

New Mexico 2016 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Sorghum Type	Maturity Group	Moisture			CP	NDF	NDFD 48hr	Ash	TDN	NE _i	Milk/Ton	Milk/Acre
				Dry Forage t/a	Green Forage t/a	at Harvest %								
Chromatin	SP 1880	FS	L	9.7	26.7	63.9	7.3	52.4	59.6	4.9	56.2	0.570	2464	23742
Chromatin	SS 304	FS	L	8.3	25.8	67.7	7.0	50.0	63.5	6.0	59.4	0.606	2726	22724
Browning Seed, Inc.	Silage Master	FS	ML	7.9	23.3	65.9	7.0	49.9	60.3	6.1	59.3	0.604	2690	21315
Ceres, Inc.*	EJ7281	FS	L	7.6	25.4	70.1	6.8	48.5	63.5	5.4	54.6	0.552	2380	18062
Chromatin	SS 405	FS	L	7.6	20.6	63.4	6.2	56.6	60.0	4.4	60.3	0.616	2762	20937
University of Nebraska	Sugar Pins	FS	M	7.5	25.2	70.0	6.3	48.0	62.9	5.7	52.3	0.526	2208	16562
Gayland Ward Seed* ³	Super Sugar DM	SxS	L	7.4	24.6	70.0	6.8	54.4	66.8	5.3	57.6	0.586	2622	19266
Chromatin	SP 1615	FS	PS	7.3	25.3	71.2	7.1	59.2	62.5	6.6	54.1	0.546	2337	17030
Gayland Ward Seed* ³	Super Sugar DM	SxS	L	7.2	21.6	66.8	6.7	51.8	58.2	6.2	53.4	0.538	2246	16185
Chromatin	Sordan Headless	SxS	PS	7.1	24.7	71.3	8.3	54.8	59.2	7.2	51.3	0.515	2107	15088
University of Nebraska	Hybrid Pearl Millet	FS	M	7.0	24.8	71.0	8.3	56.9	66.7	7.1	60.3	0.615	2813	19614
CPS Dyna-Gro Seed	F73FS10	FS	M	6.3	14.6	56.6	7.8	47.8	59.9	6.1	58.1	0.591	2603	16541
University of Nebraska	Sweet N	FS	M	6.3	20.1	68.5	6.6	45.6	60.7	5.5	53.3	0.537	2262	14636
CPS Dyna-Gro Seed	705F	FS	ME	5.6	13.2	57.4	7.1	55.5	63.7	7.2	60.2	0.614	2783	15687
Gayland Ward Seed* ³	EXP 10217	FS	M	5.6	18.5	69.8	7.9	55.7	63.9	7.1	58.1	0.590	2631	14723
Chromatin	CHR12FS0012	FS	M	5.4	13.8	61.2	8.3	46.5	61.3	6.0	60.3	0.616	2774	14844
Chromatin	Red Top + BMR	FS	M	4.9	14.3	66.2	7.6	45.6	66.1	6.8	59.2	0.603	2732	13371
Ceres, Inc.*	F4C207	FS	M	4.9	17.6	72.4	7.6	46.4	62.6	5.4	56.4	0.572	2498	12163
Gayland Ward Seed* ²	Silo Pro BMR	FS	ML	4.7	15.0	68.5	8.4	52.2	65.7	7.9	57.8	0.587	2627	12413
Chromatin	NK 300	FS	ME	4.7	11.1	57.7	7.4	51.0	61.4	7.1	60.0	0.611	2747	12925
Chromatin	SP 3903 BD	FS	ML	4.7	14.4	67.7	8.6	54.4	64.3	8.8	58.4	0.595	2662	12383
Gayland Ward Seed* ³	EXP 10216	FS	E	4.7	12.0	61.1	8.1	46.4	63.0	6.6	56.6	0.574	2520	11721
Chromatin	SP 2774	FS	M	4.6	12.7	63.5	7.7	50.7	67.4	6.0	63.0	0.645	3012	13920
Blue River Hybrids	Nighthawk	FS	E	4.5	11.3	59.9	7.2	52.5	65.9	7.2	59.4	0.605	2743	12373
Blue River Hybrids	Blackhawk	SxS	ML	4.5	12.7	64.9	7.4	54.7	64.7	5.9	59.5	0.607	2745	12381
Chromatin	SP 3902 BD	FS	L	4.5	13.9	67.6	7.9	52.2	67.0	8.0	57.1	0.580	2586	11792
Chromatin	SP 2876	FS	M	4.4	12.1	63.5	7.8	50.9	64.6	6.6	61.0	0.623	2847	12545
Chromatin	SP 4105	SS	PS	4.4	18.4	76.2	8.9	54.7	64.3	8.0	53.9	0.544	2338	10219
Chromatin	Hikane II	FS	M	4.3	12.5	65.2	7.5	46.0	60.0	5.6	58.5	0.595	2631	11386
Gayland Ward Seed* ¹	GW 600 BMR	FS	M	4.2	11.8	64.2	8.0	49.8	67.1	6.7	61.9	0.633	2929	12414
Gayland Ward Seed* ³	GW 400 BMR	FS	ME	3.7	11.4	67.5	8.0	48.0	63.7	6.9	57.1	0.580	2562	9548
University of Nebraska	Atlas BMR	FS	M	3.7	11.6	67.8	7.0	48.5	71.0	6.2	58.3	0.593	2702	10063
Chromatin	CHR14FB0240	FS	M	3.4	9.6	65.3	7.6	54.6	67.8	8.1	60.0	0.612	2800	9342
	Trial Mean			5.7	17.3	66.2	7.5	51.3	63.6	6.5	57.8	0.587	2609	14777
	LSD			1.2	3.1	4.5	1.13	6.5	3.32	1.54	3.26	0.036	242	3571
	LSD P >			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.050	0	0.05
	CV			13.3	11.0	4.2	9.3	7.7	3.2	14.6	3.5	3.780	6	14.8
	F Test			<.0001	<.0001	<.0001	0.0003	0.0004	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001

* planted 50,000/ac

*¹planted 65,000/ac

*²planted 70,000/ac

*³planted 85,000/ac

New Mexico 2016 Irrigated Forage Sorghum 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 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: 7-Jun Harvest Date: 19-Oct Production Inputs <table border="1" 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>8 lb/ac</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>150 lb/ac</td> <td>31-May</td> </tr> <tr> <td>P₂O₅</td> <td>35 lb/ac</td> <td>31-May</td> </tr> <tr> <td>S</td> <td>25.3 lb/ac</td> <td>31-May</td> </tr> <tr> <td>Zn</td> <td>1 qt/ac</td> <td>31-May</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Atrazine</td> <td>2 pt/a</td> <td>9-Jun</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>Sivanto</td> <td>7 oz/ac</td> <td>20-Sep</td> </tr> <tr> <td>Belt</td> <td>4 oz/ac</td> <td>29-Sep</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	8 lb/ac	carryover	Nitrogen	150 lb/ac	31-May	P ₂ O ₅	35 lb/ac	31-May	S	25.3 lb/ac	31-May	Zn	1 qt/ac	31-May	Herbicides:			Atrazine	2 pt/a	9-Jun	Insecticides:			Sivanto	7 oz/ac	20-Sep	Belt	4 oz/ac	29-Sep	<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>35.8</td><td></td><td></td></tr> <tr><td>February</td><td>42.8</td><td></td><td></td></tr> <tr><td>March</td><td>49.3</td><td></td><td></td></tr> <tr><td>April</td><td>53.6</td><td></td><td></td></tr> <tr><td>May</td><td>59.9</td><td></td><td></td></tr> <tr><td>June</td><td>72.8</td><td>1.39</td><td>1.10</td></tr> <tr><td>July</td><td>78.5</td><td>0.48</td><td>5.10</td></tr> <tr><td>August</td><td>73.0</td><td>3.25</td><td></td></tr> <tr><td>September</td><td>67.0</td><td>2.05</td><td></td></tr> <tr><td>October</td><td>61.5</td><td>0.01</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>7.2 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td>6.2 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td></td> <td>3-May</td> <td></td> </tr> <tr> <td>Date of First Fall Frost:</td> <td></td> <td>6-Nov</td> <td></td> </tr> <tr> <td>Frost Free Period:</td> <td></td> <td>178 days</td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	35.8			February	42.8			March	49.3			April	53.6			May	59.9			June	72.8	1.39	1.10	July	78.5	0.48	5.10	August	73.0	3.25		September	67.0	2.05		October	61.5	0.01		November				December				Seasonal Precipitation:		7.2 in.		Total Irrigation:		6.2 in.		Date of Last Spring Frost:		3-May		Date of First Fall Frost:		6-Nov		Frost Free Period:		178 days	
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