

Dryland Wheat Variety Trial, NMSU Agricultural Science Center at Clovis, 2008

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: 13-Jun <hr/> Production Inputs <hr/> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: center;">Rate</th> <th style="width: 20%; text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td style="padding-left: 20px;">N</td> <td style="text-align: center;">28 lb/ac</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td style="padding-left: 20px;">N</td> <td style="text-align: center;">35 lb/ac</td> <td style="text-align: center;">1-Sep</td> </tr> <tr> <td style="padding-left: 20px;">P₂O₅</td> <td style="text-align: center;">50 lb/ac</td> <td style="text-align: center;">1-Sep</td> </tr> <tr> <td style="padding-left: 20px;">S</td> <td style="text-align: center;">15 lb/ac</td> <td style="text-align: center;">1-Sep</td> </tr> </tbody> </table> Herbicides: Weedone LV6 1 pt/ac 22-Mar Insecticides: Lorsban 1 pt/ac 22-Mar		Rate	Date	Fertilizer:			N	28 lb/ac	carryover	N	35 lb/ac	1-Sep	P ₂ O ₅	50 lb/ac	1-Sep	S	15 lb/ac	1-Sep	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">Average Temp. °F</th> <th style="width: 15%; text-align: center;">Precip. in.</th> <th style="width: 35%; text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>October</td><td style="text-align: center;">60.5</td><td style="text-align: center;">0.17</td><td style="text-align: center;">-</td></tr> <tr><td>November</td><td style="text-align: center;">46.5</td><td style="text-align: center;">0.12</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;">0.66</td><td style="text-align: center;">-</td></tr> <tr><td>January</td><td style="text-align: center;">34.3</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;">41.2</td><td style="text-align: center;">0.20</td><td style="text-align: center;">-</td></tr> <tr><td>March</td><td style="text-align: center;">46.9</td><td style="text-align: center;">0.10</td><td style="text-align: center;">-</td></tr> <tr><td>April</td><td style="text-align: center;">53.7</td><td style="text-align: center;">0.73</td><td style="text-align: center;">-</td></tr> <tr><td>May</td><td style="text-align: center;">62.5</td><td style="text-align: center;">1.75</td><td style="text-align: center;">-</td></tr> <tr><td>June</td><td style="text-align: center;">75.5</td><td style="text-align: center;">3.95</td><td style="text-align: center;">-</td></tr> </tbody> </table> Seasonal Precipitation 7.68 in.		Average Temp. °F	Precip. in.	Irrigation in.	October	60.5	0.17	-	November	46.5	0.12	-	December	38.0	0.66	-	January	34.3	0.00	-	February	41.2	0.20	-	March	46.9	0.10	-	April	53.7	0.73	-	May	62.5	1.75	-	June	75.5	3.95	-
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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: 50 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
TX02A0252	Texas AgriLife	47.8 ***	61.9 *	9.9 *	21.0 *	0.0	4/29 ***
AP05TW2821	AP	43.9 *	60.8 *	8.3	21.9 *	0.0	4/27 *
TAM 105	Texas AgriLife	42.3 *	62.2 *	9.1	20.0	0.0	4/23
TAM 111	Texas AgriLife	42.2 *	62.2 *	10.6 ***	23.4 ***	0.0	4/27
Keota	WestBred	41.5 *	61.6 *	9.6 *	20.2	1.7	4/28 *
TX01A5936	Texas AgriLife	40.7 *	60.3	9.0	23.1 *	0.0	4/25
T81	Trio	40.5 *	61.9 *	9.3	19.6	0.0	4/24
Fannin	AP	39.9 *	61.5 *	8.5	19.2	1.7	4/26
RonL (white)	KSU	39.2 *	62.2 *	10.0 *	20.0	0.0	4/28 *
TX03A0563	Texas AgriLife	38.0 *	62.1 *	9.2	19.0	0.0	4/22
Bullet	OSU	37.8 *	62.4 *	8.7	21.5 *	0.0	4/26
TAM 112	Texas AgriLife	37.7 *	62.3 *	8.3	20.6 *	0.0	4/21
OK00611W	OSU	33.5 *	60.9 *	8.3	20.9 *	0.0	4/24
Art	AP	33.3 *	61.8 *	8.6	20.0	0.0	4/26
Blend (TAM 111, TAM 112, Jagalene)		33.3 *	62.0 *	8.9	21.0 *	0.0	4/23
Duster	OSU	33.1	62.4 *	9.0	19.7	0.0	4/28 *
Cutter	AP	33.0	62.0 *	8.8	21.5 *	0.0	4/26
Jagalene	AP	31.9	62.4 *	8.2	20.6 *	0.0	4/26
Fuller	KSU	31.7	61.8 *	8.9	20.5 *	0.0	4/23
Dumas	AP	31.6	62.4 ***	8.5	18.9	0.0	4/26
TAM 110	Texas AgriLife	31.1	61.0 *	7.9	17.9	0.0	4/22
Endurance	OSU	31.1	61.5 *	9.3	18.4	0.0	4/27 *
Longhorn	AP	30.4	61.9 *	9.1	21.5 *	0.0	4/26
TAM W-101	Texas AgriLife	29.0	61.2 *	9.4	18.9	0.0	4/21
Doans	AP	28.3	61.7 *	9.4 *	19.0	0.0	4/23
TX03M1096	Texas AgriLife	27.5	61.4 *	8.5	21.7 *	0.0	4/20
AP04T8211	AP	27.1	61.9 *	8.0	19.4	0.0	4/20
Jagger	KSU	27.0	62.2 *	8.4	22.6 *	0.0	4/20
Shocker	WestBred	27.0	61.1 *	8.8	20.1	0.0	4/24
Hatcher	CSU	26.9	61.7 *	8.4	15.4	0.0	4/26
TAM 304	Texas AgriLife	26.8	60.5	10.0 *	19.3	0.0	4/25
TAM 203	Texas AgriLife	26.7	60.3	7.8	17.7	0.0	4/24
Overley	KSU	26.0	61.7 *	8.9	19.3	0.0	4/24
Aspen (white)	WestBred	24.7	60.9 *	9.1	17.2	16.7	4/24
Deliver	OSU	22.9	61.3 *	8.4	20.9 *	0.0	4/29 *
Neosho	AP	22.6	60.7	8.5	16.9	0.0	4/25
TX03A0148	Texas AgriLife	22.6	57.6	8.2	19.3	0.0	4/26
Santa Fe	WestBred	22.3	62.2 *	8.5	18.0	0.0	4/22
AP06T3832	AP	20.5	60.4	8.7	20.0	0.0	4/26
AP05T2413	AP	17.7	60.7	7.9	21.7 *	0.0	4/25
Trial Mean		31.8	61.5	8.8	19.9	0.5	4/25
LSD (P> 0.05)		14.6	1.6	1.3	3.1	ns	2.0
CV		28.20	1.64	8.73	9.57	920.91	1.05
F Test		0.0059	0.0005	0.0040	0.0007	0.4996	<.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.