

2019 WSU/Bread Lab Variety Testing Hard 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	3 Year	5 Year
								Average (Bu/A)	Average (Bu/A)	Average (Bu/A)
Released Varieties										
Colonia	204**	56.1	11.2	43	144	R	0	175	163	157
LCS Aymeric	198*	57.4	10.5	40	134	MS	0			
NW553	183*	59.1*	12.4*	39	141	R	0	149	138	139
LCS Rocket	171	55.4	11.6	39	135	MR	0	146		
Skagit 1109	164	59.1*	12.1	55	138	R	13	136	131	123
Reaper	140	54.0	11.4	41	143	MR-MS	0			
SY Touchstone	134	57.8	11.5	40	140	R	0	108	98	
Keldin	131	55.2	11.1	43	141	MS	0	105	99	
WB4623CLP	130	56.6	13.3**	45	140	R	33	89	88	
Paragon	127	52.1	13.3**	49	144	MR-MS	0			
Monopol	118	57.9	12.4*	51	143	MR-MS	0			
WB4311	116	57.3	11.9	39	131	MS	0	91		
WB4303	109	51.8	11.0	41	131	MR	0	78		
LCS Jet	96	53.8	11.9	39	134	MR-MS	0	75		
SY Clearstone CL2	93	54.3	11.6	50	138	R	40	66		
Experimental lines										
J110003-8	187*	57.1	12.0	47	136	R	0	157	146	
LWH16-10541	185*	54.7	11.0	41	141	R	0			
LGWF15-2112	182*	57.6	12.3	38	137	R	0			
LGWF15-2213	180*	57.3	11.8	42	136	R	0			
LWW14-73915	179*	57.7	11.8	43	133	R	0			
IDO1608	174*	59.4*	12.2	48	142	R	0			
WA 8289	170	56.6	11.0	37	139	R	0	126		
WA 8309	169	53.2	12.1	36	141	R	0			
6J120046-3	167	59.4*	11.5	48	141	MR	40			
6J1100157-2-3	167	60.6**	12.1	47	141	R	0			
6J110160-1-1	166	57.4	13.1*	47	141	R	3			
5J120165-2-6	162	57.3	12.5*	48	141	MR	3			
6J120120-1	144	56.3	11.9	57	141	R	30			
5J120165-2-14	137	59.3*	12.8*	47	141	R	0			
6J120013	132	58.3*	12.1	54	142	R	27			
WA 8268	128	54.8	11.5	40	141	R	0			
05PN044-20	121	53.5	12.0	41	138	MR	0			
5J1200117-6	114	57.4	11.8	57	143	R	83			
CV %	13	2.6	4.7							
LSD (0.05)	33	2.4	0.9							
Average	151	56.5	11.9	45	139			115	123	140
Highest	204	60.6	13.3	57	144					
Lowest	93	51.8	10.5	36	131					

** = 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: 7/29/2019
 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:

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 69% 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/>.