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15	2015	2014-15	2013-15	2012-15
location-years	15	29	43	60	15	29	43	60	15	28	42	59
Bearpaw	54.6	57.3	56.9	53.6	58.0	59.4	59.4	58.8	12.0	12.9	13.2	13.6
+ **Broadview**	54.3				57.7				12.3			
CDC Falcon	**55.3***	58.8	58.0	55.6	58.0	59.2	59.0	58.5	12.0	12.7	12.9	13.2
Colter	**57.7***	**61.7***	**60.0***	**56.9***	58.9	59.8	59.5	59.0	12.2	12.9	13.1	13.5
Decade	**55.2***	58.9	58.4	55.7	58.4	59.7	59.5	**59.1***	12.2	12.9	13.1	13.5
Genou	48.1	52.4	51.8	48.9	58.6	59.6	59.4	58.8	12.4	13.0	13.2	13.8
Jerry	53.1	55.5	54.4	51.0	57.6	58.6	58.7	58.2	12.2	12.9	13.1	13.6
Judee	48.8	55.0	54.9	51.8	**59.1***	**60.2****	**60.1****	**59.4****	12.4	13.0	13.1	13.7
MT1078	**57.7***	**61.5***	**61.3***		57.1	58.5	58.3		11.6	12.2	12.4	
MT1117	**55.5***	59.7			**59.1***	**60.0***			12.2	12.9		
MT1138	**58.5***	**63.8****			58.3	59.4			11.7	12.4		
+ **MT1257**	**57.2***				57.8				12.0			
+ **MT1265**	**58.7****				58.4				11.9			
MT1286	**57.6***	60.0			**59.3***	**59.9***			11.7	12.4		
MTCS1204	52.2	57.9			58.9	**60.1***			12.3	13.0		
MTS0826-63	52.3	55.6			58.6	59.7			12.5	13.3		
+ **MTS1224**	55.7*				58.1				12.3			
Northern	56.8*	**60.9***	**60.6***		58.1	59.3	59.4		12.4	13.1	13.1	
Rampart	44.6	50.7	50.0	47.2	58.4	59.6	59.5	58.9	**13.2****	**13.7****	**13.8****	**14.2****
SY Clearstone 2CL	52.8	58.4	58.5	**56.8***	57.7	58.8	58.7	58.2	12.3	12.8	12.9	13.3
+ **SY Wolf**	**56.0***				**59.6****				12.2			
Warhorse	50.4	54.9	54.9	52.5	58.2	59.5	59.3	58.9	12.5	13.2	13.3	13.6
WB3768	**58.5***	**61.2***	**60.5***		59.0	**59.9***	**59.9***		12.0	12.7	12.9	
WB-Quake	48.0	54.1	54.1	51.3	58.3	59.5	59.4	58.8	11.9	12.7	12.9	13.2
Yellowstone	**58.1***	**62.3***	**61.4****	**57.5****	58.5	59.3	59.1	58.6	12.0	12.6	12.8	13.3
Average	**54.3**	**58.0**	**57.1**	**53.3**	**58.4**	**59.5**	**59.3**	**58.8**	**12.2**	**12.9**	**13.1**	**13.5**
LSD (0.05)	**3.5**	**3.0**	**2.4**	**2.0**	**0.6**	**0.4**	**0.3**	**0.3**	**0.4**	**0.3**	**0.3**	**0.2**
C.V. (%)	**9.0**	**9.9**	**9.9**	**10.2**	**1.5**	**1.4**	**1.4**	**1.5**	**4.2**	**4.3**	**4.6**	**4.7**

+ = new for 2015

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 69. 2010-2015 Intrastate (Exp. 35) and Off-Station (Exp. 38) Winter Wheat Tests: Combined Locations Yield

Cultivar/Line	Grain Yield (bu/a)					
	2015	2014-15	2013-15	2012-15	2011-15	2010-15
Location-years	21	41	62	87	110	130
Bearpaw	55.7	61.3	60.2	56.6	56.4	58.4
+ **Broadview**	56.5					
CDC Falcon	58.6	64.3	62.9	59.8	58.7	60.0
Colter	**64.5***	**69.9***	**68.2***	**64.5***		
Decade	56.2	62.8	62.2	58.8	58.1	60.3
Genou	49.8	56.8	56.0	52.2	51.7	53.3
Jerry	54.4	59.7	58.5	54.9	54.1	55.5
Judee	53.1	61.0	60.6	57.0	57.5	58.8
MT1078	**63.4***	**68.9***	**68.4***			
MT1117	**61.7***	67.7				
MT1138	**65.3****	**71.8****				
+ **MT1257**	**64.6***					
+ **MT1265**	**64.1***					
MT1286	**62.8***	67.6				
MTCS1204	56.5	63.6				
MTS0826-63	57.1	61.7				
+ **MTS1224**	**62.5***					
Northern	**63.3***	**69.0***	**68.4***			
Rampart	48.6	56.5	55.6	52.0	51.9	53.0
SY Clearstone 2CL	59.6	66.6	66.3	**63.4***		
+ **SY Wolf**	**60.3***					
Warhorse	55.7	61.3	61.5	58.3	58.8	
WB3768	**64.0***	**68.6***	**67.9***			
WB-Quake	53.2	60.0	60.1	56.8	57.9	
Yellowstone	**65.2***	**70.6***	**69.5****	**65.3****	**65.4****	**66.7****
Average	**59.1**	**64.5**	**63.1**	**58.3**	**57.1**	**58.3**
LSD (0.05)	**5.0**	**3.2**	**2.9**	**2.4**	**2.2**	**1.9**
C.V. (%)	**14.1**	**11.3**	**12.9**	**13.9**	**14.8**	**13.5**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 70. 2010-2015 Intrastate (Exp. 35) and Off-Station (Exp. 38) Winter Wheat Tests: Combined Locations Test Weight

Cultivar/Line	Grain Yield (bu/a)					
	2015	2014-15	2013-15	2012-15	2011-15	2010-15
Location-years	21	40	61	86	109	129
Bearpaw	58.1	59.4	59.0	58.6	59.0	59.0
+ **Broadview**	57.7					
CDC Falcon	58.2	59.3	59.0	58.6	58.9	58.9
Colter	59.2	59.9	59.6	**59.2***		
Decade	58.5	59.6	59.2	58.9	59.1	59.2
Genou	58.9	59.7	59.4	58.9	59.2	59.2
Jerry	57.7	58.6	58.4	58.1	58.4	58.4
Judee	59.4	**60.3****	**60.1****	**59.4****	**59.7****	**59.7****
MT1078	57.4	58.6	58.4			
MT1117	59.4	**60.1***				
MT1138	58.8	59.6				
+ **MT1257**	58.4					
+ **MT1265**	58.6					
MT1286	**59.7***	**60.2***				
MTCS1204	59.2	**60.2***				
MTS0826-63	59.0	59.8				
+ **MTS1224**	58.6					
Northern	58.7	59.6	59.5			
Rampart	58.8	59.7	59.6	**59.2***	**59.5***	**59.4***
SY Clearstone 2CL	58.1	59.0	58.8	58.3		
+ **SY Wolf**	**60.0****					
Warhorse	58.5	59.6	59.4	59.0	59.3	
WB3768	**59.5***	**60.0***	**59.9***			
WB-Quake	58.7	59.7	59.5	**59.1***	59.3	
Yellowstone	58.9	59.5	59.3	58.8	59.1	59.0
Average	**58.7**	**59.6**	**59.3**	**58.9**	**59.2**	**59.1**
LSD (0.05)	**0.6**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**
C.V. (%)	**1.7**	**1.5**	**2.1**	**2.3**	**2.4**	**2.3**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 71. 2010-2015 Intrastate (Exp. 35) and Off-Station (Exp. 38) Winter Wheat Tests: Combined Locations Protein

Cultivar/Line	Grain Yield (bu/a)					
	2015	2014-15	2013-15	2012-15	2011-15	2010-15
Location-years	21	40	61	86	109	129
Bearpaw	12.3	13.0	13.2	13.5	13.3	13.1
+ **Broadview**	12.4					
CDC Falcon	12.2	12.7	12.9	13.1	12.9	12.7
Colter	12.3	12.9	13.1	13.3		
Decade	12.4	13.0	13.2	13.4	13.3	13.1
Genou	12.6	13.1	13.2	13.7	13.5	13.3
Jerry	12.3	12.9	13.1	13.4	13.2	13.0
Judee	12.6	13.1	13.1	13.6	13.4	13.2
MT1078	11.7	12.2	12.4			
MT1117	12.3	12.9				
MT1138	11.8	12.4				
+ **MT1257**	12.0					
+ **MT1265**	12.0					
MT1286	11.9	12.4				
MTCS1204	12.4	13.0				
MTS0826-63	12.9	13.4				
+ **MTS1224**	12.3					
Northern	12.5	13.0	13.1			
Rampart	**13.3****	**13.7****	**13.8****	**14.1****	**14.0****	**13.8****
SY Clearstone 2CL	12.3	12.7	12.8	13.1		
+ **SY Wolf**	12.3					
Warhorse	12.6	13.2	13.3	13.5	13.4	
WB3768	12.1	12.6	12.8			
WB-Quake	12.2	12.7	12.9	13.2	13.1	
Yellowstone	11.9	12.5	12.7	13.0	12.9	12.7
Average	**12.3**	**12.9**	**13.0**	**13.4**	**13.3**	**13.1**
LSD (0.05)	**0.4**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**
C.V. (%)	**4.9**	**4.5**	**4.7**	**4.9**	**5.1**	**5.1**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 72. 2010//2015 Havre, Loma, North Havre, and Turner Winter Wheat Tests: Combined Locations Yield under Sawfly Pressure and % Sawfly Cutting (Note: Sawfly cutting in each location-year ≥10%)

	No Sawfly Cutting at Havre (2.1%) or Loma (4.4%) >10% in 2014									
Cultivar/Line	Grain Yield (bu/a)					Sawfly Cutting (%)				
+ = new for 2015	2015	2013//15	2012//15	2011//15	2010//15	2015	2013//15	2012//15	2011//15	2010//15
Location-years	1	3	6	8	10	1	3	6	8	10
Bearpaw	50.8	58.9	52.9	49.0	**51.4***	**7***	11	**10***	**10***	**9***
+ **Broadview**	48.3					**7***				
CDC Falcon	**53.1***	59.9	53.1	49.9	**52.7***	**3***	**6***	24	20	27
Colter	41.4	54.6	50.0			22	23	36		
Decade	46.6	57.6	53.8	49.4	**52.9***	**4***	**12***	24	23	28
Genou	42.2	56.9	51.2	47.7	49.5	9	13	**14***	**14***	**18***
Jerry	45.3	54.6	47.5	45.8	47.7	13	14	30	29	35
Judee	43.4	60.6	**54.1***	51.2	**53.7***	**1***	**12***	**14***	**11***	**15***
MT1078	49.3	**62.2***				23	20			
MT1117	43.4					15				
MT1138	47.8					16				
+ **MT1257**	46.7					26				
+ **MT1265**	**52.9***					15				
MT1286	51.4					25				
MTCS1204	46.7					8				
MTS0826-63	45.7					**3***				
+ **MTS1224**	46.2					12				
Northern	**55.1****	**67.4****				15	13			
Rampart	46.7	56.7	48.1	45.2	47.3	**2***	**7***	**8***	**8***	**8****
SY Clearstone 2CL	49.3	**62.2***	**59.3****			18	17	31		
+ **SY Wolf**	49.9					9				
Warhorse	44.3	58.5	**54.5***	49.6		**0****	**4****	**3****	**3****	
WB3768	49.2	60.5				29	24			
WB-Quake	44.0	60.0	50.8	49.7		**3***	13	**11***	**10***	
Yellowstone	46.4	60.1	**54.4***	51.0	**54.8****	15	14	30	26	32
Average	**47.4**	**59.4**	**47.6**	**48.8**	**51.2**	**11.9**	**13.5**	**19.0**	**15.4**	**21.5**
LSD (0.05)	**3.4**	**6.5**	**5.0**	**ns**	**3.7**	**8.4**	**9.2**	**17.3**	**12.5**	**13.6**
C.V. (%)	**3.8**	**6.5**	**9.0**	**8.9**	**8.0**	**39**	**41**	**79**	**81**	**71**

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

Table 73. 2003-2015 All Locations with % Sawfly Cutting data (incl. selected variety cutting)

Location	Year	Cutting %	Rampart	Genou	Judee	Bear-paw	WB-Quake	War-horse	CDC Falcon	Yellow-stone
			% cutting							
Havre	**2015**	**5**	**1**	**1**	**1**	**2**	**1**	**2**	**7**	**2**
Havre	**2014**	**2**	**1**	**1**	**1**	**1**	**5**	**1**	**1**	**2**
Havre	**2013**	**10**	**4**	**7**	**5**	**6**	**4**	**2**	**5**	**10**
Havre	**2012**	**8**	**0**	**6**	**2**	**3**	**4**	**2**	**7**	**9**
Havre (no harv.)	**2011**	**6**	**0**	**1**	**4**	**1**	**3**	**1**	**2**	**4**
Havre	**2010**	**12**	**6**	**16**	**5**	**2**	**2**	**1**	**7**	**9**
Havre	**2009**	**22**	**0**	**1**	**4**	**1**			**16**	**21**
Havre	**2008**	**23**	**13**	**9**	**8**				**33**	**18**
Havre	**2007**	**27**	**0**	**8**					**28**	**40**
Havre	**2006**	**25**	**3**	**8**					**27**	**23**
Havre	**2005**	**32**	**8**	**18**					**31**	**43**
Turner	**2014**	hail - no harvest								
Turner	**2013**	**3**	**2**	**1**	**1**	**1**	**1**	**1**	**4**	**7**
Turner	**2012**	**18**	**12**	**18**	**8**	**20**	**10**	**2**	**18**	**18**
Turner	**2011**	**13**	**1**	**7**	**1**	**4**	**2**	**1**	**12**	**20**
North Havre	**2010**	**6**	**1**	**4**	**4**	**1**			**2**	**10**
North Havre	**2009**	poor stand - no harv.								
North Havre	**2008**	**40**	**22**	**30**					**40**	**50**
North Havre	**2007**	**53**	**12**	**20**					**50**	**82**
North Havre	**2006**	**34**	**4**	**4**					**53**	**73**
North Havre	**2005**	**54**	**7**	**8**					**48**	**70**
North Havre	**2004**	winterkill - no harv.								
North Havre	**2003**	**46**	**3**	**8**					**43**	**43**
Loma	**2015**	**12**	**2**	**9**	**1**	**7**	**3**	**0**	**3**	**15**
Loma	**2014**	**4**	**1**	**4**	**4**	**1**	**4**	**1**	**4**	**5**
Loma	**2013**	**20**	**17**	**23**	**30**	**20**	**33**	**8**	**10**	**15**
Loma	**2012**	**65**	**17**	**27**	**32**	**13**	**13**	**5**	**87**	**98**
Loma	**2011**	**19**	**10**	**22**	**10**	**10**	**15**	**5**	**15**	**22**
Loma	**2010**	**72**	**10**	**52**	**53**	**8**			**100**	**99**
Loma	**2009**	**60**	**17**	**50**	**32**				**63**	**85**
Loma	**2008**	**7**	**4**	**4**					**1**	**10**
Loma	**2007**	**4**	**0**	**2**					**1**	**2**
Loma	**2006**	none recorded								
Loma	**2005**	**2**	**0**	**0**					**0**	**0**
Willow Creek	**2012**	**10**	**1**	**2**	**2**	**2**	**2**	**1**	**13**	**12**
Denton	**2010**	**7**	**2**	**2**	**2**	**1**			**6**	**25**
Geraldine	**2008**	**4**	**2**	**1**					**2**	**5**