

Irrigated Wheat Variety Trial, NMSU Agricultural Science Center at Clovis, 2012

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: 12-Oct Harvest Date: 25-Jun 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>22 lb/ac</td> <td>carryover</td> </tr> <tr> <td>N</td> <td>30 lb/ac</td> <td>pre-plant</td> </tr> <tr> <td>P</td> <td>50 lb/ac</td> <td>pre-plant</td> </tr> <tr> <td>Zn</td> <td>2 qt/ac</td> <td>pre-plant</td> </tr> <tr> <td>N</td> <td>59 lb/ac</td> <td>24-Feb</td> </tr> <tr> <td>S</td> <td>11 lb/ac</td> <td>24-Feb</td> </tr> <tr> <td>N</td> <td>53 lb/ac</td> <td>16-Mar</td> </tr> <tr> <td>S</td> <td>10 lb/ac</td> <td>16-Mar</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Weedone LV6</td> <td>8 oz/ac</td> <td>15-Mar</td> </tr> <tr> <td>Affinity BS</td> <td>0.6 oz/ac</td> <td>15-Mar</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>Lorsban</td> <td>1 pt/ac</td> <td>24-Feb</td> </tr> <tr> <td>Lorsban</td> <td>1 pt/ac</td> <td>15-Mar</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			N	22 lb/ac	carryover	N	30 lb/ac	pre-plant	P	50 lb/ac	pre-plant	Zn	2 qt/ac	pre-plant	N	59 lb/ac	24-Feb	S	11 lb/ac	24-Feb	N	53 lb/ac	16-Mar	S	10 lb/ac	16-Mar	Herbicides:			Weedone LV6	8 oz/ac	15-Mar	Affinity BS	0.6 oz/ac	15-Mar	Insecticides:			Lorsban	1 pt/ac	24-Feb	Lorsban	1 pt/ac	15-Mar	<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>58.0</td> <td>1.2</td> <td>1.5</td> </tr> <tr> <td>November</td> <td>45.5</td> <td>0.1</td> <td>-</td> </tr> <tr> <td>December</td> <td>32.5</td> <td>1.7</td> <td>-</td> </tr> <tr> <td>January</td> <td>40.6</td> <td>-</td> <td>-</td> </tr> <tr> <td>February</td> <td>39.1</td> <td>0.3</td> <td>1.6</td> </tr> <tr> <td>March</td> <td>51.4</td> <td>0.1</td> <td>5.3</td> </tr> <tr> <td>April</td> <td>59.9</td> <td>0.3</td> <td>7.5</td> </tr> <tr> <td>May</td> <td>65.5</td> <td>2.5</td> <td>5.5</td> </tr> <tr> <td>June</td> <td>75.9</td> <td>1.3</td> <td>1.5</td> </tr> <tr> <td colspan="2">Seasonal Precipitation</td> <td>7.6 in.</td> <td></td> </tr> <tr> <td colspan="2">Total Irrigation</td> <td>22.9 in.</td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	October	58.0	1.2	1.5	November	45.5	0.1	-	December	32.5	1.7	-	January	40.6	-	-	February	39.1	0.3	1.6	March	51.4	0.1	5.3	April	59.9	0.3	7.5	May	65.5	2.5	5.5	June	75.9	1.3	1.5	Seasonal Precipitation		7.6 in.		Total Irrigation		22.9 in.	
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Test Design: Replications: 3 Planted Plot Length: 20 ft. Harvested Plot Length: 20 ft. Plot Width: 75 in. Rows per Plot: 11 Drill Row Spacing: 6.25 in. Seeding Rate: 72 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
Winterhawk	Westbred	114.3 ***	64.3 ***	7.6 *	35.0	0.0	4/22
Cedar	Westbred	113.9 *	62.0 *	7.5 *	31.0	36.7	4/17
TX03A0563-07AZHR247	TAMU	108.3 *	59.7	7.3 *	30.0	0.0	4/18
TAM 304	TAMU	106.1 *	61.1	7.2 *	30.3	0.0	4/19
T 158	Limagrain	103.4 *	61.5 *	7.0	34.7	13.3	4/20
Jagger	KSU	101.4	60.8	6.9	32.3	25.0	4/20
TX06V7266	TAMU	101.0	60.8	7.2 *	33.7	0.0	4/20
Pete	OSU	98.9	55.0	7.1 *	34.3	0.0	4/19
Everest	KSU	98.0	59.0	7.2 *	30.3	41.7 *	4/17
TAM 111	TAMU	96.7	62.4 *	7.8 *	33.7	0.0	4/22
OK07209	OSU	96.4	62.7 *	7.2 *	34.3	1.7	4/23
TX07A001505	TAMU	95.9	63.6 *	7.9 *	34.7	43.3 *	4/19
Duster	OSU	94.0	60.6	7.3 *	34.7	0.0	4/22
Santa Fe	Westbred	92.3	61.0	7.2 *	35.7	23.3 *	4/20
OK07214	OSU	92.3	60.1	6.9	33.3	8.3	4/22
Garrison	OSU	92.0	58.7	6.4	33.3	5.0	4/22
Fuller	KSU	91.3	62.1 *	7.4 *	31.7	0.0	4/19
Jackpot	Syngenta	90.9	61.5 *	7.4 *	34.3	73.3 *	4/17
Billings	OSU	90.7	59.8	7.3 *	32.0	18.3	4/19
Ripper	CSU	90.5	59.6	7.2 *	32.7	46.7 *	4/18
TAM W-101	TAMU	90.4	60.7	7.3 *	32.0	43.3	4/18
TAM 401	TAMU	90.0	64.1 *	7.8 *	31.3	10.0	4/20
Bill Brown	CSU	89.8	60.8	7.6 *	31.7	56.7 *	4/22
TAM 112	TAMU	87.0	61.1	7.6 *	31.0	78.3 *	4/15
Armour	Westbred	86.8	58.8	7.8 *	31.7	30.0	4/17
Hitch	Westbred	86.7	62.6 *	7.3 *	30.7	0.0	4/23
Greer	Syngenta	86.6	60.4	7.4 *	32.3	1.7	4/22
TX06A001263	TAMU	85.4	63.2 *	7.5 *	28.3	40.0	4/17
Endurance	OSU	85.3	61.1 *	7.2 *	33.3	1.7	4/22
CJ	Syngenta	84.1	61.0	7.3 *	36.0	63.3 *	4/21
Doans	Syngenta	82.9	61.5 *	7.9 *	36.0	13.3	4/19
Mace	NE	82.7	62.5 *	7.4 *	34.3	8.3	4/25 ***
Hatcher	CSU	82.4	60.6	7.4 *	31.3	1.7	4/21
TAM 203	TAMU	82.0	59.6	7.8 *	34.3	0.0	4/23
APH09T9614	Syngenta	80.7	60.8	7.9 ***	30.3	80.0 ***	4/18
TAM 113	TAMU	79.6	59.2	7.7 *	31.7	71.7 *	4/20
Ruby Lee	OSU	79.0	59.9	7.8 *	39.0 *	21.7	4/20
Fannin	Syngenta	77.5	60.2	7.6 *	34.3	56.7 *	4/20
AP08TA6927	Syngenta	68.9	60.6	7.5 *	38.7 *	38.3	4/20
APH09T2620	Syngenta	64.6	61.9 *	7.9 *	40.3 ***	38.3	4/19
Trial Mean		90.5	60.9	7.4	33.3	24.8	20-Apr
LSD (P> 0.05)		12.1	3.2	NS	3.0	38.7	1.6
CV		8.2	3.2	7.6	5.5	96.1	0.9
F Test		<.0001	0.0016	0.5283	<.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.