

Table A. New Mexico 2007 Forage Corn Performance Test - Agricultural Science Center at Clovis

Investigators: M.A. Marsalis, R.E. Kirksey, B. Niece, and A. Scott

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: 27-Apr Harvest Date: 5-Sep 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 style="text-align: center;">10 lb/a</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">320 lb/a</td> <td style="text-align: center;">25-Apr</td> </tr> <tr> <td>P₂O₅</td> <td style="text-align: center;">60 lb/a</td> <td style="text-align: center;">25-Apr</td> </tr> <tr> <td>S</td> <td style="text-align: center;">55 lb/a</td> <td style="text-align: center;">25-Apr</td> </tr> <tr> <td>Zn</td> <td style="text-align: center;">1 lb/a</td> <td style="text-align: center;">25-Apr</td> </tr> </tbody> </table> Herbicides: Bicep Lite II Mag 3 pt/a 27-Apr Insecticides: Oberon 4 oz/a 26-Jul Intrepid 8 oz/a 26-Jul		Rate	Date	Fertilizer:			Nitrogen	10 lb/a	carryover	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	<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></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td style="text-align: center;">49.0</td><td style="text-align: center;">3.70</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">51.0</td><td style="text-align: center;">0.18</td><td style="text-align: center;">1.00</td></tr> <tr><td>May</td><td style="text-align: center;">66.0</td><td style="text-align: center;">2.38</td><td style="text-align: center;">0.00</td></tr> <tr><td>June</td><td style="text-align: center;">70.0</td><td style="text-align: center;">3.93</td><td style="text-align: center;">3.90</td></tr> <tr><td>July</td><td style="text-align: center;">75.0</td><td style="text-align: center;">0.94</td><td style="text-align: center;">8.65</td></tr> <tr><td>August</td><td style="text-align: center;">77.0</td><td style="text-align: center;">1.15</td><td style="text-align: center;">8.80</td></tr> <tr><td>September</td><td style="text-align: center;">71.0</td><td style="text-align: center;">4.24</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">61.0</td><td style="text-align: center;">0.17</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 colspan="2" style="text-align: right;">Seasonal Precipitation</td> <td colspan="2" style="text-align: center;">8.6 in.</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Irrigation</td> <td colspan="2" style="text-align: center;">22.4 in.</td> </tr> <tr> <td colspan="2" style="text-align: right;">Date of Last Spring Frost:</td> <td colspan="2" style="text-align: center;">26-Apr</td> </tr> <tr> <td colspan="2" style="text-align: right;">Date of First Fall Frost:</td> <td colspan="2" style="text-align: center;">22-Oct</td> </tr> <tr> <td colspan="2" style="text-align: right;">Frost Free Period:</td> <td colspan="2" style="text-align: center;">179 days</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March	49.0	3.70		April	51.0	0.18	1.00	May	66.0	2.38	0.00	June	70.0	3.93	3.90	July	75.0	0.94	8.65	August	77.0	1.15	8.80	September	71.0	4.24		October	61.0	0.17		November				December				Seasonal Precipitation		8.6 in.		Total Irrigation		22.4 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: <p style="text-align: center;">32000 lb/a</p>																																																																																															

Table B. New Mexico 2007 Forage Corn Performance Test - Agricultural Science Center at Clovis

Results												
Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDFD			Ash	NE _i	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest		NDF	48hr	Starch				
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a
UAP/Dyna-Gro Seed	CXO 7617	14.0	33.9	58.6	8.3	44.9	65.1	28.4	3.7	0.64	2937	41282
Triumph Seed Co., Inc.	1802 CBRR	13.7	33.9	59.6	8.7	46.9	65.0	26.1	4.4	0.63	2864	39212
Monsanto	Dekalb DKC 69-71 (RR2/YGCB)	13.7	33.4	58.9	8.4	48.1	62.8	24.6	4.7	0.62	2771	38054
Mycogen Seeds	2A120 CL	13.5	36.6	62.9	9.5	48.0	64.8	21.1	4.6	0.62	2837	38291
Eureka Seeds	7650 RR	13.3	35.9	62.5	8.6	47.1	66.0	26.0	4.2	0.63	2889	38366
Mycogen Seeds	TMF 2N804	13.3	34.2	61.1	8.1	49.0	64.7	24.5	4.5	0.62	2792	37118
Grand Valley Hybrids	25B66	13.2	33.7	60.8	8.2	49.2	65.1	24.4	4.1	0.62	2829	37470
NC+ Hybrids, Inc.	NC+ 7373RB	13.1	36.3	63.8	8.9	48.6	65.9	22.5	4.4	0.63	2880	37851
UAP/Dyna-Gro Seed	DG 58P59	13.0	33.2	60.9	8.7	45.0	64.8	27.0	4.6	0.63	2862	37104
NC+ Hybrids, Inc.	NC+ 7250R	13.0	34.6	62.3	9.0	46.3	63.8	25.2	4.2	0.63	2872	37068
Mycogen Seeds	TMF 2L844	12.9	37.0	65.1	7.9	49.5	61.7	24.0	4.7	0.61	2695	34748
Grand Valley Hybrids	26B57	12.9	35.1	63.3	8.6	48.7	64.3	24.0	4.4	0.62	2829	36331
Triumph Seed Co., Inc.	1977 CBRR	12.9	34.9	62.7	9.3	49.1	61.6	20.2	5.5	0.61	2711	34957
UAP/Dyna-Gro Seed	DG 58P60	12.8	33.1	61.2	8.4	44.1	66.3	29.6	3.8	0.64	2974	38130
NC+ Hybrids, Inc.	NC+ 6361RB	12.8	33.7	62.0	8.7	44.1	64.7	28.8	4.3	0.63	2895	37043
Mycogen Seeds	F2F 797	12.7	33.4	62.2	8.9	45.2	67.1	25.8	4.3	0.64	2964	37489
Grand Valley Hybrids	14B75	12.7	32.1	60.4	8.5	46.9	65.0	25.6	4.2	0.63	2888	36810
Garst Seeds, Inc.	8295 YG1/RR	12.6	35.0	63.7	8.9	44.6	65.3	26.5	4.5	0.63	2875	36179
UAP/Dyna-Gro Seed	DG 58K40	12.6	35.1	63.9	8.6	49.2	62.7	23.4	4.6	0.61	2748	34631
UAP/Dyna-Gro Seed	DG 58K02	12.4	36.8	66.1	8.2	48.4	63.1	25.4	4.5	0.62	2765	34234
UAP/Dyna-Gro Seed	CXO 7125	12.3	35.0	64.8	9.0	48.1	64.9	22.5	4.5	0.63	2890	35577
Eureka Seeds	7634 RR	12.2	32.0	61.9	8.5	46.7	64.1	25.6	4.2	0.63	2886	35171
UAP/Dyna-Gro Seed	DG 58K22	12.2	32.1	61.9	8.3	47.6	64.8	26.3	4.1	0.63	2850	34844
NC+ Hybrids, Inc.	NC+ 6125RBD	12.0	30.4	60.5	8.5	45.2	63.7	27.3	4.1	0.63	2884	34648
Garst Seeds, Inc.	8249 YG1/RR	11.6	29.8	61.3	8.8	45.9	65.4	26.0	4.3	0.63	2888	33477
UAP/Dyna-Gro Seed	CXO 6319	11.5	31.4	63.4	8.8	46.5	67.1	24.8	4.5	0.64	2926	33727
Mycogen Seeds	F2F 721	11.4	29.7	61.8	8.7	46.9	68.5	24.4	4.2	0.65	2993	33966
NC+ Hybrids, Inc.	NC+ 5392B	10.3	25.5	59.0	8.5	47.1	65.2	24.9	4.6	0.63	2844	29381
Trial Mean		12.7	33.5	62.0	8.6	47.0	64.8	25.2	4.40	0.63	2858	36184
LSD		ns	ns	ns	0.6	3.4	2.9	4.4	ns	0.02	136	ns
LSD P >		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CV		13.4	13.4	4.9	5.3	5.1	3.1	12.5	14.3	2.2	3.4	13.6
F Test		0.6166	0.2101	0.0714	0.0020	0.0124	0.0022	0.0198	0.4417	0.0043	0.0023	0.6640