

Table 9A. New Mexico 2012 Irrigated Forage Sorghum 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	Previous Crop: fallow	Average			
Longitude: -103.22	Planting Date: 31-May	Temp.	Precip.	Irrigation	
Latitude: 34.60	Harvest Date: 24-Sep	°F	in.	in.	
Elevation: 4435 ft.		January			
Soil Name: Olton		February			
Soil Texture: clay loam		March			
Soil Depth: >60 in.		April	59.5	0.33	3.00
		May	65.5	2.52	0.00
		June	75.9	1.31	2.55
		July	77.5	0.50	6.00
		August	76.0	1.86	4.50
		September†	69.4	1.41	3.00
		October			
		November			
		December			
		† Sept. 1-24			
		Seasonal Precipitation		7.9 in.	
		Total Irrigation		19.1 in.	
		Date of Last Spring Frost:		16-Apr	
		Date of First Fall Frost:		7-Oct	
		Frost Free Period:		174 days	

Test Design:

Replications: 3
 Plot Length: 20 ft.
 Rows per Plot: 2
 Row Spacing: 30 in.
 Seeding Rate: 90,000 seed/a

Production Inputs

	Rate	Date
Fertilizer:		
Nitrogen	25 lb/a	carryover
Nitrogen	200 lb/a	30-May
P ₂ O ₅	50 lb/a	30-May
Zn	1 lb/a	30-May
Herbicides:		
Atrazine	2 pt/a	2-Jun
Dicamba HD	5 oz/a	26-Jun
Me Too Lachlor	1 pt/a	26-Jun
Insecticides:		
None		

Table 9B. New Mexico 2012 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 _l Mcal/lb	Milk/ Ton lb/t	Milk/ Acre lb/a
				Dry Forage t/a	Green Forage t/a	at Harvest %								
Chromatin	CHR-FS4	Conv	L	10.6	33.2	68.0	7.6	54.3	65.1	6.2	62.7	0.643	2975	31549
Chromatin	CHR-SS2	Conv	PS	10.3	33.9	69.8	7.0	58.0	64.9	6.4	61.0	0.623	2850	29211
Forage First	FS-5	Conv	M	9.6	28.3	66.0	7.9	49.6	63.8	7.1	62.8	0.643	2974	28455
Chromatin	CHR-FS9	Conv	PS	9.3	33.8	72.5	7.4	58.0	67.8	6.4	63.0	0.643	3018	28065
Chromatin	CHR-SG1	Conv	PS	8.7	34.2	74.5	7.7	58.6	65.8	7.2	61.6	0.630	2898	25317
Richardson Seeds	X36400	BMR	L	8.0	30.4	73.8	8.6	53.8	75.5	6.0	67.1	0.690	3367	26813
Eastern Colorado Seeds	HP 85 BMR	BMR	E	7.3	20.9	67.5	8.5	53.0	69.2	7.5	64.9	0.667	3162	23193
Eastern Colorado Seeds	HP ECS 12 EXP	BMR	M	7.1	25.1	71.6	9.3	49.5	69.6	7.9	66.0	0.680	3250	23117
Eastern Colorado Seeds	HP 1010 BMR	BMR	M	7.1	23.2	69.4	8.6	50.5	72.1	7.5	67.8	0.700	3393	24147
Pioneer Hibred Int.	849F	Conv	ML	7.1	20.5	65.8	8.6	52.4	61.0	7.4	61.8	0.630	2874	20191
Pioneer Hibred Int.	841F	Conv	M	6.9	20.4	62.6	9.0	53.8	63.6	8.2	62.2	0.637	2924	20249
CPS Dyna-Gro	710 F	Conv	M	6.9	22.1	69.2	8.0	52.4	64.0	6.7	62.2	0.637	2928	20099
Eastern Colorado Seeds	HP 95 BMR	BMR	E	6.7	19.9	65.6	8.1	52.7	69.0	7.4	64.8	0.667	3159	21266
B-H Genetics	BH 380 F	Conv	ML	6.6	20.0	67.3	7.9	49.9	66.0	6.7	62.4	0.637	2961	19369
Eastern Colorado Seeds	HP 120 BMR	BMR	L	6.3	20.6	69.3	9.2	51.4	70.2	8.4	66.0	0.680	3250	20597
Eastern Colorado Seeds	HP 99 BMR	BMR	M	6.1	20.4	69.9	8.3	48.5	70.7	7.4	65.7	0.673	3232	19768
Forage First	BMR 108 Leafy	BMR	M	6.1	21.2	71.0	9.5	51.1	68.5	8.4	65.1	0.670	3173	19399
	Red Top Cane	Conv	ME	6.0	20.4	70.8	8.0	45.5	71.3	6.7	65.3	0.670	3208	19105
B-H Genetics	BH 312 FBD	BMR	ML	5.9	21.0	71.6	9.7	49.8	68.4	8.5	65.1	0.670	3172	18870
	Hegari	Conv	M	4.6	11.6	60.1	7.9	50.0	63.4	8.0	62.5	0.640	2944	13559
	Trial Mean			7.4	24.1	68.8	8.3	52.1	67.5	7.3	64.0	0.657	3085	22616
	LSD			1.4	4.6	3.1	0.7	4.1	2.5	0.8	1.6	0.019	128	4388
	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			11.8	11.6	2.7	5.3	4.8	2.2	6.9	1.5	1.8	2.5	11.7
	F Test			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

[†] Sorghum Type: Conv = Conventional, BMR = Brown Midrib

[§]Maturity Group: E = Early, M = Medium, L = Late, PS = Photoperiod Sensitive