

Irrigated 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: 15-Oct Harvest Date: 1-Jul Production Inputs <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>N</td> <td>30 lb/ac</td> <td>carryover</td> </tr> <tr> <td>N</td> <td>30 lb/ac</td> <td>13-Oct</td> </tr> <tr> <td>P</td> <td>30 lb/ac</td> <td>13-Oct</td> </tr> <tr> <td>S</td> <td>3.8 lb/ac</td> <td>13-Oct</td> </tr> <tr> <td>Zn</td> <td>2 qt/ac</td> <td>13-Oct</td> </tr> <tr> <td>N</td> <td>85 lb/ac</td> <td>12-Feb</td> </tr> <tr> <td>S</td> <td>15 lb/ac</td> <td>12-Feb</td> </tr> </tbody> </table> Herbicides: Weedone LV6 12 oz/ac 19-Mar Affinity BS 0.6 oz/ac 19-Mar Insecticides: Lorsban 1 pt/ac 28-May Fungicides: Prosaro 5 oz/ac 28-May		Rate	Date	Fertilizer:			N	30 lb/ac	carryover	N	30 lb/ac	13-Oct	P	30 lb/ac	13-Oct	S	3.8 lb/ac	13-Oct	Zn	2 qt/ac	13-Oct	N	85 lb/ac	12-Feb	S	15 lb/ac	12-Feb	<table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>60.2</td> <td>0.4</td> <td>1.7</td> </tr> <tr> <td>November</td> <td>41.3</td> <td>0.2</td> <td>1.2</td> </tr> <tr> <td>December</td> <td>38.0</td> <td>0.0</td> <td>-</td> </tr> <tr> <td>January</td> <td>31.1</td> <td>1.2</td> <td>-</td> </tr> <tr> <td>February</td> <td>38.5</td> <td>0.6</td> <td>0.8</td> </tr> <tr> <td>March</td> <td>45.9</td> <td>0.6</td> <td>3.3</td> </tr> <tr> <td>April</td> <td>54.1</td> <td>0.6</td> <td>5.8</td> </tr> <tr> <td>May</td> <td>59.3</td> <td>7.5</td> <td>-</td> </tr> <tr> <td>June</td> <td>72.1</td> <td>1.8</td> <td>-</td> </tr> <tr> <td colspan="2">Seasonal Precipitation</td> <td colspan="2">12.9 in.</td> </tr> <tr> <td colspan="2">Total Irrigation</td> <td colspan="2">12.8 in.</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	October	60.2	0.4	1.7	November	41.3	0.2	1.2	December	38.0	0.0	-	January	31.1	1.2	-	February	38.5	0.6	0.8	March	45.9	0.6	3.3	April	54.1	0.6	5.8	May	59.3	7.5	-	June	72.1	1.8	-	Seasonal Precipitation		12.9 in.		Total Irrigation		12.8 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: 70 lb/ac																																																																													

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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
05BC041-10-10	Syngenta	100.3 ***	61.5	6.6	39.3	2.3	4/28
WB-Grainfield	Monsanto	99.2 *	64.0 ***	6.9	40.0	0.0	4/29
TAM 114	TAMU	99.2 *	63.5 *	6.9	38.7	2.3	4/30
OK09125	OSU	93.3 *	61.8	6.5	40.3	0.0	4/30
TAM 401	TAMU	90.6 *	58.5	6.2	36.3	20.0 ***	4/28
LCS Mint	Limagrain	90.2 *	62.9 *	7.2	40.0	0.0	5/1
Gallagher	OSU	89.6 *	61.9	7.2	37.7	1.0	5/2
TAM 113	TAMU	88.7	62.5	7.6	37.7	1.0	4/30
TAM 304	TAMU	88.5	59.9	6.2	37.3	0.0	4/27
Greer	Syngenta	88.4	61.8	6.4	36.0	0.0	5/1
KanMark	KSU	87.9	62.4	6.6	32.0	0.0	5/3
AP11T1409	Syngenta	87.6	58.7	7.2	41.0	0.0	5/1
Duster	OSU	87.2	62.8 *	6.7	38.7	0.0	5/1
TX08A001249	TAMU	87.1	61.8	6.3	37.7	0.0	4/29
TAM 112	TAMU	86.7	62.0	6.7	38.3	1.7	4/27
Doublestop CL	OSU	83.8	62.3	7.2	40.7	0.0	4/28
T158	Limagrain	83.2	61.7	6.6	37.7	0.0	4/29
Razor	Syngenta	83.0	61.2	7.5	46.3 ***	0.0	5/7 ***
SY Monument	Syngenta	83.0	61.5	7.0	36.0	0.0	5/5
Winterhawk	Monsanto	82.6	63.6 *	7.0	38.0	0.0	5/2
TX09D1172	TAMU	82.4	60.4	6.2	37.3	0.0	4/28
TAM 204	TAMU	82.4	57.7	6.3	32.7	0.0	5/2
TX09A001194	TAMU	82.2	59.6	6.6	39.0	3.3	4/29
SY Drifter	Syngenta	81.8	63.2 *	6.5	39.0	0.0	5/6 *
Iba	OSU	80.9	62.7 *	6.6	38.0	0.0	5/2
PlainsGold Brawl CL Plus	CSU	80.1	61.6	6.4	38.7	0.0	4/28
TAM 305	TAMU	79.8	63.4 *	6.9	34.3	0.0	4/29
TAM 111	TAMU	78.1	59.2	6.4	40.7	10.0 *	5/3
WB-Cedar	Monsanto	76.8	62.9 *	7.1	33.0	0.0	4/27
PlainsGold Hatcher	CSU	76.6	59.1	7.0	37.7	5.0	4/29
Ruby Lee	OSU	76.4	61.2	6.7	44.0 *	0.0	4/27
WB-4458	Monsanto	76.2	60.5	7.4	36.3	0.0	4/28
SY Llano	Syngenta	75.7	61.8	8.1 *	34.0	0.0	4/25
LCS Wizard	Limagrain	74.7	61.4	6.8	35.3	0.0	5/5
PlainsGold Denali	CSU	73.3	58.5	6.1	39.3	0.0	5/2
Everest	KSU	70.6	62.2	8.4 ***	33.7	0.0	4/26
WB-Redhawk	Monsanto	70.4	59.3	6.3	38.0	0.0	4/28
Endurance	OSU	66.8	58.8	7.1	36.7	0.0	5/4
TAM W-101	TAMU	64.6	57.9	6.2	37.3	0.0	4/28
PlainsGold Byrd	CSU	62.7	55.5	6.1	38.3	6.7	4/28
Trial Mean		82.3	61.1	6.8	37.8	1.3	1-May
LSD (P> 0.05)		11.5	2.9	0.9	3.2	10.7	4.3
CV		8.6	3.0	8.1	5.2	495.9	2.2
F Test		<.0001	<.0001	<.0001	<.0001	0.5	<.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.