

Table 5A. New Mexico 2014 Forage Corn Performance Test - Agricultural Science Center at Clovis

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

Test Description

<p>Location:</p> <p>County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.</p> <p>Test Design:</p> <p>Replications: 3 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 27000 seed/a</p> <p>Notes: 1st planting hailed out.</p>	<p>Management Practices:</p> <p>Previous Crop: fallow Planting Date: 19-Jun Harvest Date: 9-Oct</p> <p>Production Inputs</p> <table border="1" style="width: 100%;"> <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 style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">220 lb/a</td> <td style="text-align: center;">17-Jun</td> </tr> <tr> <td style="padding-left: 20px;">P₂O₅</td> <td style="text-align: center;">40 lb/a</td> <td style="text-align: center;">17-Jun</td> </tr> <tr> <td style="padding-left: 20px;">S</td> <td style="text-align: center;">38 lb/a</td> <td style="text-align: center;">17-Jun</td> </tr> <tr> <td style="padding-left: 20px;">Zn</td> <td style="text-align: center;">3 qt/a</td> <td style="text-align: center;">17-Jun</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td style="padding-left: 20px;">Bicep Lite II Mag</td> <td style="text-align: center;">3 pt/a</td> <td style="text-align: center;">20-Jun</td> </tr> <tr> <td style="padding-left: 20px;">Round Up Power Max</td> <td style="text-align: center;">32 oz/ac</td> <td style="text-align: center;">22-Jul</td> </tr> <tr> <td style="padding-left: 20px;">Brawl</td> <td style="text-align: center;">1 pt/ac</td> <td style="text-align: center;">22-Jul</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td style="padding-left: 20px;">Onager</td> <td style="text-align: center;">16 oz/ac</td> <td style="text-align: center;">21-Jul</td> </tr> <tr> <td style="padding-left: 20px;">Prevethon</td> <td style="text-align: center;">20 oz/ac</td> <td style="text-align: center;">11-Aug</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	220 lb/a	17-Jun	P ₂ O ₅	40 lb/a	17-Jun	S	38 lb/a	17-Jun	Zn	3 qt/a	17-Jun	Herbicides:			Bicep Lite II Mag	3 pt/a	20-Jun	Round Up Power Max	32 oz/ac	22-Jul	Brawl	1 pt/ac	22-Jul	Insecticides:			Onager	16 oz/ac	21-Jul	Prevethon	20 oz/ac	11-Aug	<p>Growing Conditions:</p> <table border="1" 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;">35.0</td><td></td><td></td></tr> <tr><td>February</td><td style="text-align: center;">38.4</td><td></td><td></td></tr> <tr><td>March</td><td style="text-align: center;">45.1</td><td></td><td></td></tr> <tr><td>April</td><td style="text-align: center;">53.6</td><td></td><td></td></tr> <tr><td>May</td><td style="text-align: center;">62.9</td><td></td><td></td></tr> <tr><td>June</td><td style="text-align: center;">73.2</td><td style="text-align: center;">3.1</td><td style="text-align: center;">1.4</td></tr> <tr><td>July</td><td style="text-align: center;">75.0</td><td style="text-align: center;">2.2</td><td style="text-align: center;">6.3</td></tr> <tr><td>August</td><td style="text-align: center;">75.0</td><td style="text-align: center;">0.6</td><td style="text-align: center;">7.2</td></tr> <tr><td>September</td><td style="text-align: center;">67.0</td><td style="text-align: center;">2.7</td><td style="text-align: center;">2.8</td></tr> <tr><td>October*</td><td style="text-align: center;">60.0</td><td style="text-align: center;">0.0</td><td style="text-align: center;">0.7</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="4">*October 1-9</td></tr> <tr><td colspan="2">Seasonal Precipitation:</td><td style="text-align: center;">8.6</td><td></td></tr> <tr><td colspan="2">Total Irrigation:</td><td style="text-align: center;">18.4</td><td></td></tr> <tr><td colspan="2">Date of Last Spring Frost:</td><td colspan="2" style="text-align: center;">14-May</td></tr> <tr><td colspan="2">Date of First Fall Frost:</td><td colspan="2" style="text-align: center;">11-Nov</td></tr> <tr><td colspan="2">Frost Free Period:</td><td colspan="2" style="text-align: center;">181 days</td></tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	35.0			February	38.4			March	45.1			April	53.6			May	62.9			June	73.2	3.1	1.4	July	75.0	2.2	6.3	August	75.0	0.6	7.2	September	67.0	2.7	2.8	October*	60.0	0.0	0.7	November				December				*October 1-9				Seasonal Precipitation:		8.6		Total Irrigation:		18.4		Date of Last Spring Frost:		14-May		Date of First Fall Frost:		11-Nov		Frost Free Period:		181 days	
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Table 5B. New Mexico 2014 Forage Corn Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDF	NDFD		Ash	TDN	NE _i	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest			48hr	Starch					
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
B-H Genetics	BH 8830 VTTP	9.8	26.8	63.4	8.4	40.5	58.7	32.1	2.8	66.9	0.689	3219	31600
B-H Genetics	BH 8732 VTTP	9.3	29.3	68.2	8.7	45.6	58.6	24.5	3.4	64.4	0.662	3045	28290
Winfield/Croplan	8750 RH	9.1	29.3	68.8	8.9	44.9	60.4	24.9	3.7	65.2	0.670	3113	28403
B-H Genetics	BH 8660 VTTP	9.1	26.7	65.9	8.5	39.8	58.6	34.3	2.8	66.6	0.685	3198	29084
B-H Genetics	BH 8735 VT2P	9.0	29.0	68.9	8.6	43.7	59.7	29.5	3.0	66.1	0.680	3172	28754
CPS Dyna-Gro	D 59 HR50	9.0	28.2	67.9	8.5	42.2	59.7	30.8	3.0	66.9	0.690	3233	29149
Mycogen Seeds	TMF 2H747	8.9	29.1	69.5	8.6	44.2	58.2	26.9	3.7	64.6	0.663	3053	26990
Winfield/Croplan	7927 VT3P	8.9	28.3	68.7	9.1	45.8	58.8	22.6	4.1	63.4	0.650	2975	26294
B-H Genetics	X 14042 HXRR	8.7	29.9	70.7	8.7	47.2	59.3	21.5	3.8	63.4	0.650	2974	26069
B-H Genetics	BH 7810 VT2P	8.7	24.0	63.7	8.0	39.6	62.1	33.7	2.8	68.8	0.710	3390	29656
Golden Acres Genetics	G 8551	8.7	28.2	69.1	8.5	50.0	59.3	21.3	4.1	64.0	0.657	3022	26330
Monsanto/Dekalb	DKC 67-88	8.7	27.4	68.3	9.0	44.6	58.5	27.5	3.3	65.7	0.675	3130	27117
B-H Genetics	BH 8700 SS	8.7	25.8	66.5	8.6	39.9	59.6	33.0	2.8	67.7	0.698	3289	28451
Golden Acres Genetics	G 7663	8.6	26.7	67.7	8.8	42.9	60.1	27.9	3.6	66.0	0.679	3169	27274
Monsanto/Dekalb	DKC 70-01	8.5	28.2	69.9	9.0	44.6	55.8	26.4	3.3	63.7	0.653	2966	25093
Mycogen Seeds	TMF 2L825	8.4	27.5	69.3	8.6	47.7	57.9	21.3	4.0	62.5	0.640	2899	24406
CPS Dyna-Gro	D 55 VP77	8.4	25.9	67.4	9.1	42.7	58.7	26.9	3.9	65.3	0.671	3106	26190
B-H Genetics	BH 8630 VTTP	8.4	24.2	65.5	8.2	44.7	58.0	28.0	3.1	64.4	0.661	3036	25333
B-H Genetics	BH 8977 RR/HX	8.2	26.5	68.9	8.0	45.2	60.7	28.8	2.9	66.5	0.685	3212	26449
Monsanto/Dekalb	DKC 68-92	8.2	26.0	68.3	8.5	43.8	59.3	28.3	3.0	65.8	0.677	3148	25915
CPS Dyna-Gro	D 57 VP75	8.2	26.0	68.5	8.9	44.5	58.7	24.9	3.5	64.4	0.661	3042	24920
B-H Genetics	BH 8900 VIP 3111	8.1	24.4	66.9	8.9	41.2	60.2	28.9	3.3	65.9	0.678	3165	25556
Monsanto/Dekalb	DKC 66-40	8.0	25.5	68.3	8.9	44.4	57.6	24.4	3.8	63.6	0.652	2976	23973
CPS Dyna-Gro	D 58 QC72	8.0	26.9	70.1	9.4	44.9	59.2	25.6	3.4	65.5	0.674	3129	25088
Golden Acres Genetics	G 7601	8.0	25.6	68.8	9.3	44.9	60.4	23.3	4.1	64.6	0.663	3069	24466
Masters Choice	MCT 6894	8.0	23.3	65.8	8.4	42.5	59.8	30.1	3.0	66.3	0.682	3189	25398
Winfield/Croplan	8512 VT2P	7.8	24.0	67.6	9.4	41.1	59.7	28.2	4.2	65.8	0.676	3149	24551
Mycogen Seeds	TMF 2L874	7.8	29.3	73.4	9.7	48.2	59.1	19.2	4.2	62.6	0.641	2916	22750
B-H Genetics	BH 8783 VIP 3111	7.8	24.2	67.9	9.1	42.3	59.9	28.4	3.8	66.1	0.680	3173	24641
Mycogen Seeds	TMF 2H919	7.5	23.2	67.5	9.0	46.0	59.4	25.0	3.4	65.7	0.675	3139	23567
Mycogen Seeds	F2F 817	7.4	26.3	71.8	9.6	45.1	63.1	24.2	3.3	66.9	0.689	3257	24150
Masters Choice	MCT 6583	7.4	21.5	65.6	8.5	40.9	59.6	30.3	3.1	66.8	0.688	3222	23945
Masters Choice	MCT 6753	7.4	23.2	68.3	8.9	42.2	58.9	29.7	3.0	66.5	0.685	3193	23558
	Trial Mean	7.7	26.4	68.1	8.8	43.9	59.3	27.0	3.4	65.4	0.672	3120	26164
	LSD	1.0	3.0	3.4	0.8	3.8	1.8	6.7	NS	2.7	0.030	205	4064
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	8.4	6.9	3.1	5.6	5.3	1.8	15.1	20.9	2.5	2.7	4.0	9.5
	F Test	0.0007	<0.0001	0.0002	0.0049	<0.0001	<0.0001	0.0009	0.2129	0.0019	0.0018	0.0015	0.0059