

2015 WSU-Mount Vernon Hard Spring Wheat Trial

Variety	Mkt class	5 yr ave (bu/a)	3 yr ave (bu/a)	2 yr ave (bu/a)	Yield (bu/a)	T. Wt. (lbs/bu)	Protein (%)	Head date	plant ht (in)
Dayn	HWS	107.4	111.0	103.6	77.2	63.6	11.6	5-Jun	26
Glee-G2	HRS		78.6	78.0	73.8	63.3	10.9	5-Jun	31
Alum (WA 8166)	HRS		77.4	71.4	68.3	63.8	12.0	5-Jun	29
Glee	HRS	74.6	74.5	69.6	66.9	63.2	10.5	5-Jun	29
SAS W4*	HRF	113.6	97.8	81.7	66.6	57.7	11.6	18-Jun	29
SAS W7*	SRF	105.4	90.9	78.6	66.0	58.6	11.1	18-Jun	28
ML SE17-24-433L	HWS		99.5	84.8	65.3	60.9	11.1	15-Jun	33
SAS 4B*	HRF	113.6	94.0	85.1	65.1	57.5	11.0	18-Jun	27
LCS-Star	HWS			88.1	61.4	61.1	11.2	6-Jun	27
12SB0131	HWS				59.5	61.6	10.8	7-Jun	28
SAS 13-69*	HRF			86.3	59.3	55.8	11.0	18-Jun	25
ML12004	HWS				58.4	61.7	11.3	15-Jun	24
Soft Alzada	Durum				58.0	62.7	11.8	5-Jun	26
WB9518	HRS				57.6	61.5	12.5	7-Jun	25
ML118-6R2	HRS		102.0	89.4	57.4	60.9	11.4	9-Jun	28
10SB0087-B	HRS			79.4	56.7	62.6	11.6	7-Jun	22
ML12002	HWS				56.2	61.8	12.0	8-Jun	23
04PN3001-2	HRS				56.0	62.1	11.6	6-Jun	31
WB9229	HRS				55.7	62.6	11.9	7-Jun	24
Glee-0W	HRS		67.7	59.4	55.3	61.9	11.0	5-Jun	30
UI-Platinum	HWS				54.7	63.8	11.3	5-Jun	26
11SB0096	HRS		96.0	83.2	53.8	64.1	11.2	6-Jun	23
SAS BAL 6-4*	SRF	97.7	98.3	84.0	53.5	58.4	10.9	18-Jun	26
12SB0146	HWS				53.0	61.9	11.0	6-Jun	26
SAS W3*	HRF	104.1	85.7	66.3	50.3	56.2	11.0	18-Jun	30
ML12005	HWS				49.6	60.1	12.1	15-Jun	25
04W40292R	HRS				49.5	58.9	11.7	8-Jun	29
WB9668	HRS				42.7	62.8	13.7	5-Jun	23
Edison	HWS		97.8	75.5	42.7	59.2	11.5	15-Jun	25
WA 8242	HRSI				41.7	61.7	11.0	5-Jun	26
Patwin 515	HWS	100.2	99.0	89.2	41.2	60.8	12.7	8-Jun	21
WA 8241	HRSI				39.7	63.1	11.5	5-Jun	29
Espresso	HRS			74.1	35.0	60.7	13.4	8-Jun	24
average		102.1	91.3	80.4	56.0	61.1	11.5		
CV %					21.0	2.7			
LSD@.1					19.2	2.7			
Max		113.6	111.0	103.6	77.2	64.1	13.7		
Min.		74.6	67.7	59.4	35.0	55.8	10.5		

* 70 lb/ac seeding rate

- All values within the 10% LSD range of the highest are shown in bold.
- The Hard Spring Wheat Nursery was seeded on 08 April 2015.
- Seed was placed at 100#/ac seeding rate with a double disc drill set on 6-inch spacing.

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- 72.0 lbs N, 10.6 P, 24.0 K, and 15.0 S were applied post-emergence based on soil tests. 07 June, additional 30 lbs/a N applied to hard wheats.
- Maestro 2EC and Harmony Extra SG were applied at labeled rates for weed control. No fungicides were applied for stripe rust control or insecticides for cereal leaf beetle control.
- Glee-G2 is Glee with 2 oz/100 lbs seed of Gaucho® insecticide seed treatment targeting wireworms. Glee is the standard seed treatment rate (0.75oz./100lbs. seed) and Glee-0W has no insecticide seed treatment.
- Harvest was on 11 August 2015; average yield was 56.0 bu/a, 26.0 bu/a less than last year.
- Test Weight averaged 61.1 lbs/bu, much greater than last year's 52.2 lbs/bu.
- Grain protein averaged 11.5 %, less than last year's 13.5% protein value.
- HRS= hard red spring; HWS=hard white spring; HRF= hard red facultative; HRSI = hard red spring Clearfield
- Heading date is when 50 % of the heads are 50 % emerged.

Discussion:

This nursery experienced excess heat during tillering, causing most varieties to produce only one to three tillers, greatly reducing grain yield.

For additional information contact Steve Lyon (slyon@wsu.edu).

For additional variety testing results visit:<http://thebreadlab.wsu.edu/western-washington-variety-trials/>

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