

Jack Hammond Sorghum/Sudangrass & Millet Trial
Pulaski County, KY,
Keenan Turner, County ANR Extension Agent

Sorghum/Sudangrass

- Sorghum/sudangrasses were planted on May 6, 2002.
- Frost occurred on May 19, 20 and 22. Freeze (24 F) occurred on May 22.
- Sorghum/sudangrasses were harvested down to a 4-inch stubble in 10 ft x 10 ft sections to obtain weights. Forage samples from each variety were sent to the Kentucky Department of Agriculture for analysis.
- Cattle were given access to all varieties at the same time. The cattle grazed the DeKalb SXG at 50 lbs/A seeding rate first. This preference may be due to the seeding rate. The sorghum that was grazed the most was PS210 BMR.

		Harvest Date	DM	CP	ADF	NDF	TDN	NEL	RFV	lbs/ac/dm
BMR 76										
Seed Rate:	171 lbs/A	19-Jun	19.6	15.5	34.2	66	57.2	0.57	87.8	640
Row Widths:	7 inches	15-Jul								901
		9-Aug	24.1	9.6	36.8	68.2	53.9	0.53	82.2	814
		20-Sep	20.1	12	36.2	68.3	54.6	0.54	82.8	381
										Total 2736
DeKalb SXG										
Seed Rate:	171 lbs/A	19-Jun	Estimated at 20% DM -- See NOTE							1001
Row Widths:	7 inches	15-Jul								1285
		9-Aug	23.5	7.2	42.6	75.4	46.4	0.45	68.7	1136
		20-Sep	22.6	13	39.3	73.3	50.6	0.49	73.9	310
										Total 3732
SS 8446										
Seed Rate:	171 lbs/A	19-Jun	20.4	14	36.6	67.7	54.1	0.54	82.9	729
Row Widths:	7 inches	15-Jul								1395
		9-Aug	22.8	7.6	40.2	72.5	49.5	0.48	73.9	983
		20-Sep	18.5	14.2	37.2	69.1	53.3	0.53	80.6	270
										Total 3377
MS 202 BMR										
Seed Rate:	171 lbs/A	19-Jun	18.6	11.8	37.6	70.9	52.9	0.52	78.2	652
Row Widths:	7 inches	15-Jul								984
		9-Aug	26.3	9.8	37.5	69	53	0.52	80.5	854
		20-Sep	21.9	13.2	38.8	71.5	51.2	0.5	76.3	348
										Total 2838

		Harvest	DM	CP	ADF	NDF	TDN	NEL	RFV	lbs/ac/dm
		Date								
SS220 BMR										
Seed Rate:	171 lbs/A	19-Jun	19.4	12.3	36.5	68	54.3	0.54	82.8	799
Row Widths:	7 inches	15-Jul								1200
		9-Aug	22.8	8.7	41.5	74.3	47.7	0.46	70.8	1083
		20-Sep	22.5	13.7	35.1	67	56.1	0.56	85.5	372
										Total 3454
Sorgho Maxi										
Seed Rate:	171 lbs/A	19-Jun	18.4	13.3	36.4	68.6	54.3	0.54	82.1	525
Row Widths:	7 inches	15-Jul								1018
		9-Aug	23.9	9	42	74.4	47.2	0.46	70.3	1119
		20-Sep	22.2	9.2	40.9	72.7	48.5	0.47	72.9	406
										Total 3068
PS 210 BMR										
Seed Rate:	85 lbs/A	19-Jun	22.7	17	31.9	61.6	60.1	0.61	96.6	841
Row Widths:	14 inches	15-Jul								1468
		9-Aug	16.5	15	34.7	65.5	56.5	0.56	87.9	1031
		20-Sep	16.1	14.9	36	66.1	54.9	0.55	85.6	445
										Total 3785
SS 8446										
Seed Rate:	85 lbs/A	19-Jun	18.8	11.1	39.1	71.6	50.9	0.5	75.9	577
Row Widths:	14 inches	15-Jul								1114
		9-Aug	22.2	9.3	40	71.2	49.7	0.49	75.5	1252
		20-Sep	22.6	11.8	40.3	73.2	49.3	0.48	73.1	436
										Total 3379
DeKalb SXG (85 lbs)										
Seed Rate:	85 lbs/A	19-Jun	Estimated at 20% DM							854
Row Widths:	7 inches	15-Jul								1180
		9-Aug	23.1	8.1	42.5	75.4	46.5	0.45	68.9	1197
		20-Sep	20.4	11.5	42.1	74.1	47	0.45	70.4	270
										Total 3501
DeKalb SXG (50 lbs)										
Seed Rate:	50 lbs/A	19-Jun	Estimated at 20% DM							915
Row Widths:	7 inches	15-Jul								1620
		9-Aug	19.6	9.4	39.3	71.5	50.7	0.5	75.8	1127
		20-Sep	20.7	11.1	39.7	72.2	50.1	0.49	74.6	343
										Total 4005

NOTE: DeKalb SXG @ 171 lbs/acre was the only SXG sampled on June 19 and the lab had problems running the sample. Moisture was estimated by results from other varieties sampled.

Millets

The millets were seeded on May 6, 2002 at 25 lbs/A. Harvest weights were not determined.

	DM	CCP	ADF	NDF	TDN	NEL	RFV
Analysis ran June 28							
SS 501 Hybrid	14.1	9.7	36.2	67.2	54.6	0.54	84.0
Leafy 22 Hybrid	10.2	10	35.7	65	55.3	0.55	87.4
Analysis ran August 9							
SS 501 Hybrid	21.1	8.4	39.9	70.2	49.8	0.49	76.6
Leafy 22 Hybrid	20.8	9.1	38.7	68.5	51.3	0.5	79.8
Analysis ran September 20							
SS 501 Hybrid	18.4	17.3	32.5	61.2	59.3	0.6	96.5
Leafy 22 Hybrid	17.6	14	34.1	63.1	57.3	0.57	91.9

Keenan Turner
Agent for Agriculture and Natural Resources
Pulaski Co. Cooperative Extension Service
28 Parkway Drive
Somerset, KY 42503
(606)-679-6361
Fax: (606)-679-6271
Email: kturner@uky.edu