

Irrigated Wheat Variety Trial, NMSU Agricultural Science Center at Clovis, 2006

Investigators: R.E. Kirksey, M.A. Marsalis, A. Scott, N. Pryor, and C. Werner

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: 18-Oct Harvest Date: 20-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>Nitrogen</td> <td style="text-align: center;">25 lb/ac</td> <td style="text-align: center;">21-Nov</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">15 lb/ac</td> <td style="text-align: center;">15-Dec</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">20 lb/ac</td> <td style="text-align: center;">23-Mar</td> </tr> <tr> <td>Sulfur</td> <td style="text-align: center;">5 lb/ac</td> <td style="text-align: center;">21-Nov</td> </tr> <tr> <td>Sulfur</td> <td style="text-align: center;">3 lb/ac</td> <td style="text-align: center;">15-Dec</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Lo-Vol 6</td> <td style="text-align: center;">1 pt/ac</td> <td style="text-align: center;">25-Mar</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>Lorsban 4E</td> <td style="text-align: center;">1 pt/ac</td> <td style="text-align: center;">25-Mar</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	25 lb/ac	21-Nov	Nitrogen	15 lb/ac	15-Dec	Nitrogen	20 lb/ac	23-Mar	Sulfur	5 lb/ac	21-Nov	Sulfur	3 lb/ac	15-Dec	Herbicides:			Lo-Vol 6	1 pt/ac	25-Mar	Insecticides:			Lorsban 4E	1 pt/ac	25-Mar	<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;">58.1</td><td style="text-align: center;">0.61</td><td style="text-align: center;">-</td></tr> <tr><td>November</td><td style="text-align: center;">49.9</td><td style="text-align: center;">0.00</td><td style="text-align: center;">1.55</td></tr> <tr><td>December</td><td style="text-align: center;">39.4</td><td style="text-align: center;">0.00</td><td style="text-align: center;">1.60</td></tr> <tr><td>January</td><td style="text-align: center;">42.8</td><td style="text-align: center;">0.00</td><td style="text-align: center;">1.60</td></tr> <tr><td>February</td><td style="text-align: center;">40.9</td><td style="text-align: center;">0.09</td><td style="text-align: center;">1.00</td></tr> <tr><td>March</td><td style="text-align: center;">48.0</td><td style="text-align: center;">0.61</td><td style="text-align: center;">1.00</td></tr> <tr><td>April</td><td style="text-align: center;">59.8</td><td style="text-align: center;">0.25</td><td style="text-align: center;">6.75</td></tr> <tr><td>May</td><td style="text-align: center;">68.5</td><td style="text-align: center;">0.56</td><td style="text-align: center;">5.00</td></tr> <tr><td>June</td><td style="text-align: center;">76.0</td><td style="text-align: center;">0.68</td><td style="text-align: center;">1.00</td></tr> <tr> <td>Seasonal Precipitation</td> <td></td> <td style="text-align: center;">2.8 in.</td> <td></td> </tr> <tr> <td>Total Irrigation</td> <td></td> <td></td> <td style="text-align: center;">19.5 in.</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	October	58.1	0.61	-	November	49.9	0.00	1.55	December	39.4	0.00	1.60	January	42.8	0.00	1.60	February	40.9	0.09	1.00	March	48.0	0.61	1.00	April	59.8	0.25	6.75	May	68.5	0.56	5.00	June	76.0	0.68	1.00	Seasonal Precipitation		2.8 in.		Total Irrigation			19.5 in.
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Test Design: Replications: 3 Plot Length: 25 ft. (Planted) Plot Length: 21 ft. (Harvested) Plot Width: 75 in. Rows per Plot: 11 Drill Row Spacing: 5.5 in. Seeding Rate: 90 lb/ac																																																																																			

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Variety Name	Grain Yield ¹ bu/a	Bushel Weight lb/bu	Harvest Moisture %	Plant Height in	Head Date date
TX00V1117	104.3 ***	61.6 *	8.2 *	40.8 ***	5/1 ***
Hatcher	95.2 *	62.1 *	7.9	34.9	4/26
AP502 CL	95.0 *	58.8	7.2	34.5	4/23
TAM 111	93.5 *	61.2 *	7.9	38.1 *	4/27
TAM 110	89.5	60.6 *	7.5	34.3	4/25
Keota	88.2	59.7	7.6	39.8 *	4/26
Blend	87.8	58.7	8.6 ***	37.7 *	4/25
Jagger	85.8	60.7 *	7.5	36.1	4/24
TX01V5314	85.3	59.7	7.4	36.9	4/29 *
Dumas	85.3	62.2 *	7.7	35.0	4/27
KS03HW158	84.7	60.9 *	8.1 *	33.6	5/1 *
TAM 105	84.0	58.8	7.6	39.8 *	4/30 *
OK93P656H3299-2C04	84.0	61.1 *	7.8	37.9 *	4/26
OK01307	83.9	60.6 *	7.7	37.4 *	4/27
TAM 112	82.8	61.5 *	7.6	34.0	4/25
TX01D3232	82.0	60.2	7.5	32.3	4/25
T81	81.9	60.5 *	7.7	36.6	4/26
KS00F5-14-7	81.2	62.2 *	8.0	36.6	4/27
Neosho	80.4	60.2	7.6	36.4	4/27
TAM 303	80.3	60.0	7.6	34.6	4/26
Santa Fe	80.1	60.4 *	7.4	34.6	4/25
Bullet	79.7	61.1 *	7.6	40.4 *	4/28
TX01A5936	79.2	61.2 *	8.0	36.7	4/28
Guymon	78.1	62.3 ***	7.9	35.4	5/1 *
Endurance	77.2	60.5 *	7.9	34.8	4/27
Fannin	77.2	60.3	7.6	36.4	4/25
Jagelene	76.4	61.9 *	7.9	37.8 *	4/30 *
Ogallala	75.3	61.9 *	7.7	31.6	4/26
AP03T6126	73.5	62.1 *	7.7	36.7	4/25
AP03T6115	72.6	60.7 *	7.6	34.0	4/29 *
AP02T4342	72.5	62.1 *	7.7	35.8	4/25
Overley	72.0	61.2 *	7.5	38.7 *	4/25
TX01V6008	68.5	62.1 *	7.9	34.8	4/29 *
Cutter	68.5	62.1 *	7.9	38.1 *	4/27
TAM W 101	68.4	57.9	7.6	33.6	4/28
Coronado	67.9	59.1	7.2	29.5	4/27
AP03TA7525	65.7	59.6	8.0	34.6	5/1 *
Deliver	58.8	60.9 *	7.7	35.4	4/28
Longhorn	56.3	58.5	7.4	40.2 *	4/30 *
Sturdy 2K	46.6	59.6	7.6	38.7 *	4/28
Trial Mean	78.7	60.7	7.7	36.1	4/27
LSD (P> 0.05)	14.4	1.9	0.5	3.9	2.7
CV	11.25	1.97	4.00	6.64	1.40
F Test	<.0001	<.0001	0.0007	<.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.