

Irrigated Wheat Variety Trial, NMSU Agricultural Science Center at Clovis, 2009

Investigators: R.E. Kirksey, M.A. Marsalis, A. Scott, and B. Niece

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: 30-Oct Harvest Date: 30-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>N</td> <td>61 lb/ac</td> <td>carryover</td> </tr> <tr> <td>P</td> <td>40 lb/ac</td> <td>28-Oct</td> </tr> <tr> <td>Zn</td> <td>2 qt/ac</td> <td>28-Oct</td> </tr> <tr> <td>N</td> <td>40 lb/ac</td> <td>28-Oct</td> </tr> <tr> <td>N (pivot)</td> <td>40 lb/ac</td> <td>19-Feb</td> </tr> <tr> <td>S</td> <td>7 lb/ac</td> <td>19-Feb</td> </tr> <tr> <td>N</td> <td>35 lb/ac</td> <td>12-Mar</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Weedone LV6</td> <td>0.5 pt/ac</td> <td>19-Feb</td> </tr> <tr> <td>Affinity BS</td> <td>0.6 oz/ac</td> <td>19-Feb</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>Lorsban</td> <td>1 pt/ac</td> <td>19-Feb</td> </tr> <tr> <td>Lorsban</td> <td>1 pt/ac</td> <td>3-May</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			N	61 lb/ac	carryover	P	40 lb/ac	28-Oct	Zn	2 qt/ac	28-Oct	N	40 lb/ac	28-Oct	N (pivot)	40 lb/ac	19-Feb	S	7 lb/ac	19-Feb	N	35 lb/ac	12-Mar	Herbicides:			Weedone LV6	0.5 pt/ac	19-Feb	Affinity BS	0.6 oz/ac	19-Feb	Insecticides:			Lorsban	1 pt/ac	19-Feb	Lorsban	1 pt/ac	3-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;">56.5</td> <td style="text-align: center;">4.51</td> <td style="text-align: center;">-</td> </tr> <tr> <td>November</td> <td style="text-align: center;">47.0</td> <td style="text-align: center;">0.11</td> <td style="text-align: center;">0.6</td> </tr> <tr> <td>December</td> <td style="text-align: center;">38.0</td> <td style="text-align: center;">0.03</td> <td style="text-align: center;">1.0</td> </tr> <tr> <td>January</td> <td style="text-align: center;">38.5</td> <td style="text-align: center;">0.00</td> <td style="text-align: center;">-</td> </tr> <tr> <td>February</td> <td style="text-align: center;">44.2</td> <td style="text-align: center;">0.27</td> <td style="text-align: center;">0.7</td> </tr> <tr> <td>March</td> <td style="text-align: center;">48.2</td> <td style="text-align: center;">0.35</td> <td style="text-align: center;">1.8</td> </tr> <tr> <td>April</td> <td style="text-align: center;">53.6</td> <td style="text-align: center;">0.83</td> <td style="text-align: center;">4.8</td> </tr> <tr> <td>May</td> <td style="text-align: center;">62.0</td> <td style="text-align: center;">0.24</td> <td style="text-align: center;">7.4</td> </tr> <tr> <td>June</td> <td style="text-align: center;">72.8</td> <td style="text-align: center;">1.35</td> <td style="text-align: center;">1.5</td> </tr> <tr> <td colspan="2">Seasonal Precipitation</td> <td colspan="2" style="text-align: center;">7.7 in.</td> </tr> <tr> <td colspan="2">Total Irrigation</td> <td colspan="2" style="text-align: center;">17.6 in.</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	October	56.5	4.51	-	November	47.0	0.11	0.6	December	38.0	0.03	1.0	January	38.5	0.00	-	February	44.2	0.27	0.7	March	48.2	0.35	1.8	April	53.6	0.83	4.8	May	62.0	0.24	7.4	June	72.8	1.35	1.5	Seasonal Precipitation		7.7 in.		Total Irrigation		17.6 in.	
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Test Design: Replications: 3 Planted Plot Length: 18.1 ft. Harvested Plot Length: 14.33 ft. Plot Width: 75 in. Rows per Plot: 11 Drill Row Spacing: 5.5 in. Seeding Rate: 95 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
TAM 111 ²	Texas AgriLife	94.09 ***	57.0 *	13.6	32.2 ***	0.0	3-May
TAM 111 ³	Texas AgriLife	92.67 *	56.6 *	13.9	31.2 *	0.0	2-May
Dumas	AgriPro	92.34 *	56.6 *	12.9	29.4	0.0	3-May
Jagalene	AgriPro	90.97 *	57.5 *	13.0	30.7 *	0.0	2-May
OK03522	OSU	90.75 *	56.9 *	12.8	30.3 *	0.0	1-May
TAM 111	Texas AgriLife	88.30 *	56.5 *	13.7	30.2 *	0.0	3-May
OK04525	OSU	87.42 *	56.8 *	12.5	30.0	0.0	2-May
T81	Trio	87.39 *	56.7 *	13.1	30.8 *	0.0	2-May
TAM 112	Texas AgriLife	86.77 *	56.5 *	13.1	29.6	0.0	29-Apr
TAM 111 ⁴	Texas AgriLife	86.54 *	57.4 *	13.8	30.3 *	0.0	5-May *
TAM 304	Texas AgriLife	84.43 *	54.2	12.8	26.3	0.0	29-Apr
Duster	OSU	83.56 *	56.4 *	13.1	30.3 *	0.0	3-May
Overley	KSU	81.35	55.2	12.6	30.6 *	0.0	1-May
Bill Brown	CSU	80.23	56.8 *	14.3	28.9	0.0	3-May
Hatcher	CSU	79.90	55.6	12.7	31.1 *	0.0	3-May
TAM 203	Texas AgriLife	79.66	54.9	13.7	29.0	0.0	4-May *
Endurance	OSU	79.16	55.1	13.0	30.6 *	0.0	1-May
AP06T3832	AgriPro	78.73	53.0	12.4	28.7	0.0	4-May
Santa Fe	WestBred	78.70	55.5	12.9	30.6 *	0.0	30-Apr
TX01V5134RC-3	Texas AgriLife	78.34	56.2 *	12.6	27.8	0.0	30-Apr
Armour	WestBred	77.46	55.5	12.9	25.1	0.0	27-Apr
AP06TW4822	AgriPro	76.93	54.0	12.3	31.2 *	0.0	3-May
TAM W-101	Texas AgriLife	76.54	56.5 *	13.6	28.3	0.0	1-May
TX02A0252	Texas AgriLife	76.36	55.4	13.7	27.7	0.0	6-May *
OK05526	OSU	76.07	55.5	13.2	31.1 *	0.0	1-May
Art	AgriPro	75.73	55.0	13.2	29.1	0.0	4-May *
T136	Trio	75.36	56.7 *	13.1	26.1	0.0	30-Apr
Bullet	OSU	73.74	57.9 ***	12.3	29.5	0.0	3-May
TX04V075080	Texas AgriLife	73.07	54.3	12.4	29.1	0.0	4-May
Jagger	KSU	72.16	54.8	13.1	28.9	0.0	1-May
AP06TA4520	AgriPro	71.89	53.8	13.2	28.7	0.0	1-May
AP06T3519	AgriPro	70.96	53.9	13.4	28.2	0.0	2-May
Fannin	AgriPro	68.92	54.2	15.0 ***	29.1	0.0	3-May
Jackpot	AgriPro	68.50	54.6	11.9	27.1	0.0	28-Apr
Shocker	WestBred	67.22	54.8	11.7	28.6	0.0	2-May
Fuller	KSU	66.61	55.5	13.0	28.6	0.0	3-May
TAM 401	Texas AgriLife	64.85	48.3	13.1	28.3	0.0	1-May
Deliver	OSU	63.68	55.9	13.3	28.5	0.0	5-May *
Doans	AgriPro	60.66	55.9	13.0	28.7	0.0	3-May
TX03A0148	Texas AgriLife	50.99	48.1	13.1	28.4	0.0	6-May ***
Trial Mean		77.7	55.3	13.1	29.2	0.0	2-May
LSD (P> 0.05)		10.6	1.7	0.7	2.0		2.5
CV		8.42	1.94	3.43	4.29		1.25
F Test		<.0001	<.0001	<.0001	<.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 Treated with 1 oz. Gaucho

³ Treated with 1 oz. Gaucho and 0.5 oz. Raxil

⁴ Treated with 0.5 oz. Raxil