

New Mexico 2015 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 ₁	Milk/Ton	Milk/Acre	
				Dry Forage	Green Forage	at Harvest									
				t/a	t/a	%	%	%	%	%	Mcal/lb	lb/t	lb/a		
Ceres, Inc.	DS 7853**	Conv	PS	8.2	36.8	77.6	7.8	62.1	60.7	6.1	53.8	0.543	2301	18892	
Ceres, Inc.	EJ 7282*	Conv	L	8.2	29.0	71.8	7.0	56.0	60.5	4.5	60.5	0.618	2779	22631	
Advanta US, Inc.	AF 7401	BMR	L	8.2	18.3	56.1	8.0	47.9	64.2	7.0	64.1	0.658	3068	25399	
CPS Dyna-Gro Seed	705 F	Conv	ME	8.1	17.8	54.6	8.7	40.3	58.9	4.3	65.3	0.671	3106	25153	
Ceres, Inc.	EJ 7281*	Conv	L	8.0	27.9	71.2	7.1	53.7	61.5	4.1	61.0	0.623	2823	22542	
Gayland Ward Seed	Ensilé Master			7.5	19.1	60.4	7.1	52.4	58.3	4.9	61.1	0.625	2805	20984	
Advanta US, Inc.	AF 8301	Conv	L	7.3	16.0	54.4	6.7	54.5	59.0	6.0	61.0	0.623	2800	20690	
Blue River Hybrids	Blackhawk 12	BMR		6.8	18.4	62.8	8.3	49.5	61.1	3.8	64.8	0.666	3092	21052	
Browning Seed Inc.	Silage Master	Conv	ML	6.7	19.2	65.1	8.5	45.7	61.5	4.9	63.7	0.654	3016	20245	
Gayland Ward Seed	GW 600 BMR	BMR		6.7	15.4	56.7	7.9	45.7	60.9	5.0	63.7	0.653	3009	20207	
Gayland Ward Seed	GW 2120			6.7	17.9	62.7	8.0	45.1	60.6	4.9	61.3	0.627	2838	18959	
CPS Dyna-Gro Seed	F 75 FS 13	Conv	M	6.5	18.8	65.7	8.0	48.4	61.7	5.1	62.4	0.683	2922	18875	
Gayland Ward Seed	GW 400 BMR	BMR		6.4	19.5	66.9	8.2	48.1	64.4	6.1	59.2	0.604	2718	17438	
Advanta US, Inc.	AF 7301	BMR	M	6.2	17.0	63.8	7.7	49.3	66.6	6.5	61.7	0.631	2915	18137	
Blue River Hybrids	Seahawk 6	BMR		5.9	14.3	58.8	8.4	49.8	58.3	5.0	60.9	0.622	2785	16425	
CPS Dyna-Gro Seed	F75 FS 28	BMR	M	5.8	14.2	59.0	8.6	44.9	64.5	3.9	66.7	0.627	3254	19129	
Blue River Hybrids	Heron 6	BMR		5.8	14.1	58.7	8.4	46.7	64.5	5.5	63.0	0.646	2992	17535	
Advanta US, Inc.	AF 7102	BMR	E	5.7	14.7	61.1	8.6	42.4	62.6	5.4	62.3	0.638	2926	16700	
Warner Seeds, Inc.	Sweet Bee BMR	BMR	L	5.7	12.3	53.6	6.8	52.7	66.7	7.4	64.1	0.658	3086	17402	
Advanta US, Inc.	AF 7202	BMR	ME	5.5	14.0	61.1	9.1	36.5	63.4	5.0	66.9	0.689	3259	17833	
Blue River Hybrids	Warbler	BMR		5.2	11.8	55.9	7.2	51.5	68.1	7.3	65.3	0.671	3185	16536	
Gayland Ward Seed	Silo-Pro BMR Dwarf	BMR		5.2	12.5	58.3	8.3	42.1	65.9	6.0	66.4	0.683	3243	16897	
Trial Mean				6.6	18.1	61.6	7.9	48.4	62.4	5.39197	62.7	0.642	2951	19529	
LSD				2.3	5.3	3.9	1.27	8.2	3.12	1.57	3.63	0.040	260	7408	
LSD P >				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.050	0	0.05	
CV				21.4	17.6	3.9	9.8	10.3	3.0	17.6	3.5	3.817	5	23.0	
F Test				0.1153	<.0001	<.0001	0.0145	<.0001	<.0001	0.0002	<.0001	<.0001	<.0001	<.0001	0.4645

* planted 50,000/ac

** planted 60,000/ac

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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: 27-May Harvest Date: 30-Sep 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 style="text-align: center;">150 lb/ac</td> <td style="text-align: center;">26-May</td> </tr> <tr> <td>P₂O₅</td> <td style="text-align: center;">45 lb/ac</td> <td style="text-align: center;">26-May</td> </tr> <tr> <td>S</td> <td style="text-align: center;">24.7 lb/ac</td> <td style="text-align: center;">26-May</td> </tr> <tr> <td>Zn</td> <td style="text-align: center;">3 qt/ac</td> <td style="text-align: center;">26-May</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Aatrex</td> <td style="text-align: center;">2 pt/a</td> <td style="text-align: center;">27-May</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>Sivanto</td> <td style="text-align: center;">6 oz/ac</td> <td style="text-align: center;">26-Aug</td> </tr> <tr> <td>Prevathon</td> <td style="text-align: center;">8 oz/ac</td> <td style="text-align: center;">26-Aug</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	150 lb/ac	26-May	P ₂ O ₅	45 lb/ac	26-May	S	24.7 lb/ac	26-May	Zn	3 qt/ac	26-May	Herbicides:			Aatrex	2 pt/a	27-May	Insecticides:			Sivanto	6 oz/ac	26-Aug	Prevathon	8 oz/ac	26-Aug	<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;">31.1</td><td></td><td></td></tr> <tr><td>February</td><td style="text-align: center;">38.5</td><td></td><td></td></tr> <tr><td>March</td><td style="text-align: center;">45.9</td><td></td><td></td></tr> <tr><td>April</td><td style="text-align: center;">54.1</td><td></td><td></td></tr> <tr><td>May</td><td style="text-align: center;">59.3</td><td style="text-align: center;">7.45</td><td></td></tr> <tr><td>June</td><td style="text-align: center;">72.1</td><td style="text-align: center;">1.77</td><td style="text-align: center;">1.00</td></tr> <tr><td>July</td><td style="text-align: center;">75.5</td><td style="text-align: center;">3.40</td><td style="text-align: center;">3.80</td></tr> <tr><td>August</td><td style="text-align: center;">74.5</td><td style="text-align: center;">4.00</td><td style="text-align: center;">3.00</td></tr> <tr><td>September</td><td style="text-align: center;">73.0</td><td style="text-align: center;">2.54</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">58.5</td><td></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 style="text-align: center;">19.2 in.</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Irrigation:</td> <td style="text-align: center;">7.8 in.</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Date of Last Spring Frost:</td> <td style="text-align: center;">21-Apr</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Date of First Fall Frost:</td> <td style="text-align: center;">6-Nov</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Frost Free Period:</td> <td style="text-align: center;">195 days</td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	31.1			February	38.5			March	45.9			April	54.1			May	59.3	7.45		June	72.1	1.77	1.00	July	75.5	3.40	3.80	August	74.5	4.00	3.00	September	73.0	2.54		October	58.5			November				December				Seasonal Precipitation:		19.2 in.		Total Irrigation:		7.8 in.		Date of Last Spring Frost:		21-Apr		Date of First Fall Frost:		6-Nov		Frost Free Period:		195 days	
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