

2019 WSU/Bread Lab Variety Testing Soft White Winter Wheat Trial, Mount Vernon
2019

Variety Name	Yield (Bu/A)	Test Wt (Lbs/Bu)	Protein (%)	Plant Ht (in)	Head Date	Stripe Rust	Lodging (%)	2 Year Average (Bu/A)	3 Year Average (Bu/A)	5 Year Average (Bu/A)
<i>Released Varieties</i>										
LCS Shark	195*	57.0	9.9	42	138	R	0	159	152	
LCS Drive	177*	56.2	10.2	37	135	R	0	137	136	
SY Assure	173	57.8*	10.8	45	134	R	0	138	128	
Bobtail	173	56.2	10.0	43	140	R	10	151	153	147
Norwest Tandem	171	56.8	10.6	41	138	R	0	153	141	
PNW Hailey	170	58.6*	10.1	49	141	R	15	141		
SY Raptor	169	55.2	10.0	44	140	R	0	140		
LCS Hulk	166	58.6*	9.8	42	140	R	0	139	135	
Norwest Duet	163	56.5	9.8	53	141	R	0	133	133	
Dyna-Gro Impact	157	56.7	11.1	45	139	R	0	134		
Resilience CL+	154	55.8	10.8	45	141	R	0	135		
ARS-Castella	147	58.3*	10.7	50	138	R	50	121		
UI Sparrow	147	55.1	10.5	49	145	MR	0	130	138	
Jasper	142	52.9	10.8	48	140	R	0	140	125	
LCS Artdeco	137	52.6	9.8	37	135	R	0	119	114	
Cara	129	52.0	11.0	47	142	R	0	117	127	123
ARS-Crescent	126	53.7	9.6	50	144	MR	0	112	115	104
Rosalyn	126	55.8	9.6	44	142	MR	0	127	118	116
M-Press	122	55.9	9.7	40	141	R	0	131		
Madsen	121	54.9	10.3	49	144	R	0	103		
SY Dayton	116	54.3	10.0	43	141	R	0	110	110	
SY Ovation	101	51.3	11.0	45	141	MR	0	112	104	104
Puma	98	50.5	10.4	52	140	MR	0	89		
Druchamp	93	54.0	12.2	52	146	MR	70			
UI Magic CL+	91	52.7	9.9	41	137	MS	0	78		
UI Castle CL+	73	49.2	10.3	44	142	R	0	69		
Xerpha	73	50.8	11.0	42	144	MS	0	69		
Purl (WA 8234)	64	48.1	10.5	47	141	R	0	58		
<i>Experimental lines</i>										
LWW15-71945	213**	56.4	10.5	44	140	R	0	175		
LWW15-71898	208*	58.4*	10.2	41	140	R	0			
LWW15-71682	205*	59.4**	10.5	41	134	R	0			
WA 8307	183*	55.6	9.8	48	143	R	0			
IDO1808	176*	56.0	10.9	46	138	R	20			
OR2121086	174	57.2	9.9	46	138	R	0	139		
UIL 07-28017B	171	58.1*	10.9	45	138	R	0	128		
LWW14-74143	166	53.3	9.3	42	134	R	0	132		
ARS09X492-6CBW	164	57.8*	11.0	48	143	R	10			
2J160059	156	53.0	10.9	42	141	MR	0			
06PN212-25	153	56.2	10.0	44	136	R	0			
WB1604	149	57.3*	10.5	45	136	R	0	106		
11PN044#84	145	56.3	10.9	45	137	R	0			
UIL 17-6268 CL+	144	54.1	9.7	40	140	R	0			
6J120179-8	141	52.0	10.9	50	145	R	0			
ARS08H08X117-83C	141	55.2	10.0	45	141	R	0			
2J160096	139	53.9	9.9	41	138	MR	0			
UIL 09-15702A	133	55.0	10.5	50	141	R	0			
OR12161250 CL+	124	55.6	10.4	45	132	MR	0			
WA 8306 CL+	124	51.7	9.8	50	142	R	20			
OR12150031 CL+	123	56.7	11.1	48	141	R	0	113		
YS-201	117	55.3	10.1	44	141	R	0			
WB1376CLP	114	56.8	10.4	45	141	R	0	109		
6J120175-2	114	56.2	11.5	62	143	R	40			
WB1783	113	53.5	10.0	45	141	R	0			
IDO1810	94	55.2	11.0	43	148	MR	0			
WA 8293	90	55.4	9.7	45	142	R	0	71		
11PN042#64	82	52.9	10.4	43	139	R	0			
WB1529	81	52.1	10.5	45	142	R	0	74		
ORCF-102	74	52.7	11.2	45	143	MR	0	74		
WA 8305 CL+	64	45.0	10.6	48	143	R	0			
WA 8275 CL+	51	42.9	11.8	43	136	R	0	67		
CV %	17.2	2.9	6.3							
LSD (0.05)	38	2.6	1.1							
Average	135	54.6	10.4							
Highest	213	59.4	12.2							
Lowest	51	42.9	9.3							

** = 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: 10/10/2018
Harvest Date: 7/30/2019
Seeding Rate: ~140 lbs/ac
Previous Crop: fallow/cover crop
Spring soil test: 1-ft sample
N (lb/ac) 14
P (ppm) 71
S (ppm) 3
pH 6.3
Herbicides:
Diuron pre-emerge on 10/15/18
Maestro 2EC, Harmony Extra SG on 03/28/19
Fertilizer applied: (lbs/ac)
4/1/2019: 100N 10K 8S
4/17/2019: 30N

Trial Notes:

- The Mount Vernon nursery was located on the WSU-Mount Vernon NWREC research field.
- The nursery was seeded with a double disc drill on 6 inch spacing.
- No fungicides were applied for control of stripe rust or other fungal diseases.
- Overall yield was 41% greater than 2018, but grain test weight was 4% less.

- Heading date (Julian, days from Jan. 1) is when 50% of the heads are 50% emerged.
- R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible

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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/>