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1980 Grain Sorghum Performance Trials

J. J. Bonnemann South Dakota State University

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1980 Grain Sorghum Performance Trials

Circular 236 January 1981

Agricultural Experiment Station South Dakota State University Brookings

Listing of Tables

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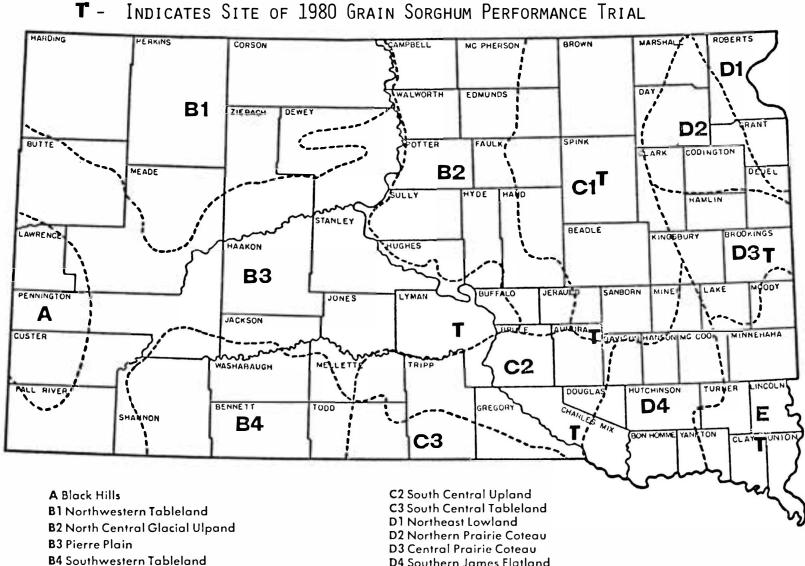
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CROP ADAPTATION AREAS OF

SOUTH DAKOTA



C1 Northern James Valley

D4 Southern James Flatland **E** Southeast Prairie Upland

٠ 4 1980 Grain Sorghum Performance Trials

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

The relative performance of grain sorghum cultivars grown under similar environmental conditions is evaluated in this report for the 1980 crop season. Performance records of all entries harvested in 1980 and available two through five-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 1980 Trials

For adequate performance evaluation, all entries must be grown under similar environmental conditions. Crop adaptation areas in which the 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 1980 grain sorghum year (Table 3) are based upon U.S. Monthly Climatological Data. Data is not available from the Geddes and Letcher sites so information from Armour, a reporting station between the two sites, is included for reference. Precipitation was below normal at all sites except Brookings from May until about August 10. Seed germination varied from location to location as the seedbed was frequently quite loose and dry. It was so dry during May that the cooperators delayed seeding at Kennebec and Letcher until they had received adequate precipitation to insure germination.

Temperatures during June, July and August were above 90°F for many days at a time at these locations (Table 3). Stands were thin at Geddes, Kennebec and Letcher and plants were short and somewhat stunted by the time the beneficial rains occurred in August. Depending upon the stage of maturity some of the hybrids put forth new tillers or shoots and more heads formed. These were often 8-10 inches higher than the original heads and matured only because a killing frost did not occur until early October. These additional shoots caused additional variability to trials already adversely affected by the dry, hot weather.

Despite the lack of moisture and abnormally high temperatures, the yields produced by adapted hybrids were good, and, the later maturing hybrids did very

The assistance of the following individuals is acknowledged: G. W. Erion and Q. S. Kingsley of the Plant Science Department; farmer-cooperators William Fijala, Harlan Halverson and Oscar Thompson; and Station personnel A. C. Dittman, B. E. Lawrensen, Herb Lund, Lucian Edler and Kevin Kirby.

Table 1. Location of Trials, Dates of Seeding and Harvesting of Grain Sorghum Performance Trials, South Dakota, 1980

		Row	Da	tes
County	Location and Post Office	Spacing	Seeded	Harvested
Aurora	Oscar Thompson Farm, Letcher	36"	June 4	Sept. 25
Brookings	Plant Science Farm, Brookings	36"	May 23	0ct. 10
Charles Mix	William Fijala Farm, Geddes	40"	May 19	Sept. 25
Clay	Southeast Experiment Farm, Beresford	36"	May 22	Sept. 23
Lyman	Harlon Halverson Farm, Kennebec	31"	June 9	Sept. 24
Spink	James Valley Research Farm, Redfield	36"	May 28	0ct. 7
			-	

well. This was aided by August rains, a warm, dry September and the lack of killing temperatures until mid-October. The test weight and seed quality of most hybrids was very good. The trials at Centerville produced quite well and show the ability of sorghums to recover from an early hailstorm that badly damaged corn and soybean fields in adjacent plot areas. The roots put forth new tillers and the plants caught up with the season. With the aid of warmer temperatures, the sorghum headed only about 7-10 days later than normal. The delay was beneficial for the 1980 crop year as a second hailstorm in late August found most of the kernels still in a dough stage and most hybrids were still able to produce over 2500 lb/A (45 B/A) of good quality grain (Table 11). The very early varieties suffered the most shattering loss from the hailstorm.

Hybrid Entry Procedure

Only grain sorghums offered for sale in South Dakota or being produced for 1981 distribution were eligible for entry. A closed-pedigree hybrid was entered by the name and number under which it was sold by the parent company. All entries maintained a minimum laboratory germination of 80% as required by the South Dakota Certification Standards. A nominal fee was charged for each entry in each area, except for the grain sorghum entries developed by the State and Federal Experiment Stations and entered by the South Dakota Agricultural Experiment Station.

Table 2. Soil sample analysis and cultural practices of 1980 Grain Sorghum Sites

County and crop		Labor Org.	ratoi	ry and	alysis	Field Preparat	ions		
adaptation areas	Soil Classification	mat. %		.7A	– pH	Methods		t <u>. </u>	b <u>7a</u> K
Lyman, B2 Aurora, C1	Pierre clay Hou. Pros. SiL			1000 700		Sweeps fall & spring, Disked and harrowed	Gr.	stu	bble
Spink, Cl(irr.)		3.2				Plowed and disked	80	40	0
Chas. Mix, C2	Highmore SiCl	3.8	200	1000	7.1	Plowed and disked	26	13	6
Clay, E	Egan SiCl	3.4	32	730	6.8	Plowed and disked	80	40	20

		_	Tempera	ature, De	grees F		Preci	pitation,	inches
District		Month	Mean av.	Depar- ture from normal	Av. depar. ture	Days 90°+	Month total	Depar- ture from normal	Tota depar- ture
Armour C2	First	May June July August Sept. Oct. freeze	60.9 72.3 79.5 74.4 66.2 49.5 10/3 -	+1.1 +3.2 +4.0 +0.3 +2.9 -2.8 270	+1.5	0 10 25 14 6 2	1.41 2.45 0.64 5.95 0.18 1.99 12.62	-1.47 -1.82 -2.05 +3.20 -2.06 +0.53	-3.67
Brooking 2 NE D3		May June July August Sept. Oct. freeze	56.8 65.7 70.4 67.9 59.7 43.9 9/26 -	+0.6 0.0 -0.7 -1.7 +0.7 -4.8 27 ⁰	-0.9	0 0 6 1 2 0	1.09 9.28 2.58 3.93 0.42 0.84 18.14	-2.11 +4.70 -0.26 +1.07 -1.82 -0.63	+0.95
Centervi 6 SE E		May June July August Sept. Oct. freeze	60.5 69.3 75.8 71.6 62.7 45.8 10/3 -	-0.2 -0.9 +0.5 -2.3 -1.0 -7.4 25°	-1.9	2 5 19 6 4	2.17 2.12 1.25 6.49 0.86 0.18 14.07	-1.31 -2.58 -1.86 +3.45 -1.82 -0.47	-4.59
Redfield 6 E Cl(irr.)		May June July August Sept. Oct. freeze	58.6 66.0 73.2 69.7 60.6 45.6 10/3 -	b - 30 ⁰		2 2 14 10 2 1	$ \begin{array}{r} 1.85 \\ 4.74 \\ 3.20 \\ 3.88 \\ 0.50 \\ 1.19 \\ 15.36 \\ \end{array} $	b	
Kennebec B3		May June July August Sept. Oct. freeze	62.4 73.3 79.7 76.2 65.5 49.5 10/11	+4.3 +5.8 +4.8 +2.3 +2.7 -1.7 - 29 ⁰	+3.1	6 14 28 18 7 3	0.66 3.36 1.05 4.15 0.17 <u>3.26</u> 12.65	-2.03 -0.17 -1.00 +1.81 -1.35 +2.33	-0.51

Table 3. Temperature and Precipitation Data for the 1980 Grain Sorghum Growing Season in South Dakota^a

^a - Based upon reports of Monthly Climatological Data, National Climatic Center, Ashville, NC.

b = Departures are figures from 30 years data. This station has not been in operation for that period of time.

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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 a 31-cell cone-seeder mounted above flexi-planter units. A recommended herbicide for grassy weed control and an insecticide for greenbug control were banded over the row at seeding time. The row spacings used are indicated in Table 1 and plot lengths were dependent upon the area available at each location. 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 areas of the state, respectively. The trials at Redfield were irrigated twice by the gravity method.

Moisture determinations were made the third or fourth week in September; the time of normal date of killing frost. These are usually more reliable and informative than determinations made at harvest, generally after a freeze. Moisture and test weight of the grain realistically indicate relative maturity. Grain samples for moisture determinations were taken from all observation plots at all locations during the period of September 17 to 22. Ten to twelve heads, 400-500 grams, were cut from each entry, placed in a polyethelene 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 material reported above this level, recorded as 35.+ in the tables, would generally indicate lines of late maturity for the area.

The harvested grain was cut from a 10-foot section of each row for 20 linear feet in each individual plot. The 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 and one left for observational purposes.

Discussion of Results

Generally, trial yields were good to exceptional for the better entries in each of the trials. In many of the trials the entries were high in kernel moisture when sampled. In a normal season of cooler fall temperatures and earlier killing frosts the yield, test weight and quality of these entries would probably have been poorer. The warm, dry conditions during September 1980 permitted nearly all varieties to reach physiological maturity. The long-term averages give a better indication over several years environments.

The moisture samples were indicative of moisture content in mid-September and had a killing frost occurred soon thereafter it would have been necessary to use a dryer for many of the entries to ensure safe storage. Some drying is favored by many growers as they combine before frost, at 17-18% moisture to avoid excessive lodging problems that often occur once the stalks are frozen. In most of the 1980 trials not very many of the entries had matured enough to be at even the 20% level by September 20 and drying would have been costly.

Greenbugs were noticed at some sites even though and insecticide was applied for their control. Levels of infestations were not high enough to warrant treatments for insect control again. Lodging was not a serious problem at any site. Most of the 1980 trials were harvested before a killing freeze had affected the stalks. The trial at Brookings was not cleaned up after harvest to permit late evaluation of lodging. Even after several occurrences of a killing freeze and many days of strong wind, some excessively so, only about a maximum of 20% lodging occurred in some varieties (Table 8). Bird damage was very limited at all sites. Yields, quality and test weight were affected by the stage of growth when the rains or high temperatures occurred.

Bird damage, especially from sparrows, was very limited in 1980. The trials located within larger fields of farmer-cooperators were not subject to concentrated pecking as in smaller fields.

Measurements 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 for 1980 and other agronomic data are reported in Tables 4 through 11. Separate tables with two- to five-year averages are reported in Tables 9, 10 and 12.

Funks G499GBR DeKalb X-030 Pfizer PGI M550G Cenex 310T Prairie Valley 535GR Disco 204R Asgrow Bug-Off E Asgrow Corral DeKalb C-42A+	4945 4805 4710 4595 4550 4510				60		
Pfizer PGI M550G Cenex 310T Prairie Valley 535GR Disco 204R Asgrow Bug-Off E Asgrow Corral DeKalb C-42A+	4710 4595 4550					30	19.1
Cenex 310T Prairie Valley 535GR Disco 204R Asgrow Bug-Off E Asgrow Corral DeKalb C-42A+	4595 4550				60	32	17.5
Prairie Valley 535GR Disco 204R Asgrow Bug-Off E Asgrow Corral DeKalb C-42A+	4550				61	36	17.6
Disco 204R Asgrow Bug-Off E Asgrow Corral DeKalb C-42A+				4800	61	36	18.0
Asgrow Bug-Off E Asgrow Corral DeKalb C-42A+	4510				61	35	21.5
Asgrow Corral DeKalb C-42A+		4405	E1 2E	4200	61	36	19.3
DeKalb C-42A+	4480	4425	5125 5290	4390	61	34 25	15.5
	4445 4375	4530	5290	4365 4590	61 60	35 33	18.0 16.3
Warner $W_{-} h A h I$	4375	4550	5100	4395	61	33	14.9
Warner W-545T	4313			4333	01	52	14.5
Northrup King Brand 2222	4310				60	34	16.2
Cenex 224T	4245				61	32	14.4
ACCO GR 1018	4215	4080	4680	4215	61	34	14.6
Cargill 30	4175		4530	4155	60	32	16.7
ACC0 GR 1028	4100	4010	4570	4270	60	33	16.7
DeKalb B-38+	4100	4175	4785	4390	61	34	16.3
Prairie Valley 515GR P-A-G 4433	4035 3990			2010	60 59	32 34	14.0 13.4
Disco 200R	3990			3910 4240	59 61	34 38	13.4
Warner W-655T	3905			4240	61	35	15.5
warner w-0551	3905			4210	01	30	15.5
Disco 202	3870				56	45	35.+
Sigco 254 YG	3830				61	36	20.0
ACC0 GR 1020	3830				60	32	22.9
Pfizer PGI M56	3735			2070	61	31	18.3
Warner W-564T	3680	2000	4245	3970	61	33	18.7
Pride P808GB	3665	3900	4345	3905	60	31	13.0
ACCO DR 1035 P-A-G 354	3615 3615			3455	61 58	33 31	14.5 12.4
Cenex 228T	3455			3610	58 61	35	14.6
Funks HW 1769	3405			3010	60	36	13.7
	3403				00	30	13•7
Pride P508GB	3350	3635	4270	3825	60	32	13.8
Funks G261	3285			2040	58	32	13.5
Northrup King Brand 2030	3260			3840	61	30	14.0
Western WS-203 Pfizer PGI M548G	3245 3160				60 61	34 30	13.8 13.8
Asgrow Dorado E	3150	3830	4290	3550	61 60	30 31	13.8
DeKalb A-28+	3130	3840	4290	3920	60 60	33	15.5
Northrup King Brand 2018	2840	3040	4070	3620	60	33	13.5
SDAES SD 104	2140	2355	2785	2110	55	32	14.0
Prairie Valley 530GR	340	2000	2,00		49	86	35.+
Means	3785				60	35	17.0
LSD (.05)	1045			<u> </u>	- % = 17	7 1	

Table 4. 1980 Grain Sorghum Performance Trial, Area C2, Wm. Fijala Farm, Geddes, Charles Mix County, South Dakota

	Yie	lds, po	unds per	acre	Test Wt.	Height,	Percent Moisture
Brand & Variety				1979-80	1b/B	inches	9/18/80
ACCO R 1014	5090	4030	3720	4525	59	33	35.+
Funks G499GBR	4980				59	34	31.9
Western WS-206	4945		3795	4645	61	34	31.9
Pfizer PGI M548G	4685	2055	2005	4000	59	36	33.0
ACCO R 920 Sigco 252 YG	4565 4395	3655	3605	4265	57 61	36 34	24.2 30.8
DeKalb A-25a+	4395	3635	3535	4315	59	34 30	23.6
Northrup King 180A	4210	3895	3395	4030	58	33	29.2
Cargill 30	4190			1000	57	36	35.+
Funks G261	4185				61	31	27.7
P-A-G 4433	4180				59	35	33.5
Warner W-564T	4140			3650	56	37	35.+
Sigco Ex86	4070				59	34	35.+
DeKalb B-38+	4035		3130	3660	59	37	32.2
Pride P151GB	3945				60	32	29.8
Warner W-655T	3910			3745	56	36	35.+
Sigco 254 YG	3900				56	41	35.+
Northrup King 121A	3895				58	32	28.0
Sigco Ex85	3850				58	39	35.+
Prairie Valley 515GR	3830				60	29	28.5
Northrup King Brand 1210	3790				60	32	28.4
DeKalb A-28+	3785	3470	3190	3910	59	34	31.0
Western WS-203	3760				60	35	33.5
Pfizer PGI M518G	3665				61	31	29.5
ACCO R 980	3605		3045	3555	60	33	31.4
P-A-G 354	3565				59	30	30.3
Cenex 224T	3300				58	32	35.+
Funks HS 1769	3240				60	35	32.4
Pioneer Brand 894	3070				59	28	25.5
Warner W-545T	3065	0.005	05.70	3275	59	31	34.8
SDAES SD 104	3050	2605	2570	3185	58	37	21.4
Cenex 310T	3130 2890			3520	56 59	40	35.+
Cenex 228T Sigco 8710K	2890			3355	58 55	35 34	31.8 23.5
Means	3820				60	34	24.7
LSD (.05)	1185			C.V	- % = 19	5.5	

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Table 5. 1980 Grain Sorghum Performance Trial, Area B3, Harlon Halverson Farm, Kennebec, Lyman County, South Dakota

Brand & Variety	Yie 1980	lds, po 1977-80	unds per 1978-80	acre 1979-80	Test Wt. 1b/B	Height, inches	Percent Moisture 9/18/80
Sigco 254 YG	3540				59	37	35.+
DeKalb A-28+	3490	3270	3175	3375	61	31	29.9
Cenex 310T	3170			3255	59	34	35.0
Cenex 224T Funks G261	3135 3060				60 60	29 34	30.4 27.1
Warner W-564T	3000			3020	60	34	35.+
Disco 204R	2975			3020	59	34	35.+
P-A-G 4433	2920				59	31	30.2
Warner W-655T	2890			3690	59	35	35.+
Pfizer PGI M548G	2890				61	33	29.2
Cenex 228T	2865			3525	60	32	30.3
Asgrow Dorado E	2835			3820	61	30	29.9
Pride P151GB	2835				60	29	22.0
Prairie Valley 515GR	2790				60	29	27.6
Young Oro Recio	2780				61	30	28.7
Cargill 30	2760				59	33	32.1
ACC0 R920	2750	2590	2865	3230	58	35	21.5
Funks G499GBR	2705	0705	0700	0000	59	30	31.4
ACCO R 1014	2675	2795	2780	2880	59	29	32.7
Asgrow Bug-Off E	2655	2125	2770	2945	59	35	33.4
Pride P508GB	2655	3135	3035	2655	60	31	27.5
Funks HW 1769	2650			3110	61 61	34 31	28.9 26.4
Northrup King Brand 2018 Western WS-203	2575 2555			5110	60	32	24.9
Asgrow Corral	2525		3380	3330	58	34	35.+
DeKalb B-38+	2525	3295	3245	3140	59	34	35.+
Pioneer Brand 894	2500	0250	02.00		60	27	14.9
Northrup King 180A	2475			3290	58	32	24.2
Pfizer PGI M518G	2475				59	29	26.4
Warner W-545T	2470			2925	60	29	25.3
Northrup King Brand 2030	2265			3085	56	33	35.+
P-A-G 354	2260				59	29	25.8
ACCO R 980	2165		2470	2575	61	29	29.3
Disco 200R	2160			2750	56	35	34.4
Disco 202	1790	1500	1 72 0	1715	49 58	41 35	35.+ 18.0
SDAES SD 104	990	1580	1730	1715	20	32	10.0
Means	2660				59	32	29.4
LSD (.05)	715			C.V.	- % = 1	6.6	

Table 6. 1980 Grain Sorghum Performance Trial, Area C1, Oscar Thompson Farm, Letcher, Aurora County, South Dakota

Brand & Variety	Yield, lb/A	Test Wt. lb/B	Height, inches	Percent Moisture 9/17/80	Date Headed
Asgrow Dorado E	5965	60	45	34.3	8/4
ACCO R 1014	5595	59	45	34.7	8/5
Asgrow Corral	5315	59	48	35.+	8/7
Western WS-203	5135	60	48	30.1	8/4
Cenex 228T	5045	60	46	34.4	8/4
DeKalb A-28+	5000	60	42	30.3	8/1
Western WS-206	4995	59	46	31.8	8/6
Cargill 30	4830	59	45	33.2	8/6
Pride P508GB	4815	60	44	29.6	8/3
Warner W-655T	4810	59	50	35.+	8/7
Warner W-545T	4780	60	39	31.9	8/2
Northrup King Brand 2222	4780	58	45	35.+	8/9
Northrup King 180A	4710	59	45	33.2	8/1
Sigco 254 YG	4680	59	48	35.+	8/6
Prairie Valley 515GR	4600	60	40	33.0	8/3
P-A-G 4433	4520	58	48	35.+	8/6
Northrup King Brand 2018	4490	60	44	31.5	8/3
P-A-G 354	4420	58	41	27.5	8/4
Cenex 310T	4420	59	50	35.+	8/8
ACCO GR 1018	4410	59	43	35.+	8/6
Asgrow Bug-Off E	4320	59	47	35.+	8/7
Cenex 224T	4310	60	38	31.5	8/3
ACCO R 920	4295	58	45	27.4	7/25
ACCO R 980	4255	61	40	30.3	8/5
Pioneer Brand 894	4185	59	38	27.5	7/29
ACC0 GR 1020	4160	57	45	35.+	8/11
Warner W-564T	4140	58	45	35.+	8/8
Northrup King Brand 2030	4110	58	42	34.9	8/8
SDAES SD 104	3660	59	38	28.5	7/25
Means	4645	59	44	32.9	8/4
LSD (.05)	945		CV - % = 12.	5	

Table 7. 1980 Grain Sorghum Performance Trial, Area C1 (irrigated), James Valley Research Center, Redfield, Spink County, South Dakota

Brand & Variety	Yield, lb/A	Test Wt. lb/B	Height, inches	Percent Moisture 9/22/80	Date Headed	% Erect Plants 11/19/80
Western WS-203	5900	58	47	35.+	8/2	82
Cenex 228T	5070	56	44	35.+	8/6	96
Northrup King 121A	5020	55	40	35.+	8/2	92
Western WS-206	4985	57	46	35.+	8/7	92
Prairie Valley 515GR	4960	56	39	35.+	8/4	94
Northrup King 180A	4935	55	44	35.+	8/3	90
Northrup King Brand 1210	4925	57	41	29.3	7/31	87
Warner W-545T	4925	56	38	35.+	8/4	94
Cenex 224T	4900	56	37	35.+	8/4	93
ACCO R 1014	4895	54	44	35.+	8/9	92
P-A-G 354	4780	55	41	35.+	8/5	95
Warner W-655T	4755	54	47	35.+	8/8	92
Cenex 310T	4710	54	49	35.+	8/9	89
Sigco 254 YG	4590	54	48	35.+	8/10	92
Northrup King Brand 1580	4440	56	42	35.+	8/7	95
Cargill 30	4315	50	46	35.+	8/9	97
Warner W-564T	4220	53	44	35.+	8/11	94
ACCO R 920	4040	56	47	28.6	7/27	87
DeKalb A-28+	3935	58	42	35.0	8/3	88
SDAES SD104	3930	58	39	28.7	7/24	85
ACCO R 980	3850	56	42	34.7	8/7	96
Means	4670	55	43	34.1	8/5	92
LSD (.05)	550		С.	V % = 7.2		

Table 8. 1980 Grain Sorghum Performance Trial, Area D3, Plant Science Farm, Brookings, Brookings County, South Dakota

	Avera	ge Yield,	pounds per	acre
Brand & Variety	1976-80	1977-80	1978-80	1979-80
ACCO R 920 ACCO R 980	3900	3790	3460	3050 3015
ACCO R 1014 ACCO GR 1018	4290	4020 3415	3705 3305	3660 2855
Asgrow Bug-Off E Asgrow Corral Asgrow Dorado E Cenex 228T Cenex 310T	4570	4185	4025 4110	2900 3655 3905 3345 3170
DeKalb A-28+ Northrup King Brand 2018 Northrup King Brand 2030 Pride P508GB		3985	3675	3440 3415 2850 3480
SDAES SD 104 Warner W-545T Warner W-564T Western WS-206		2735	2770	2450 3120 3055 3535

Table 9. Two-, Three-, Four-, and Five-Year Average Yields of Grain Sorghum Hybrids Entered at Redfield, South Dakota, 1976-1980.

Table 10. Two-, Three-, Four-, and Five-Year Average Yields of Grain Sorghum Hybrids Entered at Brookings, South Dakota, 1976-1980

Brand & Vanisty	<u>Avera</u>	ge Yield, 1977-80	<u>pounds per</u> 1978-80	acre 1979-80
Brand & Variety	1970-80	19//-60	19/8-80	19/9-80
ACCO R 920	3905	3875	3850	3960
ACCO R 980			4085	4080
ACCO R 1014	4145	4050	4700	4815
Cenex 228T				4945
DeKalb A28+		3905	4120	4170
Northrup King 121A			5395	5195
Northrup King 180A	4805	4605	4950	4865
Northrup King 1580		4090	4770	4630
SDAES SD 104		4025	4465	4480
Warner W-545T				4800
Warner W-564T				4485

Yield, Wt. Brand & Variety 1b/A 1b/B Cenex 310T 3375 57 Warner W-564T 3290 58 Asgrow Corral 3180 56 Northrup King Brand 2222 3165 57 Pfizer PGI M550G 3165 57 Dekalb X-030 3120 57 Disco 204R 3065 52 ACCO R 1014 3020 56 Disco 200R 2990 58 P-A-G 4433 2935 56 DeKalb C-42A+ 2890 55 Sigco 254 YG 2880 57 ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cenex 228T		Percent	
Cenex 310T 3375 57 Warner W-564T 3290 58 Asgrow Corral 3180 56 Northrup King Brand 2222 3165 57 Pfizer PGI M550G 3165 57 Warner W-655T 3125 57 DeKalb X-030 3120 57 Disco 204R 3065 52 ACCO R 1014 3020 56 Disco 200R 2990 58 P-A-G 4433 2935 56 DeKalb C-42A+ 2800 55 Sigco 254 YG 2880 57 ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57	Height, inches	Moisture 9/19/80	Date Headed
Warner W-564T 3290 58 Asgrow Corral 3180 56 Northrup King Brand 2222 3165 57 Pfizer PGI M550G 3165 57 Warner W-655T 3125 57 DeKalb X-030 3120 57 Disco 204R 3065 52 ACCO R 1014 3020 56 Disco 200R 2990 58 P-A-G 4433 2935 56 DeKalb C-42A+ 2890 55 Sigco 254 YG 2880 57 ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 56 Defizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2	46	26.8	7/30
Asgrow Corral 3180 56 Northrup King Brand 2222 3165 57 Pfizer PGI M550G 3165 57 Warner W-655T 3125 57 DeKalb X-030 3120 57 Disco 204R 3065 52 ACCO R 1014 3020 56 Disco 200R 2990 58 P-A-G 4433 2935 56 DeKalb C-42A+ 2890 55 Sigco 254 YG 2880 57 ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Prunks G261 2200 </td <td>40</td> <td>24.5</td> <td>7/31</td>	40	24.5	7/31
Northrup King Brand 2222 3165 57 Pfizer PGI M550G 3165 57 Warner W-655T 3125 57 DeKalb X-030 3120 57 Disco 204R 3065 52 ACC0 R 1014 3020 56 Disco 200R 2990 58 P-A-G 4433 2935 56 DeKalb C-42A+ 2890 55 Sigco 254 YG 2880 57 ACC0 GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACC0 GR 1020 2845 58 Warner W-545T 2765 59 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACC0 GR 1028 2415 56 Asgrow Bug-Off E 2375 57	46	24.8	8/2
PfizerPGIM550G316557WarnerW-655T312557DeKalbX-030312057Disco204R306552ACCOR1014302056Disco200R299058P-A-G4433293556DeKalbC-42A+289055Sigco254YG288057ACCOGR1018286056PrairieValley535GR284557ACCOGR1020284558WarnerW-545T276557Disco202R276559Sigco0515273058FunksG499GBR270555PfizerPGIM56270556Cenex228T261056Cargill30253056PrairieValley515GR249057ACCOGR1028241556AsgrowBug-Off E237557Cenex224T231056FunksHW1769226057Funks G26122005855AsgrowDorado207558ACCODR1035185557PfizerPGIM548G182555NorthrupKingBrand20301565SDAESSD10433056	39	28.3	8/4
Warner W-655T 3125 57 DeKalb X-030 3120 57 Disco 204R 3065 52 ACCO R 1014 3020 56 Disco 200R 2990 58 P-A-G 4433 2935 56 DeKalb C-42A+ 2890 55 Sigco 254 YG 2880 57 ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 ACCO OR 1035 1855 <td< td=""><td>42</td><td>27.2</td><td>8/1</td></td<>	42	27.2	8/1
DeKalb X-030 3120 57 Disco 204R 3065 52 ACCO R 1014 3020 56 Disco 200R 2990 58 P-A-G 4433 2935 56 DeKalb C-42A+ 2890 55 Sigco 254 YG 2880 57 ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks HW 1769 2260 57 Funks G261 2200 58 DeKalb B-38+ 2185 55 Acco DR 1035 1855 57	43	26.3	7/30
Disco 204R306552ACCO R 1014302056Disco 200R299058P-A-G 4433293556DeKalb C-42A+289055Sigco 254 YG288057ACCO GR 1018286056Prairie Valley 535GR284557ACCO GR 1020284558Warner W-545T276557Disco 202R276559Sigco 0515273058Funks G499 GBR270555Pfizer PGI M56270556Cargill 30253056Prairie Valley 515GR249057ACCO GR 1028241556Asgrow Bug-Off E237557Cenex 224T231056Funks G261220058DeKalb B-38+218555ACCO DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	37	22.6	7/26
ACCO R 1014 3020 56 Disco 200R 2990 58 P-A-G 4433 2935 56 DeKalb C-42A+ 2890 55 Sigco 254 YG 2880 57 ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 ACCO DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 15	44	26.0	8/2
Disco 200R299058P-A-G 4433293556DeKalb C-42A+289055Sigco 254 YG288057ACCO GR 1018286056Prairie Valley 535GR284557ACCO GR 1020284558Warner W-545T276557Disco 202R276559Sigco 0515273058Funks G499 GBR270555Pfizer PGI M56270556Cargill 30253056Prairie Valley 515GR241556Acco GR 1028241556Asgrow Bug-Off E237557Cenex 224T231056Funks G261220058DeKalb B-38+218555Asgrow Dorado E207558Acco DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	42	18.6	7/25
P-A-G 4433 2935 56 DeKalb C-42A+ 2890 55 Sigco 254 YG 2880 57 ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cenex 228T 2610 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks G261 2200 58 DeKalb B-38+ 2185 55	45	24.3	8/1
DeKalb C-42A+289055Sigco 254 YG288057ACCO GR 1018286056Prairie Valley 535GR284557ACCO GR 1020284558Warner W-545T276559Disco 202R276559Sigco 0515273058Funks G499 GBR270555Pfizer PGI M56270556Cenex 228T261056Cargill 30253056Prairie Valley 515GR249057ACCO GR 1028241556Asgrow Bug-Off E237557Cenex 224T231056Funks G261220058DeKalb B-38+218555Asgrow Dorado E207558ACCO DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	41	19.5	7/28
ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2415 56 Acco GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 OR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	39	21.4	7/29
ACCO GR 1018 2860 56 Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2415 56 Acco GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 OR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	43	25.3	8/2
Prairie Valley 535GR 2845 57 ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2415 56 Acco GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 Acco DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	39	20.8	7/27
ACCO GR 1020 2845 58 Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cargill 30 2530 56 Prairie Valley 515GR 2415 56 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks G261 2200 58 DeKalb B-38+ 2185 55 Acco DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	40	27.8	8/3
Warner W-545T 2765 57 Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cenex 228T 2610 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks HW 1769 2260 57 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 ACCO DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	37	30.2	8/7
Disco 202R 2765 59 Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cenex 228T 2610 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks HW 1769 2260 57 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 ACCO DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	35	19.9	7/27
Sigco 0515 2730 58 Funks G499 GBR 2705 55 Pfizer PGI M56 2705 56 Cenex 228T 2610 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks HW 1769 2260 57 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 ACCO DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	45	35.+	8/11
FunksG499GBR270555PfizerPGIM56270556Cenex228T261056Cargill30253056PrairieValley515GR249057ACCOGR1028241556AsgrowBug-OffE237557Cenex224T231056FunksHW1769226057FunksG261220058DeKalbB-38+218555AsgrowDoradoE207558AccoDR1035185557PfizerPGIM548G182555NorthrupKingBrand2030156557SDAESSD10433056	41	32.4	8/8
Pfizer PGI M56 2705 56 Cenex 228T 2610 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks HW 1769 2260 57 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 ACCO DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	35	22.2	7/28
Cenex 228T 2610 56 Cargill 30 2530 56 Prairie Valley 515GR 2490 57 ACCO GR 1028 2415 56 Asgrow Bug-Off E 2375 57 Cenex 224T 2310 56 Funks HW 1769 2260 57 Funks G261 2200 58 DeKalb B-38+ 2185 55 Asgrow Dorado E 2075 58 ACCO DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	41	25.9	8/4
Cargill 30253056Prairie Valley 515GR249057ACCO GR 1028241556Asgrow Bug-Off E237557Cenex 224T231056Funks HW 1769226057Funks G261220058DeKalb B-38+218555Asgrow Dorado E207558ACCO DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	38	20.9	7/26
Prairie Valley 515GR249057ACCO GR 1028241556Asgrow Bug-Off E237557Cenex 224T231056Funks HW 1769226057Funks G261220058DeKalb B-38+218555Asgrow Dorado E207558ACCO DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	40	23.2	7/29
Asgrow Bug-Off E237557Cenex 224T231056Funks HW 1769226057Funks G261220058DeKalb B-38+218555Asgrow Dorado E207558ACCO DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	36	20.3	7/25
Cenex 224T231056Funks HW 1769226057Funks G261220058DeKalb B-38+218555Asgrow Dorado E207558ACCO DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	37	28.2	8/5
Cenex 224T231056Funks HW 1769226057Funks G261220058DeKalb B-38+218555Asgrow Dorado E207558ACCO DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	41	21.2	7/28
Funks G261220058DeKalb B-38+218555Asgrow Dorado E207558ACCO DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	36	16.5	7/25
DeKalb B-38+218555Asgrow Dorado E207558ACCO DR 1035185557Pfizer PGI M548G182555Northrup King Brand 2030156557SDAES SD 10433056	38	25.4	7/25
Asgrow Dorado E 2075 58 ACCO DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	39	14.3	7/21
Asgrow Dorado E 2075 58 ACCO DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	43	20.4	7/27
ACCO DR 1035 1855 57 Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	41	12.8	7/23
Pfizer PGI M548G 1825 55 Northrup King Brand 2030 1565 57 SDAES SD 104 330 56	40	20.7	7/29
SDAES SD 104 330 56	37	22.0	7/27
	36	21.1	7/24
	36	12.0	7/13
Prairie Valley 530GM 240 50	84	35.+	late
Means 2545 56 LSD(.05) 445	41	23.7 V % = 10.8	7/29

Table 11. 1980 Grain Sorghum Performance Trial, Area E, Southeast Experiment Farm, Centerville, Clay County, South Dakota^a

^a Trial was damaged twice by hail, in early June and late August. Heading was delayed initially and the last storm caused shattering to the earlier maturing varieties.

	Avera	ge Yield,		acre
Brand & Variety	1976-80	1977-80	1978-80	1979-80
ACCO R 1014 ACCO GR 1018	4365	4770 4535	4330 4045	4830 4395
ACCO GR 1028		4550	3990	4315
Asgrow Bug-Off E			4675	4490
Asgrow Corral Asgrow Dorado E			4675	4980 4120
Cargill 30				4400
Cenex 228T Cenex 310T				4335 5170
DeKalb B-38+	4020	4365	3830	
DeKalb C-42A+	4020	4365 5140	4510	4050 4710
Disco 200R Disco 202R				4770 4795
Northrup King Brand 2030				4040
P-A-G 4433				4420
SDAES SD 104		2900	2285	2010
Warner W-545T Warner W-564T				4420 4985
				7303

Table 12. Two-, Three-, Four-, and Five-Year Average Yields of Grain Sorghum Hybrids Entered at Centerville, South Dakota, 1976-1980.

Company & Brand	Variety	Tables	Company & Brand	Variety	Tables
Asgrow Seed Company 7000 Portage Road Kalamazoo, MI 49001 "Asgrow"	Dorado E Bug Off E Corral	4,6,7,9,11,12 4,6,7,9,11,12 4,6,7,9,11,12	Funks Seeds International 719 26th Street Lubbock, TX 79404 "Funks"	G499GBR G261 HW 1769	4,5,6,11 4,5,6,11 4,5,6,11
DeKalb Ag Research, Inc. Rt. 1, Box 225 Glenvil, NB 68941 "DeKalb"	A-25a+ A-28+ B-38+ C-42a+ X-030	5 4,5,6,7,8,9,10 4,5,7,11,12 4,11,12 4,11	Pfizer Genetics, Inc. P.O. Box 166 Olivia, MN 56277 "Pfizer Genetics"	M56 M518G M548G M550G	4,11 5,6 4,5,6,11 4,11
Disco Seed Co. P.O. Box 640 Mitchell, SD 57301	200R 202 204	4,6,11,12 4,6,11,12 4,6,11	R. C. Young Seed Co. 624 27th Street Lubbock TX 79404	Oro Recio	6
"Disco"			Cenex Seed Co. Box 964	224T 228T	4,5,6,7,8,11 4,5,6,7,8,9,10,11,12
Northrup King Co. P.O. Box 959 Minneapolis, MN 55440	121A 180A 1210	5,8,10 5,6,7,8,10 5,8,	Sioux Falls, SD 57101 "Cenex"	310T	4,5,6,7,8,9,11,12
"NK Brand"	1580 2018 2030 2222	9,10 4,6 4,6,7,9 4,7,11	Cargill Seeds P.O. Box 9300, Dept. 16 Minneapolis, MN 55440 "Cargill"	30	4,5,6,7,8,11,12
P-A-G Seeds P.O. Box 9480, Dept. 16 Minneapolis, MN 55440 "P-A-G"	354 4433	4,5,6,7,8 4,5,6,7,11,12	SIGCO Research, Inc. Box 150 Breckenridge, MN 56520 "Sigco"	0515 252 YG 254 YG 8710K EX 85	11 5 4,5,6,7,8,11 5 5
Pioneer Hi-Bred, Intn'l	894	5,6,7		EX 86	5
1206 Mulberry St. Des Moines, IA 50308 "Pioneer Brand"			Prairie Valley, Inc. Box 125 Phillips, NB 68865	PV 515GR PV 530GR PV 535GR	4,5,6,7,8,11 4,11 4,11
Pride Company, Inc. P.O. Box 8 Glen Haven, WI 53810 "Pride"	P151GB P508GB P808GB	5,6 4,6,7,9 4	King's Western Seed, Inc. P.O. Box 947 Huron, SD 57350 "King's Western"	WS-203 WS-206	4,5,6,7,8 5,7,8,9

Table 13. Entries Submitted for the 1980 Grain Sorghum Performance Trials and Tables where the Results Appear

- 18 -

Table	13.	1980	Grain	Sorghum	Entries	(cont.))
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Company & Brand	Variety	Tables
ACCO Seed P.O. Box 1630 Plainview, TX 79072 "ACCO"	R 920 R 980 R 1014 GR 1018 GR 1020 GR 1028 DR 1035	5,6,7,8,9,10 5,6,7,8,9,10 5,6,7,8,9,10,11,12 4,7,9,11,12 4,7,11 4,11,12 4,11
George Warner Seed Co. P.O. Box 1448 Hereford, TX 79045 "Warner"	W-545T W-564T W-655T	4,5,6,7,8,9,10,11,12 4,5,6,7,8,9,10,11,12 4,5,6,7,8,11
Agr. Exp. Station South Dakota State U. Brookings, SD 57007 "SDAES"	SD 104	4,5,6,7,8,9,10,11,12

Published in accordance with an Act passed in 1881 by the 14th Legislative Assembly. Dakota Territory, establishing the Dakota Agriculture College and with the Act of re-organization passed in 1887 by the 17th Legislative Assembly, which established the Agricultural Experiment Station at South Dakota State University. F11e: 1.4-3.1--3,000 printed at estimated 30¢ each--2-81mb--7546A