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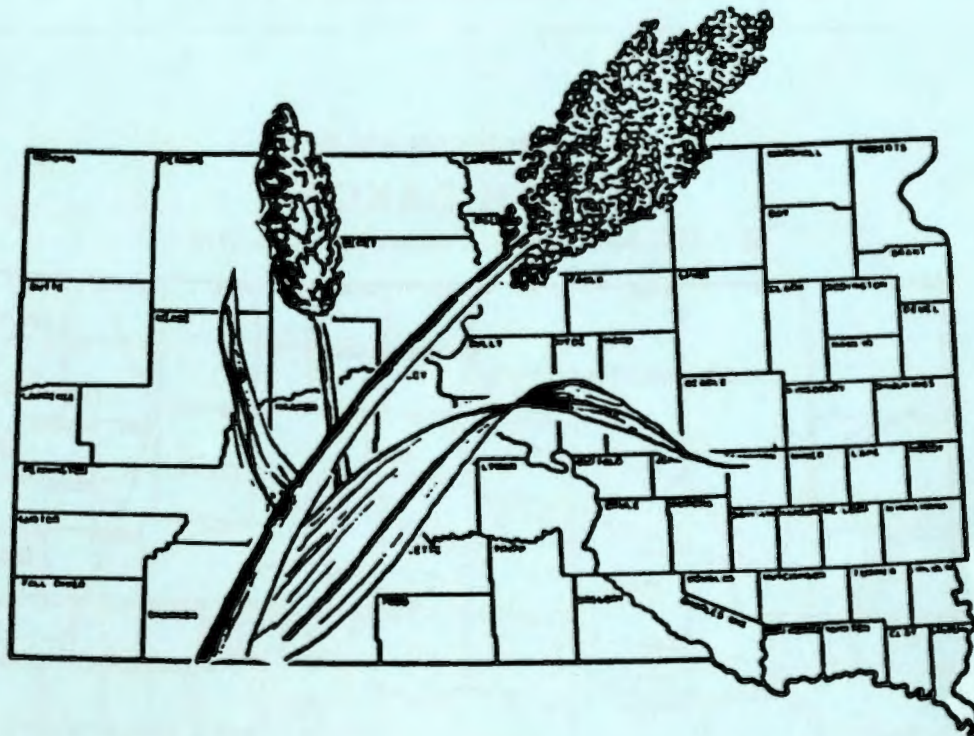
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1985

GRAIN SORGHUM PERFORMANCE TRIALS

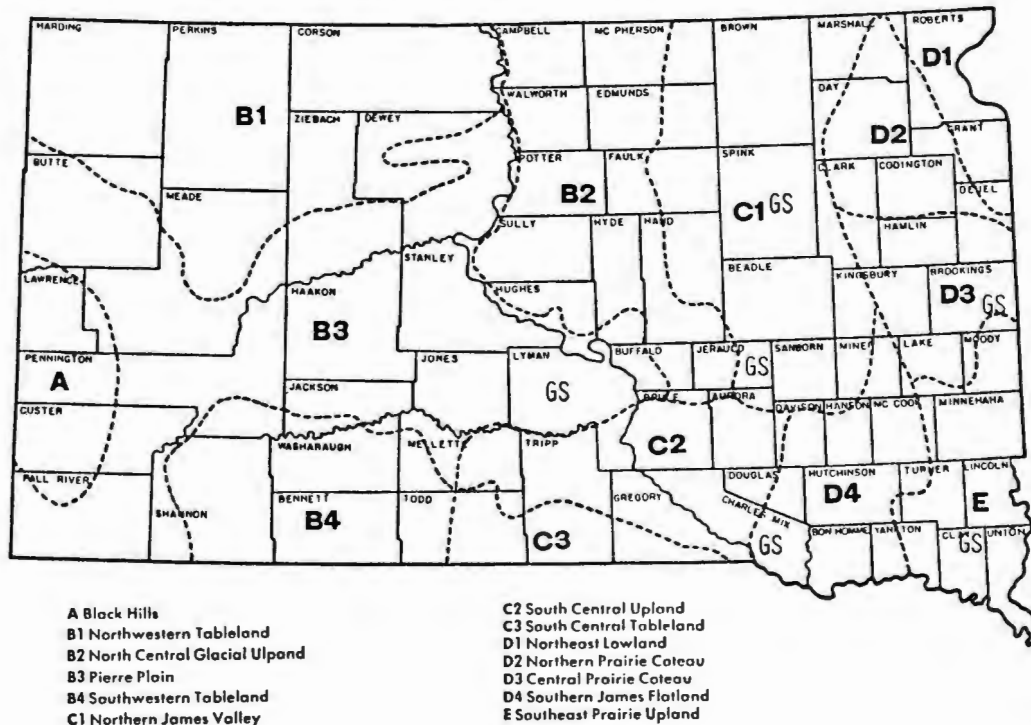


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CROP ADAPTATION AREAS OF SOUTH DAKOTA GS - 1985 GRAIN SORGHUM PERFORMANCE TRIAL SITE



1985 GRAIN SORGHUM PERFORMANCE TRIALS

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The relative performance of grain sorghum cultivars grown under similar environmental conditions is evaluated in this report for the 1985 crop season. Performance records of all entries harvested in 1985 and the available two-through four-year averages are presented. The trials were conducted under the Plant Science Department program in Crop Performance Testing, Agricultural Experiment Station, South Dakota State University.

Location of the 1985 Trials

For adequate performance evaluation, all entries must be grown under similar environmental conditions. Crop adaptation areas in which trials are conducted are based upon soil type, elevation, temperature, rainfall, and other physical differences. The exact location of each trial, row spacing, and dates of seeding and harvesting are included in Table 1. Soil classification and data from soil samples taken, cultural practices, and fertilizer applications are shown in Table 2.

Weather and Climatic Conditions

Climatic data for the 1985 grain sorghum year (Table 3) are based upon U.S. Monthly Climatological Data. Data is not available from the Geddes site so the Pickstown data is presented. Precipitation quantities vary from the actual trial sites to the recording stations but temperatures are similar over a much wider area and considered applicable to the trial area.

Field conditions were wet in the eastern third of South Dakota during most of the growing period. Field work began early, was interrupted by frequent showers in late May, and ended by mid-June. Good moisture was available for germination. Stands were reduced at Kennebec and Redfield where the cool, saturated soil in early June retarded growth. Growth was generally behind and uneven until mid-summer at most sites, especially parts of the state where standing water became a problem. Growing degree days were above normal during the early part of the growing season, favoring rapid germination of early seeded crops. Cool, cloudy conditions prevailed over much of the state from mid-August through the remainder of the growing season, delaying maturity of all standing crops. September averaged 12-15 degrees below normal across the entire state. Maturation was further hindered by a killing frost in the lower 20's on September 24-26 causing growth to halt in many fields. Early October fog, overcast skies and drizzle hindered drydown so harvest was very spotty and delayed; some farm fields are still unharvested because of immaturity or deep snow.

The assistance of the following individuals is appreciated: Dwayne Beck, Burton Lawrensen, Herb Lund, Lucian Edler, and Kevin Kirby; and farmer-cooperators John Biddle, James Eagle, and Harlan Halverson.

Table 1. Location of Trials, and Dates of Seeding and Harvesting of Grain Sorghum Performance Trials, South Dakota, 1985.

County	Location and Post Office	Row Spacing	Dates when Seeded	Dates when Harvested
Brookings	Plant Science Farm, Brookings	30"	May 27	October 4
Charles Mix	John Biddle Farm, Geddes	30"	May 10	October 2
Clay	Southeast Experiment Farm, Beresford	36"	May 9	October 3
Jerauld	James Eagle Farm, Wessington Springs	36"	May 22	October 1
Lyman	Harlan Halverson Farm, Kennebec	36"	June 5	October 1
Spink	James Valley Research Farm, Redfield	30"	May 20	October 8

Yields were good in the Beresford and Geddes trial but were quite variable to nil in the remaining trials. Warm, friable field conditions favored early seeding of all crops in 1985. The cool, cloudy conditions delayed crop growth throughout the season so that heading did not begin until after mid-August at the northern sites. Medium to late maturing hybrids were affected most by the cool weather from mid-August to frost. Some late entries still had pollen-shedding anthers present on September 24 and little or no grain was in the harvested heads.

Periods of excessively high temperatures occurred at several sites but did not appear to seriously affect pollination. Generally the opposite was true in the northern portion of the state where cooler than normal temperatures delayed heading and pollination of adapted hybrids until mid to late August.

Hybrid Entry Procedure

Only grain sorghums offered for sale in South Dakota or being produced for 1986 distribution were eligible for entry. A closed-pedigree hybrid was entered by the name and number under which it was sold by the participating company. All entries maintained a minimum laboratory germination of 80% as required by South Dakota Certification Standards. A nominal fee was charged for each entry in each trial. Proprietary entries included are the choice of the participating companies.

Table 2. Soil Sample Analysis and Cultural Practices, 1985 Grain Sorghum Sites.

County and crop adaptation areas	Soil Classification	Lab analysis				pH	Field preparations Methods	Field preparations pounds/A		
		Org. mat. %	P lbs/A	K lbs/A	N			P	K	
Lyman, B3	Pierre C1	2.6	15	990	7.7	Sweeps in spring	wht.	stub.		
Chas. Mix, C2	Highmore SiC1	2.3	30	840	6.6	Disced	soybeans			
Jerauld, C1(dry)	Hou-Pros SiC1	2.9	44	1310	6.7	Disced, barley stub	0	0	0	
Spink, C1(irr.)	Beotia SiC1	2.7	48	1010	7.1	Field cult, ridged	240	55	0	
Brookings, D3	Lamour SiL	3.0	44	320	6.9	Chiseled, sudan stub.	40	30	0	
Clay, E	Egan SiL	3.0	30	620	7.1	Plowed, sm grain	160	60	40	

Table 3. Temperature and Precipitation Data for the 1985 Grain Sorghum Performance Trials, South Dakota.

Location	Type of Data	Months of					Total
		May	June	July	August	Sept.	
Brookings 2 NE	Precip. (inches)	3.57	0.82	1.49	3.92	5.03	14.83
	Temp. (mean)	59.5	61.2	68.3	63.3	56.5	
	Mean departure	+3.5	-4.4	-2.4	-5.3	-1.5	
	Days 90 F. +	--	03	03	01	--	
	First freeze	Sept. 24					
Centerville 6 SE	Precip. (inches)	5.53	4.42	0.54	5.05	3.22	18.76
	Temp. (mean)	63.5	66.3	71.3	66.1	58.8	
	Mean departure	+3.2	-3.9	-3.6	-6.7	4.1	
	Days 90 F. +	01	04	05	02	01	
	First freeze	Sept. 24					
Kennebec	Precip. (inches)	1.83	3.20	3.55	2.30	2.76	13.64
	Temp. (mean)	65.1	65.8	77.1	70.6	62.1	
	Mean departure	+6.2	-3.3	-1.3	-3.8	-1.6	
	Days 90 F. +	07	06	19	09	06	
	First freeze	Sept. 25					
Pickstown	Precip. (inches)	1.34	1.99	2.02	5.81	2.65	13.81
	Temp. (mean)	63.7	66.1	75.3	70.1	60.1	
	Mean departure	+3.5	-4.1	-1.0	-4.5	-4.0	
	Days 90 F. +	01	07	15	03	02	
	First freeze	Sept. 26					
Redfield 6 E	Precip. (inches)	2.47	2.20	5.20	4.03	4.83	18.73
	Temp. (mean)	62.1	62.6	72.0	65.3	56.5	
	Mean departure	+4.9	-4.2	-1.1	-6.2	-4.2	
	Days 90 F. +	02	03	10	02	--	
	First freeze	Sept. 24					
Wess. Sprngs	Precip. (inches)	2.83	3.48	2.01	2.42	4.43	15.17
	Temp. (mean)	64.5	64.9	75.3	68.3	54.0	
	Days 90 F. +	01	04	13	03	--	
	First freeze	Sept. 24					

Experimental Procedure

Each trial consisted of four replications of two-row plots. Each plot was randomly located within each replication. All trials were seeded with 31-cell cone seeders mounted above maxi-merge units. A herbicide recommended for grassy weed control was banded over each row at seeding time. The row spacings used are indicated in Table 1 and plot lengths were dependent upon the area available at each site. Seeding rates were adequate, under normal conditions, to achieve an average of 2 and 3 plants per foot of row in the central and eastern portions of the state, respectively. The trial at Redfield was irrigated by the gravity method with approximately 2 inches of water each time the tensiometer reached 50 cb at the 18-inch depth.

Moisture determinations were made on September 23-24 just prior to normal first-frost dates. This is more informative as to maturity than determinations made at harvest. Moisture and test weight of the grain realistically indicate relative maturity. Grain samples for moisture determinations were 10-12 heads, 400-500 grams, cut from each entry, placed in a polyethylene bag, tagged, and sealed. The samples were threshed, cleaned, and moisture percentages determined with an electronic moisture meter. The upper limits of the meter are 35% and the data in the tables showing 33.0% could be that or considerably higher. Data above 30.0 would generally indicate lines of later maturity for the area.

Delayed harvest can contribute to higher levels of lodging or be caught in the bad weather of the later fall so harvesting is done as soon as possible after the first frost. Harvest was completed by October 8. Harvested grain was cut from a 15-20 foot section of each 2-row plot. Heads were bagged at harvest, tagged and tied, and returned to Brookings for drying and threshing. Yields are reported in pounds per acre (x 1.121 for kg/ha) with three or four replications harvested for yield purposes and one left for observational purposes.

Discussion of Results

Yields were quite variable from site to site and within trials. Hundred-weight yields topped the 60's and 70's at Beresford and Geddes, respectively, and started at just over 35 at Brookings and Kennebec. The poorest yields were in the Brookings, Kennebec, and Redfield trials. The lateness of heading generally favored the shorter season entries. Moisture was above 35% when sampled in many entries in all trials; the meter topping out at 35.0%.

Quality of many entries was seriously affected by the killing frost as test weights were poor for many entries in some trials. The very late maturity entries suffered 10-12 pound reductions in test weight.

The seed moisture recorded was obtained within 24-48 hours before the first hard frost was recorded. Quality was apparently affected, the cool temperatures during September and wet, cool conditions in October not favoring kernel fill or drydown. The harvested grain required supplemental drying in most instances.

Lodging was not a serious problem at any of the locations. Bird damage was a problem at Brookings and on some entries at Beresford. Trials located within larger fields of cooperators suffered little damage. Yield, quality, and test weight were affected by the stage of growth when temperature or moisture effects occurred.

Measurement of Performance

Variations in factors such as soil fertility, slope, or stand may cause varieties of equal potential to yield differently. Mathematical determinations were made to determine if yield differences were caused by variations in environment or were true varietal differences. Small yield differences have no significance.

Yields of 1985 and other agronomic data are reported in Tables 4 through 9. A listing of all entries is presented in Table 10.

TABLE 4. 1985 GRAIN SORGHUM PERFORMANCE TRIALS, AREA E, SOUTHEAST EXPERIMENT FARM, BERESFORD, CLAY COUNTY, SOUTH DAKOTA.

BRAND	VARIETY	PLANTS 50 PCT MC-DAY	PLANT HEIGHT IN (CM)	EARLY MOIST PCT	STALK LODGN PCT	TEST WT. LB/BU	GRAIN YIELD LB/A (KG/HA)
ONE-YEAR							
FUNK'S	G-251	7-17	38 (97)	18.0	.	57	4617 (5170)
PIONEER BRAND	8855	7-20	43 (109)	25.0	.	59	6008 (6730)
P-A-G	2250	7-22	41 (104)	22.0	.	57	5247 (5880)
WESTERN	WS-203	7-23	47 (119)	23.0	.	58	6194 (6940)
SEEDTEC	8502	7-23	44 (112)	24.0	.	59	5410 (6060)
WARNER	W-545T	7-23	39 (99)	25.0	.	58	5061 (5670)
WARNER	W-523T	7-23	44 (112)	24.0	.	58	6354 (7120)
MC CURDY	M410	7-23	46 (117)	24.0	.	57	6188 (6930)
PAYMASTER	930	7-24	43 (109)	30.0	.	58	5992 (6710)
SEEDTEC	8503	7-24	43 (109)	21.0	.	57	5065 (5670)
PIONEER BRAND	8790	7-25	42 (107)	21.0	.	59	4830 (5410)
SEEDTEC	9501	7-25	47 (119)	23.0	.	57	5953 (6670)
ASGRW	DCRADC F	7-26	45 (114)	22.0	.	58	5440 (6090)
WARNER	W-501T	7-26	38 (97)	24.0	.	57	5277 (5910)
MC CURDY	M450	7-26	46 (117)	28.0	.	59	5481 (6140)
PIONEER BRAND	8680	7-27	42 (107)	29.0	.	59	5694 (6380)
SIGCC	50YG	7-27	47 (119)	31.0	.	57	5940 (6650)
FUNK'S	G-421	7-27	43 (109)	28.0	.	56	4880 (5460)
WARNER	W-551A	7-28	43 (122)	22.0	.	56	5016 (5620)
DEKALB	X-55J	7-29	43 (122)	33.0	.	59	6303 (7060)
CARGILL	30	7-29	43 (109)	32.0	.	56	5201 (5820)
WARNER	W-560T	7-29	42 (107)	24.0	.	58	5589 (6260)
DEKALB	DK-39Y	8- 1	46 (117)	33.0	.	55	4521 (5060)
PAYMASTER	1022	8- 1	46 (117)	33.0	.	58	5971 (6690)
CARGILL	40	8- 1	45 (114)	32.0	.	58	5769 (6460)
CENEX	310T	8- 2	43 (122)	33.0	.	58	5867 (6570)
ASGRW	MESA	8- 3	44 (112)	30.0	.	59	5652 (6330)
WESTERN	WS-212	8- 3	48 (122)	32.0	.	57	6033 (6760)
FUNKS	HW5383	8- 4	41 (104)	30.0	.	56	5170 (5790)
ASGRW	CORRAL	8- 6	50 (127)	30.0	.	56	5291 (5920)
P-A-G	2235	8- 6	46 (117)	33.0	.	56	5171 (5790)
CENEX	230T	8- 6	46 (117)	33.0	.	56	4695 (5260)
MC CURDY	M637	8- 7	39 (99)	33.0	.	53	4486 (5020)
ENTRY AVERAGES		7-28	44	27.8	0	57	5465
LSD (.05)							939
CV - %							10.6
TWO-YEAR							
PIONEER BRAND	8790	7-30	42 (107)	26.0	10	59	5033 (5640)
ASGRW	DCRADC F	7-31	45 (114)	27.0	88	55	5477 (6130)
PIONEER BRAND	8680	8- 1	43 (109)	31.0	15	59	5232 (5860)
SIGCC	50YG	8- 1	46 (117)	32.0	40	56	5911 (6620)
CARGILL	30	8- 3	45 (114)	32.0	95	52	5044 (5650)
ASGRW	CORRAL	8- 5	52 (132)	31.0	88	54	4381 (4910)
CARGILL	40	8- 5	45 (117)	33.0	25	58	5785 (6480)
ASGRW	MESA	8- 6	44 (112)	32.0	13	58	5691 (6370)
ENTRY AVERAGES		8-2	45	30.5	0	56	5319
LSD (.05)							N.S.
CV - %							9.6
THREE-YEAR							
PIONEER BRAND	8790	7-31	43 (109)	26.0	10	59	5115 (5730)
ASGRW	DCRADC F	8- 1	47 (119)	25.0	88	57	5489 (6150)
PIONEER BRAND	8680	8- 2	43 (109)	29.0	15	59	5564 (6230)
SIGCC	50YG	8- 2	47 (119)	30.0	40	58	6078 (6810)
ASGRW	CORRAL	8- 5	53 (135)	28.0	88	56	4759 (5330)
CARGILL	30	8- 5	47 (119)	30.0	95	54	5150 (5770)
CARGILL	40	8- 5	47 (119)	31.0	25	58	5935 (6650)
ENTRY AVERAGES		8-2	47	28.6	0	57	5441
LSD (.05)							395
CV - %							8.2

TABLE 4. (CONTINUED), BERESFORD, SD

BRAND	VARIETY	PLANTS	PLANT	EARLY	STALK	TEST	GRAIN
		50 PCT MO-DAY	HEIGHT IN (CM)	MOIST PCT	LOGDN PCT	WT. LB/BU	YIELD LB/A (KG/HA)
FOUR-YEAR							
ASGROW	CORADO E	8- 2	48 (122)	25.0	88	58	5534 (6200)
CARGILL	30	8- 5	50 (127)	31.0	95	55	5292 (5930)
ASGROW	CCRRAL	8- 6	55 (140)	30.0	88	57	4973 (5570)
CARGILL	40	8- 6	48 (122)	32.0	25	58	5703 (6390)
ENTRY AVERAGES		8-4	50	29.2	0	57	5375
LSD (.05)							N.S.
CV - %							10.7

TABLE 5. 1985 GRAIN SORGHUM PERFORMANCE TRIAL, AREA C1(DRYLAND), JAMES EAGLE FARM, WESSINGTON SPRINGS, JERAULD COUNTY, SOUTH DAKOTA.

BRAND	VARIETY	PLANTS	PLANT	EARLY	STALK	TEST	GRAIN
		50 PCT MO-DAY	HEIGHT IN (CM)	MOIST PCT	LOGDN PCT	WT. LB/BU	YIELD LB/A (KG/HA)
ONE-YEAR							
ASGROW	CORADO E	47 (119)	33.0	.	.	51	3468 (3880)
ASGROW	CORRAL	52 (132)	33.0	.	.	48	3331 (3730)
DEKALB	DK-28	41 (104)	33.0	.	.	54	4337 (4860)
DEKALB	DK-39Y	44 (112)	33.0	.	.	46	2913 (3260)
DEKALB	X-550	52 (132)	33.0	.	.	53	4657 (5210)
PAYMASTER	930	44 (112)	33.0	.	.	52	3912 (4380)
PAYMASTER	1022	47 (119)	33.0	.	.	48	3533 (3960)
P-A-G	2250	41 (104)	33.0	.	.	55	4276 (4790)
P-A-G	3339	47 (119)	33.0	.	.	47	2834 (3170)
P-A-G	2285	48 (122)	33.0	.	.	43	2898 (3250)
PIGNEER BRAND	8790	41 (104)	32.0	.	.	55	4507 (5050)
PIGNEER BRAND	8680	41 (104)	33.0	.	.	53	3573 (4000)
PIGNEER BRAND	8855	43 (109)	33.0	.	.	55	4340 (4860)
SIGCO	50YG	47 (119)	33.0	.	.	52	4512 (5050)
SIGCO	48YG	38 (97)	33.0	.	.	53	4138 (4630)
SIGCC	46YG	46 (117)	33.0	.	.	52	4124 (4620)
CARGILL	30	46 (117)	33.0	.	.	49	3359 (3760)
CARGILL	22	41 (104)	33.0	.	.	51	4049 (4530)
CARGILL	40	47 (119)	33.0	.	.	42	2486 (2780)
WESTERN	WS-203	47 (119)	33.0	.	.	51	4398 (4920)
WESTERN	WS-212	50 (127)	33.0	.	.	47	3446 (3860)
SEEDTEC	8501	47 (119)	33.0	.	.	45	3276 (3670)
SEEDTEC	8502	41 (104)	32.0	.	.	54	4147 (4640)
SEEDTEC	8503	45 (114)	33.0	.	.	54	4965 (5560)
WARNER	W-545T	38 (97)	33.0	.	.	52	4121 (4610)
WARNER	W-501T	38 (97)	33.0	.	.	51	3583 (4010)
WARNER	W-523T	45 (114)	33.0	.	.	52	3748 (4200)
WARNER	W-551A	47 (119)	33.0	.	.	52	4820 (5400)
WARNER	W-560T	45 (114)	33.0	.	.	48	4013 (4490)
FUNK'S	G-251	39 (99)	33.0	.	.	57	4383 (4910)
FUNK'S	HW5883	41 (104)	33.0	.	.	45	2840 (3180)
FUNK'S	G-421	40 (102)	33.0	.	.	46	3119 (3490)
CENEX	228T	48 (122)	33.0	.	.	47	3826 (4280)
CENEX	310T	50 (127)	33.0	.	.	47	3073 (3440)
CENEX	226T	39 (99)	33.0	.	.	52	3920 (4390)
HCEGEMEYER	606	45 (114)	33.0	.	.	55	4403 (4930)
HCEGEMEYER	GT620	44 (112)	33.0	.	.	48	3682 (4120)
ENTRY AVERAGES		44	33.0			50	3811
LSD (.05)							975
CV - %							15.8
TWO-YEAR							
ASGROW	CORADO E	47 (119)	25.0	45		54	3976 (4450)
ASGROW	CORRAL	52 (132)	30.0	55		53	3786 (4240)
DEKALB	DK-28	41 (104)	25.0	50		56	4422 (4950)
DEKALB	DK-39Y	43 (109)	27.0	11		51	3255 (3640)
P-A-G	2250	43 (109)	24.0	15		56	3876 (4340)
PIGNEER BRAND	8790	42 (107)	25.0	7		57	4428 (4960)
PIGNEER BRAND	8680	42 (107)	27.0	13		56	4007 (4490)
PIGNEER BRAND	8855	45 (114)	23.0	20		57	4376 (4900)
SIGCC	50YG	48 (122)	26.0	35		55	4488 (5030)
SIGCO	48YG	43 (109)	25.0	27		55	3833 (4290)
CARGILL	30	45 (114)	27.0	21		53	3863 (4330)
CARGILL	22	42 (107)	24.0	28		55	4210 (4710)
CARGILL	40	47 (119)	28.0	48		50	3264 (3650)
WESTERN	WS-212	51 (130)	24.0	38		53	4263 (4770)
WARNER	W-545T	40 (102)	26.0	11		54	4190 (4690)
CENEX	228T	48 (122)	27.0	23		53	4166 (4670)
ENTRY AVERAGES		45	25.7	27		54	4025
LSD (.05)							N.S.
CV - %							12.3

TABLE 5. (CONTINUED), WESSINGTON SPRINGS, SD

BRAND	VARIETY	PLANTS 50 PCT MG-DAY	PLANT HEIGHT IN (CM)	EARLY MOIST PCT	STALK LGDGN PCT	TEST WT. LB/BU	GRAIN YIELD LB/A (KG/HA)
THREE-YEAR							
ASGRON	CCRADC E	46	(117)	28.0	45	55	3727 (4170)
ASGRON	CCRAL	50	(127)	31.0	55	54	3639 (4070)
DEKALB	DK-28	40	(102)	27.0	50	57	4228 (4730)
DEKALB	DK-39Y	42	(107)	29.0	11	53	3140 (3520)
P-A-G	2250	42	(107)	27.0	15	56	3591 (4020)
SIGCO	50YG	47	(119)	28.0	35	56	4213 (4720)
CARGILL	30	46	(117)	29.0	21	55	3708 (4150)
CARGILL	22	42	(107)	26.0	28	56	3805 (4260)
CARGILL	40	45	(114)	30.0	48	53	3311 (3710)
WESTERN	WS-212	49	(124)	27.0	38	54	4049 (4530)
CENEX	228T	47	(119)	29.0	23	55	3907 (4380)
ENTRY AVERAGES			45	28.2	33	55	3756
LSD (.05)							N.S.
CV - %							10.9

TABLE 6. 1985 GRAIN SORGHUM PERFORMANCE TRIAL, AREA C2, JOHN BIDDLE FARM, GEDDES, CHARLES MIX COUNTY, SOUTH DAKOTA.

BRAND	VARIETY	PLANTS 50 PCT MG-DAY	PLANT HEIGHT IN (CM)	EARLY MOIST PCT	STALK LGDGN PCT	TEST WT. LB/BU	GRAIN YIELD LB/A (KG/HA)
ONE-YEAR:							
ASGRON	CCRADC E	38	(97)	21.0	.	59	6325 (7080)
ASGRON	CCRAL	43	(109)	27.0	.	58	6557 (7340)
ASGRON	MESA	42	(107)	26.0	.	59	6360 (7120)
DEKALB	DK-28	38	(97)	20.0	.	59	4686 (5250)
DEKALB	DK-39Y	42	(107)	33.0	.	58	5415 (6060)
DEKALB	X-55C	46	(117)	28.0	.	58	6109 (6840)
DEKALB	X-538	43	(109)	22.0	.	59	5589 (6260)
NORTRUP KING	NK BRAND 2630	40	(102)	22.0	.	58	5099 (5710)
NORTRUP KING	NK BRAND 2244	43	(109)	25.0	.	58	6467 (7240)
PAYMASTER	930	39	(95)	32.0	.	58	5073 (5680)
PAYMASTER	1022	42	(107)	26.0	.	57	6199 (6940)
P-A-G	2250	39	(99)	18.0	.	57	4520 (5060)
P-A-G	3339	42	(107)	31.0	.	58	5386 (6030)
P-A-G	2235	43	(109)	33.0	.	56	5667 (6350)
PICNEER BRAND	8790	38	(97)	20.0	.	58	4295 (4810)
PICNEER BRAND	8680	42	(107)	22.0	.	59	5518 (6180)
PICNEER BRAND	8855	40	(102)	18.0	.	58	4221 (4730)
SIGCO	50YG	43	(109)	22.0	.	59	6204 (6950)
SIGCO	48YG	36	(91)	22.0	.	60	5835 (6530)
SIGCO	46YG	42	(107)	19.0	.	57	6570 (7360)
CARGILL	30	41	(104)	22.0	.	57	5596 (6270)
CARGILL	22	39	(99)	23.0	.	59	5363 (6010)
CARGILL	40	42	(107)	31.0	.	56	5466 (6120)
WESTERN	WS-203	43	(109)	22.0	.	59	5938 (6650)
WESTERN	WS-212	46	(117)	26.0	.	57	6068 (6790)
SEECTEC	8501	44	(112)	22.0	.	56	6160 (6900)
SEECTEC	8502	43	(109)	29.0	.	59	5634 (6310)
SEECTEC	8503	41	(104)	27.0	.	58	7063 (7910)
WARNER	W-545T	41	(104)	31.0	.	59	5607 (6280)
WARNER	W-501T	38	(97)	24.0	.	59	5590 (6260)
WARNER	W-523T	40	(102)	21.0	.	58	4700 (5260)
WARNER	W-551A	42	(107)	24.0	.	57	6601 (7390)
WARNER	W-560T	41	(104)	26.0	.	57	6184 (6920)
FUNK'S	G-251	38	(97)	18.0	.	58	4044 (4530)
FLNKS	HW5883	41	(104)	26.0	.	58	5650 (6330)
FLNKS	G-421	38	(97)	27.0	.	56	5137 (5750)
CENEX	310T	45	(114)	30.0	.	58	6485 (7260)
CENEX	230T	43	(109)	27.0	.	58	6260 (7010)
CENEX	226T	40	(102)	24.0	.	60	5850 (6550)
MC CURDY	M410	44	(112)	31.0	.	57	6724 (7530)
MC CURDY	M450	43	(109)	23.0	.	59	6127 (6860)
MC CURDY	M51 YG	43	(109)	33.0	.	52	3544 (3970)
KELTGEN	KG 57T	35	(99)	20.0	.	59	5372 (6020)
KELTGEN	KG 63T	47	(119)	22.0	.	58	6528 (7310)
ENTRY AVERAGES			42	26.3		58	5677
LSD (.05)							977
CV - %							10.6

TABLE 6. (CONTINUED), GEDDES, SD

BRAND	VARIETY	PLANTS 50 PCT MO-DAY	PLANT HEIGHT IN (CM)	EARLY MOIST PCT	STALK LODGN PCT	TEST WT. LB/BU	GRAIN YIELD LB/A (KG/HA)
TWO-YEAR							
ASGROW	CORRAL	48 (122)	28.0	.	58	5517 (6180)	
DEKALB	DK-28	39 (99)	22.0	.	59	4093 (4580)	
DEKALB	DK-39Y	43 (109)	24.0	.	58	4595 (5150)	
NORTHROP KING	NK BRAND 2030	42 (107)	26.0	.	58	4482 (5020)	
NORTHROP KING	NK BRAND 2244	45 (114)	27.0	.	57	5049 (5650)	
PAYMASTER	930	44 (112)	30.0	.	58	4646 (5200)	
PAYMASTER	1022	44 (112)	28.0	.	57	5318 (5960)	
P-A-G	3339	47 (119)	30.0	.	58	4472 (5010)	
PIIONEER BRAND	8790	41 (104)	22.0	.	57	3841 (4300)	
PIIONEER BRAND	8680	42 (107)	25.0	.	57	4848 (5430)	
SIGCC	50YG	44 (112)	25.0	.	59	5326 (5960)	
SIGCC	48YG	33 (97)	17.0	.	59	4872 (5460)	
CARGILL	30	42 (107)	18.0	.	57	5093 (5700)	
CARGILL	22	40 (102)	24.0	.	58	4396 (4920)	
CARGILL	40	45 (114)	30.0	.	58	4754 (5320)	
WARNER	W-545T	40 (102)	29.0	.	58	4758 (5330)	
FUNKS	FW5883	41 (104)	26.0	.	58	4955 (5550)	
CENEX	310T	49 (124)	29.0	.	59	5664 (6340)	
CENEX	230T	44 (112)	19.0	.	57	4976 (5570)	
ENTRY AVERAGES		43	25.1		58	4823	
LSD (.05)						256	
CV - %						7.6	
THREE-YEAR							
ASGROW	CORRAL	49 (124)	29.0	.	58	5099 (5710)	
DEKALB	DK-2P	40 (102)	24.0	5	59	4032 (4510)	
DEKALB	DK-39Y	43 (109)	26.0	.	58	4433 (4960)	
NORTHROP KING	NK BRAND 2244	46 (117)	29.0	.	57	4988 (5590)	
P-A-G	3339	47 (119)	30.0	.	57	4360 (4880)	
PIONEER BRAND	8790	42 (107)	24.0	.	58	3757 (4210)	
PIONEER BRAND	8680	42 (107)	27.0	.	57	4681 (5240)	
SIGCC	50YG	45 (114)	28.0	.	59	5119 (5730)	
SIGCC	48YG	39 (99)	22.0	.	59	4656 (5210)	
CARGILL	30	43 (109)	22.0	.	56	4489 (5030)	
CARGILL	22	42 (107)	25.0	.	58	4210 (4710)	
CARGILL	40	45 (114)	30.0	.	57	4636 (5190)	
CENEX	310T	49 (124)	30.0	.	58	5165 (5780)	
CENEX	230T	45 (114)	23.0	.	58	5027 (5630)	
ENTRY AVERAGES		44	26.3		58	4618	
LSD (.05)						238	
CV - %						9.1	
FOUR-YEAR							
ASGROW	CORRAL	48 (122)	29.0	10	58	4968 (5560)	
DEKALB	DK-28	40 (102)	23.0	3	59	4112 (4600)	
DEKALB	DK-39Y	41 (104)	27.0	.	58	4288 (4800)	
SIGCC	50YG	44 (112)	28.0	12	58	4971 (5570)	
SIGCC	48YG	38 (97)	21.0	2	58	4545 (5090)	
CARGILL	30	42 (107)	23.0	3	57	4474 (5010)	
CARGILL	22	41 (104)	24.0	2	58	4198 (4700)	
CARGILL	40	44 (112)	29.0	4	58	4493 (5030)	
CENEX	310T	48 (122)	28.0	13	59	5217 (5840)	
ENTRY AVERAGES		43	25.8	6	58	4585	
LSD (.05)						209	
CV - %						7.7	

TABLE 7. 1985 GRAIN SORGHUM PERFORMANCE TRIAL, AREA D3, PLANT SCIENCE FARM, BROOKINGS, BROOKINGS COUNTY, SOUTH DAKOTA.

BRAND	VARIETY	PLANTS 50 PCT MO-DAY	PLANT HEIGHT IN (CM)	EARLY MOIST PCT	STALK LODGN PCT	TEST WT. LB/RU	GRAIN YIELD LB/A (KG/HA)
ONE-YEAR							
DEKALB	DK-18	8- 1	44 (112)	33.0	.	51	2660 (2980)
FUNK'S	G-251	8- 1	40 (102)	33.0	.	52	2503 (2800)
DEKALB	DK-28	8- 3	38 (97)	33.0	.	51	3569 (4000)
PIONEER BRAND	8855	8- 4	42 (107)	33.0	.	50	2853 (3190)
PIONEER BRAND	8790	9- 5	44 (112)	33.0	.	51	2647 (2960)
WESTERN	WS-203	9- 5	44 (112)	33.0	.	50	3217 (3600)
SEEDTEC	8502	9- 5	42 (107)	33.0	.	50	2304 (2580)
SEEDTEC	8503	9- 5	42 (107)	33.0	.	52	3624 (4060)
CARGILL	22	9- 7	41 (104)	33.0	.	48	2255 (2530)
WARNER	W-523T	9- 7	42 (107)	33.0	.	49	2207 (2470)
SIGCO	48YG	8- 8	35 (89)	33.0	.	49	3057 (3420)
SEEDTEC	8501	8- 8	45 (114)	33.0	.	48	3598 (4030)
WARNER	W-545T	8- 8	37 (94)	33.0	.	47	2970 (3330)
HUEGEMEYER	606	8- 9	45 (114)	33.0	.	48	2426 (2720)
SIGCO	46YG	8- 9	44 (112)	33.0	.	50	3381 (3790)
WARNER	W-551A	9- 9	44 (112)	33.0	.	50	3146 (3520)
WARNER	W-501T	9-10	34 (86)	33.0	.	47	2223 (2490)
PIONEER BRAND	8630	8-12	39 (99)	33.0	.	48	1986 (2220)
SIGCO	50YG	8-12	46 (117)	33.0	.	47	2066 (2310)
FUNK'S	G-421	8-12	38 (97)	33.0	.	46	2063 (2310)
CARGILL	30	8-14	44 (112)	33.0	.	45	1663 (1860)
WARNER	W-560T	8-14	43 (109)	33.0	.	48	2365 (2650)
FUNK'S	HW5883	8-14	39 (99)	33.0	.	49	2273 (2550)
HUEGEMEYER	GT620	8-14	42 (107)	33.0	.	45	1904 (2130)
ASGRON	CORRAL	8-16	43 (122)	33.0	.	48	1585 (1770)
CARGILL	40	8-16	44 (112)	33.0	.	42	751 (940)
ENTRY AVERAGES		8-9	41	33.4		48	2511
LSD (.05)							670
CV - %							16.4
TWO-YEAR							
DEKALB	DK-18	8- 1	44 (112)	26.0	.	54	3711 (4160)
DEKALB	DK-28	8- 4	38 (97)	27.0	.	54	3962 (4440)
PIONEER BRAND	8790	8- 6	44 (112)	32.0	.	54	3423 (3830)
WARNER	W-545T	8- 8	37 (94)	31.0	.	51	3501 (3920)
SIGCO	48YG	8- 9	35 (89)	30.0	.	52	3832 (4290)
CARGILL	22	9-11	41 (104)	28.0	.	51	2563 (2870)
PIONEER BRAND	8630	8-13	39 (99)	33.0	.	51	2338 (2620)
SIGCO	50YG	8-13	46 (117)	32.0	.	50	2256 (2530)
CARGILL	30	8-13	44 (112)	32.0	.	46	1408 (1580)
CARGILL	40	8-15	44 (112)	33.0	.	48	1284 (1440)
ENTRY AVERAGES		8-9	41	30.4		51	2827
LSD (.05)							546
CV - %							18.1
THREE-YEAR							
DEKALB	DK-18	8- 1	45 (114)	29.0	.	54	3605 (4040)
DEKALB	DK-28	8- 5	40 (102)	29.0	.	53	3786 (4240)
WARNER	W-545T	8- 9	38 (97)	32.0	.	50	3457 (3870)
CARGILL	22	8-10	43 (109)	30.0	.	50	2602 (2910)
SIGCO	50YG	8-12	47 (119)	32.0	.	51	2638 (2950)
CARGILL	30	8-14	43 (122)	32.0	.	46	1712 (1920)
CARGILL	40	8-15	46 (117)	33.0	.	45	1586 (1780)
ENTRY AVERAGES		8-9	44	30.9		50	2769
LSD (.05)							494
CV - %							20.0

TABLE 8. 1985 GRAIN SORGHUM PERFORMANCE TRIAL, AREA B3, HARLAN HALVERSON FARM, KENNEBEC, LYMAN COUNTY, SOUTH DAKOTA.

BRAND	VARIETY	PLANTS 50 PCT MO-DAY	PLANT HEIGHT IN (CM)	EARLY MOIST PCT	STALK LOGDN PCT	TEST WT. LB/BU	GRAIN YIELD LB/A (KG/HA)
ONE-YEAR							
DEKALB	DK-28		38 (97)	33.0	.	50	2534 (2840)
DEKALB	DK-18		40 (102)	33.0	.	46	2059 (2310)
NCRTHRUP KING	NK BRAND 1210		38 (97)	33.0	.	51	2488 (2790)
PAYMASTER	930		40 (102)	33.0	.	45	2011 (2250)
PAYMASTER	1022		43 (109)	33.0	.	41	1418 (1590)
P-A-G	2250		39 (99)	33.0	.	47	2254 (2520)
P-A-G	2285		43 (109)	33.0	.	37	1148 (1290)
PICNEER BRAND	894		39 (95)	33.0	.	51	2404 (2690)
PICNEER BRAND	8790		41 (104)	33.0	.	50	2085 (2330)
PICNEER BRAND	8855		42 (107)	33.0	.	47	2200 (2460)
SIGCO	50YG		44 (112)	33.0	.	43	1908 (2140)
SIGCO	48YG		38 (97)	33.0	.	46	2055 (2300)
SIGCO	46YG		43 (109)	33.0	.	44	2480 (2780)
CARGILL	30		42 (107)	33.0	.	39	1638 (1830)
CARGILL	22		39 (95)	33.0	.	48	2208 (2470)
CARGILL	40		41 (104)	33.0	.	32	179 (200)
WESTERN	WS-203		42 (107)	33.0	.	43	1743 (1950)
SEEDTEC	8501		44 (112)	33.0	.	46	2502 (2800)
SEEDTEC	8502		40 (102)	33.0	.	51	2163 (2420)
SEEDTEC	8503		40 (102)	33.0	.	47	2658 (2980)
FUNK'S	G-251		39 (99)	33.0	.	50	2437 (2730)
FUNK'S	Hw5883		37 (94)	33.0	.	38	863 (970)
FUNK'S	G-421		39 (99)	33.0	.	40	1437 (1610)
CENEX	224T		39 (99)	33.0	.	43	2050 (2300)
CENEX	223T		45 (114)	33.0	.	45	1827 (2050)
CENEX	226T		36 (91)	33.0	.	48	2169 (2430)
KELTGEN	KG 57T		38 (97)	33.0	.	49	2379 (2660)
KELTGEN	KG 63T		44 (112)	33.0	.	32	356 (400)
ENTRY AVERAGES			41	33.+		44	1916
LSD (.05)							474
CV - %							15.8
TWO-YEAR							
DEKALB	DK-28		38 (97)	30.0	.	54	3178 (3560)
DEKALB	DK-18		40 (102)	30.0	10	52	3293 (3690)
NCRTHRUP KING	NK BRAND 1210		40 (102)	31.0	.	54	3236 (3620)
PICNEER BRAND	894		38 (97)	28.0	.	55	3359 (3760)
PICNEER BRAND	8790		41 (104)	30.0	.	54	2965 (3320)
PICNEER BRAND	8855		42 (107)	30.0	.	53	3313 (3710)
SIGCO	50YG		45 (114)	32.0	.	49	3055 (3420)
SIGCO	48YG		39 (99)	32.0	.	51	3286 (3680)
CARGILL	30		42 (107)	32.0	.	47	2230 (2500)
CARGILL	22		40 (102)	30.0	.	53	3049 (3410)
CARGILL	40		41 (104)	33.0	.	42	1136 (1270)
FUNK'S	G-251		38 (97)	29.0	.	55	3176 (3560)
FUNK'S	Hw5883		39 (99)	33.0	.	47	2247 (2520)
CENEX	224T		39 (99)	31.0	.	50	3112 (3480)
CENEX	223T		45 (114)	32.0	10	51	2852 (3190)
ENTRY AVERAGES			40	30.9		51	2899
LSD (.05)							265
CV - %							11.3
THREE-YEAR							
DEKALB	DK-28		37 (94)	31.0	.	56	2775 (3110)
DEKALB	DK-18		40 (102)	28.0	10	54	2829 (3170)
NCRTHRUP KING	NK BRAND 1210		39 (99)	30.0	.	56	2895 (3240)
PICNEER BRAND	894		37 (94)	28.0	.	56	2735 (3060)
PICNEER BRAND	8790		39 (99)	29.0	.	56	2556 (2860)
PICNEER BRAND	8855		40 (102)	31.0	.	55	2712 (3040)
SIGCO	50YG		42 (107)	32.0	.	52	2711 (3040)
SIGCO	48YG		37 (94)	33.0	.	53	2911 (3260)
FUNK'S	G-251		37 (94)	29.0	.	56	2688 (3010)
CENEX	224T		37 (94)	32.0	.	53	2776 (3110)
CENEX	228T		43 (109)	32.0	10	53	2539 (2840)
ENTRY AVERAGES			39	30.3		54	2738
LSD (.05)							N.S.
CV - %							10.0

TABLE 8. (CONTINUED), KENNEBEC, SD

BRAND	VARIETY	PLANTS 50 PCT MO-DAY	PLANT HEIGHT IN (CM)	EARLY MOIST PCT	STALK LDDGN PCT	TEST WT. LB/BU	GRAIN YIELD LB/A (KG/HA)
FOUR-YEAR							
DEKALB	DK-23		38 (97)	31.0	.	53	2790 (3120)
DEKALB	DK-18		40 (102)	28.0	10	54	2913 (3260)
NORTHROP KING	NK BRAND 1210		40 (102)	31.0	.	55	2794 (3130)
SIGCC	50YG		43 (109)	32.0	4	51	2647 (2960)
SIGCC	48YG		38 (97)	33.0	.	52	2719 (3040)
FUNK'S	G-251		37 (94)	29.0	.	54	2587 (2900)
CENEX	224T		38 (97)	32.0	5	51	2661 (2980)
CENEX	228T		43 (109)	32.0	10	51	2252 (2520)
ENTRY AVERAGES			40	30.9		53	2670
LSD (.05)							N.S.
CV - %							11.7

TABLE 9. 1985 GRAIN SORGHUM PERFORMANCE TRIAL, AREA C1 (IRRIGATED), JAMES VALLEY RESEARCH CENTER, REDFIELD, SPINK COUNTY, SOUTH DAKOTA

BRAND	VARIETY	PLANTS 50 PCT MO-DAY	PLANT HEIGHT IN (CM)	EARLY MOIST PCT	STALK LDDGN PCT	TEST WT. LB/BU	GRAIN YIELD LB/A (KG/HA)
ONE-YEAR							
NORTHROP KING	NK BRAND 1210	8- 4	45 (114)	33.0	.	55	4554 (5100)
PIONEER BRAND	8855	8- 4	45 (114)	33.0	.	57	4315 (4830)
DEKALB	DK-18	8- 5	46 (117)	33.0	.	55	4119 (4610)
FUNK'S	G-251	8- 5	39 (99)	33.0	.	55	3720 (4170)
PIONEER BRAND	8790	8- 7	45 (114)	33.0	.	56	4132 (4630)
P-A-G	2250	8- 9	42 (107)	33.0	.	51	2950 (3300)
SEEDTEC	8503	8- 9	43 (109)	33.0	.	52	4169 (4670)
WESTERN	WS-203	8-10	47 (119)	33.0	.	52	3130 (3500)
WARNER	W-545T	8-10	41 (104)	33.0	.	52	3775 (4230)
CARGILL	22	8-11	43 (109)	33.0	.	53	3379 (3780)
WARNER	W-551A	8-12	48 (122)	33.0	.	51	4005 (4480)
SEEDTEC	8501	8-13	47 (119)	33.0	.	51	3625 (4060)
DEKALB	DK-38	8-14	53 (135)	33.0	.	49	2901 (3250)
PAYMASTER	930	8-14	46 (117)	33.0	.	51	2753 (3080)
WARNER	W-523T	8-14	43 (109)	33.0	.	49	2928 (3280)
SIGCC	50YG	8-15	50 (127)	33.0	.	52	3449 (3860)
SEEDTEC	8502	8-15	42 (107)	33.0	.	49	2452 (2750)
WARNER	W-501T	8-15	38 (97)	33.0	.	47	2850 (3190)
CARGILL	30	8-16	47 (119)	33.0	.	47	2422 (2710)
PAYMASTER	1022	8-18	48 (122)	33.0	.	46	2195 (2460)
WARNER	W-560T	8-18	44 (112)	33.0	.	47	2354 (2640)
FUNK'S	HW5883	8-19	42 (107)	33.0	.	48	1818 (2040)
FUNK'S	G-421	8-19	42 (107)	33.0	.	47	1801 (2020)
ASGROW	CORRAL	8-22	52 (132)	33.0	.	45	1557 (1740)
ASGROW	MESA	8-24	48 (122)	33.0	.	47	1643 (1840)
CARGILL	40	8-25	45 (117)	33.0	.	46	787 (880)
ENTRY AVERAGES		8-13	45	33.+		50	2970
LSD (.05)							810
CV - %							16.7

TABLE 9. (CONTINUED), REDFIELD, SD

BRAND	VARIETY	PLANTS 50 PCT MG-DAY	PLANT HEIGHT IN (CM)	EARLY MUIST PCT	STALK LCDGN PCT	TEST WT. LB/BU	GRAIN YIELD LB/A (KG/HA)
TWO-YEAR							
PIONEER BRAND	8855	8- 3	45 (114)	32.0	22	58	4575 (5570)
FUNK'S	G-251	8- 3	39 (99)	31.0	5	57	4360 (4880)
DEKALB	DK-18	8- 4	47 (119)	33.0	80	56	4823 (5400)
NORTHRUP KING	NK BRAND 1210	8- 4	44 (112)	32.0	10	56	5007 (5610)
PIONEER BRAND	8790	8- 6	44 (112)	33.0	10	57	4765 (5340)
P-A-G	2250	8- 8	43 (109)	33.0	8	53	3911 (4380)
CARGILL	22	8-10	43 (109)	33.0	35	54	3824 (4280)
DEKALB	DK-38	8-11	55 (140)	33.0	87	52	4062 (4550)
PAYMASTER	530	8-11	48 (122)	33.0	22	54	3967 (4440)
SIGCC	50YG	8-13	50 (127)	33.0	45	54	4562 (5110)
CARGILL	30	8-14	47 (119)	33.0	43	50	3609 (4040)
FUNKS	Hw5885	8-14	42 (107)	33.0	5	52	3683 (4120)
PAYMASTER	1022	8-16	51 (130)	33.0	40	50	3600 (4030)
CARGILL	40	8-20	49 (124)	33.0	15	48	2576 (2880)
ENTRY AVERAGES		8-9	46	32.7	30	53	4123
LSD (.05)							N.S.
CV - %							15.7
THREE-YEAR							
PIONEER BRAND	8855	8- 3	44 (112)	28.0	22	58	5704 (6390)
DEKALB	DK-18	8- 4	45 (117)	28.0	30	56	5400 (6050)
NORTHRUP KING	NK BRAND 1210	8- 4	43 (109)	28.0	10	57	5738 (6430)
PIONEER BRAND	8790	8- 6	44 (112)	28.0	10	57	5629 (6300)
P-A-G	2250	8- 8	43 (109)	28.0	8	54	4464 (5000)
CARGILL	22	8-10	43 (109)	28.0	35	55	5153 (5770)
DEKALB	DK-38	8-11	53 (135)	28.0	87	53	5447 (6100)
SIGCC	50YG	8-13	50 (127)	28.0	45	55	5236 (5860)
CARGILL	30	8-14	48 (122)	29.0	43	53	4973 (5570)
CARGILL	40	8-20	48 (122)	29.0	15	51	4262 (4770)
ENTRY AVERAGES		8-9	46	28.2	35	55	5200
LSD (.05)							N.S.
CV - %							15.8
FOUR-YEAR							
DEKALB	DK-18	8- 5	46 (117)	29.0	80	57	5407 (6050)
P-A-G	2250	8-10	43 (109)	29.0	8	55	4386 (4910)
DEKALB	DK-38	8-12	53 (135)	30.0	87	54	5432 (6080)
CARGILL	22	8-12	42 (107)	29.0	35	55	4855 (5440)
SIGCC	50YG	8-14	50 (127)	30.0	45	55	5059 (5670)
CARGILL	30	8-16	48 (122)	30.0	43	53	4460 (4990)
CARGILL	40	8-20	48 (122)	30.0	15	52	4156 (4650)
ENTRY AVERAGES		8-12	47	29.5	44	54	4822
LSD (.05)							N.S.
CV - %							17.1

Table 10. Entries Included in the 1985 Grain Sorghum Trials and Tables Where Results Appear.

Company and Brand	Entry	Tables	Company and Brand	Entry	Tables
Asgrow Seed Company 7000 Portage Road Kalamazoo, MI 49001 "Asgrow"	Corral Dorado E Mesa	4,5,6,7,9 4,5,6 4,6,9	McCurdy Seed Co. PO Box 66 Fremont, IA 52561 "McCurdy"	M51 YG M410 M450 M687	6 4,6 4,6 4
Cargill Seeds PO Box 5645 Minneapolis, MN 55440 "Cargill"	22 30 40	5,6,7,8,9 4,5,6,7,8,9 4,5,6,7,8,9	Northrup King Co. 1754 Park Blvd. Fargo, ND 58103 "Northrup King"	NK 1210 NK 2030 NK 2244	8,9 6 6
Cenex Box 64089 St. Paul, MN 55164 "Cenex"	224 226 228 230 310	8 5,6,8 5,8 4,6 4,5,6	PAG Seeds PO Box 9480 Minneapolis MN 55440 "PAG"	2250 2285 3339	4,5,6,8,9 4,5,6,8 5,6
DeKalb-Pfizer Genetics Rt. 1, Box 225 Glensvil, NB 68941 "DeKalb"	DK-18 DK-28 DK-38 DK-39Y X-538 X-550	8,9 5,6,7,8 9 4,5,6 5,6 6	Paymaster Seed PO Box 9493 Minneapolis, MN 55440 "Paymaster"	930 1022	4,5,6,8,9 4,5,6,8,9
Funk Seeds, Int. 1301 E. 50th Lubbock, TX 79404 "Funk's"	G-251 G-421 HW5883	4,5,6,7,8,9 4,5,6,7,8,9 4,5,6,7,8,9	Pioneer Hi-Bred, Int. 7000 Pioneer Parkway Johnston, IA 50131 "Pioneer"	894 8680 8790 8855	8 4,5,6,7 4,5,6,7,8,9 4,5,6,7,8,9
Hoegemeyer Hybrids RR 2 Hooper, NE 68031 "Hoegemeyer"	606 GT620	5,7 5	Sigco Research Box 289 Breckenridge, MN 56520 "Sigco"	48YG 48YG 50YG	5,6,7,8 5,6,7,8 4,5,6,7,8,9
Keltgen Seed Co. Box A Olivia, MN 56277 "Keltgen"	KG 57T KG 63T	6,8 6,8	Warner Seed Co. PO Box 1448 Hereford, TX 79045 "Warner"	W-501T W-523T W-545T W-551T W-560Y	4,5,6,7,9 4,5,6,7,9 4,5,6,7,9 4,5,6,7,9 4,5,6,7,9
			Western SeedTec PO Box 1230 Huron, SD 57350 "Western SeedTec"	WS-203 WS-212 ST8501 ST8502 ST8503	4,5,6,7,8,9 4,5,6 4,5,6,7,8,9 4,5,6,7,8,9 4,5,6,7,8,9