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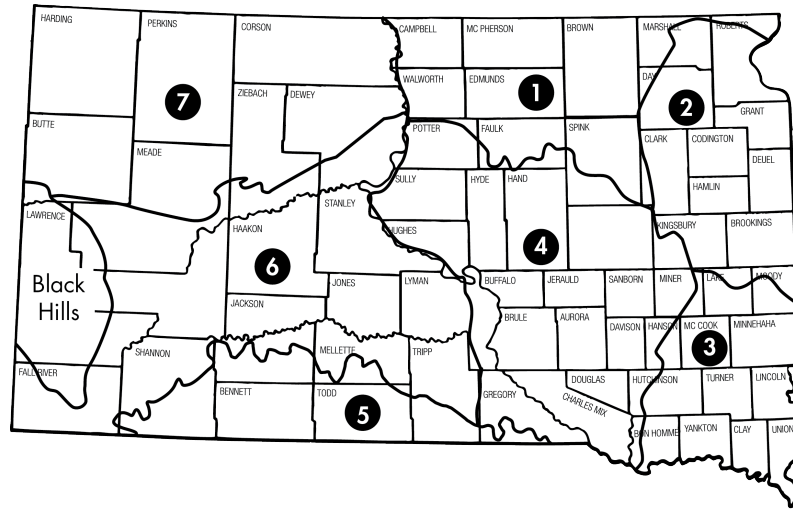
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Recommended Spring Wheat Varieties for Spring 2017 by Crop Zone†

Zone - 1	Zone - 2	Zone - 3	Zone - 4	Zone - 5	Zone - 6	Zone - 7
HRS 3504	Prevail	Not Evaluated§	Surpass	Not Evaluated§	Prevail	Not Evaluated§
HRS 3530	Surpass		HRS 3504		Select	
Lang-MN	HRS 3419		Lang-MN		Surpass	
LCS Trigger	HRS 3504		LCS Trigger		HRS 3530	
MS Chevelle	LCS Trigger		MS Chevelle		LCS Trigger	
SY Rustler	MS Chevelle		SY Rustler		SY Rustler	
SY Valda	SY Rustler		SY Valda		SY Valda	
WB9653	SY Valda	WB9653	WB9653			

Secondary Recommendations

HRS 3100	Shelly	Not Evaluated§	HRS 3100	Not Evaluated§	Brick	Not Evaluated§
HRS 3419	SY Ingmar		Shelly		HRS 3100	
Shelly	WB9653		SY Ingmar		LCS Anchor	
SY Ingmar						

† Crop Zones for small grains are based on soil & climate information. Recommended varieties yielded in the top 1/3 of the trial over 3 years for each zone. Secondary recommendations are those in the top 1/3 of the trial over 2 years.

§ Varieties are not evaluated in 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.

Table 1. List of 2017 spring wheat testing locations and soil/cultural characteristics.

Location	Testing location characteristics				
	Cooperator	GPS coordinates	Soil Type	Previous crop	Tillage system
East River Locations (7)					
Aberdeen	Locken Farms	45.475323° -98.542901°	Barnes-Cresbard-Tonka complex, 0 to 3 % slopes	soybeans	no-till
Agar	Cronin Farms	44.999688° -100.1453228°	Agar-Mobridge silt loams, 0-3% slopes	lentils	no-till
Doland	Matt Gilbert	44.660627° -98.111408°	Dimo loam, 0-2% slopes	soybeans	no-till
Miller	Nathan Lichty	44.457747° -98.762627°	Davis silt loam, fans, nearly level	soybeans	no-till
Selby	Tom Fiedler	45.500531° -100.016584°	Highmore silt loam, cool, 0-2% slopes	soybeans	no-till
South Shore	NERF	45.105900° -97.097092°	Kranzburg-Brookings silty clay loams, 0-2% slopes	soybeans	conv. Till
Volga	Volga Research Farm	44.302216° -96.922490°	Brandt silty clay loam, 0-2% slopes	soybeans	min-till
West River Locations (3)					
Draper	Paul Patterson	43.907778° -100.557500°	Kirley clay loam, 2-6% slopes	milo	no-till
Sturgis	Dave Wilson	44.503333° -103.481389°	Nunn clay loam, 0-2% slopes	winter wheat	no-till
Wall	Merritt Patterson & Sons	44.0813889° -102.308333°	Blackpipe silty clay loam, 0-2% slopes	safflower in 2015, then fallow	no-till

Table 2. Agronomic practices for 2017 spring wheat trial locations.

Location	Agronomic practices					
	Planting date	Starter applied	Other Fertilizer applied	Herbicide applied	Fungicide applied	Harvest date
East River Locations (7)						
Aberdeen	04/11/17	90# 30-10-10	120-26-20-5S pp	1 pt Brox M Ultra	none	8/14/17
Agar	04/06/17	90# 30-10-10	135-0-0 as UAN streambar	1 pt Widematch	none	8/1/17
Doland	04/12/17	30-10-10	110-0-0-18S pp	1.7 pt Wolverine	none	8/1/17
Miller	04/04/17	90# 30-10-10	80-0-0-10S pp	1 pt Brox M Ultra	none	8/1/17
Selby	04/06/17	90# 30-10-10	----- hailed out on 6/20/17 -----			
South Shore	04/17/17	90# 30-10-10	150-0-100 pp	Roundup Powermax (pre) 1 pt Bronate	none	8/8/17
Volga	04/13/17	90# 30-10-10	100-30-30 pp	1.7 pt Wolverine, 1 pt MCPA ester	none	8/18/17
West River Locations (3)						
Draper	04/17/17	6 gal 10-25-0-5-.25	125# N as UAN mid-row banded	Roundup & Sharpen (pre) Widematch (post)	none	8/1/17
Sturgis	4/7/17	6 gal 10-25-0-5-.25	125# N as UAN mid-row banded	Roundup 24 oz (pre)	none	7/20/17
Wall	04/13/17	6 gal 10-25-0-5-.25	125# N as UAN mid-row banded	Roundup 24 oz (pre)	none	7/19/17

Table 3a. 2017 East River Spring Wheat Performance - Yield (13% M), Test Weight (harvest M), and Protein (12% M). Varieties yielding in the upper 1/3 of each trial location are denoted by gray shading (note: trial includes unreported experimental lines).

Variety	Crop Zone - 1						Crop Zone - 2					
	Aberdeen			Doland			South Shore			Volga		
	Yield	Test Wt	Protein	Yield	Test Wt	Protein	Yield	Test Wt	Protein	Yield	Test Wt	Protein
Advance	39.3	57.9	17.3	36.9	56.1	15.4	57.6	57.5	13.5	63.2	56.9	14.4
Ambush†	32.7	56.2	18.8	44.2	58.0	15.9	59.3	58.6	15.4	66.7	57.7	15.2
Bolles	35.2	53.6	20.6	37.3	53.8	17.7	59.1	57.2	16.4	58.3	56.8	16.2
Boost	34.1	56.4	19.1	40.0	56.3	16.4	59.1	56.8	15.3	55.4	54.8	15.8
Brick	30.2	56.8	18.5	41.9	58.7	15.9	52.7	57.8	15.4	68.2	57.8	15.6
Camaro†	21.3	55.2	18.3	44.4	57.2	16.0	51.9	56.9	15.8	61.9	58.0	15.9
Faller	36.1	55.2	17.6	39.5	54.5	15.5	42.9	54.6	13.4	59.0	54.6	13.8
Focus	21.1	55.8	18.5	43.2	58.0	16.1	49.4	58.0	15.8	70.5	57.7	15.7
Forefront	37.5	55.4	18.6	47.7	57.9	15.7	56.9	57.8	14.8	66.8	56.7	15.1
HRS 3100	31.4	54.8	18.1	49.5	55.6	15.1	52.9	55.7	14.3	64.1	56.2	14.6
HRS 3361	28.7	54.4	18.5	35.5	55.4	16.2	47.2	53.0	14.5	62.3	55.7	14.5
HRS 3419	40.3	55.0	17.4	49.6	54.3	15.1	65.9	56.2	14.4	61.7	54.1	14.8
HRS 3504	38.3	56.0	17.7	49.9	55.6	15.2	62.5	55.8	13.8	70.1	56.7	13.2
HRS 3530	42.4	54.8	18.3	39.7	55.1	16.4	49.9	53.3	14.3	68.2	58.0	15.2
HRS 3616	35.5	54.8	18.8	49.6	56.4	16.0	60.9	55.7	15.4	67.6	56.0	15.4
Lang-MN	39.7	57.3	18.0	49.1	57.8	15.7	55.9	57.7	14.9	65.0	58.0	15.0
LCS Anchor	17.6	54.2	18.7	35.6	57.5	17.1	55.3	57.6	15.8	63.8	57.0	15.3
LCS Prime†	40.5	57.1	17.0	44.6	56.7	14.6	56.6	57.2	13.5	74.9	58.8	13.5
LCS Rebel†	38.6	56.6	19.2	42.0	57.5	16.2	61.7	59.0	15.6	62.6	56.7	15.3
LCS Trigger	44.9	57.3	16.5	52.5	55.7	14.2	68.9	58.7	13.3	72.4	58.5	13.6
Linkert	30.1	56.6	19.6	39.3	57.5	16.7	57.9	58.0	16.2	62.4	57.3	16.1
MS Chevelle	34.4	55.0	17.8	46.7	55.5	14.8	56.1	57.0	14.5	68.6	55.0	14.2
ND VitPro	28.9	53.4	19.2	39.8	56.9	16.2	51.4	57.2	16.2	61.3	58.5	16.0
Prevail	24.2	55.6	18.0	44.4	56.7	15.5	62.0	57.4	14.8	75.1	58.2	14.4
Prosper	33.2	52.3	18.2	36.4	55.2	15.3	44.5	53.6	13.6	60.7	56.8	14.2
RB07	28.4	53.6	19.0	41.2	56.7	16.2	48.6	54.2	15.2	61.8	56.3	15.0
Select	28.5	54.2	18.4	43.7	59.6	15.5	49.7	57.3	14.2	65.6	58.5	14.7
Shelly	41.8	54.6	17.3	48.5	56.5	15.3	65.8	56.7	14.2	71.0	58.1	14.6
Surpass	29.2	54.8	18.7	47.2	57.2	15.4	55.5	56.6	15.1	71.5	57.0	15.2
SY Ingmar	38.6	55.2	18.1	44.3	56.2	15.7	62.5	57.2	14.7	67.9	57.9	15.2
SY Rustler	29.0	54.4	18.4	43.8	56.2	15.9	64.3	57.2	14.9	79.2	56.6	14.1
SY Valda	38.2	57.1	18.1	43.9	56.1	15.4	62.6	57.5	14.3	63.8	56.8	15.1
WB9479†	32.4	55.8	19.8	44.2	56.2	16.8	62.3	57.1	16.2	65.0	56.5	15.7
WB9590†	26.9	53.4	19.8	43.2	56.1	17.0	58.2	57.4	15.7	67.3	56.6	15.2
WB9653	34.3	54.8	18.2	51.4	56.0	14.4	59.2	55.0	13.8	61.5	55.8	14.1
WB9719†	45.4	56.0	18.6	46.7	56.6	15.8	61.3	56.9	15.1	62.8	57.9	14.6
Trial Average	33.3	55.4	18.4	43.5	56.7	15.8	56.8	56.9	14.9	65.3	57.1	15.0
LSD(0.05)‡	5.3	2.0	0.5	8.2	1.3	0.8	4.4	1.3	0.4	4.6	1.3	0.9
CV(%)¶	11.4	2.7	2.1	13.6	1.6	3.5	5.6	1.6	2.0	5.0	1.6	4.3

† New entry in 2017, not previously tested.

‡ Yield, test weight, or protein value required (≥LSD) to determine if varieties are statistically different than one another, ¶ Coefficient of Variation (C.V.) is a measure of the variability of the experimental error, 15% or less is acceptable.

Varieties yielding in the upper 1/3 of each trial location are denoted by gray shading (note: trial includes unreported experimental lines).

Variety	Crop Zone - 4						Crop Zones 1,2, & 4			
	Agar			Miller			East River			
	Yield	Test Wt	Protein	Yield	Test Wt	Protein	Top 1/3%	Yield	Test Wt	Protein
Advance	38.8	57.7	15.5	43.7	59.9	16.5	33	46.6	57.7	15.4
Ambush†	39.4	56.8	16.5	36.2	58.1	17.3	17	46.4	57.5	16.5
Bolles	33.0	54.6	18.0	38.5	58.7	18.5	0	43.6	55.8	17.9
Boost	34.6	55.4	16.5	36.7	57.9	17.0	0	43.3	56.3	16.7
Brick	40.6	57.9	16.0	40.1	60.7	16.9	33	45.6	58.3	16.4
Camaro†	33.1	54.0	17.2	34.2	57.5	17.5	0	41.1	56.5	16.8
Faller	38.4	56.4	15.5	44.0	58.1	16.1	17	43.3	55.6	15.3
Focus	34.5	56.2	17.7	34.0	60.1	17.8	17	42.1	57.6	16.9
Forefront	40.5	56.4	17.1	39.3	58.3	17.0	50	48.1	57.1	16.4
HRS 3100	40.2	57.3	16.2	42.4	60.3	16.5	17	46.7	56.6	15.8
HRS 3361	37.5	57.7	15.9	37.8	58.9	16.6	0	41.5	55.8	16.0
HRS 3419	39.0	55.8	15.6	43.2	57.5	16.1	67	49.9	55.5	15.5
HRS 3504	46.7	58.1	15.7	47.6	59.1	16.1	100	52.5	56.9	15.3
HRS 3530	38.8	55.6	15.8	45.7	58.5	17.4	50	47.4	55.9	16.2
HRS 3616	37.5	54.6	17.4	39.6	56.6	16.8	50	48.4	55.7	16.6
Lang-MN	44.1	58.5	16.4	44.5	59.3	16.9	67	49.7	58.1	16.1
LCS Anchor	35.4	58.3	16.5	35.4	58.7	17.3	0	40.5	57.2	16.8
LCS Prime†	46.8	58.7	15.1	45.5	61.0	16.1	67	51.5	58.2	15.0
LCS Rebel†	38.7	57.1	16.5	37.5	59.1	17.6	33	46.9	57.6	16.7
LCS Trigger	46.2	59.5	14.7	52.7	60.1	15.5	100	56.3	58.3	14.6
Linkert	35.2	57.9	18.3	39.8	59.5	17.5	0	44.1	57.8	17.4
MS Chevelle	42.8	56.4	15.7	39.7	58.7	16.1	50	48.0	56.3	15.5
ND VitPro	33.8	57.0	17.5	30.3	58.5	17.7	0	40.9	56.9	17.1
Prevail	37.1	59.3	16.7	39.0	61.0	16.6	33	47.0	58.0	16.0
Prosper	37.8	56.2	15.0	42.8	58.3	15.8	0	42.6	55.4	15.3
RB07	36.0	56.6	16.4	38.6	59.1	17.7	0	42.4	56.1	16.6
Select	40.5	59.7	15.7	39.7	60.4	17.2	17	44.6	58.3	15.9
Shelly	42.4	57.3	15.6	44.9	59.9	16.5	100	52.4	57.2	15.6
Surpass	40.0	56.5	15.7	42.8	58.7	17.2	50	47.7	56.8	16.2
SY Ingmar	42.1	58.1	16.8	48.4	60.3	16.2	83	50.6	57.5	16.1
SY Rustler	42.5	55.6	15.4	37.9	57.3	16.6	50	49.4	56.2	15.9
SY Valda	46.2	57.2	16.0	40.2	59.5	16.0	50	49.1	57.4	15.8
WB9479†	37.1	56.2	17.3	33.6	57.9	17.4	17	45.8	56.6	17.2
WB9590†	39.4	57.1	15.6	39.6	59.1	17.4	17	45.8	56.6	16.8
WB9653	46.8	58.3	15.7	46.3	60.1	15.8	67	49.9	56.7	15.3
WB9719†	37.5	56.4	15.9	48.1	59.5	15.7	67	50.3	57.2	15.9
Trial Average	39.2	57.0	16.4	40.5	59.4	16.8	-	46.5	57.1	16.2
LSD(0.05)‡	3.6	2.0	1.5	4.7	1.9	0.7	-	2.2	0.7	0.4
CV(%)¶	6.6	2.5	6.1	8.3	2.3	3.0	-	8.2	2.1	3.8

† New entry in 2017, not previously tested.

another, ¶ Coefficient of Variation (C.V.) is a measure of the variability of the experimental error, 15% or less is acceptable.

Table 4. 2017 West River Spring Wheat Performance - Yield (13% M), Test Weight (harvest M), and Protein (12% M). Varieties yielding in the upper 1/3 of each trial location are denoted by gray shading (note: trial includes unreported experimental lines).

Variety	Crop Zone - 6						Crop Zone - 7			Crop Zones 6 & 7			
	Draper			Wall			Sturgis			West River			
	Yield	Test Wt	Protein	Yield	Test Wt	Protein	Yield	Test Wt	Protein	Top 1/3%	Yield	Test Wt	Protein
Advance	42.7	54.5	15.7	30.3	57.2	16.1	19.4	58.4	13.7	33	30.8	56.8	15.2
Ambush†	45.7	55.9	15.5	21.7	57.9	16.5	19.9	58.1	14.0	33	29.5	57.2	15.3
Bolles	34.3	52.8	17.1	20.0	57.3	16.9	16.3	54.9	14.9	0	24.0	54.9	16.3
Boost	40.9	53.1	16.3	20.5	55.6	16.5	19.6	55.7	15.0	0	27.0	54.9	15.9
Brick	45.6	59.2	15.6	29.2	60.5	15.1	20.3	61.6	12.7	33	31.7	60.5	14.4
Camaro†	38.5	55.9	16.7	27.8	58.4	15.9	15.8	56.4	15.7	0	27.3	57.0	16.1
Faller	42.4	53.1	15.5	20.7	55.9	16.1	17.4	56.0	13.3	0	26.7	55.0	14.9
Focus	45.0	58.3	16.4	28.0	61.1	15.3	19.7	61.1	14.2	33	30.8	60.2	15.3
Forefront	48.4	56.6	15.5	31.8	59.8	15.4	22.5	57.8	13.4	100	34.3	58.0	14.7
HRS 3100	49.2	53.2	15.2	32.2	58.3	15.1	21.8	57.0	13.0	100	34.4	56.2	14.4
HRS 3361	38.2	53.1	15.8	21.0	56.8	15.6	17.2	54.6	14.3	0	25.1	54.7	15.2
HRS 3419	39.7	51.5	16.0	22.6	56.5	16.7	18.4	54.0	13.6	0	26.9	54.0	15.4
HRS 3504	44.8	53.6	15.1	22.2	57.4	15.9	21.5	56.1	12.9	33	29.7	55.6	14.6
HRS 3530	42.2	53.4	16.3	29.0	56.1	16.4	18.4	57.0	14.1	0	29.9	55.4	15.6
HRS 3616	44.0	55.1	15.8	23.6	57.0	16.2	20.8	56.6	14.4	0	29.4	56.2	15.5
Lang-MN	41.2	56.4	15.6	26.8	57.8	16.5	22.6	58.4	13.5	33	30.3	57.4	15.2
LCS Anchor	46.2	56.7	16.3	24.0	59.1	16.1	18.6	58.9	14.7	33	29.7	58.3	15.7
LCS Prime†	38.1	56.5	14.8	29.6	57.5	16.0	26.7	60.4	12.0	33	31.5	58.0	14.3
LCS Rebel†	42.8	56.1	15.7	32.6	59.1	16.0	22.2	58.3	13.7	67	32.4	57.9	15.1
LCS Trigger	38.5	51.8	15.8	23.7	54.7	16.7	19.3	55.9	13.5	0	27.1	54.2	15.3
Linkert	40.3	54.8	16.8	27.6	59.2	15.8	20.9	58.6	14.6	0	29.4	57.5	15.7
MS Chevelle	41.4	54.7	14.9	30.0	57.9	15.4	14.2	58.0	13.2	33	29.9	57.0	14.5
ND VitPro	39.9	57.1	16.4	27.6	59.5	15.9	17.4	58.9	14.3	0	28.4	56.0	15.5
Prevail	42.6	55.4	15.7	30.6	58.7	15.1	24.6	58.2	13.7	67	32.5	57.4	14.8
Prosper	35.4	53.0	15.2	28.6	56.3	15.8	19.0	57.3	13.0	0	27.7	55.4	14.7
RB07	32.9	54.4	15.9	26.2	59.5	15.4	18.5	57.6	14.4	0	25.9	57.1	15.2
Select	49.1	58.5	15.0	35.8	60.5	14.2	24.5	61.3	12.6	100	36.3	60.1	13.9
Shelly	37.8	54.8	15.6	23.6	56.8	15.5	20.4	57.9	13.4	0	27.1	56.5	14.8
Surpass	52.6	57.3	15.1	30.7	60.1	14.8	22.8	58.9	12.5	100	35.4	58.8	14.2
SY Ingmar	42.1	54.6	16.3	21.8	55.6	17.1	23.6	57.3	14.2	33	29.2	55.7	15.9
SY Rustler	42.5	55.3	15.2	28.0	57.0	15.6	23.2	56.9	13.3	33	31.4	56.3	14.7
SY Valda	43.9	55.5	15.0	29.3	58.3	15.5	21.9	58.5	12.6	33	31.7	57.4	14.4
WB9479†	41.4	56.2	16.2	21.6	59.3	14.9	17.4	55.4	13.8	0	26.8	57.0	14.9
WB9590†	46.6	55.8	15.6	33.3	58.6	15.1	16.3	56.4	13.8	67	31.6	56.9	14.8
WB9653	47.4	52.9	14.9	30.8	57.5	14.9	18.4	56.1	12.4	67	31.8	55.5	14.1
WB9719†	45.2	56.7	15.6	41.8	59.2	15.2	16.6	59.2	13.2	67	34.4	58.3	14.7
Trial Average	42.4	55.3	15.8	28.0	58.2	15.7	20.0	57.8	13.6	-	30.2	57.0	15.2
LSD(0.05)‡	8.3	1.6	0.7	5.6	1.2	1.0	5.5	1.50	0.9	-	3.4	1.5	0.5
CV(%)¶	14.0	2.1	3.3	14.3	1.5	4.3	14.2	1.40	3.2	-	14.2	2.8	3.8

† New entry in 2017, not previously tested.

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

Variety	Statewide Average				
	Yield	Test Wt	Protein	Revenue/acret††	Revenue Rank
LCS Trigger	46.6	56.9	14.8	\$263.52	6
WB9719†	45.0	57.6	15.5	\$271.40	1
HRS 3504	44.9	56.5	15.0	\$267.16	3
LCS Prime†	44.8	58.2	14.7	\$251.93	18
Shelly	44.0	57.0	15.3	\$263.44	7
WB9653	43.9	56.3	14.9	\$248.24	23
Surpass	43.6	57.4	15.5	\$262.79	8
Forefront	43.5	57.4	15.8	\$265.68	4
SY Ingmar	43.5	56.9	16.0	\$267.37	2
SY Rustler	43.4	56.3	15.5	\$261.82	9
SY Valda	43.3	57.4	15.3	\$259.52	11
Lang-MN	43.2	57.9	15.8	\$264.14	5
HRS 3100	42.6	56.5	15.3	\$255.16	14
HRS 3419	42.3	55.0	15.5	\$254.82	15
Prevail	42.1	57.8	15.6	\$254.08	16
HRS 3616	42.1	55.9	16.2	\$260.63	10
LCS Rebel†	42.0	57.7	16.2	\$258.50	12
MS Chevelle	42.0	56.5	15.2	\$249.90	21
Select	41.9	58.9	15.3	\$250.71	20
HRS 3530	41.6	55.7	16.0	\$255.81	13
Advance	41.3	57.4	15.3	\$247.37	25
WB9590†	41.0	56.7	16.1	\$252.34	17
Brick	41.0	59.0	15.7	\$248.57	22
Ambush†	40.8	57.4	16.1	\$250.75	19
WB9479†	39.5	56.7	16.5	\$245.79	26
Linkert	39.2	57.7	16.8	\$247.47	24
Focus	38.3	58.5	16.4	\$237.23	27
Boost	37.8	55.8	16.4	\$235.79	29
Faller	37.8	55.4	15.2	\$224.74	34
Prosper	37.6	55.4	15.1	\$223.72	35
Bolles	37.0	55.5	17.4	\$236.64	28
RB07	36.9	56.4	16.1	\$227.00	33
LCS Anchor	36.9	57.6	16.4	\$229.89	30
ND VitPro	36.7	56.6	16.6	\$228.76	31
Camaro†	36.5	56.6	16.5	\$227.53	32
HRS 3361	36.0	55.5	15.8	\$218.71	36
Trial Average	41.0	57.0	15.9	\$249.14	-
LSD(0.05)‡	1.8	0.7	0.3	-	-
CV(%)¶	9.7	2.3	3.8	-	-

† New entry in 2017, not previously tested. ‡ Yield, test weight, or protein value required (\geq LSD) to determine if varieties are statistically different than one another, ¶ Coefficient of Variation (C.V.) is a measure of the variability of the experimental error, 15% or less is acceptable.

††Revenue is based on a cash price of \$5.50/bu and a 2017 protein premium/discount schedule from a prominent South Dakota

Table 6. 2015-2017 (2 and 3-year averages) East River Yield (bu/ac @ 13% M) Performance - sorted by overall 3-year yield. Varieties yielding in the upper 1/3 of each trial location are denoted by gray shading.

Variety	Crop Zone - 1					Crop Zone - 2				Zone - 4		Crop Zones 1, 2, & 4	
	Aberdeen		Doland*		Selby	South Shore		Volga		Agar	Miller	East River Average	
	2 year	3 year	2 year	3 year	2 year*	2 year	3 year	2 year	3 year	2 year	2 year	2 year	3 year
LCS Trigger	49.2	53.6	62.4	59.0	95.7	57.0	64.7	78.1	76.6	56.4	52.7	62.9	65.4
SY Valda	47.0	47.4	54.5	51.6	89.6	51.5	57.0	72.5	71.9	57.3	52.5	59.1	59.9
HRS 3504	45.5	46.4	60.9	55.7	85.8	50.3	54.4	74.9	71.4	57.8	51.8	60.6	59.9
WB9653	46.3	46.5	60.2	56.8	87.4	49.6	53.1	72.1	69.6	56.7	38.6	60.2	59.7
SY Rustler	39.9	42.3	55.2	53.1	86.1	53.8	57.5	81.1	76.8	53.4	48.6	58.8	59.0
HRS 3419	46.2	46.9	59.4	53.8	77.3	51.1	60.4	71.1	72.9	49.9	47.0	58.2	58.4
MS Chevelle	44.6	46.2	57.4	52.8	85.9	49.4	54.3	72.8	69.4	55.2	48.6	58.7	58.3
Prevail	39.6	42.5	54.7	51.0	80.7	53.5	59.2	78.5	75.3	49.2	46.5	56.8	57.5
Lang-MN	48.8	46.4	57.0	53.5	82.1	48.9	53.3	68.6	65.9	54.8	47.5	57.7	57.1
Surpass	41.6	41.1	57.6	51.2	84.6	49.4	54.7	74.8	70.3	53.4	49.1	57.9	56.9
HRS 3530	46.9	44.2	51.6	48.7	91.3	44.9	47.4	72.2	67.6	50.4	48.0	56.6	56.0
Advance	46.7	46.8	48.1	43.8	87.2	49.4	53.4	67.0	63.8	50.4	48.1	55.4	55.5
Forefront	44.5	43.1	55.5	50.2	80.0	50.3	54.6	69.3	68.3	47.9	41.2	54.9	54.9
RBO7	39.4	41.3	52.8	50.7	87.5	44.6	51.2	66.9	65.1	49.3	43.5	53.5	54.9
Brick	42.2	41.5	48.9	46.6	83.1	46.2	52.1	70.2	66.5	50.7	44.2	54.2	54.4
Select	42.3	42.8	52.0	45.5	81.3	46.4	51.0	72.2	67.6	51.5	49.4	55.3	54.3
Faller	44.9	44.1	48.9	45.2	90.1	40.1	44.5	66.4	64.7	48.2	46.8	53.4	54.0
Linkert	42.6	43.3	51.6	49.5	77.2	48.4	53.6	63.9	63.0	48.3	44.2	53.8	53.8
Focus	38.0	38.2	53.5	50.7	80.7	45.7	51.7	72.8	68.2	48.0	40.2	53.1	53.6
Prosper	42.9	42.0	50.6	46.6	86.7	41.3	44.9	67.9	63.2	49.2	42.9	53.6	53.3
Boost	43.5	44.0	49.7	47.4	72.6	48.0	53.7	62.6	62.9	45.4	43.7	52.1	52.7
Bolles	41.5	40.0	46.7	45.6	76.9	47.5	50.7	65.1	61.5	45.3	42.1	51.8	51.3
HRS 3361	42.1	39.1	49.9	47.5	74.9	41.4	44.6	66.5	61.4	47.4	42.4	52.1	50.4
Shelly	48.6	-	55.0	-	-	54.1	-	74.9	-	53.2	47.5	59.6	-
SY Ingmar	48.9	-	55.5	-	-	52.4	-	72.3	-	53.2	46.3	59.1	-
HRS 3100	43.9	-	59.2	-	-	45.7	-	69.5	-	51.6	47.7	56.7	-
HRS 3616	46.3	-	55.7	-	-	50.3	-	69.3	-	46.7	44.7	55.7	-
LCS Anchor	37.8	-	46.2	-	-	49.0	-	66.8	-	47.2	45.2	52.5	-
ND VitPro	39.6	-	48.3	-	-	45.7	-	63.5	-	46.3	44.8	50.4	-
Ambush†	-	-	-	-	-	-	-	-	-	-	-	-	-
Camaro†	-	-	-	-	-	-	-	-	-	-	-	-	-
LCS Prime†	-	-	-	-	-	-	-	-	-	-	-	-	-
LCS Rebel†	-	-	-	-	-	-	-	-	-	-	-	-	-
WB9479†	-	-	-	-	-	-	-	-	-	-	-	-	-
WB9590†	-	-	-	-	-	-	-	-	-	-	-	-	-
WB9719†	-	-	-	-	-	-	-	-	-	-	-	-	-
Trial Average	43.4	43.9	53.5	50.3	83.6	48.3	53.1	70.3	68	50.8	45.7	55.0	56.2
LSD(0.05)‡	2.9	2.6	5.7	4.8	3.3	2.9	2.6	3.5	2.8	2.6	3.0	3.6	3.6

* Doland multiyear averages include data from Faulkton in 2015 and 2016, Selby 2-year data is from 2015 and 2016.

† New entry in 2017, not previously tested.

‡ Yield value required (\geq LSD) to determine if varieties are statistically different than one another.

Table 7. 2015-2017 (2 and 3-year averages) West River Yield (bu/ac @ 13% M) Performance - sorted by overall 3-year yield. Varieties yielding in the upper 1/3 of each trial location are denoted by gray shading.

Variety	Crop Zone - 6			Crop Zone 6	
	Draper	Wall		West River Average	
	2 year*	2 year	3 year	2 year	3 year
SY Valda	46.8	36.9	45.8	36.7	45.7
Surpass	48.8	36.2	42.1	37.3	43.1
SY Rustler	42.9	34.5	43.0	34.2	42.9
Prevail	45.6	34.6	41.9	35.4	42.6
HRS 3530	44.5	33.0	42.0	33.6	42.2
LCS Trigger	41.0	33.8	42.7	32.6	42.0
WB9653	45.6	37.5	42.1	35.8	41.9
Select	47.3	35.8	40.8	36.6	41.8
MS Chevelle	42.1	33.6	42.2	32.7	41.7
Prosper	37.9	33.9	42.1	31.2	40.8
RB07	38.0	33.1	41.7	30.9	40.6
HRS 3504	42.9	32.4	39.7	33.1	40.3
Lang-MN	41.3	34.7	40.2	33.6	40.2
Advance	43.1	32.9	39.5	33.0	39.8
Brick	43.5	34.2	39.4	33.8	39.8
Faller	40.2	30.6	39.3	30.5	39.2
Focus	41.3	34.6	38.8	32.9	38.7
HRS 3419	36.3	28.8	39.5	28.1	38.7
Linkert	39.7	33.0	38.4	31.7	38.3
Forefront	39.0	33.9	37.8	31.9	37.5
Boost	38.2	26.9	36.1	28.3	36.7
HRS 3361	35.8	28.7	34.5	27.6	34.4
Bolles	36.1	23.9	32.5	25.8	33.5
HRS 3100	45.5	36.8	-	36.0	-
LCS Anchor	43.0	34.9	-	33.8	-
Shelly	40.9	33.6	-	32.6	-
ND VitPro	40.0	33.9	-	31.9	-
HRS 3616	41.3	30.0	-	31.2	-
SY Ingmar	40.3	30.0	-	31.1	-
Ambush†	-	-	-	-	-
Camaro†	-	-	-	-	-
LCS Prime†	-	-	-	-	-
LCS Rebel†	-	-	-	-	-
WB9479†	-	-	-	-	-
WB9590†	-	-	-	-	-
WB9719†	-	-	-	-	-
Trial Average	41.7	33.3	40.2	34.0	37.3
LSD(0.05)‡	4.6	4.0	3.3	3.9	5.1

† New entry in 2017, not previously tested.

‡ Yield value required (≥LSD) to determine if varieties are statistically different than one another.

Table 8. List of spring wheat varieties tested in 2017 along with origin, agronomic and grain quality characteristics, and disease ratings.

Variety	Testing and Origin		Agronomic Characteristics			Grain Quality		Disease Ratings¶				
	Years Tested in SD	Origin†-Year	Relative Hdg‡ (days)	Relative Ht‡ (inches)	Lodging Score§	Test Wt.	Protein %	2017 Stripe Rust	Stem Rust	Leaf Rust	2016 BLS	2017 FHB (scab)
Advance	5+	SD-11	4	-1	1.6	Avg.	Avg.	MS	R-MR	MR-MS	MS	MR
Ambush†	new	DG-17	3	0	1.3	Avg.	Avg.	S	-	-	-	MR
Bolles	5+	MN-15	6	2	1.4	Low	High	MS	-	(R)#	MS	MS
Boost	5+	SD-exp	6	2	1.2	Low	Good	S	-	MR	MR	MS
Brick	5+	SD-08	0	0	1.3	High	Avg.	MS-S	R	MR-MS	MR	MR
Camaro†	new	MS-18	3	-3	1.3	Avg.	Good	S	(R)	(R)	(R)	MS
Faller	5+	ND-07	6	2	1.4	Low	Avg.	S	R	MS	MS	MS
Focus	5+	SD-15	0	1	1.4	Good	Avg.	S	-	S	MR	MR
Forefront	5+	SD-11	1	2	1.4	Avg.	Avg.	MS	R-MR	MS	MR	MR
HRS 3100	2	CP-16	5	-1	1.0	Avg.	Avg.	S	-	-	MS	MS
HRS 3361	4	CP-14	4	-1	1.1	Low	Avg.	S	(MR)	(MR)	MS	MS
HRS 3419	4	CP-15	8	0	1.1	V. Low	Avg.	R	(R)	(R)	S	MS
HRS 3504	3	CP-15	6	-1	1.0	Avg.	Low	S	(MR)	(MR)	MS	MS
HRS 3530	3	CP-16	6	3	1.6	Low	Avg.	S	(R)	(R)	MS	MS
HRS 3616	2	CP-17	5	1	1.3	Low	Avg.	MS	-	-	MS	MS
Lang-MN	3	MN-17	5	0	1.3	Avg.	Avg.	MS	(R)	(MR)	MS	MR
LCS Anchor	2	LCS-16	2	-4	1.2	Avg.	Good	S	-	(MR)	MR	MS
LCS Prime†	new	LCS-15	3	1	1.3	Good	Low	MS	-	(MR)	-	MR
LCS Rebel†	new	LCS-17	3	1	1.5	Avg.	Avg.	S	-	-	-	MR
LCS Trigger	3	LCS-15	8	2	1.2	Avg.	Low	MS	(R)	(R)	MS	MS
Linkert	5+	MN-13	3	-2	1.1	Avg.	Good	MS	-	MR-MS	MR	MS
MS Chevelle	4	MS-14	2	-2	1.4	Avg.	Low	MR	(MR)	(R)	S	MS
ND VitPro	2	ND-17	3	0	1.3	Avg.	Good	MS	(MR)	(R)	MS	MR
Prevail	5+	SD-13	3	-1	1.3	Avg.	Avg.	MR	MR	MS	MR	MR
Prosper	5+	ND-11	6	3	1.4	Low	Low	S	R	MS	MS	MR
RB07	5+	MN-07	4	-1	1.3	Avg.	Avg.	MR	MR	MR	MS	MS
Select	5+	SD-09	0	-1	1.3	High	Low	S	R-MR	MR-MS	MR	MR
Shelly	2	MN-16	6	-1	1.2	Avg.	Avg.	MR	-	-	MS	MS
Surpass	4	SD-exp	1	-1	1.4	Avg.	Avg.	S	-	-	MR	MR
SY Ingmar	2	AP-14	6	0	1.3	Avg.	Avg.	S	(R)	(MR)	MR	MS
SY Rustler	3	AP-16	2	-3	1.4	Avg.	Avg.	MS	-	MR	MR	MR
SY Valda	3	AP-15	4	-2	1.4	Avg.	Avg.	S	-	MR	MR	MR
WB9479†	new	WB-18	2	-3	1.0	Avg.	Avg.	MS	-	-	-	MS
WB9590†	new	WB-18	2	-3	1.0	Avg.	Avg.	S	-	(MR)	(MS)	MS
WB9653	3	WB-15	5	-1	1.1	Low	Low	S	-	MR	MR	MS
WB9719†	new	WB-18	5	-1	1.1	Avg.	Avg.	S	-	(MR)	(S)	MS

† AP, Agripro; CP, Croplan; DG, Dyna-Gro; LCS, Limagrain Cereal Seeds; MN, Minnesota; MS, Meridian Seeds; ND, North Dakota; SD, South Dakota; WB, Westbred and - (Year of Release)

‡ Difference in days to heading (**162 days Julian**) and height (**26 inches**) in inches compared to **Brick** statewide.

§ Lodging scores range from 1 (perfectly standing) to 5 (completely flat).

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

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