

New Mexico 2017 Grain Corn Performance Test - Agricultural Science Center at Clovis

Investigators: A. Mesbah, A. Scott, and B. Niece

Test Description

Location:	Management Practices:	Growing Conditions:																																																																								
County/Area: Curry	Previous Crop: fallow	<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>36.5</td><td></td><td></td></tr> <tr><td>February</td><td>45.8</td><td></td><td></td></tr> <tr><td>March</td><td>51.7</td><td></td><td></td></tr> <tr><td>April</td><td>55.5</td><td></td><td></td></tr> <tr><td>May 1-18</td><td>61.4</td><td>1.24</td><td>0.05</td></tr> <tr><td>June</td><td>74.1</td><td>1.02</td><td>1.80</td></tr> <tr><td>July</td><td>77.0</td><td>2.18</td><td>6.50</td></tr> <tr><td>August</td><td>71.0</td><td>7.87</td><td>0.21</td></tr> <tr><td>September</td><td>67.0</td><td>4.13</td><td>0.80</td></tr> <tr><td>October</td><td>56.5</td><td>2.04</td><td>0.00</td></tr> <tr><td>November</td><td>50.0</td><td></td><td></td></tr> <tr><td>December</td><td>38.0</td><td></td><td></td></tr> <tr><td colspan="2">Seasonal Precipitation:</td><td>18.5 in.</td><td></td></tr> <tr><td colspan="2">Total Irrigation:</td><td>9.4 in.</td><td></td></tr> <tr><td colspan="2">Date of Last Spring Frost:</td><td>1-May</td><td></td></tr> <tr><td colspan="2">Date of First Fall Frost:</td><td>10-Oct</td><td></td></tr> <tr><td colspan="2">Frost Free Period:</td><td>162 days</td><td></td></tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	36.5			February	45.8			March	51.7			April	55.5			May 1-18	61.4	1.24	0.05	June	74.1	1.02	1.80	July	77.0	2.18	6.50	August	71.0	7.87	0.21	September	67.0	4.13	0.80	October	56.5	2.04	0.00	November	50.0			December	38.0			Seasonal Precipitation:		18.5 in.		Total Irrigation:		9.4 in.		Date of Last Spring Frost:		1-May		Date of First Fall Frost:		10-Oct		Frost Free Period:		162 days	
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Longitude: -103.22	Planting Date: 18-May																																																																									
Latitude: 34.60	Harvest Date: 30-Oct																																																																									
Elevation: 4435 ft.	Production Inputs																																																																									
Soil Name: Olton	<u>Rate</u> <u>Date</u>																																																																									
Soil Texture: clay loam	Fertilizer:																																																																									
Soil Depth: >60 in.	Nitrogen 36 lb/a carryover																																																																									
	Nitrogen 15 lb/a 18-Apr																																																																									
	P ₂ O ₅ 50 lb/a 18-Apr																																																																									
	Zn 3 qt/ac 18-Apr																																																																									
	Nitrogen 152 lb/ac at plant																																																																									
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	Herbicides:																																																																									
	Atrazine 1 pt/a at plant																																																																									
	Balance Flex 2 oz/ac at plant																																																																									
	Diflex 8 oz/ac at plant																																																																									
	Charger Basic 1 pt/ac at plant																																																																									
	Glyphosate 40 oz/ac at plant																																																																									
	Diflex 10 oz/ac 20-Jun																																																																									
	Brawl 1 pt/ac 20-Jun																																																																									
	Insecticides:																																																																									
	Onager 14 oz/ac 20-Jun																																																																									
	Belt SC 3 oz/ac 3-Aug																																																																									
	Oberon 8 oz/ac 3-Aug																																																																									
Test Design:																																																																										
Replications: 3																																																																										
Plot Length: 20 ft.																																																																										
Rows per Plot: 2																																																																										
Row Spacing: 30 in.																																																																										
Seeding Rate: 27,000 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	
Syngenta	G15Q98-3000 GT	289.3	16.00	60.63	120.1	53.2	25-Jul
Dyna-Gro	D55 VP 77 RIB	274.8	15.97	61.76	105.4	53.4	21-Jul
Pioneer	1197	274.4	15.83	60.93	114.6	52.1	26-Jul
Syngenta	G11B63	272.2	16.00	60.56	106.8	47.2	24-Jul
Pioneer	1151	265.6	15.96	62.83	121.0	46.4	24-Jul
Dyna-Gro	D58 VC 37 RIB	262.5	15.97	62.06	120.1	49.6	22-Jul
Dyna-Gro	D57 VP 51 RIB	260.0	15.83	62.90	120.7	46.7	19-Jul
Syngenta	N76A-3000 GT	251.0	15.87	58.83	107.5	44.0	25-Jul
Pioneer	1602	246.4	15.97	62.76	121.4	51.2	23-Jul
Pioneer	1625	244.8	16.13	62.40	116.1	47.6	22-Jul
Dyna-Gro	D 54 VC 52 RIB	243.4	15.83	62.90	115.4	52.4	19-Jul
Dyna-Gro	D52 SS 91	243.1	15.93	61.53	104.5	55.9	22-Jul
Dyna-Gro	D57 VP 75 VT3P	242.8	16.00	60.93	115.2	53.5	22-Jul
Syngenta	G18 D87-3111	241.1	16.06	62.26	113.0	52.2	22-Jul
Syngenta	N73Y-3111	238.6	15.93	58.40	112.3	49.2	24-Jul
Dyna-Gro	D58 QC 72 RIB	227.6	16.23	62.50	119.2	42.3	25-Jul
	Trial Mean	254.8	15.9	61.4	114.6	49.8	23-Jul
	LSD (P > 0.05)	34.8	0.34	0.58	2.8	2.3	3.5
	CV	8.18	1.26	0.57	1.44	2.72	1.00
	F Test	0.0500	<.0001	<.0001	<.0001	<.0001	0.0056