

New Mexico 2010 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: fallow Planting Date: 28-Apr Harvest Date: 1-Nov <hr/> Production Inputs <hr/> <table 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>11 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>230 lb/a</td> <td>9-Apr</td> </tr> <tr> <td>P₂O₅</td> <td>55 lb/a</td> <td>9-Apr</td> </tr> <tr> <td>S</td> <td>39 lb/a</td> <td>9-Apr</td> </tr> <tr> <td>Zn</td> <td>1 lb/a</td> <td>9-Apr</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Bicep Lite II Mag</td> <td>3 pt/a</td> <td>28-Apr</td> </tr> <tr> <td>Dual II Mag</td> <td>1 pt/a</td> <td>14-Jun</td> </tr> <tr> <td>Status</td> <td>5 oz/a</td> <td>14-Jun</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>Onager</td> <td>10 oz/ac</td> <td>14-Jun</td> </tr> <tr> <td>Intrepid 2F</td> <td>8 oz/ac</td> <td>1-Aug</td> </tr> <tr> <td>Oberon 4 SC</td> <td>6 oz/ac</td> <td>1-Aug</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	11 lb/a	carryover	Nitrogen	230 lb/a	9-Apr	P ₂ O ₅	55 lb/a	9-Apr	S	39 lb/a	9-Apr	Zn	1 lb/a	9-Apr	Herbicides:			Bicep Lite II Mag	3 pt/a	28-Apr	Dual II Mag	1 pt/a	14-Jun	Status	5 oz/a	14-Jun	Insecticides:			Onager	10 oz/ac	14-Jun	Intrepid 2F	8 oz/ac	1-Aug	Oberon 4 SC	6 oz/ac	1-Aug	<hr/> <table 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>January</td><td style="text-align: center;">36.6</td><td></td><td></td></tr> <tr><td>February</td><td style="text-align: center;">34.9</td><td></td><td></td></tr> <tr><td>March</td><td style="text-align: center;">46.1</td><td></td><td></td></tr> <tr><td>April</td><td style="text-align: center;">56.3</td><td style="text-align: center;">1.56</td><td style="text-align: center;">0.60</td></tr> <tr><td>May</td><td style="text-align: center;">63.0</td><td style="text-align: center;">2.34</td><td style="text-align: center;">1.00</td></tr> <tr><td>June</td><td style="text-align: center;">77.8</td><td style="text-align: center;">2.98</td><td style="text-align: center;">4.25</td></tr> <tr><td>July</td><td style="text-align: center;">76.0</td><td style="text-align: center;">2.30</td><td style="text-align: center;">4.60</td></tr> <tr><td>August</td><td style="text-align: center;">77.0</td><td style="text-align: center;">6.83</td><td style="text-align: center;">1.40</td></tr> <tr><td>September</td><td style="text-align: center;">73.0</td><td style="text-align: center;">1.41</td><td style="text-align: center;">1.25</td></tr> <tr><td>October</td><td style="text-align: center;">59.5</td><td style="text-align: center;">0.87</td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <hr/> Seasonal Precipitation: 18.3 in. Total Irrigation: 13.1 in. Date of Last Spring Frost: 9-Apr Date of First Fall Frost: 28-Oct Frost Free Period: 202 days		Average Temp. °F	Precip. in.	Irrigation in.	January	36.6			February	34.9			March	46.1			April	56.3	1.56	0.60	May	63.0	2.34	1.00	June	77.8	2.98	4.25	July	76.0	2.30	4.60	August	77.0	6.83	1.40	September	73.0	1.41	1.25	October	59.5	0.87		November				December			
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Test Design: Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 27000 seed/a																																																																																																			

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Brand/Company Name	Hybrid/Variety Name	Moisture					Silk Date
		Grain Yield bu/a	at Harvest %	Test Weight lb/bu	Plant Height in	Ear Height in	
Monsanto	Dekalb DKC64-69	269.2	11.58	54.28	103.3	45.7	14-Jul
Dyna-Gro	CX 9218	251.9	11.18	53.05	103.0	44.6	17-Jul
Monsanto	Dekalb DKC66-96	251.6	11.28	53.70	104.6	39.6	16-Jul
Warner	W 4777	239.9	11.45	53.45	106.3	43.4	14-Jul
Dyna-Gro	CX 10115	235.8	11.30	53.70	100.9	39.9	14-Jul
Dyna-Gro	CX 10617	224.6	12.13	54.63	107.4	41.5	17-Jul
Warner	W 4744	224.4	10.60	51.80	101.0	46.8	18-Jul
Dyna-Gro	DG 56VP69	224.4	12.08	54.50	107.2	47.5	17-Jul
Warner	W 4774	223.2	11.65	54.70	106.2	42.0	13-Jul
Grand Valley	X6P205	221.8	10.58	52.80	104.2	38.7	15-Jul
Grand Valley	X7P206	220.9	11.23	54.40	105.2	41.1	14-Jul
Monsanto	Dekalb DKC63-14	220.8	11.33	54.30	104.4	44.0	14-Jul
Grand Valley	X6P202	217.8	11.25	52.80	104.1	37.0	18-Jul
Grand Valley	23T75	212.6	11.53	52.90	107.0	42.2	17-Jul
Trial Mean		231.3	11.37	53.64	104.6	42.4	15-Jul
LSD (P > 0.05)		24.1	0.55	0.62	NS	3.0	2.2
CV		7.29	3.36	0.81	5.89	4.93	0.78
F Test		0.0008	<.0001	<.0001	0.9310	<.0001	<.0001