

New Mexico 2007 Grain Corn Performance Test - Agricultural Science Center at Clovis

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: Wheat Planting Date: 25-Apr Harvest Date: 5-Oct 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>Nitrogen</td> <td>320 lb/a</td> <td>25-Apr</td> </tr> <tr> <td>P₂O₅</td> <td>60 lb/a</td> <td>25-Apr</td> </tr> <tr> <td>S</td> <td>55 lb/a</td> <td>25-Apr</td> </tr> <tr> <td>Zn</td> <td>1 lb/a</td> <td>25-Apr</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Bicep Lite II Mag</td> <td>3 pt/a</td> <td>27-Apr</td> </tr> <tr> <td>Comite II</td> <td>1.25 pt/a</td> <td>14-Jun</td> </tr> <tr> <td>Status</td> <td>4 oz/a</td> <td>14-Jun</td> </tr> <tr> <td>Permit</td> <td>0.75 oz/a</td> <td>14-Jun</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>Oberon 4SC</td> <td>4 oz/a</td> <td>26-Jul</td> </tr> <tr> <td>Intrepid</td> <td>8 oz/a</td> <td>26-Jul</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	320 lb/a	25-Apr	P ₂ O ₅	60 lb/a	25-Apr	S	55 lb/a	25-Apr	Zn	1 lb/a	25-Apr	Herbicides:			Bicep Lite II Mag	3 pt/a	27-Apr	Comite II	1.25 pt/a	14-Jun	Status	4 oz/a	14-Jun	Permit	0.75 oz/a	14-Jun	Insecticides:			Oberon 4SC	4 oz/a	26-Jul	Intrepid	8 oz/a	26-Jul	<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>January</td><td>29.5</td><td>0.9</td><td></td></tr> <tr><td>February</td><td>40.0</td><td>0.2</td><td></td></tr> <tr><td>March</td><td>49.0</td><td>3.7</td><td></td></tr> <tr><td>April</td><td>51.0</td><td>0.2</td><td>1.0</td></tr> <tr><td>May</td><td>66.0</td><td>2.4</td><td></td></tr> <tr><td>June</td><td>70.0</td><td>3.9</td><td>3.9</td></tr> <tr><td>July</td><td>75.0</td><td>0.9</td><td>13.2</td></tr> <tr><td>August</td><td>77.0</td><td>1.2</td><td>8.8</td></tr> <tr><td>September</td><td>70.5</td><td>4.2</td><td>0.6</td></tr> <tr><td>October</td><td>60.5</td><td>0.2</td><td></td></tr> <tr><td>November</td><td>46.5</td><td>0.1</td><td></td></tr> <tr><td>December</td><td>40.0</td><td>0.7</td><td></td></tr> <tr> <td>Seasonal Precipitation:</td> <td></td> <td>18.5 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td>27.5 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td>26-Apr</td> <td></td> <td></td> </tr> <tr> <td>Date of First Fall Frost:</td> <td>22-Oct</td> <td></td> <td></td> </tr> <tr> <td>Frost Free Period:</td> <td>179 days</td> <td></td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	29.5	0.9		February	40.0	0.2		March	49.0	3.7		April	51.0	0.2	1.0	May	66.0	2.4		June	70.0	3.9	3.9	July	75.0	0.9	13.2	August	77.0	1.2	8.8	September	70.5	4.2	0.6	October	60.5	0.2		November	46.5	0.1		December	40.0	0.7		Seasonal Precipitation:		18.5 in.		Total Irrigation:		27.5 in.		Date of Last Spring Frost:	26-Apr			Date of First Fall Frost:	22-Oct			Frost Free Period:	179 days		
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Test Design: Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 32000 seed/a																																																																																																																				

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Brand/Company Name	Hybrid/Variety Name	Moisture					Ear Height in	Silk Date
		Grain Yield bu/a	at Harvest %	Test Weight lb/bu	Plant Height in	Test Weight lb/bu		
Grand Valley Hybrids	25B66	294.0	17.63	59.73	105.1	50.1	16-Jul	
Grand Valley Hybrids	X8RB63	271.5	18.93	58.48	103.8	49.5	16-Jul	
Grand Valley Hybrids	14B75	268.5	17.80	58.40	110.3	56.7	18-Jul	
UAP	CX 07125	265.7	19.20	60.50	114.5	59.7	15-Jul	
Monsanto	Asgrow RX 715 RR2/YGCB	264.0	16.18	60.03	101.1	44.1	13-Jul	
UAP	DG 58P60	262.0	17.53	58.73	107.0	54.0	15-Jul	
NC+	5451RB	261.5	16.48	59.48	112.8	52.8	13-Jul	
Monsanto	Dekalb DKC 69-71 AF2	260.8	16.80	59.88	106.1	52.9	17-Jul	
Grand Valley Hybrids	X6RH83	256.5	17.45	57.43	107.1	51.2	17-Jul	
Garst	8249 YG1/RR	255.7	18.43	58.15	117.0	52.4	15-Jul	
UAP	DG 58K02	255.7	17.95	57.10	104.1	48.8	14-Jul	
UAP	CX 07617	252.2	17.35	58.00	104.5	52.2	14-Jul	
Monsanto	Asgrow RX 752 RR/YG	252.1	16.28	59.18	102.8	39.8	14-Jul	
DOW/Mycogen	2M797 HX/LL	250.3	17.65	58.55	112.1	50.3	13-Jul	
DOW/Mycogen	2W814 HX/LL/RR	248.5	18.08	58.20	114.3	50.9	15-Jul	
UAP	DG 58K22	245.2	16.65	58.80	104.5	56.2	15-Jul	
Eureka	X5087 RR	241.7	16.68	57.78	104.5	49.4	17-Jul	
UAP	CX 06319	240.5	19.03	57.28	109.9	53.9	15-Jul	
NC+	5402 RB	239.1	16.03	60.45	100.4	51.2	13-Jul	
Eureka	7539 RR	238.5	16.53	58.40	105.1	47.7	14-Jul	
UAP	DG 58P59	235.9	17.38	57.20	104.5	48.6	16-Jul	
DOW/Mycogen	2C727 HX/LL	234.9	16.43	57.38	99.4	41.9	13-Jul	
DOW/Mycogen	2T783 HX/LL/RR	229.1	16.83	57.93	111.9	50.2	16-Jul	
Grand Valley Hybrids	X7T69	228.8	17.13	56.68	106.3	43.8	14-Jul	
DOW/Mycogen	2T801 RR/YGCB	228.6	16.43	58.50	102.8	42.6	13-Jul	
NC+	5433RB	228.4	17.15	58.15	102.2	44.0	12-Jul	
Monsanto	Dekalb DKC 66-23 (RR2/YGCB)	220.8	16.20	58.90	107.3	45.1	16-Jul	
NC+	5392B	219.6	16.30	59.38	98.4	40.0	16-Jul	
DOW/Mycogen	2T828 RR/YGCB/YGRW	207.7	17.30	58.03	99.1	46.0	15-Jul	
Monsanto	Dekalb DKC 64-78 (RR2/YGCB)	192.9	16.38	60.20	106.8	47.5	15-Jul	
	Trial Mean	245.0	17.20	58.56	106.2	49.1	15-Jul	
	LSD (P > 0.05)	42.4	1.13	0.97	7.9	5.6	2.5	
	CV	12.30	4.67	1.18	5.31	8.05	0.90	
	F Test	0.0126	<.0001	<.0001	<.0001	<.0001	0.0003	