Table 10A. New Mexico 2012 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Investigators: M.A. Marsalis, R.E. Kirksey, B. Niece, and A. Scott

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:	60,000 seed/a

Management Practices:

Previous Crop:	fallow
Planting Date:	11-Jun
Harvest Date:	5-Oct

Production Inputs

	Rate	Date
Fertilizer:		
Nitrogen	34 lb/a	carryover
Nitrogen	75 lb/a	11-Jun
P_2O_5	25 lb/a	11-Jun
S	12 lb/a	11-Jun
Zn	1 lb/a	11-Jun
Herbicides:		
Atrazine	2 pt/a	13-Jun
Me Too Lachlor	1 pt/a	26-Jun
Insecticides:		
None		

Growing Conditions:

	Average Temp.	Precip.	Irrigation
	°F	in.	in.
January			
February			
March			
April			
May	65.5	2.52	
June	75.9	1.31	1.15*
July	77.5	0.50	
August	76.0	1.86	
September	68.5	2.06	
October†	59.5	0.02	
November			
December			

† Oct. 1-5

*Emergence Irrigations

Seasonal Precipitation	8.3 in.
Total Irrigation	1.2 in.
Date of Last Spring Frost:	16-Apr
Date of First Fall Frost:	7-Oct
Frost Free Period:	174 days

Table 10B. New Mexico 2012 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Sorghum† Type	Maturity§ Group	Dry Forage	Green Forage	Moisture at Harvest	CP	NDF	NDFD 48hr	Ash	TDN	NE_l	Milk/ Ton	Milk/ Acre
				t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a
Forage First	FS-5	Conv	M	4.3	12.0	64.9	8.0	46.5	67.5	6.1	66.0	0.677	3228	14083
Chromatin	CHR-SG1	Conv	PS	4.1	15.2	73.5	9.5	48.9	71.1	6.7	63.0	0.647	3041	12752
B-H Genetics	BH 380 F	Conv	ML	4.0	10.6	62.0	8.5	43.6	67.9	5.9	67.9	0.700	3371	13616
Eastern Colorado Seeds	HP 95 BMR	BMR	E	4.0	9.6	57.2	8.6	43.3	71.2	6.0	69.4	0.717	3504	15085
Pioneer Hibred Int.	849F	Conv	ML	3.9	9.2	57.9	8.8	45.7	62.0	6.2	64.4	0.660	3070	11928
Chromatin	CHR-FS4	Conv	L	3.8	11.9	68.2	8.0	45.1	72.2	5.5	65.3	0.670	3214	12169
Chromatin	CHR-FS9	Conv	PS	3.8	15.4	75.2	10.9	49.8	72.9	7.2	64.2	0.660	3141	13058
Pioneer Hibred Int.	841F	Conv	M	3.7	11.4	67.4	9.3	47.4	68.9	6.5	66.6	0.687	3286	12225
Eastern Colorado Seeds	HP 85 BMR	BMR	E	3.7	8.7	55.3	8.3	46.3	70.9	6.6	68.7	0.707	3453	13830
Chromatin	CHR-SS2	Conv	PS	3.7	12.3	69.7	8.8	49.8	70.2	6.5	63.5	0.650	3071	11598
CPS Dyna-Gro	710 F	Conv	M	3.5	8.9	60.5	8.2	43.8	69.2	5.9	68.1	0.703	3390	12009
Eastern Colorado Seeds	HP ECS 12 EXP	BMR	M	3.4	11.6	70.3	10.5	47.9	73.4	7.2	64.9	0.667	3197	11032
Eastern Colorado Seeds	HP 120 BMR	BMR	L	3.4	11.2	69.7	9.7	47.1	75.4	7.4	65.1	0.667	3222	11597
Eastern Colorado Seeds	HP 1010 BMR	BMR	M	3.1	9.7	67.6	9.3	46.2	75.9	7.2	67.4	0.693	3390	10670
Forage First	BMR 108 Leafy	BMR	M	3.1	10.2	69.6	9.6	45.6	76.2	7.0	65.1	0.670	3230	10055
B-H Genetics	BH 312 FBD	BMR	ML	3.1	10.3	69.7	9.6	45.5	76.4	6.9	66.1	0.680	3301	11291
Eastern Colorado Seeds	HP 99 BMR	BMR	M	3.0	8.2	63.6	8.9	43.8	72.2	7.0	66.6	0.687	3308	9850
Richardson Seeds	X36400	BMR	L	2.9	10.6	73.1	9.3	47.9	79.5	6.3	66.7	0.687	3365	10384
	Hegari	Conv	M	2.4	6.6	64.4	8.0	43.1	67.6	5.8	67.4	0.693	3333	7859
	Red Top Cane	Conv	ME	2.0	6.5	68.8	8.4	40.8	69.1	6.2	66.2	0.680	3256	6594
	Trial Mean			3.5	10.5	66.4	9.0	45.9	71.5	6.5	66.1	0.680	3269	11584
	LSD			0.5	1.2	4.9	0.6	3.0	2.1	0.8	1.4	0.017	108	2081
	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			9.1	6.6	4.5	3.7	3.9	1.8	7.3	1.3	1.5	2.0	10.9
	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