

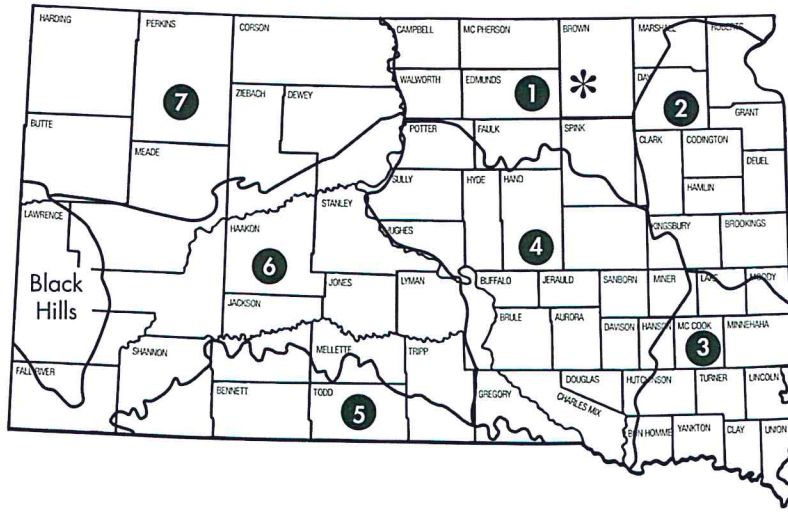
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Recommended Winter Wheat Varieties for Fall 2015 by Crop Zone†

Zone - 1 ^{pc}	Zone - 2 ^{pc}	Zone - 3	Zone - 4 ^{pc}	Zone - 5	Zone - 6	Zone - 7 ^{pc}
Ideal‡	Ideal‡	Ideal‡	Ideal‡	Ideal‡	Ideal‡	Ideal‡
Lyman	Lyman	Lyman	Lyman	Redfield	Lyman	Lyman
Redfield	Expedition	Redfield	Redfield	Freeman‡	Redfield	Redfield
Freeman‡	Freeman‡	Freeman‡	Freeman‡	Millenium‡	Freeman‡	Freeman‡
WB-Matlock‡	Overland	WB-Grainfield	WB-Grainfield	LCS Mint	LCS Mint	WB-Grainfield
Overland	SY Wolf‡	WB-Matlock‡	Millenium‡	Overland	SY Wolf‡	Millenium‡
SY Wolf‡		Overland	Overland	SY Wolf‡		LCS Mint
		SY Wolf‡	SY Wolf‡			Overland
						SY Wolf‡

Promising

	WB-Matlock‡	Decade		Denali	Decade	
		Denali			Denali	

* Multi-year averages are not available for this zone, however it is suggested to select a variety that appears frequently in the recommended list across all zones for the state or neighboring zones.

† Crop Zones for small grains are base on soil & climate information.

^{pc} plant in protective cover to improve winter survival in Crop Zones 1, 2, 4, & 7 and in other zones when planting varieties with (Fair) or lower winterhardiness ratings

‡ Variety is susceptible or moderately susceptible to Fusarium Head Blight (Scab).

Table 1a. 2015 East River Winter Wheat Performance - Yield (13% moisture), Test Weight (harvest moisture), and Protein (13% moisture).

Variety	Crop Zone - 1			Crop Zone - 2					
	Selby			Brookings			Brookings w/Fung.#		
	Yield	Test Wt.	Protein	Yield	Test Wt.	Protein	Yield	Test Wt.	Protein
Alice (White)	82	59.4	13.4	38	55.9	12.3	46	60.9	11.2
Antero (White)†	77	56.7	13.7	44	56.4	11.2	60	61.8	10.1
Brawl CL Plus	74	58.9	14.7	26	54.3	13.3	37	60.4	12.4
Byrd	64	56.8	13.5	32	55.1	11.5	46	60.4	10.7
LCS Compass†	79	61.0	14.4	38	58.1	12.0	49	62.5	11.5
Decade	65	54.4	15.3	39	55.2	11.3	50	60.5	11.0
Denali	71	57.3	12.8	41	55.8	11.0	59	62.0	9.7
AC Emersont	80	60.4	14.6	50	59.8	11.6	47	61.7	11.7
Expedition	82	59.1	12.7	36	58.0	11.4	42	61.3	11.5
Freeman	87	56.7	13.4	47	57.0	10.6	48	59.9	10.5
WB-Grainfield	86	58.9	14.3	37	55.8	11.8	50	61.0	11.0
Ideal	83	59.2	13.2	43	57.6	11.3	51	61.4	10.3
LCH13NEDH-7-45†	87	58.0	14.1	42	54.9	10.8	54	60.8	10.5
Lyman	89	61.5	14.5	47	59.9	11.9	53	62.4	11.5
WB-Matlock	89	60.9	13.3	39	57.5	12.1	59	61.6	11.2
Millennium	86	60.1	13.9	40	58.5	11.1	50	61.2	10.4
LCS Mint	67	58.6	13.5	40	56.9	10.7	53	62.9	11.0
SY Monument†	77	56.3	13.8	38	53.9	12.1	58	59.9	10.4
NE10589†	75	57.0	13.4	38	55.0	11.6	52	60.9	10.8
Overland	89	60.0	13.4	45	58.4	11.1	55	61.4	10.2
Redfield	87	59.0	13.9	40	56.4	11.5	57	61.8	10.8
T158	78	57.9	13.9	29	54.1	11.9	45	60.7	11.3
WB4059CLP†	-	-	-	23	51.3	13.6	28	58.6	13.0
WB4614†	59	54.6	15.2	28	52.6	12.4	56	60.4	11.0
Wesley	75	56.3	15.0	40	55.7	12.4	47	59.2	12.0
SY Wolf	80	58.4	14.5	47	58.4	11.1	53	61.3	10.6
Trial Average	80	58.4	14.0	38	56.4	11.6	49	60.9	11.1
LSD(0.05)‡	9	1.6	0.8	7	0.9	0.7	8	1.0	0.9
TPG value§	86	59.9	14.5	43	59.0	12.9	52	61.9	12.1
CV(%)¶	8.1	2.0	4.2	12.7	1.2	4.3	11.6	1.2	5.4

Foliar fungicide applied at flowering.

† New entry in 2015, not previously tested.

‡ Yield, test weight, or protein value required (\geq LSD) to determine if varieties are statistically different than one another, § minimum value required to be in the top performance group (TPG) of varieties (**in boldface**), ¶ Coefficient of Variation (C.V.) is a measure of the variability of the experimental error, 15% or less is acceptable.

Table 1b. 2015 East River Winter Wheat Performance, continued - Yield (13% moisture), Test Weight (harvest moisture), and Protein (13% moisture).

Variety	Crop Zone - 3			Crop Zone - 4			Crop Zones 1,2,3, & 4			
	Beresford			Onida			East River Average*			
	Yield	Test Wt.	Protein	Yield	Test Wt.	Protein	Yield	TPG%	Test Wt.	Protein
Alice (White)	82	58.9	13.0	57	57.1	13.3	61	0	58.4	12.7
Antero (White)†	86	60.1	12.5	70	59.0	12.4	67	40	58.8	12.0
Brawl CL Plus	91	60.9	13.0	57	58.3	13.4	57	0	58.6	13.3
Byrd	89	60.5	12.0	56	57.4	11.8	57	0	58.0	11.9
LCS Compass†	102	59.5	11.5	50	59.2	12.8	64	20	60.1	12.4
Decade	88	59.8	12.6	55	54.7	12.9	59	0	57.0	12.6
Denali	99	59.4	12.1	55	57.7	12.3	65	20	58.5	11.6
AC Emerson†	88	59.2	12.5	63	57.9	13.5	66	20	59.8	12.8
Expedition	99	61.2	12.2	50	57.5	12.4	61	20	59.4	12.0
Freeman	90	59.2	12.1	58	55.3	12.6	66	40	57.7	11.9
WB-Grainfield	86	61.3	12.8	65	57.4	13.1	65	0	58.9	12.6
Ideal	91	58.8	12.3	55	55.8	12.4	64	0	58.5	11.9
LCH13NEDH-7-45†	87	58.0	12.6	71	56.7	12.7	68	60	57.7	12.1
Lyman	85	60.4	12.4	66	60.0	12.6	68	60	60.8	12.6
WB-Matlock	80	59.3	12.8	55	58.6	13.6	64	20	59.5	12.6
Millenium	88	59.2	11.9	61	58.8	12.5	65	0	59.4	12.0
LCS Mint	88	60.9	12.3	60	58.8	12.0	61	20	59.6	11.9
SY Monument†	92	60.4	12.1	66	55.1	13.0	66	20	57.1	12.2
NE10589†	89	59.7	12.6	62	57.5	12.7	62	0	58.3	12.3
Overland	82	59.7	12.2	64	58.4	12.2	67	60	59.5	11.8
Redfield	89	58.8	12.4	63	57.6	13.5	67	40	58.7	12.4
T158	99	60.6	11.5	57	57.8	12.4	62	20	58.2	12.2
WB4059CLP†	85	59.8	12.7	32	52.2	13.7	46	0	57.3	13.3
WB4614†	86	60.0	12.6	54	56.1	13.9	56	20	56.7	13.0
Wesley	86	59.7	11.8	47	53.6	13.8	59	0	56.9	13.0
SY Wolf	89	60.2	12.5	69	58.8	13.6	68	40	59.4	12.5
Trial Average	89	59.8	12.4	60	57.5	12.9	62	-	58.5	12.4
LSD(0.05)‡	9	1.8	0.8	6	1.0	0.6	4	-	0.6	0.4
TPG value§	93	59.5	12.2	67	59.0	13.3	66	-	60.2	12.9
CV(%)¶	8.8	2.7	5.6	6.9	1.2	3.3	9.6	-	1.7	4.5

† New entry in 2015, not previously tested.

‡ Yield, test weight, or protein value required (\geq LSD) to determine if varieties are statistically different than one another, § minimum value required to be in the top performance group (TPG) of varieties (in boldface), ¶ Coefficient of Variation (C.V.) is a measure of the variability of the experimental error, 15% or less is acceptable.

* Locations at Pierre, Platte, and South Shore were abandoned due to winterkill.

Table 2a. 2015 West River Winter Wheat Performance - Yield (13% moisture), Test Weight (harvest moisture), and Protein (13% moisture).

Variety	Crop Zone - 5						Crop Zone - 6					
	Martin			Hayes			Kennebec			Sturgis		
	Yield	Test Wt.	Protein	Yield	Test Wt.	Protein	Yield	Test Wt.	Protein	Yield	Test Wt.	Protein
Alice (White)	43	49.7	12.3	78	56.0	12.9	52	50.0	12.4	69	58.6	11.0
Antero (White)†	48	48.6	11.7	68	57.9	11.7	49	48.4	12.5	85	57.9	9.6
Brawl CL Plus	43	48.2	13.0	67	56.1	13.2	40	45.2	13.2	63	57.6	11.6
Byrd	46	52.0	11.0	69	56.3	12.0	39	45.3	12.3	68	57.9	9.7
LCS Compass†	51	52.9	12.0	70	57.1	12.7	40	47.8	12.7	60	57.6	11.5
Decade	37	46.0	12.0	84	57.7	12.9	40	41.8	12.8	71	55.5	10.6
Denali	59	53.0	11.5	81	57.1	12.4	44	47.3	12.2	75	57.6	9.6
AC Emersont	45	50.2	12.3	66	54.5	13.5	54	50.6	13.2	69	56.2	11.7
Expedition	50	53.6	11.4	71	55.8	13.1	49	48.1	12.1	63	56.5	10.6
Freeman	56	52.8	10.9	78	55.0	12.5	50	45.8	12.3	80	58.2	10.2
WB-Grainfield	48	49.1	11.9	79	56.7	12.8	63	52.6	12.5	82	58.9	10.6
Ideal	51	51.2	11.5	78	56.8	12.8	43	45.0	12.7	72	56.4	10.0
LCH13NEDH-7-45†	44	48.5	11.6	94	56.6	12.0	61	49.1	12.2	76	57.9	10.0
Lyman	45	54.0	12.9	69	55.9	13.1	55	49.6	12.1	63	58.4	11.7
WB-Matlock	36	47.9	12.5	73	55.4	13.0	45	46.3	12.8	61	56.6	11.0
Millennium	47	53.8	11.3	72	57.6	12.8	57	50.2	11.7	68	58.1	11.3
LCS Mint	46	49.4	11.5	79	55.7	12.6	52	49.2	12.4	87	57.5	10.2
SY Monument†	45	47.7	12.0	84	56.5	13.0	58	51.1	12.8	82	57.1	10.7
NE10589†	50	50.7	11.5	92	55.9	12.0	63	50.8	11.9	73	58.1	10.9
Overland	47	52.2	11.6	73	57.6	12.7	54	49.2	11.8	72	58.1	10.6
Redfield	45	48.3	12.2	80	57.5	12.7	58	50.5	12.6	74	57.8	10.8
T158	44	49.9	12.3	73	55.9	12.5	46	49.2	12.7	70	57.7	11.3
WB4059CLP†	33	43.6	12.4	65	53.3	13.6	12	36.1	12.5	57	53.3	11.7
WB4614†	44	48.2	12.0	71	55.7	13.3	49	46.8	13.5	86	57.1	10.0
Wesley	43	51.3	12.5	74	54.6	12.8	44	44.5	12.3	68	55.8	11.4
SY Wolf	56	51.6	12.1	80	56.6	12.4	75	50.8	13.0	76	57.5	10.8
Trial Average	48	50.7	11.9	75	56.0	12.8	53	48.5	12.5	73	57.4	10.7
LSD(0.05)‡	6	2.1	0.5	11	1.6	0.6	11	2.7	0.7	6	1.5	0.5
TPG value§	55	52.5	12.5	83	56.3	13.0	67	50.3	12.8	80	57.9	11.2
CV(%)¶	11.8	4.3	3.1	13.7	2.9	3.9	14.7	4.0	4.1	6.2	1.9	3.6

† New entry in 2015, not previously tested.

‡ Yield, test weight, or protein value required (\geq LSD) to determine if varieties are statistically different than one another, § minimum value required to be in the top performance group (TPG) of varieties (**in boldface**), ¶ Coefficient of Variation (C.V.) is a measure of the variability of the experimental error, 15% or less is acceptable.

Table 2b. 2015 West River Winter Wheat Performance, continued - Yield (13% moisture), Test Weight (harvest moisture), and Protein (13% moisture).

Variety	Crop Zone - 6								
	Wall			Winner			Winner w/Fung.#		
	Yield	Test Wt.	Protein	Yield	Test Wt.	Protein	Yield	Test Wt.	Protein
Alice (White)	61	58.6	10.7	56	59.0	13.4	55	59.8	13.5
Antero (White)†	81	58.5	9.3	79	61.8	11.5	83	62.6	11.0
Brawl CL Plus	65	57.2	11.7	57	60.9	13.5	58	60.9	13.5
Byrd	74	58.6	9.8	60	60.7	12.2	81	62.8	11.0
LCS Compass†	62	58.8	10.6	52	60.6	13.1	59	61.7	12.7
Decade	76	55.9	10.1	53	58.2	13.2	63	58.5	12.9
Denali	90	59.3	9.6	52	57.8	12.1	64	60.2	12.1
AC Emerson†	67	55.3	11.1	35	55.5	15.0	39	57.7	15.5
Expedition	74	59.3	10.2	51	59.4	13.6	62	60.6	13.0
Freeman	66	56.5	10.1	62	57.9	12.6	70	59.9	11.8
WB-Grainfield	74	59.2	10.3	47	59.4	14.5	70	61.8	11.5
Ideal	77	55.5	9.5	64	59.9	12.7	70	60.9	12.2
LCH13NEDH-7-45†	72	57.1	9.7	65	59.7	13.4	74	61.4	12.0
Lyman	64	57.6	11.3	63	61.3	14.0	69	62.5	13.2
WB-Matlock	61	57.0	10.7	47	58.6	13.6	59	60.1	13.1
Millennium	63	57.8	10.5	64	60.1	13.3	62	60.9	12.9
LCS Mint	77	58.6	9.3	62	61.2	12.5	62	62.4	11.9
SY Monument†	87	56.8	10.3	67	59.5	13.3	63	60.2	11.8
NE10589†	63	58.1	10.1	63	60.9	12.2	71	61.0	11.7
Overland	68	58.4	10.4	60	59.7	13.1	70	60.6	12.5
Redfield	83	58.9	10.0	58	60.2	13.8	66	60.5	12.4
T158	67	56.2	10.5	60	61.3	12.3	65	61.1	12.0
WB4059CLP†	55	55.0	10.6	26	53.8	14.1	41	57.3	14.1
WB4614†	81	57.6	10.5	50	57.1	13.8	66	59.4	12.7
Wesley	66	58.2	10.2	49	56.4	14.2	53	57.6	13.8
SY Wolf	67	55.4	10.2	71	61.1	13.4	64	61.5	12.4
Trial Average	71	57.5	10.3	58	59.4	13.3	63	60.5	12.6
LSD(0.05)‡	7	1.4	0.8	9	2.1	1.0	6	0.8	0.6
TPG value§	83	57.9	10.9	70	59.7	14.0	76	62.0	14.9
CV(%)¶	10.4	2.5	5.2	9.7	2.2	4.7	6.0	0.7	3.1

Foliar fungicide applied at flowering.

† New entry in 2015, not previously tested.

‡ Yield, test weight, or protein value required (\geq LSD) to determine if varieties are statistically different than one another, § minimum value required to be in the top performance group (TPG) of varieties (**in boldface**), ¶ Coefficient of Variation (C.V.) is a measure of the variability of the experimental error, 15% or less is acceptable.



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2015 South Dakota Winter Wheat Variety Trial Results

Table 2c. 2015 West River Winter Wheat Performance, continued - Yield (13% moisture), Test Weight (harvest moisture), and Protein (13% moisture).

Variety	Crop Zone - 7						Crop Zones - 5, 6 & 7			
	Bison			McLaughlin			West River Average			
	Yield	Test wt	Protein	Yield	Test wt	Protein	Yield	TPG%	Test Wt.	Protein
Alice (White)	44	52.6	12.7	37	49.9	13.8	55	0	54.9	12.5
Antero (White)†	51	53.5	11.1	41	47.7	12.8	65	33	55.0	11.2
Brawl CL Plus	55	54.1	12.5	31	46.3	13.8	53	11	54.2	12.9
Byrd	59	54.7	10.9	28	49.3	13.1	58	22	55.4	11.3
LCS Compass†	41	54.3	12.3	41	54.3	13.9	53	0	56.2	12.4
Decade	52	50.7	12.3	35	49.5	13.7	57	11	52.3	12.3
Denali	62	51.6	11.6	36	48.7	13.2	63	33	54.7	11.6
AC Emerson†	50	54.5	13.8	53	57.3	13.5	53	11	54.7	13.3
Expedition	49	53.0	11.7	36	46.8	13.4	56	0	54.9	12.1
Freeman	55	51.5	11.9	43	51.9	13.3	62	22	54.6	11.7
WB-Grainfield	57	54.7	11.8	46	53.2	13.4	63	22	56.1	12.1
Ideal	54	53.2	11.9	39	50.2	12.5	61	11	54.2	11.7
LCH13NEDH-7-45†	41	52.6	12.6	52	53.4	13.0	64	22	55.2	11.8
Lyman	49	56.4	12.7	48	53.8	13.6	58	0	56.8	12.7
WB-Matlock	28	51.3	13.1	42	53.3	13.9	50	0	54.1	12.7
Millennium	40	54.7	12.5	48	57.0	12.8	58	0	56.6	12.1
LCS Mint	49	52.2	12.5	41	51.1	13.1	62	11	55.3	11.8
SY Monument†	54	51.1	12.3	49	48.8	13.2	65	56	54.3	12.1
NE10589†	47	52.5	12.2	41	52.7	13.8	63	11	55.8	11.8
Overland	53	53.8	12.3	43	53.1	12.9	60	11	55.6	12.0
Redfield	50	52.2	12.4	38	50.8	13.6	61	11	54.9	12.3
T158	59	53.6	11.6	45	47.9	13.1	59	11	54.8	12.0
WB4059CLP†	39	46.0	12.9	28	45.7	14.0	40	0	49.3	12.9
WB4614†	46	51.0	12.5	30	47.2	13.7	58	11	53.3	12.4
Wesley	61	49.3	12.4	34	48.4	13.6	55	11	52.9	12.6
SY Wolf	53	50.0	12.6	55	51.2	13.1	66	56	55.1	12.2
Trial Average	49	53.0	12.3	42	51.0	13.4	59	-	54.6	12.2
LSD(0.05)‡	10	2.4	1.0	8	4.1	0.6	4	-	0.9	0.4
TPG value§	52	54.0	12.8	49	53.0	13.4	62	-	57.0	12.9
CV(%)¶	20.3	3.2	5.3	13.7	5.9	3.0	12.1	-	3.3	4.1

† New entry in 2015, not previously tested.

‡ Yield, test weight, or protein value required (\geq LSD) to determine if varieties are statistically different than one another, § minimum value required to be in the top performance group (TPG) of varieties (**in boldface**), ¶ Coefficient of Variation (C.V.) is a measure of the variability of the experimental error, 15% or less is acceptable.

Table 3. 2013-2015 (2 and 3-year averages) East River Yield (bu/ac @ 13% moisture) Performance - sorted by overall 3-year yield.

Variety	Crop Zone - 2				Crop Zone - 3		Crop Zone - 4		Crop Zones 2,3, & 4	
	Brookings		Brookings w/Fung.#		Beresford		Onida	Pierre	East River Average	
	2 year	3 year	2 year	3 year	2 year	3 year	2 year	2 year*	2 year	3 year
SY Wolf	57	60	62	65	76	72	86	66	72	69
Lyman	72	68	54	61	60	68	81	65	70	69
Ideal	50	54	60	63	79	73	80	71	71	68
Overland	52	57	62	66	72	69	76	63	69	67
Freeman	56	57	60	64	76	68	77	63	70	66
WB-Matlock	47	52	66	70	73	65	71	65	68	66
Redfield	47	52	59	64	74	67	80	62	69	65
WB-Grainfield	50	54	57	61	72	65	80	63	68	65
Millennium	45	50	56	61	71	67	75	64	66	64
Expedition	43	49	50	58	74	69	68	53	63	60
LCS Mint	51	50	59	60	68	61	77	58	66	60
Alice (White)	42	50	54	60	61	57	69	58	62	60
Wesley	50	51	54	56	68	63	70	57	65	59
T158	39	42	51	57	67	63	72	60	62	58
Denali	45	-	59	-	76	-	71	-	67	-
Decade	73	-	47	-	52	-	76	-	65	-
Byrd	69	-	41	-	51	-	70	-	63	-
Brawl CL Plus	35	-	44	-	69	-	64	-	59	-
AC Emerson†	-	-	-	-	-	-	-	-	-	-
Antero (White)†	-	-	-	-	-	-	-	-	-	-
LCH13NEDH-7-45†	-	-	-	-	-	-	-	-	-	-
LCS Compass†	-	-	-	-	-	-	-	-	-	-
NE10589†	-	-	-	-	-	-	-	-	-	-
SY Monument†	-	-	-	-	-	-	-	-	-	-
WB4059CLP†	-	-	-	-	-	-	-	-	-	-
WB4614†	-	-	-	-	-	-	-	-	-	-
Trial Average	46	53	55	62	70	65	74	59	65	63
LSD(0.05)‡	5	4	5	4	7	5	5	5	5	4
TPG value§	52	57	61	66	72	68	81	66	67	65

Foliar fungicide applied at flowering.

* Pierre 2-year data is from 2013 and 2014.

† New entry in 2015, not previously tested.

‡ Yield value required (\geq LSD) to determine if varieties are statistically different than one another, § minimum value required to be in the top performance group (TPG) of varieties (**in boldface**).

Table 4a. 2013-2015 (2 and 3-year averages) West River Yield (bu/ac @ 13% moisture) Performance - sorted by overall 3-year yield.

Variety	Crop Zone - 5		Crop Zone - 6					Crop Zones 5, 6, & 7		
	Martin		Kennebec	Hayes	Sturgis		Wall		West River Average	
	2 year	3 year	2 year	2 year*	2 year	3 year	2 year	3 year	2 year	3 year
SY Wolf	51	50	84	62	65	60	60	63	66	61
Ideal	52	48	74	58	64	63	71	66	65	60
Lyman	47	45	72	55	57	58	60	61	61	58
LCS Mint	51	50	71	60	71	66	63	61	62	57
Freeman	55	49	72	61	64	59	61	61	62	57
Overland	52	49	73	55	59	59	56	57	61	57
Redfield	51	48	72	59	61	59	69	67	62	57
Millennium	53	50	74	56	58	55	57	59	60	57
WB-Grainfield	45	43	73	61	64	59	62	63	60	56
Wesley	47	46	67	56	57	54	58	57	58	54
T158	42	44	65	56	58	55	53	56	56	52
Expedition	46	45	68	55	56	52	57	57	56	52
Alice (White)	43	43	66	57	56	53	52	55	55	51
WB-Matlock	43	41	68	54	56	51	54	53	55	50
Denali	56	-	70	-	66	-	72	-	63	-
Decade	45	-	69	-	61	-	70	-	62	-
Byrd	44	-	65	-	58	-	59	-	57	-
Brawl CL Plus	39	-	53	-	55	-	54	-	51	-
AC Emersont	-	-	-	-	-	-	-	-	-	-
Antero (White)†	-	-	-	-	-	-	-	-	-	-
LCH13NEDH-7-45†	-	-	-	-	-	-	-	-	-	-
LCS Compass†	-	-	-	-	-	-	-	-	-	-
NE10589†	-	-	-	-	-	-	-	-	-	-
SY Monument†	-	-	-	-	-	-	-	-	-	-
WB4059CLP†	-	-	-	-	-	-	-	-	-	-
WB4614†	-	-	-	-	-	-	-	-	-	-
Trial Average	48	46	71	57	61	58	61	60	58	56
LSD(0.05)‡	7	3	8	6	6	6	6	5	7	4
TPG value§	49	47	76	59	65	60	66	62	59	57

* Hayes 2-year data is from 2013 and 2015.

† New entry in 2015, not previously tested.

‡ Yield value required (\geq LSD) to determine if varieties are statistically different than one another, § minimum value required to be in the top performance group (TPG) of varieties (in boldface).

Table 4b. 2013-2015 (2 and 3-year averages) West River Yield (bu/ac @ 13% moisture) Performance, continued - sorted by overall 3-year yield.

Variety	Crop Zone - 6				Crop Zone - 7				Crop Zones 5, 6, & 7	
	Winner		Winner w/Fung.#		Bison		McLaughlin		West River Average	
	2 year	3 year	2 year	3 year	2 year	3 year	2 year	3 year	2 year	3 year
SY Wolf	75	69	71	66	48	51	56	52	66	61
Ideal	71	66	73	67	46	49	50	49	65	60
Lyman	68	67	70	67	45	49	52	50	61	58
LCS Mint	69	62	68	60	42	47	42	43	62	57
Freeman	68	63	69	64	45	47	45	43	62	57
Overland	68	64	69	66	45	49	48	46	61	57
Redfield	64	60	68	61	42	46	44	45	62	57
Millennium	66	63	64	63	38	44	50	48	60	57
WB-Grainfield	63	58	67	63	42	47	44	42	60	56
Wesley	61	58	64	60	48	49	38	40	58	54
T158	61	55	62	58	44	47	44	41	56	52
Expedition	60	57	62	58	41	43	41	39	56	52
Alice (White)	59	54	56	52	37	41	45	41	55	51
WB-Matlock	56	54	61	58	32	37	48	43	55	50
Denali	61	-	66	-	50	-	40	-	63	-
Decade	66	-	69	-	45	-	41	-	62	-
Byrd	63	-	72	-	44	-	33	-	57	-
Brawl CL Plus	58	-	56	-	43	-	33	-	51	-
AC Emerson†	-	-	-	-	-	-	-	-	-	-
Antero (White)†	-	-	-	-	-	-	-	-	-	-
LCH13NEDH-7-45†	-	-	-	-	-	-	-	-	-	-
LCS Compass†	-	-	-	-	-	-	-	-	-	-
NE10589†	-	-	-	-	-	-	-	-	-	-
SY Monument†	-	-	-	-	-	-	-	-	-	-
WB4059CLP†	-	-	-	-	-	-	-	-	-	-
WB4614†	-	-	-	-	-	-	-	-	-	-
Trial Average	66	62	66	62	42	45	45	45	58	56
LSD(0.05)‡	5	4	5	4	5	6	6	4	7	4
TPG value§	70	65	68	63	45	45	50	48	59	57

Foliar fungicide applied at flowering.

† New entry in 2015, not previously tested.

‡ Yield value required (≥LSD) to determine if varieties are statistically different than one another, § minimum value required to be in the top performance group (TPG) of varieties (**in boldface**).

Table 5. List of winter wheat varieties being tested in 2015 along with origin, agronomic, and grain quality characteristics.

Variety	Testing and Origin		Agronomic Characteristics				Grain Quality		
	Years Tested in SD Trials	Origin†-Year	Rel.‡ Hdg days	Rel.‡ Hght inches	Lodging Res.§	Winter Hardi-ness§	2015 Test Wt.	2015 Protein %	Baking Quality#
Alice (White)	5+	SD-06	0	-2	G	G	Good	Good	E
Antero (White)	new	PG-12	0	2	F-G	G	Good	Low	(G)¶
Brawl CL Plus	2	PG-11	0	-1	G	F	Adequate	High	(E)
Byrd	2	PG-11	1	-1	P	(G)	Good	Low	(E)
LCS Compass	new	LCS-15	-1	1	F	G	High	Good	(E)
Decade	2	MT/ND-10	2	1	G	G	Low	Good	(A)
Denali	2	PG-11	2	-3	G	G	Good	Low	(A)
AC Emerson	new	MS-15	4	-1	G	G	Adequate	High	(G)
Expedition	5+	SD-02	0	0	F-G	G	Good	Adequate	G
Freeman	3	NE-13	2	-2	F	F	Adequate	Low	A-G
WB-Grainfield	3	WB-12	1	2	F	F	Good	Good	G
Ideal	5+	SD-11	4	1	F-G	G-E	Adequate	Low	A
LCH13NEDH-7-45	new	LCS-exp	1	0	F-G	G-E	Adequate	Adequate	-
Lyman	5+	SD-08	1	0	F-G	G-E	High	Good	A
WB-Matlock	5+	WB-10	2	1	F-G	G	Adequate	Good	G
Millennium	5+	NE-00	1	2	F-G	G	Good	Adequate	A
LCS Mint	3	LCS-12	1	0	F	G	Good	Low	(G)
SY-Monument†	new	AP-14	1	2	F-G	G-E	Adequate	Adequate	(G)
NE10589†	new	NE-exp	1	3	G	G	Good	Adequate	(G)
Overland	5+	NE-06	3	2	F-G	G-E	Good	Adequate	F
Redfield	5+	SD-13	3	-3	G	G	Good	Good	G
T158	3	LCS-09	1	-3	G	G	Adequate	Adequate	G
WB4059CLP	new	WB-13	1	-2	G	G	Low	High	(G)
WB4614	new	WB-14	4	4	F	G	Low	Good	-
Wesley ^{no PVP}	5+	NE-99	2	-1	G	G	Low	Good	G
SY-Wolf	5+	AP-11	0	1	G	G	Good	Good	A

† AP, AgriPro; LCS, Limagrain Cereal Seeds; MS, Meridian Seeds; MT, Montana; NE, Nebraska; ND, North Dakota; PG, PlainsGold; SD, South Dakota; WB, WestBred; and – (Year of Release).

‡ Difference in days to heading compared to **Expedition** (2015 maturity notes from the Brookings location). Height compared to Expedition (33 inches) at the Beresford location.

§ Lodging resistance and winter hardiness: E, excellent; G, good; F, fair; P, poor.

Baking Quality: E, excellent; G, good; A, acceptable; F, fair.

¶ Estimated ratings (X), based on information provided by entity that submitted the variety.

Table 6. Winter wheat variety disease ratings.

Variety	Disease Ratings‡					
	2015 Stripe Rust	Stem Rust	2015 Leaf Rust	2015 Leaf Spot	WSMV	FHB (Scab)
Alice (White)	MS	MR	MS	MS-S	MS	S
Antero (White)†	(R)¶	(MR)	(S)	MS-S	(MS)	-
Brawl CL Plus	(MS)	(R)	(R)	S	(MS)	-
Byrd	MR	(MS)	(MS)	S	(MS)	-
LCS Compass†	MR MS	(R)	MS-MR	S	(S)	(R)
Decade	MS	(R)	MR	(MR)	-	-
Denali	S	(MS)	MS-S	S	(MS)	-
AC Emerson†	(R)	(R)	MS	S	-	(R)
Expedition	MS	R	MS-S	MS-S	S	MR
Freeman	MR	MR	MS-S	S	S	MS
WB-Grainfield	MR	MR	MR	S	MR	MR
Ideal	S	MR	MR-MS	S	S	MS
LCH13NEDH-7-45†	MR	-	MR	MS	(S)	-
Lyman	MR	R	MR ?	S	S	MR
WB-Matlock	MS	(MR)	MS	MS-S	(S)	(S)
Millennium	MR	MR	MR-MS	MS-S	S	S
LCS Mint	MR	MS	MS-S	S	MR	-
SY-Monument†	MR	(R)	MR	S	(R)	-
NE10589†	MR	(MR)	MS-S	S	-	-
Overland	MR	MR	MR	S	MS	MR
Redfield	MR	MR	MS-MR	MS-S	S	MR
T158	MR	MS	MR	S	MS	S
WB4059CLP†	S	-	S	MR-MS	-	(S)
WB4614†	MR	-	MS	MS-S	(S)	-
Wesley ^{no PVP}	MR	R	MS	S	S	S
SY-Wolf	MR MS	MR	MR	MS	MR	S

† new entry in 2015

‡ Disease ratings: R, resistant; MR, moderately resistant; MS, moderately susceptible; S, susceptible.

¶ Estimated rankings based on information provided by the entity that submitted the variety.

