

2018 Irrigated Wheat Variety Trial Results

Results for the 2018 irrigated trials located in Albin, WY. Trials were seeded on 10/8/2017 at a population of 1,250,000 seeds/a. Trials were harvested on 8/2/18 using a Kincaid XP-8 plot combine. Yield is reported as bu/a based on a standard 60 lb bushel at 13.5% seed moisture. Estimated hail loss of the surrounding field was 27%, a score of -1, 0, or 1 was given to plots that had more, equal, or less damage from hail than the surrounding field.

Variety	Yield bu/a ¹	TWT	% protein ¹		Seeding lbs/a	Appx Heading Date	Height (in)	Sawfly % Lodged	Hail Damage Score
			Moisture	%					
CO15SFD061 (SFD)	97.4 A	59.6 ABCDEFG	11.6	8.5	92	3-Jun 8-Jun	32	7	-0.7
Cowboy	94.8 AB	59.8 ABCDEFG	11.6	9.2	102	7-Jun 10-Jun	34	5	0.0
Canvas (CO12D1770)	94.3 ABC	61.2 ABC	11.8	10.2	90	4-Jun 9-Jun	32	8	0.7
Hatcher	93.3 ABCD	59.5 ABCDEFG	10.8	10.6	97	31-May 7-Jun	32	5	-0.3
Sunshine	93.2 ABCD	58.9 ABCDEFG	10.4	10.2	123	4-Jun 9-Jun	30	10	0.3
MTS1588 (SS)	93.2 ABCD	61.4 AB	11.6	10.7	74	12-Jun 13-Jun	30	3	0.3
Whistler (CO13D1783)	91.2 ABCDE	59.7 ABCDEFG	11.3	9.3	84	11-Jun 12-Jun	33	12	0.0
Spur/Cowboy Blend	89.1 ABCDEF	59.2 ABCDEFG	10.9	9.2	90	7-Jun 10-Jun	33	13	0.0
Breck (CO12D2011HT)	88.2 ABCDEF	61.4 A	11.6	11.0	95	6-Jun 10-Jun	34	5	0.0
Avery	85.9 ABCDEF	58.1 DEFG	10.6	10.6	97	5-Jun 9-Jun	31	15	0.0
Cowboy (100 lb/a)	84.4 ABCDEF	59.4 ABCDEFG	11.4	9.4	100	8-Jun 11-Jun	32	5	0.7
CO13D0787	82.1 ABCDEF	61.3 AB	12.6	10.2	89	7-Jun 10-Jun	31	30	0.0
Incline AX (CO14A065HT)	81.8 ABCDEF	57.6 FG	10.4	8.9	85	11-Jun 12-Jun	33	7	1.0
MT1265 (WCMR)	81.7 ABCDEF	57.5 FG	11.0	10.2	103	13-Jun 13-Jun	37	12	0.0
SY Wolf	81.7 ABCDEF	60.5 ABCDE	12.5	11.3	84	4-Jun 9-Jun	33	7	-0.3
SY Wolf (100 lb/a)	80.6 ABCDEF	59.9 ABCDEFG	12.0	9.6	100	5-Jun 9-Jun	31	10	0.0
CO13007	79.6 ABCDEF	58.8 ABCDEFG	10.6	10.3	97	4-Jun 9-Jun	33	10	-0.3
Spur² (SS)	79.6 ABCDEF	57.5 FG	10.3	9.3	78	13-Jun 13-Jun	31	12	0.7
Byrd CL Plus (CO13003C)	79.4 ABCDEF	57.7 EFG	10.5	9.0	86	6-Jun 10-Jun	32	12	-0.3
MT1465	79.4 ABCDEF	58.8 ABCDEFG	11.0	9.9	90	9-Jun 11-Jun	32	10	0.0
Spur/Cowboy/Avery/Langin	79.1 ABCDEF	58.3 CDEFG	10.6	8.8	93	8-Jun 11-Jun	33	13	0.0
Keldin	76.3 ABCDEF	59.4 ABCDEFG	10.4	9.9	130	9-Jun 11-Jun	33	7	0.3
MT1444 (discontinued)	75.4 ABCDEF	59.7 ABCDEFG	11.7	9.8	68	12-Jun 13-Jun	34	8	0.0
Warhorse	75.0 ABCDEF	60.4 ABCDEF	12.7	12.6	61	14-Jun 14-Jun	35	0	0.0
Warhorse (100 lb/a)	74.0 ABCDEF	60.5 ABCDE	11.6	11.1	100	9-Jun 11-Jun	33	2	0.3
WB-Grainfield	72.9 ABCDEF	59.9 ABCDEFG	11.0	11.6	85	1-Jun 7-Jun	31	18	-0.3
MTV1681 (WSM1)	72.5 ABCDEF	58.5 BCDEFG	13.5	9.5	76	10-Jun 12-Jun	32	10	0.7
CO15D098R	71.2 BCDEF	58.5 BCDEFG	16.7	10.3	105	4-Jun 9-Jun	34	5	-0.3
MT1491	69.5 GBCDEF	58.2 DEFG	11.0	10.3	92	13-Jun 13-Jun	35	13	0.0
CO15SFD107 (SFD)	68.4 GCDEF	58.9 ABCDEFG	11.0	10.8	78	5-Jun 9-Jun	32	5	-0.3
SY Sunrise	68.0 GDEF	58.4 CDEFG	10.0	11.6	103	7-Jun 10-Jun	28	7	-0.3
WB4721	66.4 GEF	59.0 ABCDEFG	11.2	10.5	95	1-Jun 7-Jun	29	15	-0.3
CO15SFD092 (SFD)	66.3 GEF	59.4 ABCDEFG	11.3	10.6	71	3-Jun 8-Jun	31	10	-0.7
Langin	65.1 GEF	57.2 G	11.7	9.0	95	31-May 7-Jun	28	22	-1.0
MT1564	63.2 GF	58.3 CDEFG	11.2	10.4	105	1-Jun 7-Jun	32	47	-1.0
CO15SFD095 (SFD)	49.4 G	60.7 ABCD	12.5	10.3	73	3-Jun 8-Jun	31	17	-1.0
Average	53.3 ***	58.7 ***	10.6 ^{NS}						

¹ all yield and protein data are corrected to 13.5% moisture

²note, seeding lbs/a for Spur is based on seed harvested in 2018

SFD = Sawfly, Doubled Haploid (semi solid stem); SS = Solid Stem; nd = no data

NS = data not significantly different; *** = significant at p > 0.001, Letters indicate significant differences based on the Student-Newman-Keuls test at $\alpha = 0.05$

Heading data was taken on 6/13/18, Height data was taken on 8/1/18

Grain Protein Analysis was done by John Stromberger, CSU Wheat Quality Laboratory using near-infrared reflectance spectroscopy (NIRs)