

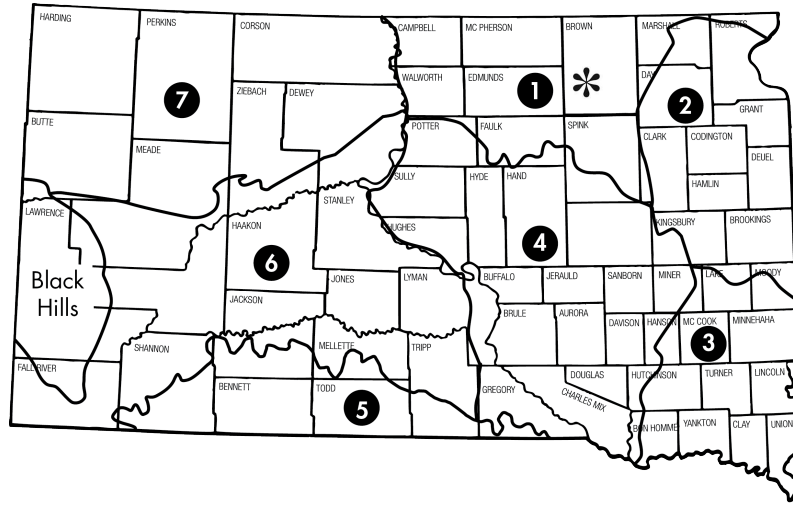
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### Recommended Winter Wheat Varieties for Fall 2015 by Crop Zone†

Zone - 1 <sup>pc</sup>	Zone - 2 <sup>pc</sup>	Zone - 3	Zone - 4 <sup>pc</sup>	Zone - 5	Zone - 6	Zone - 7 <sup>pc</sup>
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.

<sup>pc</sup> 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	<b>44</b>	56.4	11.2	<b>60</b>	61.8	10.1
Brawl CL Plus	74	58.9	<b>14.7</b>	26	54.3	<b>13.3</b>	37	60.4	<b>12.4</b>
Byrd	64	56.8	13.5	32	55.1	11.5	46	60.4	10.7
LCS Compass†	79	<b>61.0</b>	14.4	38	58.1	12.0	49	<b>62.5</b>	11.5
Decade	65	54.4	<b>15.3</b>	39	55.2	11.3	50	60.5	11.0
Denali	71	57.3	12.8	41	55.8	11.0	<b>59</b>	<b>62.0</b>	9.7
AC Emerson†	80	<b>60.4</b>	<b>14.6</b>	<b>50</b>	<b>59.8</b>	11.6	47	61.7	11.7
Expedition	82	59.1	12.7	36	58.0	11.4	42	61.3	11.5
Freeman	<b>87</b>	56.7	13.4	<b>47</b>	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†	<b>87</b>	58.0	14.1	42	54.9	10.8	<b>54</b>	60.8	10.5
Lyman	<b>89</b>	<b>61.5</b>	<b>14.5</b>	<b>47</b>	<b>59.9</b>	11.9	<b>53</b>	<b>62.4</b>	11.5
WB-Matlock	<b>89</b>	<b>60.9</b>	13.3	39	57.5	12.1	<b>59</b>	61.6	11.2
Millennium	86	<b>60.1</b>	13.9	40	58.5	11.1	50	61.2	10.4
LCS Mint	67	58.6	13.5	40	56.9	10.7	<b>53</b>	<b>62.9</b>	11.0
SY Monument†	77	56.3	13.8	38	53.9	12.1	<b>58</b>	59.9	10.4
NE10589†	75	57.0	13.4	38	55.0	11.6	52	60.9	10.8
Overland	<b>89</b>	<b>60.0</b>	13.4	<b>45</b>	58.4	11.1	<b>55</b>	61.4	10.2
Redfield	<b>87</b>	59.0	13.9	40	56.4	11.5	<b>57</b>	61.8	10.8
T158	78	57.9	13.9	29	54.1	11.9	45	60.7	11.3
WB4059CLP†	-	-	-	23	51.3	<b>13.6</b>	28	58.6	<b>13.0</b>
WB4614†	59	54.6	<b>15.2</b>	28	52.6	12.4	<b>56</b>	60.4	11.0
Wesley	75	56.3	<b>15.0</b>	40	55.7	12.4	47	59.2	12.0
SY Wolf	80	58.4	<b>14.5</b>	<b>47</b>	58.4	11.1	<b>53</b>	61.3	10.6
<b>Trial Average</b>	80	58.4	14.0	38	56.4	11.6	49	60.9	11.1
<b>LSD(0.05)‡</b>	9	1.6	0.8	7	0.9	0.7	8	1.0	0.9
<b>TPG value§</b>	86	59.9	14.5	43	59.0	12.9	52	61.9	12.1
<b>CV(%)¶</b>	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	<b>13.0</b>	57	57.1	<b>13.3</b>	61	0	58.4	12.7
Antero (White)†	86	<b>60.1</b>	<b>12.5</b>	<b>70</b>	59.0	12.4	<b>67</b>	40	58.8	12.0
Brawl CL Plus	91	<b>60.9</b>	<b>13.0</b>	57	58.3	<b>13.4</b>	57	0	58.6	<b>13.3</b>
Byrd	89	<b>60.5</b>	12.0	56	57.4	11.8	57	0	58.0	11.9
LCS Compass†	<b>102</b>	<b>59.5</b>	11.5	50	<b>59.2</b>	12.8	64	20	60.1	12.4
Decade	88	<b>59.8</b>	<b>12.6</b>	55	54.7	12.9	59	0	57.0	12.6
Denali	<b>99</b>	59.4	12.1	55	57.7	12.3	65	20	58.5	11.6
AC Emerson†	88	59.2	<b>12.5</b>	63	57.9	<b>13.5</b>	<b>66</b>	20	59.8	12.8
Expedition	<b>99</b>	<b>61.2</b>	<b>12.2</b>	50	57.5	12.4	61	20	59.4	12.0
Freeman	90	59.2	12.1	58	55.3	12.6	<b>66</b>	40	57.7	11.9
WB-Grainfield	86	<b>61.3</b>	<b>12.8</b>	65	57.4	13.1	65	0	58.9	12.6
Ideal	91	58.8	<b>12.3</b>	55	55.8	12.4	64	0	58.5	11.9
LCH13NEDH-7-45†	87	58.0	<b>12.6</b>	<b>71</b>	56.7	12.7	<b>68</b>	60	57.7	12.1
Lyman	85	<b>60.4</b>	<b>12.4</b>	66	<b>60.0</b>	12.6	<b>68</b>	60	<b>60.8</b>	12.6
WB-Matlock	80	59.3	<b>12.8</b>	55	58.6	<b>13.6</b>	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	<b>60.9</b>	<b>12.3</b>	60	58.8	12.0	61	20	59.6	11.9
SY Monument†	92	<b>60.4</b>	12.1	66	55.1	13.0	<b>66</b>	20	57.1	12.2
NE10589†	89	<b>59.7</b>	<b>12.6</b>	62	57.5	12.7	62	0	58.3	12.3
Overland	82	<b>59.7</b>	<b>12.2</b>	64	58.4	12.2	<b>67</b>	60	59.5	11.8
Redfield	89	58.8	<b>12.4</b>	63	57.6	<b>13.5</b>	<b>67</b>	40	58.7	12.4
T158	<b>99</b>	<b>60.6</b>	11.5	57	57.8	12.4	62	20	58.2	12.2
WB4059CLP†	85	<b>59.8</b>	<b>12.7</b>	32	52.2	<b>13.7</b>	46	0	57.3	<b>13.3</b>
WB4614†	86	<b>60.0</b>	<b>12.6</b>	54	56.1	<b>13.9</b>	56	20	56.7	13.0
Wesley	86	<b>59.7</b>	11.8	47	53.6	<b>13.8</b>	59	0	56.9	13.0
SY Wolf	89	<b>60.2</b>	<b>12.5</b>	<b>69</b>	58.8	<b>13.6</b>	<b>68</b>	40	59.4	12.5
<b>Trial Average</b>	89	59.8	12.4	60	57.5	12.9	62	-	58.5	12.4
<b>LSD(0.05)‡</b>	9	1.8	0.8	6	1.0	0.6	4	-	0.6	0.4
<b>TPG value§</b>	93	59.5	12.2	67	59.0	13.3	66	-	60.2	12.9
<b>CV(%)¶</b>	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	<b>58.6</b>	11.0
Antero (White)†	48	48.6	11.7	68	<b>57.9</b>	11.7	49	48.4	12.5	<b>85</b>	<b>57.9</b>	9.6
Brawl CL Plus	43	48.2	<b>13.0</b>	67	56.1	<b>13.2</b>	40	45.2	<b>13.2</b>	63	57.6	<b>11.6</b>
Byrd	46	52.0	11.0	69	56.3	12.0	39	45.3	12.3	68	<b>57.9</b>	9.7
LCS Compass†	51	<b>52.9</b>	12.0	70	57.1	12.7	40	47.8	12.7	60	57.6	<b>11.5</b>
Decade	37	46.0	12.0	<b>84</b>	<b>57.7</b>	12.9	40	41.8	<b>12.8</b>	71	55.5	10.6
Denali	<b>59</b>	<b>53.0</b>	11.5	81	57.1	12.4	44	47.3	12.2	75	57.6	9.6
AC Emerson†	45	50.2	12.3	66	54.5	<b>13.5</b>	54	<b>50.6</b>	<b>13.2</b>	69	56.2	<b>11.7</b>
Expedition	50	<b>53.6</b>	11.4	71	55.8	<b>13.1</b>	49	48.1	12.1	63	56.5	10.6
Freeman	<b>56</b>	<b>52.8</b>	10.9	78	55.0	12.5	50	45.8	12.3	80	<b>58.2</b>	10.2
WB-Grainfield	48	49.1	11.9	79	56.7	12.8	63	<b>52.6</b>	12.5	<b>82</b>	<b>58.9</b>	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	<b>94</b>	56.6	12.0	61	49.1	12.2	76	<b>57.9</b>	10.0
Lyman	45	<b>54.0</b>	<b>12.9</b>	69	55.9	<b>13.1</b>	55	49.6	12.1	63	<b>58.4</b>	<b>11.7</b>
WB-Matlock	36	47.9	<b>12.5</b>	73	55.4	<b>13.0</b>	45	46.3	<b>12.8</b>	61	56.6	11.0
Millennium	47	<b>53.8</b>	11.3	72	<b>57.6</b>	12.8	57	50.2	11.7	68	<b>58.1</b>	<b>11.3</b>
LCS Mint	46	49.4	11.5	79	55.7	12.6	52	49.2	12.4	<b>87</b>	57.5	10.2
SY Monument†	45	47.7	12.0	<b>84</b>	56.5	<b>13.0</b>	58	<b>51.1</b>	<b>12.8</b>	<b>82</b>	57.1	10.7
NE10589†	50	50.7	11.5	<b>92</b>	55.9	12.0	63	<b>50.8</b>	11.9	73	<b>58.1</b>	10.9
Overland	47	52.2	11.6	73	<b>57.6</b>	12.7	54	49.2	11.8	72	<b>58.1</b>	10.6
Redfield	45	48.3	12.2	80	<b>57.5</b>	12.7	58	<b>50.5</b>	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	<b>11.3</b>
WB4059CLP†	33	43.6	12.4	65	53.3	<b>13.6</b>	12	36.1	12.5	57	53.3	<b>11.7</b>
WB4614†	44	48.2	12.0	71	55.7	<b>13.3</b>	49	46.8	<b>13.5</b>	<b>86</b>	57.1	10.0
Wesley	43	51.3	12.5	74	54.6	12.8	44	44.5	12.3	68	55.8	<b>11.4</b>
SY Wolf	<b>56</b>	51.6	12.1	80	56.6	12.4	<b>75</b>	<b>50.8</b>	<b>13.0</b>	76	57.5	10.8
<b>Trial Average</b>	48	50.7	11.9	75	56.0	12.8	53	48.5	12.5	73	57.4	10.7
<b>LSD(0.05)‡</b>	6	2.1	0.5	11	1.6	0.6	11	2.7	0.7	6	1.5	0.5
<b>TPG value§</b>	55	52.5	12.5	83	56.3	13.0	67	50.3	12.8	80	57.9	11.2
<b>CV(%)¶</b>	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	<b>58.6</b>	10.7	56	59.0	13.4	55	59.8	13.5
Antero (White)†	81	<b>58.5</b>	9.3	<b>79</b>	<b>61.8</b>	11.5	<b>83</b>	<b>62.6</b>	11.0
Brawl CL Plus	65	57.2	<b>11.7</b>	57	<b>60.9</b>	13.5	58	60.9	13.5
Byrd	74	<b>58.6</b>	9.8	60	<b>60.7</b>	12.2	<b>81</b>	<b>62.8</b>	11.0
LCS Compass†	62	<b>58.8</b>	10.6	52	<b>60.6</b>	13.1	59	61.7	12.7
Decade	76	55.9	10.1	53	58.2	13.2	63	58.5	12.9
Denali	<b>90</b>	<b>59.3</b>	9.6	52	57.8	12.1	64	60.2	12.1
AC Emerson†	67	55.3	<b>11.1</b>	35	55.5	<b>15.0</b>	39	57.7	<b>15.5</b>
Expedition	74	<b>59.3</b>	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	<b>59.2</b>	10.3	47	59.4	<b>14.5</b>	70	61.8	11.5
Ideal	77	55.5	9.5	64	<b>59.9</b>	12.7	70	60.9	12.2
LCH13NEDH-7-45†	72	57.1	9.7	65	<b>59.7</b>	13.4	74	61.4	12.0
Lyman	64	57.6	<b>11.3</b>	63	<b>61.3</b>	14.0	69	<b>62.5</b>	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	<b>60.1</b>	13.3	62	60.9	12.9
LCS Mint	77	<b>58.6</b>	9.3	62	<b>61.2</b>	12.5	62	<b>62.4</b>	11.9
SY Monument†	<b>87</b>	56.8	10.3	67	59.5	13.3	63	60.2	11.8
NE10589†	63	<b>58.1</b>	10.1	63	<b>60.9</b>	12.2	71	61.0	11.7
Overland	68	<b>58.4</b>	10.4	60	59.7	13.1	70	60.6	12.5
Redfield	<b>83</b>	<b>58.9</b>	10.0	58	<b>60.2</b>	13.8	66	60.5	12.4
T158	67	56.2	10.5	60	<b>61.3</b>	12.3	65	61.1	12.0
WB4059CLP†	55	55.0	10.6	26	53.8	<b>14.1</b>	41	57.3	14.1
WB4614†	81	57.6	10.5	50	57.1	13.8	66	59.4	12.7
Wesley	66	<b>58.2</b>	10.2	49	56.4	<b>14.2</b>	53	57.6	13.8
SY Wolf	67	55.4	10.2	<b>71</b>	<b>61.1</b>	13.4	64	61.5	12.4
<b>Trial Average</b>	71	57.5	10.3	58	59.4	13.3	63	60.5	12.6
<b>LSD(0.05)‡</b>	7	1.4	0.8	9	2.1	1.0	6	0.8	0.6
<b>TPG value§</b>	83	57.9	10.9	70	59.7	14.0	76	62.0	14.9
<b>CV(%)¶</b>	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.

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	<b>13.8</b>	55	0	54.9	12.5
Antero (White)†	51	53.5	11.1	41	47.7	12.8	<b>65</b>	33	55.0	11.2
Brawl CL Plus	<b>55</b>	<b>54.1</b>	12.5	31	46.3	<b>13.8</b>	53	11	54.2	<b>12.9</b>
Byrd	<b>59</b>	<b>54.7</b>	10.9	28	49.3	13.1	58	22	55.4	11.3
LCS Compass†	41	<b>54.3</b>	12.3	41	<b>54.3</b>	<b>13.9</b>	53	0	56.2	12.4
Decade	<b>52</b>	50.7	12.3	35	49.5	<b>13.7</b>	57	11	52.3	12.3
Denali	<b>62</b>	51.6	11.6	36	48.7	13.2	<b>63</b>	33	54.7	11.6
AC Emerson†	50	<b>54.5</b>	<b>13.8</b>	<b>53</b>	<b>57.3</b>	<b>13.5</b>	53	11	54.7	<b>13.3</b>
Expedition	49	53.0	11.7	36	46.8	<b>13.4</b>	56	0	54.9	12.1
Freeman	<b>55</b>	51.5	11.9	43	51.9	13.3	<b>62</b>	22	54.6	11.7
WB-Grainfield	<b>57</b>	<b>54.7</b>	11.8	46	<b>53.2</b>	<b>13.4</b>	<b>63</b>	22	56.1	12.1
Ideal	<b>54</b>	53.2	11.9	39	50.2	12.5	61	11	54.2	11.7
LCH13NEDH-7-45†	41	52.6	12.6	<b>52</b>	<b>53.4</b>	13.0	<b>64</b>	22	55.2	11.8
Lyman	49	<b>56.4</b>	12.7	48	<b>53.8</b>	<b>13.6</b>	58	0	<b>56.8</b>	12.7
WB-Matlock	28	51.3	<b>13.1</b>	42	<b>53.3</b>	<b>13.9</b>	50	0	54.1	12.7
Millennium	40	<b>54.7</b>	12.5	48	<b>57.0</b>	12.8	58	0	56.6	12.1
LCS Mint	49	52.2	12.5	41	51.1	13.1	<b>62</b>	11	55.3	11.8
SY Monument†	<b>54</b>	51.1	12.3	<b>49</b>	48.8	13.2	<b>65</b>	56	54.3	12.1
NE10589†	47	52.5	12.2	41	52.7	<b>13.8</b>	<b>63</b>	11	55.8	11.8
Overland	<b>53</b>	53.8	12.3	43	<b>53.1</b>	12.9	60	11	55.6	12.0
Redfield	50	52.2	12.4	38	50.8	<b>13.6</b>	61	11	54.9	12.3
T158	<b>59</b>	53.6	11.6	45	47.9	13.1	59	11	54.8	12.0
WB4059CLP†	39	46.0	<b>12.9</b>	28	45.7	<b>14.0</b>	40	0	49.3	<b>12.9</b>
WB4614†	46	51.0	12.5	30	47.2	<b>13.7</b>	58	11	53.3	12.4
Wesley	<b>61</b>	49.3	12.4	34	48.4	<b>13.6</b>	55	11	52.9	12.6
SY Wolf	<b>53</b>	50.0	12.6	<b>55</b>	51.2	13.1	<b>66</b>	56	55.1	12.2
<b>Trial Average</b>	49	53.0	12.3	42	51.0	13.4	59	-	54.6	12.2
<b>LSD(0.05)‡</b>	10	2.4	1.0	8	4.1	0.6	4	-	0.9	0.4
<b>TPG value§</b>	52	54.0	12.8	49	53.0	13.4	62	-	57.0	12.9
<b>CV(%)¶</b>	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	<b>57</b>	<b>60</b>	<b>62</b>	65	<b>76</b>	<b>72</b>	<b>86</b>	<b>66</b>	<b>72</b>	<b>69</b>
Lyman	<b>72</b>	<b>68</b>	<b>54</b>	61	60	<b>68</b>	<b>81</b>	65	<b>70</b>	<b>69</b>
Ideal	50	54	60	63	<b>79</b>	<b>73</b>	80	<b>71</b>	<b>71</b>	<b>68</b>
Overland	<b>52</b>	<b>57</b>	<b>62</b>	<b>66</b>	<b>72</b>	<b>69</b>	76	63	<b>69</b>	<b>67</b>
Freeman	<b>56</b>	<b>57</b>	60	64	<b>76</b>	<b>68</b>	77	63	<b>70</b>	<b>66</b>
WB-Matlock	47	52	<b>66</b>	<b>70</b>	<b>73</b>	65	71	65	<b>68</b>	<b>66</b>
Redfield	47	52	59	64	<b>74</b>	67	80	62	<b>69</b>	<b>65</b>
WB-Grainfield	50	54	57	61	<b>72</b>	65	80	63	<b>68</b>	65
Millennium	45	50	56	61	71	67	75	64	66	64
Expedition	43	49	50	58	<b>74</b>	<b>69</b>	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	-	<b>76</b>	-	71	-	<b>67</b>	-
Decade	<b>73</b>	-	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†	-	-	-	-	-	-	-	-	-	-
<b>Trial Average</b>	46	53	55	62	70	65	74	59	65	63
<b>LSD(0.05)‡</b>	5	4	5	4	7	5	5	5	5	4
<b>TPG value§</b>	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	<b>51</b>	<b>50</b>	<b>84</b>	<b>62</b>	<b>65</b>	<b>60</b>	60	<b>63</b>	<b>66</b>	<b>61</b>
Ideal	<b>52</b>	<b>48</b>	74	58	64	<b>63</b>	<b>71</b>	<b>66</b>	<b>65</b>	<b>60</b>
Lyman	47	45	72	55	57	58	60	61	<b>61</b>	<b>58</b>
LCS Mint	<b>51</b>	<b>50</b>	71	<b>60</b>	<b>71</b>	<b>66</b>	63	61	<b>62</b>	<b>57</b>
Freeman	<b>55</b>	<b>49</b>	72	<b>61</b>	64	59	61	61	<b>62</b>	<b>57</b>
Overland	<b>52</b>	<b>49</b>	73	55	59	59	56	57	<b>61</b>	<b>57</b>
Redfield	<b>51</b>	<b>48</b>	72	<b>59</b>	61	59	<b>69</b>	<b>67</b>	<b>62</b>	<b>57</b>
Millennium	<b>53</b>	<b>50</b>	74	56	58	55	57	59	<b>60</b>	<b>57</b>
WB-Grainfield	45	43	73	<b>61</b>	64	59	62	<b>63</b>	<b>60</b>	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	<b>56</b>	-	70	-	<b>66</b>	-	<b>72</b>	-	<b>63</b>	-
Decade	45	-	69	-	61	-	<b>70</b>	-	<b>62</b>	-
Byrd	44	-	65	-	58	-	59	-	57	-
Brawl CL Plus	39	-	53	-	55	-	54	-	51	-
AC Emerson†	-	-	-	-	-	-	-	-	-	-
Antero (White)†	-	-	-	-	-	-	-	-	-	-
LCH13NEDH-7-45†	-	-	-	-	-	-	-	-	-	-
LCS Compass†	-	-	-	-	-	-	-	-	-	-
NE10589†	-	-	-	-	-	-	-	-	-	-
SY Monument†	-	-	-	-	-	-	-	-	-	-
WB4059CLP†	-	-	-	-	-	-	-	-	-	-
WB4614†	-	-	-	-	-	-	-	-	-	-
<b>Trial Average</b>	48	46	71	57	61	58	61	60	58	56
<b>LSD(0.05)‡</b>	7	3	8	6	6	6	6	5	7	4
<b>TPG value§</b>	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	<b>75</b>	<b>69</b>	<b>71</b>	<b>66</b>	<b>48</b>	<b>51</b>	<b>56</b>	<b>52</b>	<b>66</b>	<b>61</b>
Ideal	<b>71</b>	<b>66</b>	<b>73</b>	<b>67</b>	<b>46</b>	<b>49</b>	<b>50</b>	<b>49</b>	<b>65</b>	<b>60</b>
Lyman	68	<b>67</b>	<b>70</b>	<b>67</b>	<b>45</b>	<b>49</b>	<b>52</b>	<b>50</b>	<b>61</b>	<b>58</b>
LCS Mint	69	62	<b>68</b>	60	42	<b>47</b>	42	43	<b>62</b>	<b>57</b>
Freeman	68	63	<b>69</b>	<b>64</b>	<b>45</b>	<b>47</b>	45	43	<b>62</b>	<b>57</b>
Overland	68	64	<b>69</b>	<b>66</b>	<b>45</b>	<b>49</b>	48	46	<b>61</b>	<b>57</b>
Redfield	64	60	<b>68</b>	61	42	<b>46</b>	44	45	<b>62</b>	<b>57</b>
Millennium	66	63	64	<b>63</b>	38	44	<b>50</b>	<b>48</b>	<b>60</b>	<b>57</b>
WB-Grainfield	63	58	67	<b>63</b>	42	<b>47</b>	44	42	<b>60</b>	56
Wesley	61	58	64	60	<b>48</b>	<b>49</b>	38	40	58	54
T158	61	55	62	58	44	<b>47</b>	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	-	<b>66</b>	-	<b>50</b>	-	40	-	<b>63</b>	-
Decade	66	-	<b>69</b>	-	<b>45</b>	-	41	-	<b>62</b>	-
Byrd	63	-	<b>72</b>	-	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†	-	-	-	-	-	-	-	-	-	-
<b>Trial Average</b>	66	62	66	62	42	45	45	45	58	56
<b>LSD(0.05)‡</b>	5	4	5	4	5	6	6	4	7	4
<b>TPG value§</b>	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 ( $\geq$ 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 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 <sup>no PVP</sup>	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
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 <sup>no PVP</sup>	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.