

**WSU Bread Lab Hard Red Spring Wheat  
2018 Mount Vernon**

2 Year   3 Year   4 Year

Variety	Mkt Class	Yield (Bu/A)	Test WT (Lbs/Bu)	Protein (%)	Plant HT (In)	Head Date	Stripe Rust	Average (Bu/A)	Average (Bu/A)	Average (Bu/A)
<i>Released Varieties</i>										
SAS W4	HRF	<b>75.7**</b>	51.7	11.1	26	178	R	84	79	83
SAS 14-106	HRF	<b>73.3*</b>	51.5	10.5	28	180	R	91	--	--
SAS 13-69	HRS	<b>71.8*</b>	50.7	10.8	22	176	R	78	72	86
Edison	HWS	<b>68.6*</b>	<b>58.7*</b>	10.6	28	177	R	81	68	78
Paragon	HRS	<b>68.3*</b>	51.6	11.5	31	178	MR-MS	--	--	--
SAS 14-4	HRF	<b>62.4*</b>	51.2	11.4	22	179	MS	75	--	--
SAS 14-91	HRS	59.7	54.2	11.2	29	178	R	73	--	--
Dayn	HWS	54.6	<b>60.7*</b>	12.2	24	173	MR-MS	59	67	68
SAS 9-25	SRF	53.8	51.3	10.2	27	181	R	65	--	--
WB9662	HRS	53.6	<b>57.4*</b>	<b>13.7*</b>	25	178	R	60	--	--
Sable	HRS	53.4	<b>59.6*</b>	12.6	25	173	MR-MS	--	--	--
SY Selway	HRS	51.3	<b>59.4*</b>	12.0	27	172	MR-MS	66	--	--
WB9518	HRS	50.5	<b>58.5*</b>	<b>14.1**</b>	24	176	R	60	--	--
Luja	HRS	50.0	55.5	11.2	30	172	R	--	--	--
Chet	HRS	47.1	<b>61.6*</b>	12.7	24	173	MR-MS	66	--	--
Alum	HRS	46.9	<b>62.0*</b>	12.3	23	173	MR-MS	63	67	67
Glee	HRS	43.1	<b>60.7*</b>	11.9	25	174	MR-MS	58	61	64
Quarna	HRS	42.1	57.2	13.1	23	171	R	--	--	--
WB9717	HRS	41.2	<b>62.1**</b>	12.0	23	178	R	--	--	--
Φland	HRS	41.0	<b>56.1*</b>	12.0	42	177	S	--	--	--
SY Renegade	HRS	39.3	<b>61.2*</b>	11.9	19	172	MR	62	--	--
SY Gunsight	HRS	39.2	50.6	11.8	19	172	MR-MS	--	--	--
WB7202CLP	HWS	37.6	<b>60.1*</b>	11.5	15	175	MS	--	--	--
LCS Iron	HRS	37.3	<b>59.4*</b>	11.1	30	178	R	64	--	--
SAS Duragold	D	36.2	50.6	12.0	21	176	R	46	--	--
Hollis	HRS	35.5	<b>58.6*</b>	12.1	35	174	MS	50	--	--
Kelse	HRS	35.1	<b>60.6*</b>	<b>13.6</b>	25	173	MS	50	--	--
LCS Luna	HRS	34.9	<b>59.3*</b>	11.9	16	176	MR	51	--	--
Soft Svevo	D	32.1	<b>58.8*</b>	13.3	18	174	MR	--	--	--
SY Coho	HRS	29.0	<b>57.3*</b>	12.2	22	173	MR	55	--	--
WB9350	HRS	28.1	<b>56.3*</b>	11.3	17	174	MR	--	--	--
WB9668	HRS	27.2	<b>60.6*</b>	12.1	17	175	R	48	--	--
<i>Experimental Breeding Lines</i>										
ML455-17-E	HRS	<b>75.2</b>	<b>58.3*</b>	11.4	30	181	MR	--	--	--
ML120005	HWS	57.1	<b>59.1*</b>	10.9	29	174	MR	71	64	--
12SB0197	HRS	56.4	<b>57.5*</b>	11.0	22	178	R	67	--	--
WA 8280 CL+	HRSI	54.2	<b>59.7*</b>	12.1	23	173	MR-MS	62	--	--
ML SE17-24-433L	HRS	50.4	<b>59.5*</b>	11.2	28	177	MR	71	69	78
WA 8300 CL+	HRSI	47.8	<b>61.8*</b>	11.6	24	174	MR	--	--	--
WA 8299 CL+	HRSI	46.0	<b>61.7*</b>	12.4	24	174	MR	--	--	--

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<b>WA 8282</b>	HRS	44.1	<b>61.6*</b>	11.9	27	174	MR	54	--	--
<b>12SB0224</b>	HRS	41.7	<b>59.2*</b>	11.7	18	179	R	59	--	--
<b>WA 8301</b>	HRS	37.7	<b>61.4*</b>	12.7	21	175	MR	--	--	--
<b>WA 8302 CL+</b>	HRSI	37.1	<b>61.9</b>	11.5	24	175	MR-MS	--	--	--
<b>10PN3039-02</b>	HRSI	36.4	<b>59.2</b>	11.9	17	172	MR	--	--	--
<b>IDO1603S</b>	HRS	31.7	<b>60.8</b>	13.0	17	174	MR	48	--	--
<b>16-HRS-5172</b>	HRS	31.0	<b>57.1</b>	11.1	21	177	MR	--	--	--
<b>XB9591</b>	HRS	28.0	<b>59.5</b>	11.0	21	174	MR-MS	--	--	--
<b>C.V. %</b>		19.3	6.5	3.0						
<b>LSD (0.05)</b>		14.6	6.1	0.6						
<b>Average</b>		46.7	57.9	11.8						
<b>Highest</b>		75.7	62.1	14.1						
<b>Lowest</b>		28.0	50.6	10.2						

\*\* = indicates highest value within a column

\* = indicates value equal to highest value within a column based on Fisher's protected LSD ( $p=0.05$ )

**Agronomic Information**

Planting Date: 4/24/2018

Harvest Date: 8/15/2018

Seeding Rate: ~120 lbs/ac

Previous Crop: fallow/cover crop

Spring soil test:1-ft sample

N (lb/ac) 20

P (ppm) 86

S (ppm) 4

pH 6.5

Herbicides:

Diuron pre-emerge on 04/25/18

Maestro 2EC, Harmony Extra SG on 05/21/18

Fertilizer applied:

(lbs/ac) 100N 10K 8S

**Trial Notes**

1. The Mount Vernon nursery was located on the WSU-Mount Vernon NWREC research field.
2. The nursery was seeded with a double disc drill on 6 inch spacing.
3. No fungicides were applied for control of stripe rust or other fungal diseases.
4. Overall yield was 33% less than 2017, and grain test weight was 1.6 lb/bu less.

- Heading date (Julian) is when 50% of the heads are 50% emerged.

- HRS = Hard Red Spring, HWS = Hard White Spring, SRS = Soft Red Spring, HRF = Hard Red Facultative, D = Durum, HRSI = Hard Red Spring Clearfield (IMI)

- R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible

Commercial products or trade names do not imply an endorsement by Washington State University.

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Questions? Contact Steve Lyon (slyon@wsu.edu) 360-707-4640.

For additional variety testing results visit:

<http://thebreadlab.wsu.edu/western-washington-variety-trials/>.