

New Mexico 2015 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis

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

Test Description

Location:

County/Area: Curry
 Longitude: -103.22
 Latitude: 34.60
 Elevation: 4435 ft.
 Soil Name: Olton
 Soil Texture: clay loam
 Soil Depth: >60 in.

Test Design:

Replications: 3
 Plot Length: 20 ft.
 Rows per Plot: 2
 Row Spacing: 30 in.
 Seeding Rate: 50000 seed/a

Management Practices:

Previous Crop: fallow
 Planting Date: 17-Jun
 Harvest Date: 31-Oct

Production Inputs

	Rate	Date
--	------	------

Fertilizer:

Nitrogen	28 lb/a	carryover
Nitrogen	16 lb/ac	17-Mar
P ₂ O ₅	30 lb/ac	17-Mar
S	1.3 lb/ac	17-Mar
Nitrogen	46 lb/ac	17-Jun
S	8.3 lb/ac	17-Jun

Herbicides:

Atrazine	8 oz/ac	12-Jun
Glyphosate	48 oz/ac	12-Jun
Sharpen	1.5 oz/ac	12-Jun
Atrazine	1 pt/ac	17-Jun

Insecticides:

Sivanto	6 oz/ac	27-Aug
Prevathon	8 oz/ac	27-Aug

Growing Conditions:

	Average		
	Temp.	Precip.	Irrigation
	°F	in.	in.
January	31.1		
February	38.5		
March	45.9		
April	54.1		
May	59.3		
June	72.1	1.77	
July	75.5	3.40	
August	74.5	4.00	
September	73.0	2.54	
October	58.5		
November			
December			

Seasonal Precipitation: 11.7 in.
 Total Irrigation: 0.0 in.

Date of Last Spring Frost: 21-Apr
 Date of First Fall Frost: 6-Nov
 Frost Free Period: 195 days

New Mexico 2015 Dryland 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 _l	Milk/Ton	Milk/Acre
				Dry Forage	Green Forage	at Harvest								
				t/a	t/a	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
CPS Dyna-Gro Seed	705 F	Conv	ME	6.0	17.9	66.3	9.9	41.5	56.5	4.5	64.2	0.659	3008	18119
Alta Seeds	AF 8301	BMR	M	5.9	16.7	64.7	9.4	43.1	56.7	4.3	64.2	0.658	3007	17708
Gayland Ward	Super Sugar			5.6	18.2	69.2	8.8	46.9	54.3	3.7	59.1	0.602	2620	14726
Alta Seeds	AF 7401	BMR	L	4.9	16.6	70.7	9.5	41.8	58.4	5.0	61.8	0.632	2852	13873
Alta Seeds	AF 7301	BMR	M	4.2	13.3	68.6	9.6	42.4	63.2	4.6	65.0	0.668	3127	13102
Gayland Ward	GW-2120			4.1	10.9	62.7	9.1	41.9	57.7	3.7	65.5	0.673	3113	12739
Blue River Hybrids	Heron 6	BMR		4.0	12.1	67.4	9.5	44.4	61.3	4.5	62.3	0.638	2916	11560
Blue River Hybrids	Blackhawk 12	BMR		3.7	12.0	68.8	9.2	51.5	59.8	5.0	61.4	0.628	2838	10617
Blue River Hybrids	Warbler	BMR		3.7	13.5	72.7	10.6	44.2	63.1	6.2	57.8	0.588	2610	9539
CPS Dyna-Gro Seed	F 75 FS 13	Conv	M	3.6	10.7	66.7	8.5	47.2	54.9	5.0	60.5	0.617	2724	9814
Alta Seeds	AF 7202	BMR	ME	3.2	9.0	64.4	8.8	41.3	60.1	4.9	64.6	0.664	3072	9831
Alta Seeds	AF 7102	BMR	E	3.0	8.2	63.9	8.8	42.5	59.2	4.5	64.6	0.663	3063	9053
CPS Dyna-Gro Seed	F75 FS 28	BMR	M	2.6	7.4	64.4	9.1	46.3	63.1	3.9	66.9	0.689	3259	8629
Blue River Hybrids	Seahawk 6	BMR		2.4	6.7	63.5	9.8	43.6	53.9	3.7	63.2	0.648	2915	7160
Trial Mean				4.1	12.4	66.7	9.3	44.2	58.7	4.5	62.9	0.645	2937	11890
LSD				0.7	1.7	3.0	0.99	8.2	2.97	1.25	1.13	0.046	308	2769
LSD P >				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.050	0	0.05
CV				10.6	8.0	2.7	6.3	11.0	3.0	16.4	3.9	4.2	6	13.9
F Test				<.0001	<.0001	<.0001	0.0169	0.4352	<.0001	0.0225	0.0045	0.004	0.004	<.0001