

Dryland Wheat Variety Trial, NMSU Agricultural Science Center at Clovis, 2015

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: 21-Oct Harvest Date: 14-Jul 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>Fertilizer:</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">N</td> <td style="text-align: center;">99 lb/ac</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td>Herbicides:</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Weedone LV6</td> <td style="text-align: center;">12 oz/ac</td> <td style="text-align: center;">22-Mar</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;">22-Mar</td> </tr> <tr> <td>Insecticides:</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Lorsban</td> <td style="text-align: center;">1 pt/ac</td> <td style="text-align: center;">22-Mar</td> </tr> <tr> <td>Fungicides:</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Prosaro</td> <td style="text-align: center;">5 oz/ac</td> <td style="text-align: center;">29-May</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			N	99 lb/ac	carryover	Herbicides:			Weedone LV6	12 oz/ac	22-Mar	Affinity BS	0.6 oz/ac	22-Mar	Insecticides:			Lorsban	1 pt/ac	22-Mar	Fungicides:			Prosaro	5 oz/ac	29-May	<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;">60.2</td><td style="text-align: center;">0.4</td><td style="text-align: center;">-</td></tr> <tr><td>November</td><td style="text-align: center;">41.3</td><td style="text-align: center;">0.2</td><td style="text-align: center;">-</td></tr> <tr><td>December</td><td style="text-align: center;">38.0</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;">31.1</td><td style="text-align: center;">1.2</td><td style="text-align: center;">-</td></tr> <tr><td>February</td><td style="text-align: center;">38.5</td><td style="text-align: center;">0.6</td><td style="text-align: center;">-</td></tr> <tr><td>March</td><td style="text-align: center;">45.9</td><td style="text-align: center;">0.6</td><td style="text-align: center;">-</td></tr> <tr><td>April</td><td style="text-align: center;">54.1</td><td style="text-align: center;">0.6</td><td style="text-align: center;">-</td></tr> <tr><td>May</td><td style="text-align: center;">59.3</td><td style="text-align: center;">7.5</td><td style="text-align: center;">-</td></tr> <tr><td>June</td><td style="text-align: center;">72.1</td><td style="text-align: center;">1.8</td><td style="text-align: center;">-</td></tr> <tr><td>July 1-14</td><td style="text-align: center;">75.5</td><td style="text-align: center;">1.9</td><td style="text-align: center;">-</td></tr> <tr> <td>Seasonal Precipitation</td> <td></td> <td style="text-align: center;">14.8 in.</td> <td></td> </tr> <tr> <td>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	60.2	0.4	-	November	41.3	0.2	-	December	38.0	0.0	-	January	31.1	1.2	-	February	38.5	0.6	-	March	45.9	0.6	-	April	54.1	0.6	-	May	59.3	7.5	-	June	72.1	1.8	-	July 1-14	75.5	1.9	-	Seasonal Precipitation		14.8 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	Owner	Grain Yield ¹ bu/a	Bushel Weight lb/bu	Harvest Moisture %	Plant Height in	Lodging ¹ %	Head Date date
PlainsGold Denali	CSU	35.8 ***	55.4	7.4	21.7	0	5/4
PlainsGold Byrd	CSU	33.3 *	57.0 ***	6.6	22.0	0	5/2
PlainsGold Hatcher	CSU	31.8 *	53.2	6.7	20.0	0	5/5
TX09A001194	TAMU	30.9 *	55.3	7.1	22.0	0	4/29
Doublestop CL	OSU	30.7 *	55.1	6.6	22.3	0	5/5
LCS Mint	Limagrain	30.3	54.9	7.4	22.3	0	5/6
Duster	OSU	30.1	53.7	8.1	20.3	0	5/5
T158	Limagrain	29.5	53.5	8.1	18.3	0	4/30
TAM 114	TAMU	28.0	56.5	8.1	21.0	0	5/6
TAM 204	TAMU	27.6	49.8	6.4	20.3	0	5/4
SY Monument	Syngenta	26.7	53.4	6.9	19.7	0	5/8 *
WB-4458	Monsanto	26.4	52.2	6.6	22.3	0	5/4
TAM 113	TAMU	26.3	52.7	7.2	21.7	0	5/7
TAM 112	TAMU	26.2	52.2	10.6	22.3	0	4/28
Greer	Syngenta	26.2	52.4	6.8	19.7	0	5/2
WB-Grainfield	Monsanto	26.1	51.0	11.5	20.0	0	5/3
KanMark	KSU	25.8	53.5	6.2	17.3	0	5/7
TX08A001249	TAMU	25.5	55.1	7.9	21.3	0	4/27
05BC041-10-10	Syngenta	25.3	49.9	6.1	21.7	0	5/7
OK09125	OSU	25.3	51.2	9.5	20.3	0	5/5
AP11T1409	Syngenta	25.0	49.3	7.8	21.7	0	5/7
Ruby Lee	OSU	24.2	55.1	6.6	20.3	0	5/3
Winterhawk	Monsanto	23.8	57.0	7.3	20.7	0	5/5
WB-Cedar	Monsanto	23.6	50.4	8.4	18.0	0	4/28
Iba	OSU	23.4	51.8	12.9	19.0	0	5/6
PlainsGold Brawl CL Plus	CSU	23.3	54.7	7.5	22.3	0	5/3
TAM W-101	TAMU	23.2	53.5	7.0	21.3	0	5/7
Everest	KSU	22.8	53.6	10.2	17.7	0	5/1
Razor	Syngenta	22.5	53.6	17.3	23.0 ***	0	5/11 ***
Gallagher	OSU	22.3	51.9	8.4	19.0	0	5/4
LCS Wizard	Limagrain	21.9	54.8	6.3	21.0	0	5/7
SY Llano	Syngenta	21.9	54.5	12.9	19.0	0	5/2
TX09D1172	TAMU	21.7	53.9	12.2	19.3	0	5/6
WB-Redhawk	Monsanto	21.2	53.4	8.2	21.3	0	5/4
SY Drifter	Syngenta	20.6	56.6 *	7.5	19.7	0	5/10 *
TAM 304	TAMU	19.5	48.5	7.9	17.3	0	5/1
TAM 401	TAMU	19.3	50.9	7.2	21.7	0	5/4
TAM 305	TAMU	19.0	51.6	17.8	19.0	0	5/5
Endurance	OSU	19.0	45.9	18.4	21.0	0	5/11 ***
TAM 111	TAMU	16.9	46.7	30.3 ***	20.0	0	5/5
Trial Mean		25.1	52.9	9.3	20.5	0.0	5-May
LSD (P> 0.05)		8.5	4.3	8.8	2.7	0.0	11.1
CV		21.1	5.0	51.4	8.3	-	5.5
F Test		<.0001	<.0001	<.0001	<.0001	ns	<.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.

¹ No lodging reported