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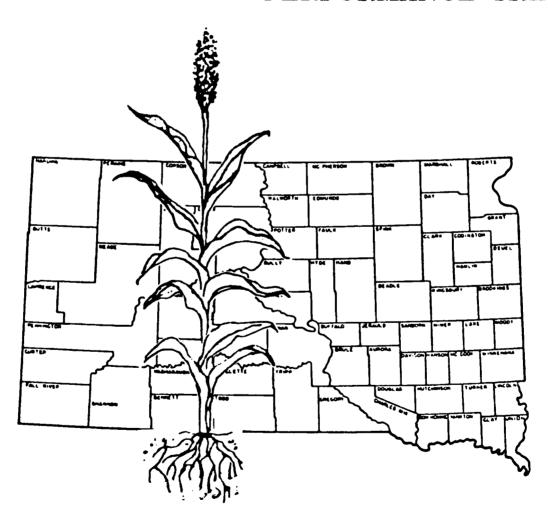
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1988 SOUTH DAKOTA GRAIN SORGHUM PERFORMANCE TRIALS



PLANT SCIENCE DEPARTMENT AGRICULTURAL EXPERIMENT STATION SOUTH DAKOTA STATE UNIVERSITY

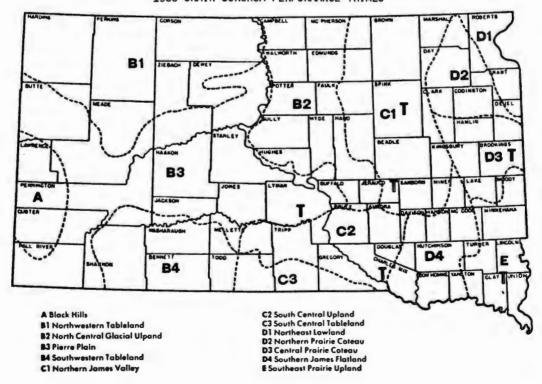
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CROP ADAPTATION AREAS OF

SOUTH DAKOTA

1983 GRAIN SORGHUM PERFORMANCE TRIALS



1988 GRAIN SORGHUM PERFORMANCE TRIALS

J. J. Bonnemann, Assistant Professor

Plant Science Department Agricultural Experiment Station South Dakota State University Brookings, SD 57007-1096

The relative performance of grain sorghum cultivars grown under similar environmental conditions is evaluated in this report for the 1988 crop season. Performance records of all entries harvested in 1988 and the available two- and three-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 1988 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. The Area D3 trial was moved from Brookings to Aurora in 1987. 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 1988 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 varied in the eastern portion of South Dakota during much of the growing period. Field work began early and ended early. Good moisture was available for germination and stands were generally uniform, Kennebec being the poorest. Growth was good in the early part of the season when above-normal temperatures and ample soil moisture were present. Precipitation was near normal until mid-May in the southern portion of the state, about normal in the south-central until mid-August, and above normal from mid-September to harvest. The remainder of the sorghum growing area was below normal for precipitation until mid-August when near normal amounts were recorded through harvest, aiding in kernel fill of the grain produced. Temperatures averaged from 2-5 degrees above normal in May, 7-9 above normal in June, 1-3 degrees above in July and August and, about 1 degree below normal through September. October was warm and dry permitting rapid, early harvest of many fields. Killing temperatures were not recorded until early October, many hybrids having reached physiological maturity several weeks before a hard freeze. Winds were not a very serious

The assistance of the following individuals is appreciated: Dwayne Beck, Burton Lawrensen, Dale Sorenson, Delbert Robbins, Lucian Edler, and Kevin Kirby; 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, 1988.

		Row	Dates	when
County	Location and Post Office	Spacing	Seeded	Harvested
Brookings	Plant Science Farm, Aurora	30"	May 20	Sept. 27
Charles Mix	John Biddle Farm, Geddes	30"	May 13	Sept. 26
Clay	Southeast Experiment Farm, Beresford	30"	May 16	Sept. 26
Jerauld	James Eagle Farm, Wessington Springs	30"	May 31	Sept. 21
Lyman	Harlan Halverson Farm, Kennebec	30"	May 31	Sept. 23
Spink	James Valley Research Farm, Redfield	30"	May 18	Sept. 23

problem until mid-October so stalk lodging was not a serious harvest concern. Nearly 75 percent of the farmers' fields were harvested by mid-October.

Yields were good to excellent for the climatic conditions that prevailed. Variability was a problem, especially at Kennebec. Warm, friable field conditions favored timely seeding of all trials. Temperatures were above normal most of the 1988 cropping season. The warm weather benefitted timely heading and flowering. Precipitation during August favored kernel fill and the season was advanced enough so that adapted hybrids were physiologically mature by mid-September. The first widespread killing temperatures occurred October 4.

Periods of excessively high temperatures occurred at several sites but did not appear to seriously affect pollination, except at Kennebec. Generally heading was later in the northern portion of the state where cooler temperatures are more common. Heading was completed by August 5.

Hybrid Entry Procedure

Only grain sorghums offered for sale in South Dakota or being produced for 1989 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, 1988 Grain Sorghum Sites.

		Lab	ana	lysis					
County and cro	ор	Org				Field prepa	ratio	ns	
adaptation	Soil	mat	. P	K			pour	nds/	'A
areas	Classification	%	1b	s/A	рН	Methods	N	P	K
Lyman, B3	Pierre Cl	2.7	27	875	6.6	Sweeps in spring	34	18	0
Chas. Mix, C2	Highmore SiCl	2.7	8	285	7.1	Sweeps(corn-'87)	34	18	0
Jerauld, C1 (dry	y)Hou-Pros SiCl	2.7	15	410	6.5	Plowed, corn	34	18	0
Spink,Cl(irr.) Beotia SiCl	3.1	34	625	7.3	Field cult, soys	100	40	0
Brookings, D3	Lamour SiL	3.3	21	185	5.6	Chiseled, chickpeas	34	18	0
Clay, E	Egan SiL	3.3	19	320	6.0	Plowed, soybeans		60	40
Clay, E	Egan SiL	3.3	19	320	6.0	Plowed, soybeans	16	0	0 60

Table 3. Temperature and Precipitation Data for the 1988 Grain Sorghum Performance Trials, South Dakota.

			Mo	onths of	f		
Location	Type of Data	May	June	July	August	Sept.	Total
Brookings	Precip. (inches)	1.54	1.42	1.75	2.94	4.70	12.35
2 NE	Temp. (mean)	61.6	72.4	72.5	70.0	58.5	
	Mean departure	+5.6	+6.8	+1.8	+1.4	-0.2	
	Days 90 F. +	00	07	11	08	00	
Centerville	Precip. (inches)	2.04	1.45	0.83	5.15	4.15	13.62
6 SE	Temp. (mean)	66.0	76.4	75.1	73.0	63.5	
	Mean departure	+5.7	+6.2	+0.2	+0.2	-0.6	
	Days 90 F. +	01	10	15	13	05	
Kennebec	Precip. (inches)	4.21	2.64	0.98	0.55	1.33	9.71
	Temp. (mean)	63.6	78.0	77.9	76.5	63.0	
	Mean departure	+4.7	+8.9	+2.1	+2.1	-0.7	
	Days 90 F. +	01	17	20	22	05	
Pickstown	Precip. (inches)	4.48	2.36	1.96	3.04	4.19	16.03
	Temp. (mean)	64.4	76.6	76.6	75.5	63.5	
	Mean departure	+4.2	+6.4	+0.3	+0.9	-0.6	
	Days 90 F. +	01	14	16	17	03	
Redfield	Precip. (inches)	3.67	1.12	1.25	3.67	3.99	13.70
6 E	Temp. (mean)	63.1	75.5	75.9	72.5	59.5	
	Mean departure	+5.9	+8.7	+2.8	+1.0	-1.2	
	Days 90 F. +	02	16	16	12	02	
Wess. Sprngs	Precip. (inches)	6.08	0.53	1.45	1.69	3.94	13.69
. 0	Temp. (mean)	61.9	76.0	77.0	76.0	63.5	
	Days 90 F. +	00	11	18	17	05	

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 spacing used (30") is 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 applied each time the tensiometer reached 40 cb at the 18-inch depth. Moisture determinations were made from September 12-16, about a week prior to normal first-frost dates. This was 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 usually done as soon as possible after the first frost. Harvest was completed by September 27. The trials were harvested by small-plot combine in 1988 as all plots were mature enough to shell out readily. The harvested samples were returned to Brookings for drying and processing. Yields are reported in pounds per acre (x 1.12 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 70's at Geddes and Redfield, the 60's at Aurora and Centerville, and the 40's at Kennebec and Wessington Springs. Moisture averages ranged from 17 to 21 percent across all trial sites; some later maturity entries were over 30 percent. The quality and test weight of most entries was very good as most entries reached physiological maturity several weeks before a hard freeze. All trials had test weight averages above 58 pounds per bushel.

The seed moisture recorded was obtained about a week before the anticipated first frost was expected. Few entries were above the 35% level, the maximum the electronic moisture meter reads with any accuracy. Very little farm-harvested grain required supplemental drying following harvest in 1988.

Lodging was not a serious problem at any of the locations. Bird damage had been a problem at Brookings so the trial was moved to the Aurora unit. No bird damage was apparent. Trials located within larger fields of cooperators suffered little damage. Though not a serious problem in 1988, 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 1988 and other agronomic data are reported in Table 4 through Table 9. A listing of all entries is presented in Table 10.

Table 4. Grain Sorghum Performance Trials, Area D3, Plant Science Farm, Aurora, Brookings County, South Dakota.

		Headed	Plant	Early	Stalk	Test	Grain
Company/	Hybrid/	50 Pct	Height	Moist	Lodgn	Wt.	Yield
Brand	Variety	Mo-Day	In (cm)	Pct.	Pct.	Lb/Bu	Lb/A (Kg/Ha)
		2.30	1988				
Warner	WX88101	7-20	40 (102)	19.0	1	58	4480 (5020)
ContiSeed	Hasty	7-21	45 (114)	19.0	1	61	5272 (5900)
Warner	WX88102	7-21	35 (89)	20.0	1	55	3969 (4440)
Cargill	X77001	7-22	46 (117)	18.0	1	59	5442 (6090)
Interstate	663	7-22	43 (109)	22.0	1	60	4729 (5300)
SeedTec	WS203	7-22	45 (114)	18.0	1	58	5330 (5970)
Warner	W-523T	7-22	43 (109)	19.0	1	59	4759 (5330)
Warner	W-545T	7-22	38 (97)	19.0	1	57	4800 (5370)
Warner	WX88104	7-22	41 (104)	20.0	1	58	4216 (4720)
Interstate	856	7-23	41 (104)	18.0	1	58	5099 (5710)
ContiSeed	EX 8105	7-24	44 (112)	19.0	1	59	4995 (5590)
ContiSeed	EX 8201	7-27	46 (117)	20.0	1	60	5020 (5620)
Interstate	665	7-28	46 (117)	21.0	1	56	5225 (5850)
SeedTec	ST3101	7-28	45 (114)	20.0	1	57	5761 (6450)
Warner	WX88103	7-28	38 (97)	24.0	1	57	5264 (5890)
Cargill	2285	7-29	38 (97)	29.0	1	58	4897 (5480)
Cargill	1022	7-30	44 (112)	26.0	1	59	5999 (6720)
Cargill	630	7-30	43 (109)	26.0	1	60	5828 (6530)
Cargill	3385	7-31	42 (107)	31.0	1	59	5763 (6450)
Cargill	40	8- 1	40 (102)	33.0	1	57	5640 (6320)
Entry Averages		7-24	42	22.00	1	58	5124
LSD (.05)							483
CV - %							5.9
			1987-1988				
Warner	W-523T	7-25	44 (112)	17.0	1	57	5394 (6040)
Interstate	665	7-29	48 (122)	18.0	1	54	5541 (6200)
Cargill	1022	8- 1	47 (119)	26.0	1	57	5561 (6230)
Cargill	2285	8- 1	41 (104)	28.0	1	56	4249 (4760)
Cargill	3385	8- 3	46 (117)	29.0	1	55	5282 (5910)
Cargill	40	8- 3	45 (114)	28.0	1	55	5048 (5650)
Entry Averages		7-31	45	24.3	1	56	5179
LSD (.05)							1041
CV - %							25.4
			1986-1988				
Warner	W-523T	7-28	45 (114)	22.0	1	E 2	(000 ((570)
Interstate	665	8- 1	48 (122)		1 1	53 51	4082 (4570) 4696 (5260)
Cargill	1022	8- 4	48 (122)		1	53	4401 (4930)
Cargill	2285	8- 4	40 (122)		1	54	3459 (3870)
Caretti	2203	0- 4	41 (104)	50.0	1	54	3439 (36/0)
Entry Averages		8- 1	45	25.7	1	53	4159
LSD (.05)							1002
CV%							29.1
++++++	+++++	+ + + + +	+ + + + +	+ + + +	+ + + +	+ + +	+ + + + + + +

Table 5. Grain Sorghum Performance Trials, Area C2, John Biddle Farm, Geddes, Charles Mix County, South Dakota.

		Plant		Stalk		Grain
Company/	Hybrid/	Height	Moist	Lodgn	Wt.	Yield
Brand	Variety	In (cm)	Pct.	Pct.	Lb/Bu	Lb/A (Kg/Ha
		1988				
AgriPro	AP910G	40 (102)	13.0	1	58	4417 (4950
AgriPro	AP925G	38 (97)	12.0	1	59	4906 (5490
Asgrow	XP2057	36 (91)	12.0	1	59	5246 (5870
Asgrow	XP3137	37 (94)	13.0	1	61	5883 (6590
Asgrow	XP4147	35 (89)	13.0	1	62	5323 (5960
Cargill	X77001	42 (107)	13.0	1	58	5706 (6390
Cargill	1022	39 (99)	12.0	1	61	5711 (6400
Cargill	2285	34 (86)	12.0	1	61	4951 (5540
Cargill	3385	41 (104)	12.0	1	61	5951 (6660
argill	40	37 (94)	12.0	1	59	4583 (5130
Cargill	630	40 (102)	13.0	1	61	5529 (6190
ontiSeed	EX 8105	38 (97)	13.0	1	59	4406 (4930
ontiSeed	EX 8201	42 (107)	12.0	1	61	3993 (4470
ontiSeed	Hasty	42 (107)	12.0	1	60	5216 (5840
ontiSeed	Pronto	40 (102)	13.0	1	61	5298 (5930
ahlgren	DG-27B	39 (99)	11.0	1	59	4745 (5310
anlgren	DG-33B	40 (102)	13.0	1	59	5752 (6440
eKalb	DK-39Y	39 (99)	13.0	1	61	3998 (4480
eKalb	X-638	42 (107)	13.0	1	60	6829 (7650
arst	R5681	39 (99)	12.0	1	61	5119 (5730
arst	5517	38 (97)	14.0	1	61	5738 (6430
Sarst	5613	40 (102)	13.0	1	60	5683 (6360
Interstate	663	39 (99)	13.0	1	61	5218 (5840
interstate	665	42 (107)	12.0	1	58	5121 (5730
Interstate	668	41 (104)	12.0	1	59	4679 (5240
Interstate	856	38 (97)	12.0	1	58	4732 (5300
icCurdy	M410	42 (107)	12.0	1	58	5430 (6080
icCurdy	M450	40 (102)	14.0	1	60	5009 (5610
icCurdy	M689	37 (94)	13.0	1	60	4416 (4940
IC+	155	38 (97)	13.0	1	58	5322 (5960
IC+	55X	39 (99)	13.0	1	60	4671 (5230
lorthrup King	NK 1410	41 (104)	12.0	1	59	5202 (5830
ioneer Brand	8728	37 (94)	13.0	1	61	5101 (5710
ioneer Brand	8791	38 (97)	12.0	1	60	4697 (5260
Pioneer Brand	8855	41 (104)	12.0	1	60	5105 (5720
SeedTec	ST3101	44 (112)	16.0	1	57	5583 (6250
SeedTec	ST3258	41 (104)	13.0	1	61	4865 (5450
SeedTec	ST3308	41 (104)	13.0	1	62	4492 (5030
SeedTec	WS203	40 (102)	12.0	1	60	4856 (5440
SeedTec	652G	40 (102)	13.0	1	59	4952 (5550
Sigco	X1061	36 (91)	12.0	1	58	4482 (5020
Sigco	1070	41 (104)	13.0	1	60	5661 (6340
larner	W-523T	38 (97)	12.0	1	60	4628 (5180
Varner	W-545T	34 (86)	12.0	1	60	4941 (5530
larner	WX88101	35 (89)	12.0	1	59	3995 (4470
larner	WX88102	32 (81)	12.0	1	60	4500 (5040
Varner	WX88103	37 (94)	12.0	1	60	4715 (5280
Varner	WX88104	38 (97)	13.0	1	57	3098 (3470
Entry Averages		39	19.5	1	60	5009
LSD (.05)		37	17.5	1	00	1052
עסם (.ט.)						10.1

13.1

Table 5. (continued), Geddes, SD

Company/	Hybrid/	Plant Height	Early Moist	Stalk Lodgn	Test Wt.	Grain Yield
Brand	Variety	In (cm)	Pct.	Pct	Lb/Bu	Lb/A (Kg/Ha
		1987-1988				
Cargill	1022	42 (107)	18.0	1	60	6106 (6840)
Cargill	2285	40 (102)	17.0	1	59	5187 (5810
Cargill	3385	43 (109)	17.0	1	59	6069 (6800
Cargill	40	41 (104)	18.0	1	59	5489 (6150
DeKalb	DK-39Y	42 (107)	18.0	1	58	4894 (5480
DeKalb	X-638	46 (117)	16.0	ī	58	6867 (7690
Garst	5517	40 (102)	19.0	ī	59	6111 (6840
Garst	5613	45 (114)	18.0	1	59	6100 (6830
Interstate	663	41 (104)	15.0	1	57	5677 (6360
Interstate	665	45 (114)	14.0	1	57	5890 (6600
Interstate	668	43 (109)	15.0	1	58	5336 (5980
McCurdy	M410	45 (114)	15.0	1	57	5915 (6620
McCurdy	M450	44 (112)	17.0	1	58	5683 (6360
McCurdy	M689	41 (104)	20.0	1	59	5791 (6480
NC+	55X	43 (109)	15.0	1	58	5683 (6360
Northrup King	NK 1410	44 (112)	14.0	1	58	5608 (6280
Pioneer Brand	8728	41 (104)	15.0	1	60	5082 (5690
Pioneer Brand	8791	41 (104)	15.0	1	58	5083 (5690
Pioneer Brand	8855	41 (104)	14.0	1	58	5635 (6310
SeedTec	ST3101	46 (117)	16.0	1	55	5927 (6640
SeedTec	ST3308	46 (117)	16.0	1	61	5541 (6200
SeedTec	WS203	43 (109)	15.0	1	57	5702 (6390
SeedTec	652G	43 (109)	17.0	1	58	5797 (6490
Sigco	1070	43 (109)	15.0	1	57	6143 (6880
Warner	W-545T	37 (94)	17.0	1	56	5333 (5970
Entry Averages		38	1939	1	56	5705
LSD (.05) CV - %						205 10.9
		1986-1988				
Cargill	1022	42 (107)	20.0	2	60	5446 (6100
Cargill	2285	40 (102)	18.0	1	59	4691 (5250
DeKalb	DK-39Y	43 (109)	21.0	1	59	5188 (5810
Interstate	663	42 (107)	16.0	1	58	5014 (5610
Interstate	665	45 (114)	16.0	8	57	5447 (6100
Interstate	668	43 (109)	16.0	1	58	4783 (5360
McCurdy	M410	45 (114)	16.0	13	56	4962 (5560
McCurdy	M450	44 (112)	18.0	10	58	4968 (5560
Pioneer Brand	8728	41 (104)	17.0	6	60	4319 (4840
Pioneer Brand	8855	42 (107)	15.0	16	58	4632 (5190
SeedTec	ST3101	47 (119)	17.0	18	55	5263 (5890
Warner	W-545T	38 (97)	17.0	3	56	4584 (5130
Entry Averages		43	17.3	10	58	4941
LSD (.05)						337
CV - %						16.5

Table 6. Grain Sorghum Performance Trials, Area B3, Harlon Halverson Farm, Kennebec, Lyman County, South Dakota.

		Plant	-	Stalk	Test	Grain
	Hybrid/	Height	Moist	Lodgn	Wt.	Yield
Brand	Variety	In (cm)			•	
		1988				
AgriPro	AP910G	42 (107)	18.0	1	56	2927 (3280)
AgriPro	AP925G	42 (107)	20.0	1	58	3735 (4180)
Asgrow	XP2057	33 (84)	25.0	1	62	3143 (3520)
Asgrow	XP3137	33 (84)	28.0	1	63	3982 (4460)
Asgrow	XP4147	33 (84)	24.0	1	63	3260 (3650)
Cargill	X77001	42 (107)	23.0	1	56	3356 (3760)
Cargill	1022	35 (89)	24.0	1	61	2511 (2810)
Cargill	22	39 (99)	20.0	1	57	2528 (2830)
Cargill	2285	34 (86)	21.0	1	59	2859 (3200)
Cargill	3385	31 (79)	22.0	1	63	3045 (3410)
Cargill	630	35 (89)	24.0	1	60	3449 (3860)
ContiSeed	EX 8105	37 (94)	25.0	1	60	3301 (3700)
ContiSeed	EX 8201	35 (89)	25.0	1	61	3583 (4010)
ContiSeed	Hasty	39 (99)	23.0	1	56	2822 (3160)
Dahlgren	DG-27B	39 (99)	20.0	1	55	3008 (3370)
Dahlgren	DG-33B	39 (99)	22.0	1	56	3074 (3440)
DeKalb	DK-18	38 (97)	23.0	1	56	3042 (3410)
DeKalb	DK-28	39 (99)	22.0	1	56	2648 (2970)
DeKalb	P-818	38 (97)	24.0	1	56	2862 (3200)
DeKalb	X-828	37 (94)	22.0	1	56	2520 (2820)
Garst	R5681	39 (99)	24.0	1	58	3306 (3700)
Garst	5715	39 (99)	22.0	1	56	2923 (3270)
Interstate	665	40 (102)	20.0	1	56	3389 (3790)
Interstate	668	38 (97)	22.0	1	59	3123 (3500)
Interstate	856	41 (104)	19.0	1	59	3796 (4250)
McCurdy	M410	40 (102)	19.0	1	56	3188 (3570)
McCurdy	M450	38 (97)	20.0	1	58	2963 (3320)
NC+	155	38 (97)	24.0	1	58	3228 (3610)
NC+	55X	40 (102)	24.0	1	56	3155 (3530)
Northrup King	NK 1410	40 (102)	21.0	1	57	3019 (3380)
Pioneer Brand	8790	37 (94)	19.0	1	58	3467 (3880)
Pioneer Brand	8791	36 (91)	21.0	1	59	4099 (4590)
Pioneer Brand	8855	35 (89)	23.0	1	60	2773 (3110)
Pioneer Brand	894	36 (91)	21.0	1	58	3107 (3480)
SeedTec	ST3103	41 (104)	19.0	1	58	2839 (3180)
SeedTec	WS203	39 (99)	23.0	1	56	3288 (3680)
Sigco	X1061	39 (99)	20.0	1	56	3066 (3430)
Sigco	1070	38 (97)	23.0	1	56	2754 (3080)
Warner	W-523T	40 (102)	22.0	1	59	3315 (3710)
Warner	W-545T	35 (89)	18.0	1	57	3054 (3420)
Warner	WX88101	39 (99)	22.0	1	58	2495 (2790)
Warner	WX88102	33 (84)	21.0	1	55	3141 (3520)
Warner	WX88103	32 (81)	18.0	1	57	2557 (2860)
Warner	WX88104	37 (94)	19.0	1	59	2584 (2890)
Entry Averages		37	21.8	1	58	3097
LSD (.05)						N.S.
CV - %						19.3

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Table 6. (continued), Kennebec, SD

	** 1 . 1 /	Plant	Early		Test	Grain
Company/ Brand	Hybrid/ Variety	Height In (cm)	Moist Pct.	Lodgn Pct	Wt. Lb/Bu	Yield Lb/A (Kg/Ha)
erand	variety	III (CIII)	rct.			LD/A (Rg/IId)
		1987-1988				
AgriPro	AP910G	41 (104)	21.0	1	57	4075 (4560)
Cargill	1022	38 (97)	28.0	1	61	4038 (4520)
Cargill	22	38 (97)	25.0	1	58	3791 (4250)
Cargill	2285	35 (89)	25.0	1	60	3696 (4140
Cargill	3385	36 (91)		1	61	4213 (4720
DeKalb	DK-28	38 (97)	22.0	1	58	3857 (4320
Dekaib	DK 20	30 ()//	22.0	1	30	3037 (4320
Garst	5715	41 (104)	21.0	1	57	4403 (4930)
Interstate	665	42 (107)	23.0	1	56	4101 (4590)
McCurdy	M410	40 (102)	21.0	1	56	4303 (4820)
McCurdy	M450	39 (99)	24.0	1	58	3991 (4470)
NC+	55X	40 (102)	26.0	1	56	4293 (4810
Northrup King	NK 1410	40 (102)	24.0	1	58	4053 (4540
Pioneer Brand	8791	37 (94)	23.0	1	59	4204 (4710
Pioneer Brand	8855	36 (91)	22.0	1	59	3735 (4180
SeedTec	ST3103	40 (102)	22.0	1	59	3909 (4380
SeedTec	WS203	39 (99)		1	57	4322 (4840
Sigco	1070	39 (99)		1	56	4040 (4520
Warner	W-545T	36 (91)		1	57	3947 (4420
Wallot	" 3,31	55 (72)	20.0	-		
Entry Averages		39	23.8	1	58	4054
LSD (.05)						198
CV - %						10.6
		1986-1988				
Cargill	1022	38 (97)	30.0	1	59	3135 (3510
Cargill	2285	36 (91)	27.0	1	59	2838 (3180
DeKalb	DK-28	39 (99)		1		3072 (3440
Pioneer Brand	8855	37 (94)				2912 (3260
SeedTec	ST3103	40 (102)			58	3143 (3520
Warner	W-545T	37 (94)			57	
Entern Assessment		20	26.0	1	F 0	2062
Entry Averages		38	26.8	1	58	3062
LSD (.05)						255 11.9
CV - %						11.7

Table 7. Grain Sorghum Performance Trials, Area C1(dry), James Eagle Farm, Wessington Springs, Jerauld County, South Dakota.

Asgrow XP3137 35 (89) 26.0 1 54 300 Asgrow XP4147 35 (89) 24.0 1 60 337 Cargill X77001 40 (102) 16.0 1 60 396 Cargill 1022 38 (97) 22.0 1 59 431 Cargill 22 38 (97) 16.0 1 58 383 Cargill 3385 38 (97) 24.0 1 58 375 Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	Grain Yield A (Kg/Ha) 1 (3600) 5 (3360) 2 (3780) 4 (4440) 8 (4840) 7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130) 5 (3560)
Total Pet Tota	A (Kg/Ha) 1 (3600) 5 (3360) 2 (3780) 4 (4440) 8 (4840) 7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
1988 Asgrow XP2057 35 (89) 22.0 1 56 323 Asgrow XP3137 35 (89) 26.0 1 54 300 Asgrow XP4147 35 (89) 24.0 1 60 337 Cargill X77001 40 (102) 16.0 1 60 396 Cargill 1022 38 (97) 22.0 1 59 433 Cargill 22 38 (97) 16.0 1 58 383 Cargill 3385 38 (97) 24.0 1 58 375 Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 58 371 DeKalb DK-18 38 (97) 14.0 1 58 371	1 (3600) 5 (3360) 2 (3780) 4 (4440) 8 (4840) 7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
Asgrow XP2057 35 (89) 22.0 1 56 320 Asgrow XP3137 35 (89) 26.0 1 54 300 Asgrow XP4147 35 (89) 24.0 1 60 337 Cargill X77001 40 (102) 16.0 1 60 396 Cargill 1022 38 (97) 22.0 1 59 437 Cargill 22 38 (97) 16.0 1 58 383 Cargill 3385 38 (97) 24.0 1 58 375 Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 196 ContiSeed EX 8201 36 (91) 19.0 1 59 196 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 386 DeKalb DK-18 38 (97) 14.0 1 58 371	5 (3360) 2 (3780) 4 (4440) 8 (4840) 7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
Asgrow XP2057 35 (89) 22.0 1 56 320 Asgrow XP3137 35 (89) 26.0 1 54 300 Asgrow XP4147 35 (89) 24.0 1 60 337 Cargill X77001 40 (102) 16.0 1 60 396 Cargill 1022 38 (97) 22.0 1 59 437 Cargill 22 38 (97) 16.0 1 58 383 Cargill 3385 38 (97) 24.0 1 58 375 Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 196 ContiSeed EX 8201 36 (91) 19.0 1 59 196 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 386 DeKalb DK-18 38 (97) 14.0 1 58 371	5 (3360) 2 (3780) 4 (4440) 8 (4840) 7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
Asgrow XP3137 35 (89) 26.0 1 54 300 Asgrow XP4147 35 (89) 24.0 1 60 337 Cargill X77001 40 (102) 16.0 1 60 396 Cargill 1022 38 (97) 22.0 1 59 431 Cargill 22 38 (97) 16.0 1 58 383 Cargill 3385 38 (97) 24.0 1 58 375 Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	5 (3360) 2 (3780) 4 (4440) 8 (4840) 7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
Asgrow XP4147 35 (89) 24.0 1 60 337 (2111 X77001 40 (102) 16.0 1 60 396 (2111 1022 38 (97) 22.0 1 59 437 (2111 22 38 (97) 16.0 1 58 383 (2111 3385 38 (97) 24.0 1 58 375 (2111 40 37 (94) 29.0 1 51 315 (2111 630 36 (91) 21.0 1 61 338 (2011 630 64) 17.0 1 60 324 (2011 630 64) 17.0 1 60 324 (2011 630 64) 17.0 1 60 324 (2011 64) 17.0 1 60 324 (2	2 (3780) 4 (4440) 8 (4840) 7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
Cargill X77001 40 (102) 16.0 1 60 396 Cargill 1022 38 (97) 22.0 1 59 437 Cargill 22 38 (97) 16.0 1 58 383 Cargill 3385 38 (97) 24.0 1 58 375 Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 DeKalb DK-18 38 (97) 14.0 1 58 371	4 (4440) 8 (4840) 7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
Cargill 1022 38 (97) 22.0 1 59 433 Cargill 22 38 (97) 16.0 1 58 383 Cargill 3385 38 (97) 24.0 1 58 375 Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	8 (4840) 7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
Cargill 22 38 (97) 16.0 1 58 383 Cargill 3385 38 (97) 24.0 1 58 375 Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	7 (4300) 4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
Cargill 3385 38 (97) 24.0 1 58 375 Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 196 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 386 DeKalb DK-18 38 (97) 14.0 1 58 371	4 (4200) 4 (3530) 6 (3790) 6 (3630) 5 (2130)
Cargill 40 37 (94) 29.0 1 51 315 Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	4 (3530) 6 (3790) 6 (3630) 5 (2130)
Cargill 630 36 (91) 21.0 1 61 338 ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	6 (3790) 6 (3630) 5 (2130)
ContiSeed EX 8105 33 (84) 17.0 1 60 324 ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	6 (3630) 5 (2130)
ContiSeed EX 8201 36 (91) 19.0 1 59 190 ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	5 (2130)
ContiSeed Hasty 38 (97) 15.0 1 59 317 Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	
Dahlgren DG-27B 37 (94) 19.0 1 57 324 Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	
Dahlgren DG-33B 32 (81) 14.0 1 59 380 DeKalb DK-18 38 (97) 14.0 1 58 371	5 (3630)
DeKalb DK-18 38 (97) 14.0 1 58 371	0 (4260)
	4 (4160)
·	1 (3580)
DeKalb P-818 36 (91) 13.0 1 58 342	6 (3840)
	5 (4050)
	5 (4220)
	3 (4540)
	9 (4240)
	4 (3970)
Pioneer Brand 894 33 (84) 14.0 1 59 286	2 (3200)
SeedTec ST3101 41 (104) 17.0 1 58 340	4 (3810)
SeedTec ST3308 36 (91) 25.0 1 55 337	8 (3780)
SeedTec WS203 38 (97) 16.0 1 60 362	0 (4050)
Sigco X1061 36 (91) 13.0 1 58 347	6 (3890)
Sigco 1070 35 (89) 16.0 1 59 380	9 (4270)
Entry Averages 36 18.1 1 58 346	5
LSD (.05)	
CV - %	
1987-1988	
	2 (5290)
	7 (4450)
	8 (4810)
	88 (5080)
	4 (3740)
	2 (4690)
	7 (4570)
Sigco 1070 38 (97) 17.0 1 60 383	6 (4340)
Entry Averages 38 19.4 1 58 412	
	75
CV - %	1
1986-1988	
	8 (5370)
	4 (4530)
	3 (5220)
Pioneer Brand 8855 38 (97) 18.0 1 58 376	60 (4210)
Entry Averages 40 20.8 1 58 43	.6
LSD (.05)	1
CV - %	_

Table 8. Grain Sorghum Performance Trials, Area E, Southeast Experiment Farm, Beresford, Clay County, South Dakota.

		Headed	Plant	Early	Stalk	Test	Grain
Company/	Hybrid/	50 Pct	Height	Moist	Lodgn	Wt.	Yield
Brand	Variety	Mo-Day	In (cm)	Pct.	Pct.	Lb/Bu	Lb/A (Kg/Ha)
			1988				
Interstate	856	7-15	39 (99)	15.0	1	59	5371 (6010)
Interstate	665	7-17	41 (104)	15.0	1	59	5831 (6530)
SeedTec	ST3101	7-17	41 (104)	15.0	1	59	5680 (6360)
Cargill	X77001	7-18	39 (99)	15.0	1	61	5355 (6000)
Dahlgren	DG-27B	7-18	40 (102)	15.0	1	60	4953 (5550)
SeedTec	WS203	7-18	42 (107)	16.0	1	62	5520 (6180)
Dahlgren	DG-33B	7-19	39 (99)	16.0	1	61	5291 (5920)
0 111	0005	7.00	0/ / 0/)	17.0		(1	5100 (57/0)
Cargill	2285	7-20	34 (86)	17.0	1	61	5122 (5740)
Interstate	668	7-20	38 (97)	15.0	1	61	5168 (5790)
Cargill	1022	7-21	39 (99)	17.0	1	62	5008 (5610)
Cargill	3385	7-21	41 (104)	17.0	1	62	5917 (6630)
Cargill	630	7-21	40 (102)	18.0	1	62	5776 (6470)
Cargill	40	7-28	39 (99)	24.0	1	61	3964 (4440)
ContiSeed	Silverado	8- 5	37 (94)	27.0	1	60	4179 (4680)
Entry Averages LSD (.05) CV - %		7-20	39	17.3	1	60	5223 513 6.0
			1987-1988				
Interstate	665	7-18	47 (119)	14.0	1	57	6419 (7190)
SeedTec	ST3101	7-18	48 (122)		Ì	57	6510 (7290)
SeedTec	WS203	7-18	48 (122)		1	60	6503 (7280')
Cargill	2285	7-22	41 (104)		1	59	6164 (6900)
Cargill	3385	7-22	46 (117)	21.0	1	60	7068 (7910)
Cargill	40	7-27	45 (114)		1	60	6207 (6950)
Cargill	1022	7-28	46 (117)	17.0	1	61	6645 (7440)
T		7 00	16	17.0	1	50	(500
Entry Averages		7-22	46	17.3	1	59	6502
LSD (.05)							591
CV - %							10.7
			1986-1988				
Interstate	665	7-21	49 (124)	19.0	1	56	5991 (6710)
SeedTec	ST3101	7-21	50 (127)		1	57	6286 (7040)
Cargill	1022	7-29	47 (119)	23.0	1	60	6179 (6920)
Entry Averages LSD (.05) CV - %		7-24	49	20.6	1	58	6152 885 10.4

Table 9. Grain Sorghum Performance Trials, Area C1(irrigated), James Valley Research Center, Redfield, Spink County, South Dakota.

Company/	Hybrid/	Headed 50 Pct	Plant Height	Moist	Stalk Lodgn	Test Wt.	Grain Yield
Brand	Variety	Mo-Day			Pct.	Lb/Bu	Lb/A (Kg/Ha)
			1988				
AgriPro	AP910G	7-16	40 (102)	14.0	1	59	6189 (6930)
Cargill	X77001	7-16	48 (122)	19.0	1	60	6038 (6760)
ContiSeed	Hasty	7-16	44 (112)	18.0	1	62	6712 (7520)
DeKalb	DK-18	7-16	39 (99)	15.0	1	60	5271 (5900)
Interstate	856	7-16	41 (104)	16.0	1	58	6318 (7070)
Warner	WX88104	7-17	42 (107)	16.0	1	57	4751 (5320)
AgriPro	AP925G	7-18	39 (99)	14.0	1	57	5646 (6320)
ContiSeed	EX 8105	7-18	39 (99)	17.0	1	62	6226 (6970)
Warner	W-523T	7-18	42 (107)	17.0	1	60	6280 (7030)
Warner	W-545T	7-18	33 (84)	18.0	1	61	6121 (6850)
Warner	WX88101	7-18	35 (89)	16.0	1	60	5043 (5650)
Dahlgren	DG-27B	7-19	41 (104)	17.0	1	60	6403 (7170)
Interstate	665	7-19	45 (114)	16.0	1	60	6281 (7030)
Warner	WX88102	7-19	36 (91)	16.0	1	58	4290 (4800)
SeedTec	652G	7-20	46 (117)	20.0	1	60	6101 (6830)
Cargill	2285	7-21	39 (99)	21.0	1	59	5917 (6630)
Northrup King	NK 1410	7-21	43 (109)	16.0	1	60	5770 (6460)
Warner	WX88103	7-22	38 (97)	16.0	1	61	4984 (5580)
ContiSeed	EX 8201	7-23	45 (114)	15.0	1	62	6302 (7060)
Cargill	630	7-24	43 (109)	23.0	1	61	6026 (6750)
AgriPro	AP940G	7-25	49 (124)	22.0	1	60	6053 (6780)
Cargill	1022	7-25	42 (107)	23.0	1	62	6886 (7710)
Cargill	3385	7-25	42 (107)	25.0	1	59	6647 (7440)
ContiSeed	Pronto	7-26	46 (117)	24.0	1	62	6746 (7550)
SeedTec	ST3308	7-29	47 (119)	25.0	1	61	6933 (7760)
Cargill	40	7-31	42 (107)	28.0	1	61	6495 (7270)
SeedTec	ST3258	7-31	46 (117)	26.0	1	59	6311 (7070)
Entry Averages		7-20	42	19.0	1	60	6027
LSD (.05)							1157
CV - %							11.8
			1987-1988				
Warner	W-545T	7-21	35 (89)	23.0	1	59	6384 (7150)
Cargill	2285	7-22	39 (99)	25.0	1	60	6193 (6930)
DeKalb	DK-18	7-22	40 (102)	20.0	1	59	5705 (6390)
Interstate	665	7-23	45 (114)	21.0	1	59	6264 (7010)
SeedTec	652G	7-23	47 (119)	25.0	1	60	6405 (7170)
Cargill	1022	7-24	44 (112)	26.0	1	62	6826 (7640)
Northrup King	NK 1410	7-24	44 (112)	22.0	1	60	6025 (6750)
Cargill	3385	7-26	43 (109)	29.0	1	58	6719 (7520)
Cargill	40	7-29	43 (109)	30.0	1	60 59	6068 (6790) 6287
Entry Averages LSD (.05)		7-23	42	24.5	1	39	305
CV - %							8.2
	DV 45		1986-1988				
DeKalb	DK-18	7-21	42 (107)	24.0	1	59	5563 (6230)
Warner	W-545T	7-22	37 (94)	26.0	1	59	6348 (7110)
Cargill	2285	7-24	41 (104)	28.0	1	60	5880 (6580)
Interstate	665	7-24	46 (117)	25.0	1	59	6361 (7120)
Entry Averages		7-23	41	25.7	1	59	6038
LSD (.05)							559
CV - %							9.7

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Table 10. Entries Included in 1988 Trials and Tables where the Results Appear.

Company and Brand	Entry	Tables	Company and Brand	Entry	Tables
Agripro/Sokota	AP910G	5,6,7,9	Interstate Seed Co.	663	4,5
PO Box 250	AP925G	5,6,7,9	PO Box 338	665	4,5,6,7,8,9
Brookings, SD 57006	AP940G	9	W. Fargo, ND 58078	668	5,6
"Agripro"			"Interstate"	856	4,5,6,7,8,9
Asgrow Seed Company	XP2057	5,6,7	McCurdy Seed Company	M410	5,6
PO Box 1945	XP3137	5,6,7	E. Main St.	M450	5,6
Plainview, TX 79072 "Asgrow"	XP4147	5,6,7	Fremont, IA 52561 "McCurdy"	M689	5
Cargill Hybrid Seeds	22	6,7	NC+ Hybrids	55X	5,6
PO Box 5645	40	4,5,7,8,9	PO Box 4408	155	5,6
Minneapolis, MN 55440	1022	4,5,6,7,8,9	Lincoln, NE 68504		
"Cargill"	2285	4,5,6,8,9	"NC+"		
	3385	4,5,6,7,8,9			
	630	4,5,6,7,8,9	Northrup King Co.	NK 1410	5,6,9
	X77001	4,5,6,7,8,9	1754 Park Blvd.		
			Fargo, ND 58103		
ContiSeed	Hasty	4,5,6,7,9	"Northrup King"		
PO Box 1296	Pronto	5,9			_
702 3rd St., SW	Silvera		Pioneer Hi-Bred, Int'1	8728	5
Huron, SD 57350	X8105	4,5,6,7,9	130 SE Willmar Ave.	8791	5,6,7
"ContiSeed"	X8201	4,5,6,7,9	Willmar, MN 56201	8855	5,6,7
Dahlaran Co. Inc	DG-27B	5 6 7 9 0	"Pioneer Brand"	894	6,7
Dahlgren Co., Inc. PO Box 609	DG-27B	5,6,7,8,9 5,6,7,8	SeedTec International	WS203	/. E 6 7 0
Crookston, MN 56716	DG-22B	5,0,7,0	PO Box 2212	652G	4,5,6,7,8 5,9
"Dahlgren"			Hereford, TX 79045	ST3101	4,5,7,8
Danigien			"SeedTec"	ST3101	6
DeKalb-Pfizer Genetics	DK-18	6,7,9	5004100	ST3308	5,7,9
Rt. 1, Box 225	DK-28	6,7		ST3258	5,9
Glenvil, NE 68941	DK-39y	5		210230	-,-
"DeKalb"	X-638	5	Sigco Research, Inc.	1070	5,6,7
	P-818	6,7	PO Box 289	X1061	5,6,7
	X-828	6,7	Breckenridge, MN 56520 "Sigco"		,,,,
Garst Seed Co.	5517	5			
R.R. 1	5613	5	Geo. Warner Seed Co.	W-523T	4,5,6,9
Inman, NE 68742	5715	6	PO Box 1448	W-545T	4,5,6,9
"Garst"	X5681	5,6	Hereford, TX 79045	WX88101	4,5,6,9
			"Warner"	WX88102	4,5,6,9
				WX88103	4,5,6,9
				WX88104	4,5,6,9

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