

New Mexico 2008 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: 24-Apr Harvest Date: 9-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>270 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>P₂O₅</td> <td>60 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>S</td> <td>45.6 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>Zn</td> <td>4 qt/a</td> <td>28-Feb</td> </tr> <tr> <td>B</td> <td>2 lb/a</td> <td>28-Feb</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Bicep Lite II Mag</td> <td>3 pt/a</td> <td>26-Apr</td> </tr> <tr> <td>Dual II Mag</td> <td>0.5 pt/a</td> <td>18-Jun</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>Onager</td> <td>8 oz/a</td> <td>18-Jun</td> </tr> <tr> <td>Intrepid 2F</td> <td>8 oz/a</td> <td>9-Aug</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	270 lb/a	28-Feb	P ₂ O ₅	60 lb/a	28-Feb	S	45.6 lb/a	28-Feb	Zn	4 qt/a	28-Feb	B	2 lb/a	28-Feb	Herbicides:			Bicep Lite II Mag	3 pt/a	26-Apr	Dual II Mag	0.5 pt/a	18-Jun	Insecticides:			Onager	8 oz/a	18-Jun	Intrepid 2F	8 oz/a	9-Aug	<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>34.3</td><td></td><td></td></tr> <tr><td>February</td><td>41.2</td><td>0.2</td><td></td></tr> <tr><td>March</td><td>46.9</td><td>0.1</td><td>1.0</td></tr> <tr><td>April</td><td>53.7</td><td>0.7</td><td>1.8</td></tr> <tr><td>May</td><td>62.5</td><td>1.8</td><td>1.3</td></tr> <tr><td>June</td><td>75.5</td><td>4.0</td><td>6.6</td></tr> <tr><td>July</td><td>73.0</td><td>4.7</td><td>4.2</td></tr> <tr><td>August</td><td>73.0</td><td>3.6</td><td>6.1</td></tr> <tr><td>September</td><td>65.5</td><td>1.0</td><td>0.8</td></tr> <tr><td>October</td><td>56.5</td><td>4.5</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> <tr> <td>Seasonal Precipitation:</td> <td></td> <td>20.6 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td>21.7 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td></td> <td>11-May</td> <td></td> </tr> <tr> <td>Date of First Fall Frost:</td> <td></td> <td>23-Oct</td> <td></td> </tr> <tr> <td>Frost Free Period:</td> <td></td> <td>164 days</td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	34.3			February	41.2	0.2		March	46.9	0.1	1.0	April	53.7	0.7	1.8	May	62.5	1.8	1.3	June	75.5	4.0	6.6	July	73.0	4.7	4.2	August	73.0	3.6	6.1	September	65.5	1.0	0.8	October	56.5	4.5		November				December				Seasonal Precipitation:		20.6 in.		Total Irrigation:		21.7 in.		Date of Last Spring Frost:		11-May		Date of First Fall Frost:		23-Oct		Frost Free Period:		164 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		Test Weight	Plant Height	Ear Height	Silk Date
		Grain Yield	at Harvest				
		bu/a	%	lb/bu	in	in	
Integra	IX07640BC	226.9	17.40	55.98	95.5	39.9	7/13
Eureka Seeds	ES-7654RR	221.2	19.23	55.63	99.9	39.4	7/19
Integra	9673VT3	212.4	18.43	55.03	102.4	41.8	7/17
Dyna-Gro/UAP	DG 58 P27	211.5	19.25	55.00	98.4	43.3	7/17
Mycogen Seeds	2T789 HX1/LL/RR2	210.8	18.10	55.45	100.9	43.3	7/18
Mycogen Seeds	2W814 HX1/LL/RR2	208.2	17.28	57.13	101.9	42.3	7/15
Dyna-Gro/UAP	DG 58 P59	207.2	17.13	54.33	98.4	41.3	7/17
Integra	9674RB	205.9	18.13	53.83	106.8	40.9	7/17
Grand Valley Hybrids	X6V113	205.9	18.28	55.08	91.0	31.5	7/14
Monsanto Company	Dekalb DKC67-87 (RR2/YGCB)	201.4	18.18	56.78	104.3	45.8	7/15
Mycogen Seeds	2T804 HX1/LL/RR2	199.9	16.83	56.08	99.9	40.9	7/14
Dairyland Seed Co., Ir	Dairyland ST-9116	199.4	17.18	57.10	96.5	45.3	7/13
Grand Valley Hybrids	X6RH83	197.2	17.58	55.40	100.9	43.3	7/18
Integra	IX07651VT3	196.9	17.78	55.33	90.1	33.5	7/16
Eureka Seeds	ST-7679RR	191.0	17.83	54.90	99.4	38.9	7/16
Monsanto Company	Dekalb DKC61-69 (VT3)	190.7	15.55	54.83	90.1	37.4	7/12
Grand Valley Hybrids	X7V112	190.3	18.08	55.70	92.5	33.5	7/17
Mycogen Seeds	2T826 HX1/LL/RR2	189.0	18.98	55.00	99.9	39.9	7/18
Mycogen Seeds	2M797 HX1/LL	188.4	17.03	55.63	102.9	44.3	7/15
Eureka Seeds	ESX-7133	184.2	17.23	55.33	102.4	42.8	7/12
Grand Valley Hybrids	X7RH111	184.1	18.00	54.23	103.8	49.2	7/14
Monsanto Company	Dekalb DKC64-79 (VT3)	181.8	15.45	56.63	91.5	34.0	7/15
Monsanto Company	Dekalb DKC66-23 (RR2/YGCB)	181.6	17.08	56.60	96.0	36.4	7/14
Eureka Seeds	ES-7548VT3	178.9	17.35	54.85	96.0	37.4	7/14
Dairyland Seed Co., Ir	Dairyland ST-9114	157.0	15.53	56.63	95.5	39.4	7/16
	Trial Mean	196.9	17.55	55.54	98.3	40.2	15-Jul
	LSD (P > 0.05)	31.7	0.91	0.95	4.5	3.2	3.0
	CV	11.42	3.70	1.21	3.27	5.72	1.09
	F Test	0.0274	<.0001	<.0001	<.0001	<.0001	<.0001