

Dryland Wheat Variety Trial, NMSU Agricultural Science Center at Clovis, 2019

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

Test Description

Location:	Management Practices:	Growing Conditions:																																																																																	
<p>County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.</p> <p>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</p>	<p>Previous Crop: fallow Planting Date: 9-Nov Harvest Date: 2-Jul</p> <p>Production Inputs</p> <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;">60 lb/ac</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td style="padding-left: 20px;">N</td> <td style="text-align: center;">36 lb/ac</td> <td style="text-align: center;">28-Feb</td> </tr> <tr> <td style="padding-left: 20px;">S</td> <td style="text-align: center;">6 lb/ac</td> <td style="text-align: center;">28-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;">4-Apr</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;">4-Apr</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;">4-Apr</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;">4-Apr</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			N	60 lb/ac	carryover	N	36 lb/ac	28-Feb	S	6 lb/ac	28-Feb	Herbicides:			Affinity BS	0.6 oz/ac	4-Apr	LV 6	12 oz/ac	4-Apr	Prowl H2O	3 pt/ac	4-Apr	Insecticides:			Govern	1 pt/ac	4-Apr	<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>November</td> <td style="text-align: center;">43.0</td> <td style="text-align: center;">0.17</td> <td style="text-align: center;">-</td> </tr> <tr> <td>December</td> <td style="text-align: center;">37.5</td> <td style="text-align: center;">0.14</td> <td style="text-align: center;">-</td> </tr> <tr> <td>January</td> <td style="text-align: center;">38.5</td> <td style="text-align: center;">0.16</td> <td style="text-align: center;">-</td> </tr> <tr> <td>February</td> <td style="text-align: center;">41.4</td> <td style="text-align: center;">0.18</td> <td style="text-align: center;">-</td> </tr> <tr> <td>March</td> <td style="text-align: center;">45.7</td> <td style="text-align: center;">1.11</td> <td style="text-align: center;">-</td> </tr> <tr> <td>April</td> <td style="text-align: center;">56.0</td> <td style="text-align: center;">2.49</td> <td style="text-align: center;">-</td> </tr> <tr> <td>May</td> <td style="text-align: center;">63.2</td> <td style="text-align: center;">1.69</td> <td style="text-align: center;">-</td> </tr> <tr> <td>June</td> <td style="text-align: center;">72.7</td> <td style="text-align: center;">2.09</td> <td style="text-align: center;">-</td> </tr> <tr> <td>July 1-2</td> <td style="text-align: center;">78.0</td> <td style="text-align: center;">0.07</td> <td style="text-align: center;">-</td> </tr> <tr> <td colspan="2" style="text-align: right;">Seasonal Precipitation</td> <td style="text-align: center;">8.1 in.</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Irrigation</td> <td style="text-align: center;">-</td> <td style="text-align: center;">in.</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	November	43.0	0.17	-	December	37.5	0.14	-	January	38.5	0.16	-	February	41.4	0.18	-	March	45.7	1.11	-	April	56.0	2.49	-	May	63.2	1.69	-	June	72.7	2.09	-	July 1-2	78.0	0.07	-	Seasonal Precipitation		8.1 in.		Total Irrigation		-	in.
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Variety Name	Owner	Grain Yield ¹ bu/a	Bushel Weight lb/bu	Harvest Moisture %	Plant Height in	Lodging %	Head Date date
PlainsGold Canvas	CSU	30.9 ***	60.4 *	9.8 ***	23.7 *	0	5/11
CP7909	Croplan	30.7 *	59.6 *	9.7 *	22.7 *	0	5/8
LCS Mint	Limagrain	30.5 *	59.3 *	9.7 *	24.3 *	0	5/12 *
TAM 114	Warner Seed	30.2 *	60.9 *	9.6 *	24.3 *	0	5/7
CPX79-10	Croplan	29.2 *	61.9 ***	9.4 *	21.7	0	5/9
CP7869	Croplan	29.2 *	60.2 *	9.4 *	22.3	0	5/13 *
TAM 113	Warner Seed	29.0 *	60.5 *	9.3 *	23.7 *	0	5/13 *
TX12V7415	TAMU	28.9 *	61.9 *	9.2 *	24.0 *	0	5/8
Smith's Gold	OSU	28.3 *	59.5 *	9.1 *	23.0 *	0	5/11
Dyna-Gro Long Branch	Dyna-Gro	28.0 *	57.7	9.1 *	22.3	0	5/12 *
TX11A001295	TAMU	27.9 *	58.5 *	9.0 *	22.0	0	5/14 *
TAM 112	Watley Seed	27.9 *	59.8 *	9.0 *	22.7 *	0	5/10
Winterhawk	Westbred	27.6 *	61.8 *	8.9 *	25.3 ***	0	5/10
08BC379-40-1	Syngenta	27.5 *	59.1 *	8.9 *	22.7 *	0	5/8
WB 4792	Westbred	27.4 *	56.8	8.9 *	25.0 *	0	5/12 *
Gallagher	OSU	26.6 *	56.4	8.6 *	22.0	0	5/10
Lonerider	OSU	26.2 *	58.9 *	8.5 *	21.7	0	5/11
TAM 204	Watley Seed	25.4 *	54.9	8.3 *	22.7 *	0	5/13 *
WB-Grainfield	Westbred	24.8	59.9 *	8.1	23.3 *	0	5/8
OK12716	OSU	24.7	57.0	8.1	23.0 *	0	5/8
WB 4721	Westbred	24.4	61.8 *	8.1	23.3 *	0	5/11
LCS Pistol	Limagrain	24.4	56.2	8.1	24.7 *	0	5/10
SY Grit	Syngenta	24.3	61.2 *	8.0	22.3	0	5/9
LCS Link	Limagrain	23.8	59.1 *	7.9	22.0	0	5/8
SY Flint	Syngenta	23.3	60.1 *	7.7	22.0	0	5/7
PlainsGold Langin	CSU	23.1	57.9	7.7	20.7	0	5/15 ***
Iba	OSU	22.0	57.7	7.4	21.0	0	5/13 *
DH12HRW27-3	Limagrain	20.7	55.2	7.1	19.7	0	5/11
Trial Mean		26.7	59.1	8.7	22.7	0.0	5/10
LSD (P> 0.05)		5.5	3.9	1.5	2.9	0.0	3.05
CV		12.5	4.1	10.3	7.8	0.0	1.43
F Test		<.0001	<.0001	<.0001	0.06	<.0001	<.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