

Dryland Wheat Variety Trial, NMSU Agricultural Science Center at Clovis, 2018

Investigators: A. Scott, B. Niece and A. Mesbah

Test Description

Location:	Management Practices:	Growing Conditions:																																																																																	
County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.	Previous Crop: fallow Planting Date: 11-Oct Harvest Date: 13-Jun Production Inputs <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td style="padding-left: 20px;">N</td> <td style="text-align: center;">36 lb/ac</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td style="padding-left: 20px;">N</td> <td style="text-align: center;">30 lb/ac</td> <td style="text-align: center;">7-Feb</td> </tr> <tr> <td style="padding-left: 20px;">S</td> <td style="text-align: center;">5 lb/ac</td> <td style="text-align: center;">7-Feb</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td style="padding-left: 20px;">Affinity BS</td> <td style="text-align: center;">0.6 oz/ac</td> <td style="text-align: center;">7-Feb</td> </tr> <tr> <td style="padding-left: 20px;">LV 6</td> <td style="text-align: center;">12 oz/ac</td> <td style="text-align: center;">7-Feb</td> </tr> <tr> <td style="padding-left: 20px;">Prowl H2O</td> <td style="text-align: center;">3 pt/ac</td> <td style="text-align: center;">7-Feb</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td style="padding-left: 20px;">Govern</td> <td style="text-align: center;">1 pt/ac</td> <td style="text-align: center;">7-Feb</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			N	36 lb/ac	carryover	N	30 lb/ac	7-Feb	S	5 lb/ac	7-Feb	Herbicides:			Affinity BS	0.6 oz/ac	7-Feb	LV 6	12 oz/ac	7-Feb	Prowl H2O	3 pt/ac	7-Feb	Insecticides:			Govern	1 pt/ac	7-Feb	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average Temp. °F</th> <th style="text-align: center;">Precip. in.</th> <th style="text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>October</td><td style="text-align: center;">56.5</td><td style="text-align: center;">2.0</td><td style="text-align: center;">-</td></tr> <tr><td>November</td><td style="text-align: center;">50.0</td><td style="text-align: center;">0.0</td><td style="text-align: center;">-</td></tr> <tr><td>December</td><td style="text-align: center;">38.1</td><td style="text-align: center;">0.0</td><td style="text-align: center;">-</td></tr> <tr><td>January</td><td style="text-align: center;">35.1</td><td style="text-align: center;">0.0</td><td style="text-align: center;">-</td></tr> <tr><td>February</td><td style="text-align: center;">40.2</td><td style="text-align: center;">0.1</td><td style="text-align: center;">-</td></tr> <tr><td>March</td><td style="text-align: center;">49.3</td><td style="text-align: center;">0.0</td><td style="text-align: center;">-</td></tr> <tr><td>April</td><td style="text-align: center;">52.8</td><td style="text-align: center;">0.7</td><td style="text-align: center;">-</td></tr> <tr><td>May</td><td style="text-align: center;">69.4</td><td style="text-align: center;">1.6</td><td style="text-align: center;">-</td></tr> <tr><td>June 1-13</td><td style="text-align: center;">76.1</td><td style="text-align: center;">1.2</td><td style="text-align: center;">-</td></tr> <tr> <td style="text-align: right;">Seasonal Precipitation</td> <td></td> <td style="text-align: center;">5.7 in.</td> <td></td> </tr> <tr> <td style="text-align: right;">Total Irrigation</td> <td></td> <td style="text-align: center;">-</td> <td style="text-align: center;">in.</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	October	56.5	2.0	-	November	50.0	0.0	-	December	38.1	0.0	-	January	35.1	0.0	-	February	40.2	0.1	-	March	49.3	0.0	-	April	52.8	0.7	-	May	69.4	1.6	-	June 1-13	76.1	1.2	-	Seasonal Precipitation		5.7 in.		Total Irrigation		-	in.
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Test Design: Replications: 3 Planted Plot Length: 30 ft. Harvested Plot Length: 30 ft. Plot Width: 75 in. Rows per Plot: 11 Drill Row Spacing: 6.25 in. Seeding Rate: 30 lb/ac																																																																																			

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Variety Name	Grain Yield ¹ bu/a	Bushel Weight lb/bu	Harvest Moisture %	Plant Height in	Lodging %	Head Date date
PlainsGold Denali	23.2 ***	51.4 *	10.7 *	22.6 *	3	4/30 *
LCS Mint	21.9 *	57.7 *	10.7 *	23.3 ***	2	4/29 *
Long Branch	21.8 *	58.8 *	10.3	21.1 *	7	4/27
CROPLAN EXP 69-16	20.0 *	57.0 *	10.1	20.6	9	4/25
PlainsGold Avery	19.8 *	57.1 *	10.7 *	20.0	30 ***	4/23
T158	19.7 *	55.4 *	9.9	19.3	3	4/22
WB4721	19.4 *	56.4 *	10.2	18.8	8	4/26
TAM 204	18.7 *	54.5 *	9.9	17.5	2	4/25
WB Grainfield	18.7 *	53.0 *	10.2	20.6	3	4/25
TAM 113	18.4 *	53.9 *	10.7 *	20.6	17 *	4/25
Iba	18.1 *	58.5 *	10.3	21.0 *	2	4/29 *
Winterhawk	17.7 *	54.1 *	9.6	21.0 *	16 *	4/25
TX11A001295	17.7 *	59.2 ***	10.6 *	22.3 *	3	4/30 ***
WB4462	17.7 *	54.2 *	10.4 *	23.1 *	18 *	4/23
CROPLAN EXP 09-17	17.4 *	56.0 *	10.4 *	20.4	7	4/23
TX12V7415	16.8	56.7 *	10.4 *	19.4	11	4/21
TAM 304RS	16.6	56.0 *	9.8	19.2	9	4/23
TAM 112	16.1	57.9 *	10.8 *	19.3	22 *	4/22
TAM 114	16.1	56.4 *	10.2	20.5	4	4/25
TAM 111	15.8	58.6 *	11.2 ***	22.9 *	27 *	4/27
TAM 304	15.8	53.6 *	10.1	18.9	16 *	4/23
PlainsGold Langin	15.7	57.3 *	10.6 *	19.8	23 *	4/23
TAM W-101	15.0	52.2 *	10.2	18.8	18 *	4/20
LCS Pistol	14.7	56.4 *	10.4 *	17.7	11	4/22
TAM 112ET	13.9	56.9 *	10.2	18.9	22 *	4/21
CROPLAN EXP 56-17	13.2	56.2 *	10.3 *	17.0	2	4/27 *
LCS Chrome	13.1	46.0	10.3	17.5	0	4/28 *
TAM 114ET	12.4	56.8 *	10.6 *	18.6	10	4/27
TX13M5625	12.0	56.0 *	10.3 *	15.5	2	4/28 *
Trial Mean	17.2	55.6	6.4	19.9	10.4	4/25
LSD (P> 0.05)	6.1	8.3	0.9	2.6	18.1	3.38
CV	21.8	9.1	8.6	7.9	106.0	1.77
F Test	0.0	0.7	0.4	<.0001	0.3	<.0001

¹Yields adjusted to 60 lb standard bushel weight and 13.5 % moisture.

*** Highest numerical value in the column.

* Not significantly different from the highest numerical value in the column based on the 5% LSD.

² No lodging reported