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NEBRASKA GRAIN SORGHUM PERFORMANCE TESTS 1979

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TEACHING RESEARCH EXTENSION
Institute of Agriculture and Natural Resources

Extension work in "Agriculture, Home Economics and subjects relating thereto," The Cooperative Extension Service, Institute of Agriculture and Natural Resources, University of Nebraska–Lincoln, Cooperating with the Counties and the U.S. Department of Agriculture
Leo E. Lucas, Director

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ACKNOWLEDGMENT

This circular is a progress report of grain sorghum trials conducted to obtain yield and other information for some of the sorghum hybrids and varieties which have been developed. The 1979 season was the 22nd that private hybrid strains were included in extensive trials. Seed producers supported tests through payment of fees.

Cooperating in this project were the Agronomy Department and the South Central, North Platte, and Panhandle Stations. Acknowledgment is made to County Extension Agents and others who assisted in these tests. Special acknowledgement is made to farmer cooperators and to W.M. Ross, S.E.A., U.S.D.A. sorghum breeder. Conduct of experiments and publication of results is a joint effort of the Agricultural Experiment Station and the Cooperative Extension Service

NEBRASKA GRAIN SORGHUM PERFORMANCE TESTS

1979

A. F. Dreier, P. T. Nordquist, L. V. Svec, P. H. Grabouski and L. A. Nelson 1/

Nebraska produced a record 79 bushels per acre (4960 kg/ha) average grain sorghum yield in 1979. The 1,830,000 acres (741,150 ha) harvested was the same as in 1978. This was the lowest harvested acreage since 1972.

This circular is a progress report of grain sorghum trials conducted by the Agricultural Experiment Station. Harvest data were obtained from five of the six planted trials. Testing zones and locations of the tests are shown on the map (Page 3) and names of cooperators are included in Table A.

Names and addresses of entrants are shown in Table B. A list of entries and zones where tested are included in Table C. Selection of hybrids for each zone was made by the entrants. Entries are listed alphabetically by brand name and hybrid designation. Open-pedigree hybrids were entered by The Nebraska Agricultural Experiment Station.

Parentage of open-pedigree entries follows:

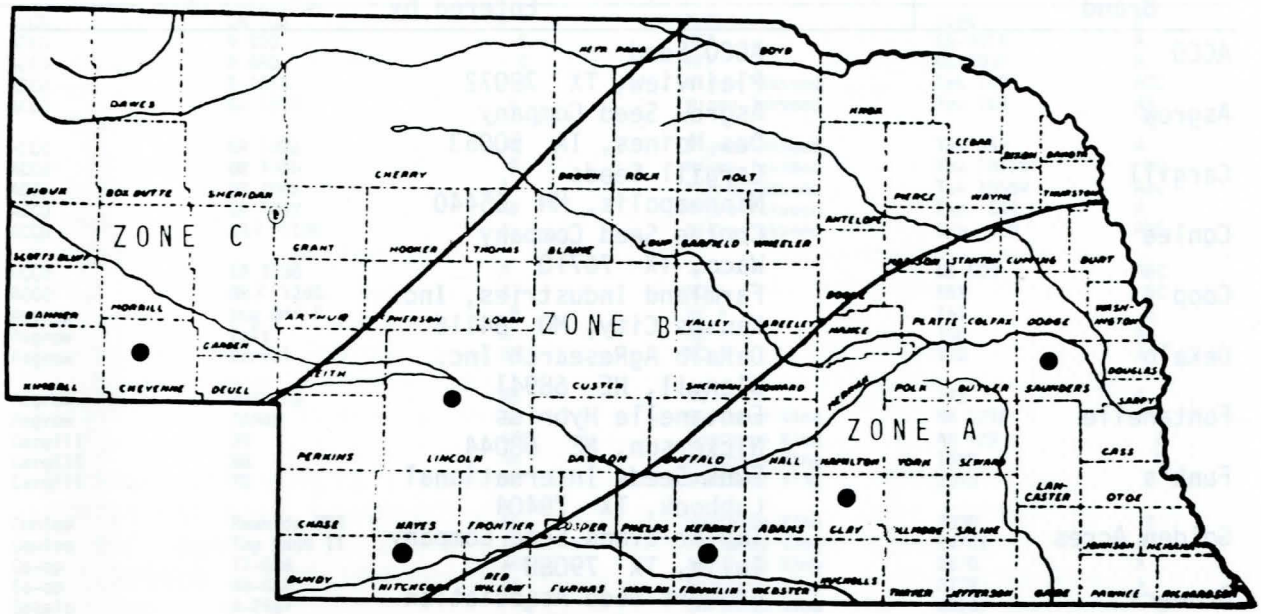
Martin	(Variety or line)
NB 505	Martin x NB 3494
RS 455	M-A4 x SD 104
RS 626	Tx 3197 x Tx 414
RS 671	Redlan x Tx 415
SD 106	(Variety or line)
TAM 680	Tx 378 x TAM 428

Data on one half bloom were obtained by visiting plots on alternate days during the flowering period. Where included, grain moisture determinations were made at or before harvest at a time when differences between entries were relatively high. This gives an indication of relative grain drying rates.

Plant height and head exsertion readings were made at harvest. Lodging readings in 1979 were taken at or before harvest. In previous years, readings sometimes were taken after harvest. Reported yields are based on 56 pounds per bushel and 14% grain moisture.

Entries in the data tables are listed in order of increasing days from planting to one-half bloom. Days to bloom for all tests in the zone was used as the basis rather than individual trials. There are variations in maturity among trials and over years. The maturity of a hybrid is an important consideration in its evaluation for a given location. In making yield comparisons, hybrids should be compared with those having similar maturities.

1/ Agronomists; Agricultural Experiment Station, Lincoln; North Platte Station, North Platte; South Central Station, Clay Center; North Platte Station, North Platte; and Panhandle Station, Scottsbluff, respectively.



SORGHUM MATURITY ZONES AND LOCATIONS
OF NEBRASKA PERFORMANCE TESTS 1979.

Table A. Location and cooperators. Nebraska grain sorghum performance tests. 1979.

County	Cooperator
Zone A	
Saunders	Mead Field Laboratory
Franklin	Arnold Quadhamer, Hildreth
Clay (irrigated)	South Central Station
Zone B	
Lincoln	North Platte Station
Hitchcock 1/	Joe Matson, Trenton
Zone C	
Cheyenne	High Plains Agricultural Laboratory

1/ Not harvested.

Variations in soil fertility, moisture conditions and other factors are found in each test area. This makes it impossible to measure yielding ability of hybrids with absolute accuracy. For this reason, small yield differences have little meaning. A statistical measure of differences required for significance is given in each table. These differences were computed at the 5% and 25% levels of significance. At the 5% level, a difference of that magnitude would be expected once in twenty trials through chance alone. At the 25% level, a difference as large or larger would be expected by chance alone in one of four trials.

Table B. Entrants. Nebraska grain sorghum performance tests. 1979.

Brand	Entered by
ACCO	ACCO Seed Plainview, TX 79072
Asgrow	Asgrow Seed Company Des Moines, IA 50053
Cargill	Cargill Seeds Minneapolis, MN 55440
Conlee	Conlee Seed Company Waco, TX 76710
Coop	Farmland Industries, Inc. Kansas City, MO 64116
DeKalb	DeKalb AgResearch Inc. Glenvil, NE 68941
Fontanelle	Fontanelle Hybrids Nickerson, NE 68044
Funk's	Funk Seeds International Lubbock, TX 79404
Golden Acres	Taylor-Evans Seed Company Tulia, TX 79088
Growers	Growers Seed Association Lubbock, TX 79408
Hoegemeyer	Hoegemeyer Hybrids Hooper, NE 68031
Horizon	Horizon Seeds, Inc. Lincoln, NE 68501
Keltgen	Keltgen Seed Company Olivia, MN 56277
McCurdy	McCurdy Seed Company Fremont, IA 52561
McNair	McNair Seed Company Laurinburg, NC 28352
MFA	MFA Seed Division Columbia, MO 65201
Migro-Tekseed	North American Plant Breeders Tekamah, NE 68061
NC +	NC + Hybrids Lincoln, NE 68504
Northrup King	Northrup King Company Minneapolis, MN 55440
Oro	R. C. Young Seed & Grain Company Lubbock, TX 79404
P-A-G	P-A-G Seeds Minneapolis, MN 55440
Pfizer Genetics	Pfizer Genetics Inc. Doniphan, NE 68832
Pioneer	Garst & Thomas Hybrid Corn Company Coon Rapids, IA 50058
Prairie Valley	Prairie Valley, Inc. Phillips, NE 68865
Warner	George Warner Seed Company Hereford, TX 79045
Wilson	Wilson Hybrids, Inc. Harlan, IA 51537
YW	YW Hybrids Grand Junction, IA 50107
-----	Nebraska Agricultural Experiment Station (Martin, NB 505, RS 455, RS 626, RS 671, SD 106, TAM 680)

Table C. Grain sorghum entries and zone where tested. 1979.

Brand	Hybrid	Zone	Brand	Hybrid	Zone
ACCO	GR 108	A	McNair	3164	A
ACCO	R 920	C	MFA	GS-301A	A
ACCO	R 980	C	MFA	GS-303Y	A
ACCO	R 1014	C	Migro-Tekseed	Tek 14R	ABC
ACCO	GR 1018	B	Migro-Tekseed	Tek 16R	AB
ACCO	GR 1028	B	Migro-Tekseed	Tek 35R	A
ACCO	DR 1035	B	Migro-Tekseed	Tek 1011R	BC
ACCO	DR 1085	A	Migro-Tekseed	Tek 1055R	ABC
ACCO	GR 1089	AB	Migro-Tekseed	Exp. 594	A
ACCO	GR 1100	A	Migro-Tekseed	Exp. 560	ABC
ACCO	GR 1138	A	-----	NB 505	ABC
ACCO	GR 1200	A	NC +	55X	BC
Asgrow	Bug Off E	B	NC +	161	B
Asgrow	Colt	A	NC +	168	A
Asgrow	Corral	AB	NC +	170	A
Asgrow	Mustang	AB	NC +	172	A
Asgrow	Topaz	AB	Northrup King	NK 121A	C
Cargill	30	ABC	Northrup King	NK 129	C
Cargill	60	AB	Northrup King	1580	C
Cargill	70	AB	Northrup King	2018	B
Conlee	Rawhide GBR	A	Northrup King	2030	B
Conlee	Top Hand II	A	Northrup King	2474Y	AB
Co-op	17-GBR	ABC	Northrup King	2670	A
Co-op	40-GBR	AB	Northrup King	2778	A
Dekalb	A-25a+	C	Northrup King	X3207	C
Dekalb	A-28+	C	Northrup King	X3249	B
Dekalb	B-38+	BC	Oro Hybrids	Oro G	AB
Dekalb	B-39y+	B	Oro Hybrids	Oro G Xtra	AB
Dekalb	B-42a+	AB	Oro Hybrids	Oro T G	A
Dekalb	C-46+	AB	P-A-G	3387	A
Dekalb	DD-50+	BC	P-A-G	4433	ABC
Dekalb	DK-57	AB	P-A-G	4474	AB
Dekalb	DK-61	A	P-A-G	4488	A
Dekalb	DK-67	A	P-A-G	5514	AB
Dekalb	E-59+	A	Pfizer Genetics	M56G	AB
Fontanelle	G-26	B	Pfizer Genetics	M548G	C
Fontanelle	G-30	A	Pfizer Genetics	M550G	ABC
Fontanelle	G3X50	C	Pfizer Genetics	M568G	A
Fontanelle	G3X80	AB	Pioneer	8272	A
Fontanelle	G5547	AB	Pioneer	8324	A
Funk's	G-499GBR	AB	Pioneer	8451	A
Funk's	G-611	A	Pioneer	8475	AB
Funk's	G-623GBR	A	Pioneer	8501	AB
Golden Acres	T-E Dinero	AB	Pioneer	8626	AB
Golden Acres	T-E Grainmaster-R	C	Pioneer	8790	BC
Golden Acres	T-E Y44-R	C	Pioneer	8914	C
Golden Acres	T-E Y45	ABC	Prairie Valley	PV521G	B
Golden Acres	T-E Y101-D	AB	Prairie Valley	PV530G	AB
Golden Acres	T-E Y101-R	AB	Prairie Valley	PV535G	AB
Golden Acres	T-E Y111	AB	Prairie Valley	PV677G	A
Growers	GSA 1100	C	Prairie Valley	PV708G	A
Growers	GSA 1212	A	Prairie Valley	PV734G	A
Growers	GSA 1236	B	-----	RS 455	C
Growers	GSA 1290	A	-----	RS 626	AB
Growers	GSA 1310A	A	-----	RS 671	AB
Hoegemeyer	656	B	-----	SD 106	C
Hoegemeyer	Exp. 78-1	B	-----	TAM 680	A
Horizon	95G	AB	Warner	W-545T	C
Horizon	101G	AB	Warner	W-564T	B
Horizon	104G	A	Warner	W-655T	AB
Keltgen	KG65T	A	Warner	W-664T	AB
Keltgen	KG70T	A	Warner	W-666T	A
Keltgen	KG75T	A	Warner	W-839T	A
Keltgen	Exp. 63T	A	Warner	W-867DR	A
-----	Martin	AB	Wilson	615G	AB
McCurdy	M16YG	AB	Wilson	619G	AB
McCurdy	M17YG	A	YW Hybrids	GBT 505	A
McCurdy	M51YG	AB	YW Hybrids	GBT 606	A
McCurdy	M89YG	B	YW Hybrids	GBT 612	A
McNair	3191	A	YW Hybrids	DR 614	A

RESULTS

The high average yield for the state indicates favorable weather conditions for grain sorghum in 1979. Summer months were generally cooler than average. The crop was behind normal in late summer. Above-normal September temperatures and late frost allowed later-maturing entries to mature.

The average performance of all entries at each test location is shown in Table D. Yields were especially high in Zone A. Lodging was high in Zone B. Zone C yields were high for this area.

The maturity-yield correlation (r value) is an indication of the relationship between maturity as measured by days to bloom and grain yield. In 1979, highly significant correlations between days to bloom and grain moisture were observed in two of three Zone A trials. Maturity and yield were not related in Lincoln County. In Cheyenne County, a highly significant negative correlation between maturity and grain yield was obtained. This indicates that later-maturing entries were lowest in grain yield. Even though the correlations were highly significant, they do not account for a major portion of the observed yield differences.

The average performance of entries included in trials over a five-year period is shown in Table E. These data show the effect of season on the characters measured. The same hybrids were averaged within each zone.

Zone A

One hundred one entries were grown at three Zone A locations in 1979. Average data are reported in Table 1a and individual location information from tests in Saunders, Franklin and Clay (irrigated) Counties are shown in Tables 1b, 1c and 1d respectively.

The Saunders and Clay County yields represent new high performance for these locations. Excellent nonirrigated yields also were obtained in Franklin County.

Later maturity as measured by days to bloom was correlated with higher grain yield in Saunders and Clay Counties. This relationship was nonsignificant in Franklin County. In nine of the last eleven years, later maturity was correlated with higher grain yield. Only in 1974, a very drouthy year, was earlier maturity related to higher grain yield. In 1971 there was no significant relationship between maturity and grain yield. Generally in south central and southeast Nebraska under favorable moisture conditions, the latest-maturing hybrids which mature before frost have given the highest grain yields. In seasons of severe moisture stress or early frosts, late hybrids were at a comparative yield disadvantage.

Period of years data for Zone A are given in Table 1e and 1f. Fifty four entries were included in two-year, 33 in three-year, 18 in four-year and 8 in five-year averages.

Zone B

No yield data were obtained from the trial in Hitchcock County. Early growing conditions were good in Lincoln County. The test was treated for grasshoppers in late June. Greenbug populations were heavy through August.

September was warm and dry. High temperatures (102° F) and heavy winds on September 8 placed plants under stress. Fall storms with wind and snow delayed harvest. Final harvest was completed in mid-December.

Final yields were near the five year average level (Table 2a). The combination of greenbugs, heat stresses and high winds with snow caused excessive stlak lodging. This was associated with Fusarium stalk rot infection.

Maturity was not related to grain yield in 1979. During the last eleven years, later maturity was significantly correlated with higher grain yield in four seasons, early maturity was related to lower yields in three seasons and there was no relationship between maturity and yield in three seasons. This gives an indication of the high year-to-year variability in relative performance of grain sorghums in southwest Nebraska.

Period of years data for Zone B are shown in Tables 2b and 2c. A total of 48 entries were included in two-year, 30 in three-year, 14 in four-year and 6 in five-year averages. Because of variability in hybrid performance over years, yield differences in three-and four-years averages were non-significant.

Zone C

In Cheyenne County, early season moisture was good. Mid-summer moisture was short but temperatures were cooler than normal. September temperatures were much higher than usual. Most entries were green when killed by frost on October 4.

Final yields were much higher than the five-year average (Table 2a). There was a highly significant negative correlation between days to bloom and yield indicating that later maturity was accompanied by lower grain yield. This is usual at this location. In tests beginning in 1967, the 1977 season was the only exception to this trend. This indicates that the Panhandle of Nebraska requires earlier hybrids than areas further east at lower elevations. Cheyenne County (Zone C) has the same latitude as Saunders County (Zone A). Corresponding elevations are 4320 feet (1316 meters) at the High Plains Agricultural Laboratory and 1180 feet (1360 meters) at the Mead Field Laboratory (Saunders County).

Period of years data for Cheyenne County are shown in Table 3b.

Measurement data in this circular are given in currently used U.S. units followed by the metric units in parentheses ( ). Some equivalents and conversions used are as follows:

1 centimeter	=	0.394 inches	cm	=	inches x 2.54
1 hectare	=	2.471 acres	ha	=	acres x 0.405
1 kilogram	=	2.205 pounds	kg	=	pounds x 0.454
1 hectoliter	=	2.838 bushels	hl		bushels x 0.352
1 metric ton	=	2,204.6 pounds	metric ton	=	tons x 0.9072

kilogram/hectoliter (kg/hl) = lb/bu x 1.287
Kilogram/hectare (kg/ha) = bu/A x 62.78 (56# bushel)
metric ton = bushels x 0.0254

Table D. Average performance at each test location. 1979. Grain sorghum.

Location	Planted	Seed spacing 1/	Planting to bloom	Plant height	Head exsertion	Lodging	Test weight	Grain yield	Yield C.V.	Maturity yield correlation 1/
	date	in (cm)	days	in (cm)	in (cm)	%	lb/bu (kg/hl)	bu/A (kg/ha)	%	r
Zone A (101 entries)										
Saunders	May 25	3.3 (8)	69.3	45.7 (116)	5.0 (13)	----	61.0 (78.5)	144.0 (9040)	7.1	.57**
Franklin	June 4	3.8 (10)	80.3	43.6 (111)	4.6 (12)	2.8	57.3 (73.7)	118.9 (7465)	13.2	.14
Clay (irrigated)	June 1	2.9 (7)	72.2	44.7 (114)	4.6 (12)	----	57.3 (73.7)	147.8 (9279)	10.0	.44**
Average (3 locations)	-----	---	73.8	44.6 (113)	4.6 (12)	----	58.5 (75.3)	136.9	----	.44**
Zone B (70 entries)										
Lincoln	May 25-June 4	4.0 (10)	75.7	45.4 (115)	---	64.2	56.7 (73.0)	67.0 (4206)	21.4	.01
Zone C (32 entries)										
Cheyenne	May 23	4.8 (12)	86.3	35.2 (89)	---	----	51.2 (65.9)	45.4 (2850)	16.4	-.59**

1/ Live seed basis. All row spacings were 30 inches (76 cm).
2/ Correlation of average days to bloom for zone with acre grain yield. Higher r values indicate closer relationship. Negative values indicate that later bloom was accompained by lower yield. ** highly significant (.01).

Table E. Grain sorghum. Average performance by years. Entries common over years within zones. 1975-1979.

Zone and year	Planting to bloom	Plant height	Head exsertion	Early grain moisture	Lodging	Test weight	Grain yield
	days	in (cm)	in (cm)	%	%	lb/bu	bu/A (kg/ha)
Zone A (8 entries)							
1975	73.4	42.0 (107)	3.5 (9)	32.2	----	57.9	93.1 (5840)
1976	70.9	43.3 (110)	4.6 (12)	27.1	----	56.1	98.4 (6180)
1977	65.5	37.4 (95)	3.1 (8)	23.1	13.3	53.1	60.3 (3790)
1978	73.4	47.8 (121)	5.0 (13)	----	0.8	56.1	111.2 (6980)
1979	73.3	46.4 (118)	5.1 (13)	21.7	3.0	59.0	119.6 (7510)
Five-year av.	71.2	43.3 (110)	4.3 (11)	----	----	56.4	96.5 (6060)
Zone B (6 entries)							
1975	71.8	39.2 (100)	4.6 (12)	24.0	23.9	58.7	71.5 (4490)
1976	73.6	41.2 (105)	--- --	----	19.8	57.8	67.6 (4240)
1977	66.7	42.6 (108)	--- --	----	6.2	59.2	88.2 (5540)
1978	74.3	35.9 (91)	--- --	----	25.6	57.4	54.2 (3400)
1979	74.7	46.0 (117)	--- --	----	69.0	56.2	63.9 (4010)
Five-year av.	72.2	41.0 (104)	--- --	----	28.8	57.9	69.0 (4330)
Zone C (7 entries)							
1975	82.6	33.9 (86)	3.8 (10)	----	----	51.8	21.1 (1320)
1976	85.7	37.0 (94)	--- --	----	31.0	48.2	22.9 (1440)
1977	68.8	34.5 (88)	--- --	----	16.7	55.9	39.7 (2490)
1978	85.9	38.9 (99)	--- --	21.7	3.1	50.1	42.1 (2640)
1979	80.4	34.7 (88)	--- --	----	----	54.2	51.7 (3250)
Five-year av.	80.7	35.7 (91)	--- --	----	17.0	52.1	35.6 (2240)

Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter

TABLE 1a. ZONE A. 1979. SAUNDERS, FRANKLIN AND CLAY (IRR) COUNTIES. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	PLANT HEIGHT (CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	GRAIN YIELD (KG/HA)
		AVERAGE 3 LOCATIONS								
MCCURDY	M17YG	68	40	(102)	5	19	4	57.9	93	(5840)
-----	NB 505	68	45	(114)	7	16	4	59.1	80	(5020)
WARNER	W-655T	69	48	(122)	7	20	2	60.3	145	(9100)
GOLDEN ACRES	T-E Y111	70	44	(112)	5	24	4	59.4	129	(8100)
MCNAIR	3191	70	42	(107)	4	23	2	58.8	107	(6720)
MIGRO-TEKSEED	EXP. 560	70	46	(117)	6	24	2	59.8	139	(8730)
YW HYBRIDS	GBT 505	70	38	(97)	4	19	2	57.0	117	(7350)
YW HYBRIDS	GBT 606	70	48	(122)	6	25	2	60.0	146	(9170)
DEKALB	C-42A+	71	43	(109)	5	22	2	56.8	140	(8790)
FONTANELLE	G3X80	71	44	(112)	4	19	3	58.6	129	(8100)
FUNK'S	G-499GBR	71	37	(94)	2	22	1	56.6	126	(7910)
GOLDEN ACRES	T-E Y45	71	47	(119)	6	24	5	57.1	135	(8480)
KELTGEN	EXP. 63T	71	48	(122)	6	25	2	60.2	148	(9290)
P-A-G	4433	71	45	(114)	5	23	2	58.3	122	(7660)
PRAIRIE VALLEY	PV530G	71	46	(117)	5	21	2	60.1	141	(8850)
PRAIRIE VALLEY	PV535G	71	47	(119)	6	21	5	60.2	141	(8850)
MIGRO-TEKSEED	TEK 1055R	71	49	(124)	6	24	5	60.2	151	(9480)
WARNER	W-666T	71	45	(114)	5	21	2	59.8	135	(8480)
ACCO	GR 1089	72	44	(112)	5	23	1	57.2	132	(8290)
CARGILL	30	72	45	(114)	5	25	4	59.1	123	(7720)
CO-OP	17-GBR	72	45	(114)	4	25	2	57.8	133	(8350)
FONTANELLE	G5547	72	49	(124)	7	20	2	60.1	148	(9290)
KELTGEN	KG65T	72	47	(119)	6	22	5	58.5	124	(7780)
MCNAIR	3164	72	40	(102)	5	23	3	59.8	131	(8220)
PIONEER	8501	72	46	(117)	5	23	2	60.5	133	(8350)
PIONEER	8475	72	42	(107)	3	24	1	60.0	125	(7850)
-----	RS 626	72	45	(114)	5	18	3	57.8	106	(6650)
PFIZER GENETICS	M56G	72	43	(109)	4	25	3	57.3	130	(8160)
ACCO	GR 108	73	43	(109)	4	25	2	57.4	141	(8850)
ACCO	DR 1085	73	43	(109)	5	22	3	60.2	135	(8480)
CO-OP	40-GBR	73	43	(109)	4	25	3	57.1	147	(9230)
GOLDEN ACRES	T-E Y101-D	73	46	(117)	4	25	2	60.8	143	(8980)
HORIZON	95G	73	43	(109)	5	25	3	57.1	139	(8730)
KELTGEN	KG75T	73	46	(117)	5	22	3	58.1	140	(8790)
CONLEE	RAWHIDE GBR	73	43	(109)	4	26	3	56.9	135	(8480)
MCCURDY	M51YG	73	43	(109)	4	26	2	57.4	147	(9230)
NC+	170	73	43	(109)	4	26	2	57.8	140	(8790)
PIONEER	8451	73	47	(119)	6	22	4	55.8	138	(8660)
PIONEER	8626	73	40	(102)	5	21	3	58.3	120	(7530)
WARNER	W-839T	73	43	(109)	4	25	3	57.3	134	(8410)
WARNER	W-664T	73	47	(119)	5	22	1	59.9	146	(9170)
PFIZER GENETICS	M550G	73	49	(124)	7	23	3	60.1	148	(9290)
YW HYBRIDS	GBT 612	73	43	(109)	4	25	2	57.4	133	(8350)
ASGROW	CORRAL	74	48	(122)	6	23	3	60.2	143	(8980)
CARGILL	60	74	42	(107)	4	27	3	57.4	132	(8290)
DEKALB	DK-57	74	45	(114)	4	24	1	59.8	140	(8790)
FONTANELLE	G-30	74	43	(109)	4	29	2	57.1	143	(8980)
FUNK'S	G-623GBR	74	43	(109)	4	25	2	56.8	148	(9290)
GOLDEN ACRES	T-E Y101-R	74	42	(107)	4	26	4	56.8	153	(9610)
GROWERS	GSA 1290	74	43	(109)	4	23	4	59.7	145	(9100)
KELTGEN	KG70T	74	41	(104)	4	27	2	56.9	129	(8100)
MCCURDY	M16YG	74	42	(107)	4	30	3	57.3	138	(8660)
MFA	GS-303Y	74	44	(112)	3	30	4	55.9	128	(8040)

CONTINUED

TABLE 1a. CONCLUDED.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	(CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	(KG/HA)
		AVERAGE 3 LOCATIONS								
NC+	168	74	42	(107)	4	23	1	56.8	144	(9040)
P-A-G	5514	74	44	(112)	4	27	3	57.2	137	(8600)
P-A-G	3387	74	44	(112)	4	25	3	57.3	127	(7970)
P-A-G	4474	74	44	(112)	4	25	2	57.4	148	(9290)
P-A-G	4488	74	41	(104)	4	22	5	57.5	115	(7220)
-----	RS 671	74	47	(119)	5	24	4	58.0	132	(8290)
ORO HYBRIDS	ORO G	74	41	(104)	4	25	1	56.4	135	(8480)
ORO HYBRIDS	ORO T G	74	51	(130)	6	25	4	57.9	143	(8980)
MIGRO-TEKSEED	TEK 35R	74	43	(109)	4	26	3	57.8	134	(8410)
WILSON	619G	74	42	(107)	5	27	4	56.8	133	(8350)
WILSON	615G	74	46	(117)	5	26	3	57.8	136	(8540)
ACCO	GR(2) 1200	75	41	(104)	4	25	2	58.4	132	(8290)
ASGROW	MUSTANG	75	43	(109)	4	28	2	59.8	145	(9100)
DEKALB	C-46+	75	50	(127)	6	23	4	59.5	133	(8350)
-----	MARTIN	75	44	(112)	6	15	4	59.1	86	(5400)
PIONEER	8324	75	44	(112)	4	24	3	59.7	143	(8980)
MIGRO-TEKSEED	TEK 16R	75	44	(112)	3	26	2	56.6	125	(7850)
MIGRO-TEKSEED	TEK 14R	75	48	(122)	7	27	2	60.7	146	(9170)
-----	TAM 680	75	53	(135)	5	24	3	60.0	134	(8410)
ASGROW	TOPAZ	76	44	(112)	4	28	3	60.7	152	(9540)
CARGILL	70	76	41	(104)	4	29	4	59.2	145	(9100)
DEKALB	E-59+	76	46	(117)	5	29	2	57.6	142	(8910)
DEKALB	DK-67	76	52	(132)	5	33	6	57.1	156	(9790)
GROWERS	GSA 1212	76	48	(122)	6	27	3	59.4	148	(9290)
GROWERS	GSA 1310A	76	43	(109)	4	27	3	59.7	140	(8790)
HORIZON	101G	76	42	(107)	4	27	2	60.0	146	(9170)
MFA	GS-301A	76	42	(107)	4	25	2	59.3	138	(8660)
NC+	172	76	42	(107)	4	26	2	59.5	142	(8910)
NORTHRUP KING	2778	76	48	(122)	5	28	4	59.9	151	(9480)
NORTHRUP KING	2474Y	76	44	(112)	5	28	3	58.1	120	(7530)
NORTHRUP KING	2670	76	50	(127)	4	23	3	59.4	149	(9350)
PIONEER	8272	76	44	(112)	4	31	5	57.8	143	(8980)
PRAIRIE VALLEY	PV677G	76	45	(114)	5	26	3	60.0	152	(9540)
PRAIRIE VALLEY	PV708G	76	48	(122)	5	28	2	60.5	154	(9670)
PRAIRIE VALLEY	PV734G	76	42	(107)	4	25	3	59.5	145	(9100)
MIGRO-TEKSEED	EXP. 594	76	42	(107)	4	26	2	59.5	150	(9420)
ACCO	GR(2) 1100	77	42	(107)	4	25	3	57.7	127	(7970)
CONLEE	TOP HAND II	77	45	(114)	4	32	6	58.2	147	(9230)
DEKALB	DK-61	77	47	(119)	4	29	2	59.5	149	(9350)
FUNK'S	G-611	77	47	(119)	5	27	3	58.8	148	(9290)
GOLDEN ACRES	T-E DINERO	77	45	(114)	4	25	3	58.3	150	(9420)
HORIZON	104G	77	49	(124)	6	33	2	60.1	150	(9420)
ORO HYBRIDS	ORO G XTRA	77	49	(124)	4	28	3	58.8	158	(9920)
PFIZER GENETICS	M568G	77	43	(109)	4	28	3	59.8	142	(8910)
YW HYBRIDS	DR 614	77	44	(112)	4	28	3	58.2	147	(9230)
ACCO	GR 1138	78	41	(104)	4	27	2	57.1	124	(7780)
WARNER	W-867DR	78	46	(117)	3	33	4	58.2	140	(8790)
ASGROW	COLT	80	45	(114)	3	33	2	56.6	152	(9540)
AVERAGE ALL ENTRIES		73.8	44.6	(118)	4.6	2.5	2.8	58.5	136.9	(8595)
Dif. req. for sig. 5%		2.1	2.3	(6)	1.1	4.5	2.4	1.6	15.9	(998)
25%		1.2	1.3	(3)	0.6	2.6	1.4	0.9	9.3	(584)

Early grain moisture - Saunders County only.
Lodging - Franklin County only.
Metric conversion for head exsertion: 2.54 x in = centimeters.
Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectare.

TABLE 1b. ZONE A. 1979. SAUNDERS COUNTY. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	(CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	(KG/HA)
-----	NB 505	62	46	(117)	10	16	.	59.7	78	(4900)
MCCURDY	M17YG	64	43	(109)	6	19	.	59.4	105	(6590)
GOLDEN ACRES	T-E Y111	62	44	(112)	5	24	.	61.4	129	(8100)
MIGRO-TEKSEED	EXP. 560	67	47	(119)	6	24	.	61.4	150	(9420)
WARNER	W-655T	67	48	(122)	8	20	.	61.5	149	(9350)
MCNAIR	3191	66	43	(109)	5	23	.	60.2	115	(7220)
YW HYBRIDS	GBT 606	68	48	(122)	7	25	.	61.2	152	(9540)
YW HYBRIDS	GBT 505	66	40	(102)	5	19	.	58.0	117	(7350)
GOLDEN ACRES	T-E Y45	66	49	(124)	7	24	.	59.7	137	(8600)
KELTGEN	EXP. 63T	67	48	(122)	7	25	.	61.6	157	(9860)
P-A-G	4433	67	47	(119)	6	23	.	59.5	136	(8540)
PRAIRIE VALLEY	PV530G	67	47	(119)	6	21	.	61.4	141	(8850)
MIGRO-TEKSEED	TEK 1055R	68	49	(124)	7	24	.	61.6	160	(10040)
FUNK'S	G-499GBR	66	38	(97)	2	22	.	59.5	122	(7660)
PRAIRIE VALLEY	PV535G	66	48	(122)	6	21	.	61.5	157	(9860)
DEKALB	C-42A+	66	44	(112)	7	22	.	59.6	142	(8910)
FONTANELLE	G3X80	66	45	(114)	5	19	.	60.8	140	(8790)
MCNAIR	3164	66	43	(109)	7	23	.	62.0	138	(8660)
WARNER	W-666T	66	47	(119)	7	21	.	60.8	134	(8410)
ACCO	GR 1089	68	47	(119)	6	23	.	60.1	138	(8660)
CARGILL	30	68	45	(114)	6	25	.	60.3	124	(7780)
CO-OP	17-GBR	66	47	(119)	5	25	.	59.7	127	(7970)
FONTANELLE	G5547	67	49	(124)	7	20	.	61.2	148	(9290)
PIONEER	8501	68	47	(119)	5	23	.	62.5	133	(8350)
PIONEER	8475	69	43	(109)	4	24	.	60.8	133	(8350)
-----	RS 626	67	47	(119)	6	18	.	59.8	125	(7850)
PFIZER GENETICS	M56G	68	44	(112)	5	25	.	60.3	136	(8540)
KELTGEN	KG65T	67	49	(124)	8	22	.	61.2	127	(7970)
WARNER	W-839T	68	45	(114)	5	25	.	60.6	141	(8850)
HORIZON	95G	68	45	(114)	6	25	.	60.6	139	(8730)
KELTGEN	KG75T	68	46	(117)	5	22	.	60.4	134	(8410)
MCCURDY	M51YG	68	45	(114)	4	26	.	60.0	140	(8790)
WARNER	W-664T	68	47	(119)	6	22	.	61.5	153	(9610)
ACCO	GR 108	68	44	(112)	4	25	.	60.4	143	(8980)
CO-OP	40-GBR	68	45	(114)	4	25	.	60.6	141	(8850)
DEKALB	DK-57	68	45	(114)	3	24	.	61.4	147	(9230)
GOLDEN ACRES	T-E Y101-D	71	48	(122)	5	25	.	62.5	151	(9480)
CONLEE	RAWHIDE GBR	69	44	(112)	6	26	.	60.4	132	(8290)
NC+	170	69	44	(112)	6	26	.	60.8	146	(9170)
PIONEER	8451	68	47	(119)	6	22	.	59.5	139	(8730)
YW HYBRIDS	GBT 612	69	45	(114)	5	25	.	60.5	139	(8730)
ACCO	DR 1085	69	45	(114)	6	22	.	62.1	144	(9040)
CARGILL	60	70	44	(112)	5	27	.	61.0	142	(8910)
NC+	168	69	44	(112)	5	23	.	59.8	143	(8980)
PIONEER	8626	68	43	(109)	6	21	.	59.9	128	(8040)
ORO HYBRIDS	ORO T G	69	50	(127)	7	25	.	60.6	146	(9170)
PFIZER GENETICS	M550G	69	49	(124)	8	23	.	61.8	162	(10170)
FONTANELLE	G-30	70	44	(112)	4	29	.	61.0	148	(9290)
GOLDEN ACRES	T-E Y101-R	71	43	(109)	4	26	.	60.4	158	(9920)
P-A-G	3387	69	43	(109)	4	25	.	61.1	133	(8350)
P-A-G	4488	69	43	(109)	4	22	.	59.3	135	(8480)
ORO HYBRIDS	ORO G	70	44	(112)	5	25	.	60.3	145	(9100)
MIGRO-TEKSEED	TEK 35R	69	45	(114)	5	26	.	60.9	145	(9100)

CONTINUED

TABLE 1b. CONCLUDED.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	(CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	(KG/HA)
WILSON	619G	68	44	(112)	5	27	.	60.1	144	(9040)
ASGROW	CORRAL	68	50	(127)	7	23	.	61.6	141	(8850)
FUNK'S	G-623GBR	70	45	(114)	4	25	.	60.2	153	(9610)
GROWERS	GSA 1290	70	44	(112)	4	23	.	61.8	150	(9420)
KELTGEN	KG70T	71	44	(112)	3	27	.	59.4	146	(9170)
MCCURDY	M16YG	70	43	(109)	4	30	.	60.8	147	(9230)
P-A-G	5514	69	45	(114)	4	27	.	60.5	142	(8910)
P-A-G	4474	69	44	(112)	4	25	.	60.8	155	(9730)
-----	RS 671	70	47	(119)	5	24	.	59.9	137	(8600)
WILSON	615G	69	46	(117)	5	26	.	60.2	139	(8730)
-----	MARTIN	68	45	(114)	8	15	.	60.1	100	(6280)
MFA	GS-303Y	71	45	(114)	2	30	.	60.4	141	(8850)
ASGROW	MUSTANG	72	43	(109)	5	28	.	62.1	150	(9420)
PIONEER	8324	70	45	(114)	3	24	.	61.4	136	(8540)
MIGRO-TEKSEED	TEK 14R	71	47	(119)	8	27	.	62.4	144	(9040)
ACCO	GR(2) 1200	72	42	(107)	3	25	.	61.4	142	(8910)
DEKALB	C-46+	70	51	(130)	6	23	.	62.2	136	(8540)
MIGRO-TEKSEED	TEK 16R	70	45	(114)	3	26	.	60.5	135	(8480)
-----	TAM 680	71	53	(135)	4	24	.	62.3	141	(8850)
ASGROW	TOPAZ	71	47	(119)	4	28	.	62.3	162	(10170)
DEKALB	E-59+	71	49	(124)	5	29	.	61.1	152	(9540)
GROWERS	GSA 1310A	71	44	(112)	4	27	.	61.9	154	(9670)
NC+	172	72	44	(112)	4	26	.	62.2	169	(10610)
PRAIRIE VALLEY	PV677G	70	46	(117)	5	26	.	61.9	158	(9920)
PRAIRIE VALLEY	PV708G	72	48	(122)	4	28	.	62.6	163	(10230)
PRAIRIE VALLEY	PV734G	71	43	(109)	4	25	.	62.2	162	(10170)
MIGRO-TEKSEED	EXP. 594	70	45	(114)	5	26	.	61.5	151	(9480)
CARGILL	70	71	44	(112)	4	29	.	61.9	166	(10420)
DEKALB	DK-67	75	53	(135)	6	33	.	60.2	156	(9790)
FUNK'S	G-611	72	46	(117)	5	27	.	61.2	153	(9610)
GROWERS	GSA 1212	72	50	(127)	6	27	.	61.6	160	(10040)
NORTHRUP KING	2778	72	48	(122)	5	28	.	61.9	157	(9860)
NORTHRUP KING	2474Y	70	45	(114)	5	28	.	61.5	156	(9790)
NORTHRUP KING	2670	71	52	(132)	4	23	.	61.6	160	(10040)
GOLDEN ACRES	T-E OINERO	71	47	(119)	3	25	.	61.1	152	(9540)
HORIZON	101G	72	43	(109)	5	27	.	62.1	156	(9790)
HORIZON	104G	72	49	(124)	6	33	.	62.0	160	(10040)
MFA	GS-301A	71	45	(114)	5	25	.	61.8	153	(9610)
ORO HYBRIDS	ORO G XTRA	72	51	(130)	3	28	.	62.2	174	(10920)
PFIZER GENETICS	M568G	73	43	(109)	3	28	.	62.6	147	(9230)
PIONEER	8272	73	44	(112)	3	31	.	60.2	145	(9100)
YW HYBRIDS	DR 614	72	45	(114)	3	28	.	61.4	163	(10230)
ACCO	GR(2) 1100	73	43	(109)	4	25	.	61.4	138	(8660)
CONLEE	TOP HAND II	72	46	(117)	3	32	.	61.2	156	(9790)
DEKALB	DK-61	74	47	(119)	5	29	.	62.3	154	(9670)
WARNER	W-867DR	73	46	(117)	2	33	.	62.0	164	(10300)
ACCO	GR 1138	73	43	(109)	5	27	.	61.4	136	(8540)
ASGROW	COLT	77	46	(117)	3	33	.	61.9	168	(10550)
AVERAGE ALL ENTRIES		69.3	45.7	(116)	5.0	25.0		61.0	144.0	(9040)
DIF. REQ. FOR SIG.	5%	2.5	2.5	(6)	1.7	4.5		0.7	142.0	(891)
	25%	1.5	1.5	(4)	1.0	2.6		0.4	8.3	(521)

Metric conversion for head exsertion: 2.54 x in. = centimeters.
Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter

TABLE 1c. ZONE A. 1979. FRANKLIN COUNTY. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	(CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	(KG/HA)
-----	NB 505	74	43	(109)	6	.	4	58.7	80	(5020)
MCCURDY	M17YG	74	39	(99)	4	.	4	57.0	82	(5150)
GOLDEN ACRES	T-E Y111	77	43	(109)	5	.	4	58.6	123	(7720)
MIGRO-TEKSEED	EXP. 560	74	45	(114)	5	.	2	58.5	104	(6530)
WARNER	W-655T	73	49	(124)	6	.	2	59.9	129	(8100)
MCNAIR	3191	75	41	(104)	4	.	2	58.7	88	(5520)
YW HYBRIDS	GBT 606	73	48	(122)	6	.	2	59.3	127	(7970)
YW HYBRIDS	GBT 505	76	37	(94)	3	.	2	57.5	104	(6530)
GOLDEN ACRES	T-E Y45	78	47	(119)	6	.	5	55.3	116	(7280)
KELTGEN	EXP. 63T	76	50	(127)	6	.	2	59.9	137	(8600)
P-A-G	4433	76	43	(109)	5	.	2	57.6	99	(6220)
PRAIRIE VALLEY	PV530G	75	46	(117)	5	.	2	59.7	133	(8350)
MIGRO-TEKSEED	TEK 1055R	75	48	(122)	5	.	5	59.5	136	(8540)
FUNK'S	G-499GBR	78	37	(94)	3	.	1	55.1	128	(8040)
PRAIRIE VALLEY	PV535G	78	46	(117)	6	.	5	59.4	109	(6840)
DEKALB	C-42A+	79	42	(107)	4	.	2	56.0	129	(8100)
FONTANELLE	G3X80	78	43	(109)	4	.	3	58.6	118	(7410)
MCNAIR	3164	79	40	(102)	4	.	3	59.3	111	(6970)
WARNER	W-666T	80	46	(117)	5	.	2	59.1	130	(8160)
ACCO	GR 1089	78	43	(109)	4	.	1	56.5	129	(8100)
CARGILL	30	79	46	(117)	5	.	4	58.7	117	(7350)
CO-OP	17-GBR	81	44	(112)	4	.	2	56.7	127	(7970)
FONTANELLE	G5547	81	47	(119)	6	.	2	59.4	136	(8540)
PIONEER	8501	79	45	(114)	4	.	2	60.0	121	(7600)
PIONEER	8475	79	41	(104)	3	.	1	59.9	105	(6590)
-----	RS 626	78	42	(107)	4	.	3	57.0	75	(4710)
PFIZER GENETICS	M56G	79	43	(109)	4	.	3	56.5	104	(6530)
KELTGEN	KG65T	81	47	(119)	5	.	5	57.6	109	(6840)
WARNER	W-839T	78	42	(107)	4	.	3	55.9	116	(7280)
HORIZON	95G	80	41	(104)	4	.	3	55.7	130	(8160)
KELTGEN	KG75T	80	45	(114)	5	.	3	57.4	134	(8410)
MCCURDY	M51YG	79	42	(107)	5	.	2	56.9	149	(9350)
WARNER	W-664T	80	47	(119)	5	.	1	58.8	134	(8410)
ACCO	GR 108	81	42	(107)	4	.	2	56.1	134	(8410)
CO-OP	40-GBR	80	41	(104)	4	.	3	56.0	141	(8850)
DEKALB	DK-57	82	45	(114)	4	.	1	58.1	134	(8410)
GOLDEN ACRES	T-E Y101-D	77	44	(112)	5	.	2	60.0	126	(7910)
CONLEE	RAWHIDE GBR	79	42	(107)	4	.	3	55.4	118	(7410)
NC+	170	79	43	(109)	4	.	2	56.8	121	(7600)
PIONEER	8451	81	47	(119)	5	.	4	53.5	118	(7410)
YW HYBRIDS	GBT 612	79	42	(107)	4	.	2	56.3	107	(6720)
ACCO	DR 1085	82	41	(104)	5	.	3	59.0	123	(7720)
CARGILL	60	79	41	(104)	4	.	3	55.9	111	(6970)
NC+	168	79	42	(107)	4	.	1	55.9	135	(8480)
PIONEER	8626	81	40	(102)	4	.	3	57.9	111	(6970)
ORO HYBRIDS	ORO T G	80	47	(119)	5	.	4	56.3	121	(7600)
PFIZER GENETICS	M550G	81	48	(122)	6	.	3	59.3	125	(7850)
FONTANELLE	G-30	80	42	(107)	5	.	2	55.5	115	(7220)
GOLDEN ACRES	T-E Y101-R	79	41	(104)	4	.	4	55.6	141	(8850)
P-A-G	3387	81	43	(109)	4	.	3	56.2	114	(7160)
P-A-G	4488	81	39	(99)	5	.	5	57.3	85	(5340)
ORO HYBRIDS	ORO G	80	40	(102)	4	.	1	55.0	101	(6340)
MIGRO-TEKSEED	TEK 35R	81	42	(107)	4	.	3	56.4	99	(6220)

CONTINUED

TABLE 1c. CONCLUDED.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	(CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	(KG/HA)
WILSON	619G	82	42	(107)	5	.	4	54.2	105	(6590)
ASGROW	CORRAL	82	47	(119)	6	.	3	59.2	129	(8100)
FUNK'S	G-623GBR	81	42	(107)	5	.	2	54.8	133	(8350)
GROWERS	GSA 1290	82	43	(109)	5	.	4	59.3	140	(8790)
KELTGEN	KG70T	80	40	(102)	4	.	2	54.9	105	(6590)
MCCURDY	M16YG	81	40	(102)	4	.	3	56.1	116	(7280)
P-A-G	5514	82	45	(114)	4	.	3	55.2	115	(7220)
P-A-G	4474	82	42	(107)	3	.	2	55.1	130	(8160)
-----	RS 671	80	45	(114)	5	.	4	57.6	114	(7160)
WILSON	615G	83	45	(114)	5	.	3	56.9	125	(7850)
-----	MARTIN	84	42	(107)	5	.	4	58.1	66	(4140)
MFA	GS-303Y	79	44	(112)	4	.	4	53.0	107	(6720)
ASGROW	MUSTANG	79	41	(104)	4	.	2	58.6	131	(8220)
PIONEER	8324	83	43	(109)	4	.	3	58.9	138	(8660)
MIGRO-TEKSEED	TEK 14R	82	48	(122)	6	.	2	60.0	132	(8290)
ACCO	GR(2) 1200	80	40	(102)	4	.	2	56.8	123	(7720)
DEKALB	C-46+	82	49	(124)	6	.	4	58.1	120	(7530)
MIGRO-TEKSEED	TEK 16R	82	43	(109)	4	.	2	53.9	99	(6220)
-----	TAM 680	83	51	(130)	4	.	3	59.3	99	(6220)
ASGROW	TOPAZ	82	42	(107)	4	.	3	60.0	135	(8480)
DEKALB	E-59+	83	44	(112)	5	.	2	55.3	122	(7660)
GROWERS	GSA 1310A	82	42	(107)	4	.	3	58.8	111	(6970)
NC+	172	82	40	(102)	4	.	2	58.3	116	(7280)
PRAIRIE VALLEY	PV677G	83	45	(114)	5	.	3	59.0	143	(8980)
PRAIRIE VALLEY	PV708G	81	48	(122)	6	.	2	59.6	131	(8220)
PRAIRIE VALLEY	PV734G	82	43	(109)	4	.	3	58.7	113	(7090)
MIGRO-TEKSEED	EXP. 594	82	40	(102)	4	.	2	58.6	138	(8660)
CARGILL	70	82	39	(99)	4	.	4	57.8	117	(7350)
DEKALB	DK-67	80	50	(127)	6	.	6	55.6	119	(7470)
FUNK'S	G-611	82	48	(122)	5	.	3	57.8	130	(8160)
GROWERS	GSA 1212	81	46	(117)	6	.	3	58.2	121	(7600)
NORTHRUP KING	2778	83	47	(119)	6	.	4	58.5	134	(8410)
NORTHRUP KING	2474Y	84	41	(104)	4	.	3	56.5	79	(4960)
NORTHRUP KING	2670	84	45	(114)	5	.	3	58.0	113	(7090)
GOLDEN ACRES	T-E DINERO	84	44	(112)	4	.	3	57.1	135	(8480)
HORIZON	101G	83	41	(104)	4	.	2	58.8	135	(8480)
HORIZON	104G	82	47	(119)	5	.	2	59.5	135	(8480)
MFA	GS-301A	83	41	(104)	4	.	2	58.0	109	(6840)
ORO HYBRIDS	ORO G XTRA	84	47	(119)	5	.	3	57.0	128	(8040)
PFIZER GENETICS	M568G	82	42	(107)	4	.	3	58.6	132	(8290)
PIONEER	8272	82	42	(107)	4	.	5	56.0	129	(8100)
YW HYBRIDS	DR 614	82	44	(112)	5	.	3	55.9	117	(7350)
ACCO	GR(2) 1100	82	41	(104)	5	.	3	55.9	109	(6840)
CONLEE	TOP HAND II	85	46	(117)	5	.	6	55.9	124	(7780)
DEKALB	DK-61	82	45	(114)	4	.	2	57.9	129	(8100)
WARNER	W-867DR	85	45	(114)	4	.	4	54.9	106	(6650)
ACCO	GR 1138	86	42	(107)	3	.	2	53.6	108	(6780)
ASGROW	COLT	87	45	(114)	4	.	2	51.6	114	(7160)
AVERAGE ALL ENTRIES		80.3	43.6	(111)	4.6		2.8	57.3	118.9	(7465)
DIF. REQ. FOR SIG.	5%	4.2	3.0	(8)	1.1		2.4	1.5	21.8	(1369)
	25%	2.5	1.8	(5)	0.6		1.4	0.9	12.8	(804)

Metric conversion for head exsertion: 2.54 x in = centimeters.
Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter.

TABLE 1d. ZONE A. 1979. CLAY COUNTY IRRIGATED. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	(CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	(KG/HA)
-----	NB 505	67	47	(119)	6	.	.	59.0	82	(5150)
MCCURDY	M17YG	68	40	(102)	5	.	.	57.4	91	(5710)
GOLDEN ACRES	T-E Y111	70	45	(114)	5	.	.	58.1	134	(8410)
MIGRO-TEKSEED	EXP. 560	68	48	(122)	6	.	.	59.5	163	(10230)
WARNER	W-655T	69	49	(124)	6	.	.	59.6	156	(9790)
MCNAIR	3191	69	42	(107)	4	.	.	57.5	117	(7350)
YW HYBRIDS	GBT 606	69	47	(119)	6	.	.	59.6	159	(9980)
YW HYBRIDS	GBT 505	69	36	(91)	3	.	.	55.5	130	(8160)
GOLDEN ACRES	T-E Y45	68	47	(119)	5	.	.	56.4	151	(9480)
KELTGEN	EXP. 63T	69	47	(119)	5	.	.	59.3	150	(9420)
P-A-G	4433	69	45	(114)	6	.	.	57.8	130	(8160)
PRAIRIE VALLEY	PV530G	70	46	(117)	5	.	.	59.3	147	(9230)
MIGRO-TEKSEED	TEK 1055R	69	50	(127)	7	.	.	59.4	157	(9860)
FUNK'S	G-499GBR	69	35	(89)	2	.	.	55.1	129	(8100)
PRAIRIE VALLEY	PV535G	69	47	(119)	6	.	.	59.8	159	(9980)
DEKALB	C-42A+	69	42	(107)	5	.	.	54.9	148	(9290)
FONTANELLE	G3X80	70	43	(109)	4	.	.	56.6	129	(8100)
MCNAIR	3164	70	38	(97)	4	.	.	58.1	144	(9040)
WARNER	W-666T	69	43	(109)	4	.	.	59.6	140	(8790)
ACCO	GR 1089	70	44	(112)	5	.	.	55.0	129	(8100)
CARGILL	30	69	44	(112)	5	.	.	58.3	128	(8040)
CO-OP	17-GBR	69	45	(114)	5	.	.	56.8	145	(9100)
FONTANELLE	G5547	68	51	(130)	7	.	.	59.6	160	(10040)
PIONEER	8501	70	48	(122)	5	.	.	59.1	145	(9100)
PIONEER	8475	69	42	(107)	3	.	.	59.2	137	(8600)
-----	RS 626	72	46	(117)	5	.	.	56.5	118	(7410)
PFIZER GENETICS	M56G	70	42	(107)	4	.	.	55.2	150	(9420)
KELTGEN	KG65T	70	46	(117)	5	.	.	56.8	136	(8540)
WARNER	W-839T	72	42	(107)	4	.	.	55.4	145	(9100)
HORIZON	95G	71	42	(107)	4	.	.	55.0	147	(9230)
KELTGEN	KG75T	71	47	(119)	5	.	.	56.6	150	(9420)
MCCURDY	M51YG	72	41	(104)	4	.	.	55.4	154	(9670)
WARNER	W-664T	71	47	(119)	5	.	.	59.3	149	(9350)
ACCO	GR 108	71	43	(109)	4	.	.	55.7	146	(9170)
CO-OP	40-GBR	72	42	(107)	4	.	.	54.8	158	(9920)
DEKALB	DK-57	70	45	(114)	5	.	.	59.8	138	(8660)
GOLDEN ACRES	T-E Y101-D	72	47	(119)	4	.	.	60.1	154	(9670)
CONLEE	RAWHIDE GBR	72	43	(109)	4	.	.	54.9	155	(9730)
NC+	170	72	42	(107)	4	.	.	56.0	154	(9670)
PIONEER	8451	71	46	(117)	5	.	.	54.5	157	(9860)
YW HYBRIDS	GBT 612	72	41	(104)	4	.	.	55.3	153	(9610)
ACCO	DR 1085	70	42	(107)	5	.	.	59.5	136	(8540)
CARGILL	60	72	42	(107)	4	.	.	55.3	143	(8980)
NC+	168	73	40	(102)	3	.	.	54.9	155	(9730)
PIONEER	8626	72	38	(97)	4	.	.	57.2	122	(7660)
ORO HYBRIDS	ORO T G	72	55	(140)	6	.	.	56.9	162	(10170)
PFIZER GENETICS	M550G	71	52	(132)	7	.	.	59.4	157	(9860)
FONTANELLE	G-30	72	45	(114)	4	.	.	54.7	165	(10360)
GOLDEN ACRES	T-E Y101-R	72	41	(104)	4	.	.	54.5	160	(10040)
P-A-G	3387	72	45	(114)	4	.	.	54.8	135	(8480)
P-A-G	4488	72	40	(102)	4	.	.	56.1	126	(7910)
ORO HYBRIDS	ORO G	72	40	(102)	4	.	.	54.0	157	(9860)
MIGRO-TEKSEED	TEK 35R	72	43	(109)	4	.	.	56.2	159	(9980)

CONTINUED

TABLE 1d. CONCLUDED.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	(CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	(KG/HA)
WILSON	619G	72	42	(107)	5	.	.	56.1	150	(9420)
ASGROW	CORRAL	73	47	(119)	6	.	.	59.8	157	(9860)
FUNK'S	G-623GBR	72	41	(104)	4	.	.	55.5	159	(9980)
GROWERS	GSA 1290	71	42	(107)	4	.	.	57.9	146	(9170)
KELTGEN	KG70T	72	41	(104)	4	.	.	56.4	137	(8600)
MCCURDY	M16YG	72	43	(109)	4	.	.	55.2	151	(9480)
P-A-G	5514	72	41	(104)	3	.	.	56.0	155	(9730)
P-A-G	4474	72	45	(114)	4	.	.	56.4	159	(9980)
-----	RS 671	73	50	(127)	6	.	.	56.5	145	(9100)
WILSON	615G	71	49	(124)	6	.	.	56.5	144	(9040)
-----	MARTIN	72	44	(112)	6	.	.	59.2	93	(5840)
MFA	GS-303Y	74	45	(114)	4	.	.	54.2	136	(8540)
ASGROW	MUSTANG	74	43	(109)	4	.	.	58.6	153	(9610)
PIONEER	8324	72	45	(114)	4	.	.	58.9	157	(9860)
MIGRO-TEKSEED	TEK 14R	72	50	(127)	6	.	.	59.7	163	(10230)
ACCO	GR(2) 1200	74	41	(104)	4	.	.	57.0	133	(8350)
DEKALB	C-46+	74	51	(130)	6	.	.	58.2	143	(8980)
MIGRO-TEKSEED	TEK 16R	74	44	(112)	4	.	.	55.4	141	(8850)
-----	TAM 680	73	57	(145)	5	.	.	58.5	163	(10230)
ASGROW	TOPAZ	75	44	(112)	5	.	.	60.0	158	(9920)
DEKALB	E-59+	74	45	(114)	5	.	.	56.4	150	(9420)
GROWERS	GSA 1310A	75	43	(109)	4	.	.	58.3	155	(9730)
NC+	172	74	43	(109)	4	.	.	58.1	141	(8850)
PRAIRIE VALLEY	PV677G	75	43	(109)	6	.	.	59.1	155	(9730)
PRAIRIE VALLEY	PV708G	75	49	(124)	5	.	.	59.4	168	(10550)
PRAIRIE VALLEY	PV734G	75	41	(104)	4	.	.	57.8	159	(9980)
MIGRO-TEKSEED	EXP. 594	76	41	(104)	4	.	.	58.6	161	(10110)
CARGILL	70	76	42	(107)	4	.	.	58.0	151	(9480)
DEKALB	DK-67	74	54	(137)	5	.	.	55.5	191	(11990)
FUNK'S	G-611	75	48	(122)	5	.	.	57.4	162	(10170)
GROWERS	GSA 1212	76	47	(119)	6	.	.	58.3	164	(10300)
NORTHRUP KING	2778	74	49	(124)	6	.	.	59.3	161	(10110)
NORTHRUP KING	2474Y	75	46	(117)	5	.	.	56.3	125	(7850)
NORTHRUP KING	2670	74	54	(137)	5	.	.	58.6	175	(10990)
GOLDEN ACRES	T-E OINERO	75	44	(112)	4	.	.	56.6	162	(10170)
HORIZON	101G	75	42	(107)	4	.	.	59.1	147	(9230)
HORIZON	104G	76	51	(130)	6	.	.	58.8	156	(9790)
MFA	GS-301A	76	41	(104)	4	.	.	58.1	153	(9610)
ORO HYBRIDS	ORO G XTRA	74	51	(130)	4	.	.	57.1	172	(10800)
PFIZER GENETICS	M568G	75	44	(112)	4	.	.	58.1	147	(9230)
PIONEER	8272	75	44	(112)	4	.	.	57.1	155	(9730)
YW HYBRIDS	DR 614	76	45	(114)	4	.	.	57.3	162	(10170)
ACCO	GR(2) 1100	76	42	(107)	4	.	.	56.0	135	(8480)
CONLEE	TOP HAND II	75	44	(112)	4	.	.	57.7	161	(10110)
DEKALB	DK-61	76	49	(124)	4	.	.	58.3	164	(10300)
WARNER	W-867DR	76	49	(124)	4	.	.	57.7	151	(9480)
ACCO	GR 1138	76	40	(102)	4	.	.	56.4	128	(8040)
ASGROW	COLT	77	45	(114)	3	.	.	56.3	174	(10920)
AVERAGE ALL ENTRIES		77.2	44.7	(114)	4.6			57.3	147.8	(9279)
DIF. REQ. FOR SIG.	5%	1.8	3.5	(9)	1.1			1.2	20.6	(1293)
	25%	1.1	2.1	(5)	0.6					

Metric conversion for head exsertion: 2.54 x in = centimeters.
Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter.

TABLE 1e. ZONE A. 1978-1979. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	PLANT HEIGHT (CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	GRAIN YIELD (KG/HA)
		TWO-YEAR AVERAGE								
-----	NB 505	67	47	(119)	7	16	2	56.3	75	(4710)
FONTANELLE	G3X80	71	45	(114)	5	19	3	57.5	122	(7660)
GOLDEN ACRES	T-E Y111	71	45	(114)	5	24	2	58.2	123	(7720)
ACCO	GR 1089	72	46	(117)	5	23	1	55.5	125	(7850)
FUNK'S	G-499GBR	72	38	(97)	3	22	1	54.6	118	(7410)
GOLDEN ACRES	T-E Y45	72	49	(124)	5	24	3	55.9	125	(7850)
P-A-G	4488	72	43	(109)	4	22	3	56.5	115	(7220)
PFIZER GENETICS	M550G	72	50	(127)	7	23	2	59.1	143	(8980)
ACCO	GR 108	73	44	(112)	4	25	2	56.5	133	(8350)
HORIZON	95G	73	44	(112)	5	25	2	56.1	131	(8220)
CONLEE	RAWHIDE GBR	73	44	(112)	5	26	2	56.5	130	(8160)
MCCURDY	M51YG	73	43	(109)	4	26	2	56.2	137	(8600)
PIONEER	8501	73	47	(119)	5	23	1	59.9	129	(8100)
PIONEER	8475	73	44	(112)	3	24	1	58.9	126	(7910)
-----	RS 626	73	47	(119)	5	18	2	56.5	107	(6720)
ORO HYBRIDS	ORO G	73	43	(109)	4	25	1	56.8	127	(7970)
PFIZER GENETICS	M56G	73	44	(112)	4	25	2	55.8	126	(7910)
WARNER	W-839T	73	44	(112)	4	25	2	56.1	131	(8220)
CO-OP	40-GBR	74	43	(109)	4	25	1	55.4	140	(8790)
FONTANELLE	G-30	74	43	(109)	4	29	1	56.0	134	(8410)
FUNK'S	G-623GBR	74	44	(112)	4	25	1	56.1	135	(8480)
GOLDEN ACRES	T-E Y101-R	74	43	(109)	4	26	2	54.7	140	(8790)
GOLDEN ACRES	T-E Y101-D	74	47	(119)	5	25	1	60.0	136	(8540)
MCCURDY	M16YG	74	44	(112)	4	30	2	55.5	133	(8350)
-----	MARTIN	74	44	(112)	6	15	2	57.5	87	(5460)
NC+	170	74	44	(112)	4	27	2	56.5	135	(8480)
NC+	168	74	43	(109)	4	23	1	55.2	132	(8290)
P-A-G	3387	74	44	(112)	4	25	1	56.3	121	(7600)
PIONEER	8451	74	47	(119)	5	22	2	55.0	131	(8220)
-----	RS 671	74	48	(122)	5	24	2	56.0	125	(7850)
ORO HYBRIDS	ORO T G	74	51	(130)	5	25	2	56.9	132	(8290)
MIGRO-TEKSEED	TEK 35R	74	44	(112)	4	26	1	56.1	129	(8100)
WILSON	619G	74	44	(112)	4	27	2	56.1	126	(7910)
WILSON	615G	74	47	(119)	5	26	1	55.6	132	(8290)
ASGROW	MUSTANG	75	44	(112)	4	28	1	58.6	138	(8660)
HORIZON	101G	75	43	(109)	4	27	1	58.7	140	(8790)
MFA	GS-301A	75	44	(112)	4	25	1	56.0	132	(8290)
NC+	172	75	43	(109)	4	27	1	58.1	134	(8410)
NORTHRUP KING	2778	75	48	(122)	5	28	2	58.4	143	(8980)
P-A-G	5514	75	44	(112)	4	27	2	56.1	130	(8160)
P-A-G	4474	75	44	(112)	4	25	1	56.1	137	(8600)
PIONEER	8324	75	44	(112)	4	24	3	58.6	134	(8410)
MIGRO-TEKSEED	TEK 16R	75	45	(114)	4	26	1	55.6	124	(7780)
MIGRO-TEKSEED	EXP. 594	75	43	(109)	4	26	1	58.4	140	(8790)
-----	TAM 680	75	54	(137)	5	24	2	59.2	131	(8220)
ASGROW	TOPAZ	76	45	(114)	4	28	2	59.0	145	(9100)
DEKALB	C-46+	76	50	(127)	6	23	2	58.2	125	(7850)
GOLDEN ACRES	T-E OINERO	76	46	(117)	4	25	2	56.4	142	(8910)
MFA	GS-303Y	76	45	(114)	4	30	2	55.0	123	(7720)
PIONEER	8272	76	45	(114)	4	31	3	55.6	141	(8850)
PRAIRIE VALLEY	PV677G	76	46	(117)	5	26	2	59.0	139	(8730)
PRAIRIE VALLEY	PV708G	76	49	(124)	5	28	1	58.5	143	(8980)
CONLEE	TOP HAND II	77	47	(119)	4	32	3	57.2	141	(8850)
DEKALB	E-59+	77	46	(117)	5	29	1	56.6	135	(8480)
AVERAGE ALL ENTRIES		74.0	45	(114)	4	25.1	2	56.9	129.8	(8150)
DIF. REQ. FOR SIG.	5%	2.9	1.4	(4)	0.6	----	N.S.	1.7	9.5	(596)
	25%	1.7	0.8	(2)	0.4			1.0	5.5	(345)

No early grain moisture data from 1978.
Metric conversion for head exsertion: 2.54 x in = centimeters.
Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter.

TABLE 1f. ZONE A. 1975-1979. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	PLANT HEIGHT (CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	GRAIN YIELD (KG/HA)
		THREE-YEAR AVERAGE								
-----	NB 505	63	44	(112)	6	17	13	55.3	62	(3890)
GOLDEN ACRES	T-E Y111	68	42	(107)	4	23	2	56.3	102	(6400)
FUNK'S	G-499GBR	69	36	(91)	2	23	1	53.4	97	(6090)
GOLDEN ACRES	T-E Y45	69	45	(114)	4	22	7	54.6	106	(6650)
-----	RS 626	69	44	(112)	4	22	4	54.9	92	(5780)
ACCO	GR 1089	70	43	(109)	4	22	2	54.9	110	(6910)
CONLEE	RAWHIDE GBR	70	40	(102)	4	23	2	54.2	104	(6530)
CO-OP	40-GBR	71	41	(104)	4	25	2	53.8	114	(7160)
MCCURDY	M51YG	71	41	(104)	4	25	2	54.6	113	(7090)
NC+	168	71	41	(104)	4	23	2	54.3	114	(7160)
PIONEER	8501	71	44	(112)	4	22	5	58.2	107	(6720)
ORO HYBRIDS	ORO G	71	41	(104)	4	23	4	55.0	109	(6840)
ORO HYBRIDS	ORO T G	71	47	(119)	5	24	4	54.8	113	(7090)
MIGRO-TEKSEED	TEK 35R	71	41	(104)	4	26	4	54.2	107	(6720)
PFIZER GENETICS	M56G	71	41	(104)	4	25	4	53.8	101	(6340)
FONTANELLE	G-30	72	41	(104)	4	28	3	54.2	111	(6970)
FUNK'S	G-623GBR	72	41	(104)	4	25	2	54.0	109	(6840)
GOLDEN ACRES	T-E Y101-R	72	41	(104)	4	25	2	53.1	114	(7160)
MCCURDY	M16YG	72	41	(104)	4	29	2	54.0	111	(6970)
-----	MARTIN	72	41	(104)	5	19	7	56.4	73	(4580)
NC+	170	72	42	(107)	4	27	3	54.9	116	(7280)
P-A-G	5514	72	42	(107)	3	24	2	54.5	113	(7090)
PIONEER	8451	72	44	(112)	4	25	4	53.4	118	(7410)
-----	RS 671	72	43	(109)	4	23	5	54.6	103	(6470)
-----	TAM 680	72	49	(124)	4	25	5	57.8	113	(7090)
WARNER	W-839T	72	42	(107)	4	24	3	54.0	108	(6780)
WILSON	619G	72	41	(104)	3	26	3	54.2	106	(6650)
ASGROW	TOPAZ	73	43	(109)	3	25	2	57.7	118	(7410)
NORTHRUP KING	2778	73	45	(114)	5	28	3	56.3	122	(7660)
PIONEER	8324	73	42	(107)	3	23	6	56.5	110	(6910)
MIGRO-TEKSEED	TEK 16R	73	43	(109)	3	27	3	53.8	108	(6780)
CONLEE	TOP HAND II	74	43	(109)	3	30	4	55.5	116	(7280)
DEKALB	E-59+	74	43	(109)	4	28	1	54.7	116	(7280)
AVERAGE ALL ENTRIES		71.2	42.3	(108)	3.9	24.4	3.5	54.9	107.2	(6730)
DIF. REQ. FOR SIG.	5%	1.5	1.8	(5)	0.8	4.9	N.S.	1.5	12.6	(791)
	25%	0.9	1.1	(3)	0.5	2.8		0.9	7.3	(458)
		FOUR-YEAR AVERAGE								
-----	NB 505	62	44	(112)	6	18	13	55.6	62	(3890)
-----	RS 626	69	43	(109)	4	23	4	54.9	93	(5840)
CONLEE	RAWHIDE GBR	70	41	(104)	4	25	2	54.2	108	(6780)
-----	MARTIN	71	41	(104)	5	20	7	56.2	72	(4520)
PIONEER	8501	71	44	(112)	4	24	5	58.3	110	(6910)
MIGRO-TEKSEED	TEK 35R	71	41	(104)	4	28	4	53.7	107	(6720)
PFIZER GENETICS	M56G	71	41	(104)	4	27	4	53.9	106	(6650)
GOLDEN ACRES	T-E Y101-R	72	41	(104)	4	27	2	53.5	117	(7350)
NC+	170	72	42	(107)	4	28	3	54.9	117	(7350)
P-A-G	5514	72	42	(107)	4	26	2	54.4	114	(7160)
PIONEER	8451	72	45	(114)	5	26	4	53.7	120	(7530)
WARNER	W-839T	72	42	(107)	4	26	3	54.2	111	(6970)
-----	RS 671	73	44	(112)	4	25	5	54.4	104	(6530)
-----	TAM 680	73	49	(124)	4	26	5	57.5	109	(6840)
DEKALB	E-59+	74	43	(109)	4	30	1	55.1	117	(7350)
NORTHRUP KING	2778	74	45	(114)	5	30	3	56.6	124	(7780)
PIONEER	8324	74	42	(107)	3	26	6	56.7	112	(7030)
MIGRO-TEKSEED	TEK 16R	74	43	(109)	3	30	3	54.2	111	(6970)
AVERAGE ALL ENTRIES		71.5	42.9	(109)	4.2	25.8	4.2	55.1	106.3	(6674)
DIF REQ. FOR SIG.	5%	1.9	1.7	(4)	0.8	4.0	N.S.	1.3	11.1	(697)
	25%	1.1	1.0	(3)	0.5	2.3		0.7	6.5	(408)
		FIVE-YEAR AVERAGE								
-----	NB 505	63	43	(109)	6	18	13	56.3	65	(4080)
-----	RS 626	69	43	(109)	4	25	4	55.3	92	(5780)
PIONEER	8501	71	44	(112)	4	26	5	58.5	108	(6780)
-----	MARTIN	72	40	(102)	5	23	7	56.5	72	(4520)
-----	RS 671	73	43	(109)	4	27	5	54.5	102	(6400)
-----	TAM 680	73	48	(122)	4	28	5	57.8	108	(6780)
PIONEER	8324	74	42	(107)	3	30	6	57.0	110	(6910)
DEKALB	E-59+	75	43	(109)	4	32	1	55.5	115	(7220)
AVERAGE ALL ENTRIES		71.2	43.2	(110)	4.3	26.1	5.7	56.4	96.5	(6058)
DIF. REQ. FOR SIG.	5%	1.9	1.4	(4)	0.8	4.3	N.S.	1.2	9.7	(609)
	25%	1.1	0.8	(2)	0.5	2.4		0.7	5.5	(345)

No lodging data in 1975-1976.
Metric conversion for head exsertion: 2.54 x in = centimeters.
Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter.

TABLE 2a. ZONE B. 1979. LINCOLN COUNTY. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	PLANT HEIGHT (CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	GRAIN YIELD (KG/HA)
-----	NB 505	70	46	(117)	.	.	78	55.5	68	(4270)
NC+	55X	71	47	(119)	.	.	57	57.0	81	(5090)
NORTHRUP KING	2018	71	46	(117)	.	.	63	59.0	78	(4900)
PIONEER	8790	71	43	(109)	.	.	17	57.0	73	(4580)
DEKALB	B-38+	72	44	(112)	.	.	51	56.8	61	(3830)
ASGROW	BUG OFF E	73	44	(112)	.	.	94	55.5	56	(3520)
DEKALB	DD-50+	73	45	(114)	.	.	83	54.0	62	(3890)
HOEGEMEYER	EXP. 78-1	74	48	(122)	.	.	73	57.0	68	(4270)
P-A-G	4433	74	47	(119)	.	.	56	55.5	57	(3580)
PIONEER	8501	74	43	(109)	.	.	79	59.0	73	(4580)
PIONEER	8626	74	43	(109)	.	.	31	55.5	76	(4770)
PIONEER	8475	74	44	(112)	.	.	46	57.0	77	(4830)
PRAIRIE VALLEY	PV521G	74	45	(114)	.	.	88	57.0	68	(4270)
MIGRO-TEKSEED	TEK 1011R	74	42	(107)	.	.	85	56.5	62	(3890)
MIGRO-TEKSEED	TEK 1055R	74	47	(119)	.	.	100	57.0	63	(3960)
WARNER	W-564T	74	43	(109)	.	.	53	57.0	74	(4650)
ACCO	GR 1018	75	44	(112)	.	.	57	53.0	50	(3140)
DEKALB	C-42A+	75	43	(109)	.	.	100	52.0	55	(3450)
DEKALB	B-39Y+	75	44	(112)	.	.	25	58.5	77	(4830)
FONTANELLE	G-26	75	44	(112)	.	.	17	56.0	59	(3700)
FONTANELLE	G3X80	75	46	(117)	.	.	54	55.0	64	(4020)
MCCURDY	M16YG	75	46	(117)	.	.	61	56.0	68	(4270)
MCCURDY	M89YG	75	47	(119)	.	.	54	54.0	56	(3520)
-----	MARTIN	75	47	(119)	.	.	58	58.0	59	(3700)
NORTHRUP KING	2030	75	42	(107)	.	.	38	58.0	74	(4650)
NORTHRUP KING	X3249	75	46	(117)	.	.	52	57.0	66	(4140)
PRAIRIE VALLEY	PV530G	75	45	(114)	.	.	58	57.0	71	(4460)
PRAIRIE VALLEY	PV535G	75	48	(122)	.	.	92	57.0	69	(4330)
-----	RS 626	75	45	(114)	.	.	64	57.0	62	(3890)
MIGRO-TEKSEED	TEK 14R	75	48	(122)	.	.	87	57.0	66	(4140)
MIGRO-TEKSEED	EXP. 560	75	47	(119)	.	.	100	56.0	59	(3700)
ACCO	GR 1028	76	45	(114)	.	.	64	56.0	61	(3830)
ACCO	DR 1035	76	45	(114)	.	.	86	58.8	50	(3140)
ASGROW	CORRAL	76	45	(114)	.	.	94	58.0	71	(4460)
CARGILL	30	76	45	(114)	.	.	79	59.0	78	(4900)
CO-OP	17-GBR	76	46	(117)	.	.	68	56.0	57	(3580)
DEKALB	C-46+	76	48	(122)	.	.	41	59.8	71	(4460)
DEKALB	DK-57	76	49	(124)	.	.	70	59.0	96	(6030)
FONTANELLE	G5547	76	48	(122)	.	.	57	59.0	75	(4710)
FUNK'S	G-499GBR	76	39	(99)	.	.	41	56.5	60	(3770)
GOLDEN ACRES	T-E Y101-R	76	48	(122)	.	.	45	57.0	61	(3830)
GOLDEN ACRES	T-E Y45	76	46	(117)	.	.	66	53.0	56	(3520)
GOLDEN ACRES	T-E Y111	76	45	(114)	.	.	77	58.7	95	(5960)
GROWERS	GSA 1236	76	48	(122)	.	.	92	58.5	82	(5150)
HOEGEMEYER	656	76	48	(122)	.	.	85	55.5	59	(3700)
NC+	161	76	48	(122)	.	.	84	55.5	44	(2760)
WARNER	W-655T	76	46	(117)	.	.	77	57.5	64	(4020)
WARNER	W-664T	76	45	(114)	.	.	70	57.8	60	(3770)
PFIZER GENETICS	M550G	76	47	(119)	.	.	97	58.0	74	(4650)
ACCO	GR 1089	77	47	(119)	.	.	52	54.0	71	(4460)
CARGILL	60	77	44	(112)	.	.	69	54.0	69	(4330)
GOLDEN ACRES	T-E Y101-D	77	45	(114)	.	.	51	58.5	58	(3640)
-----	RS 671	77	48	(122)	.	.	75	55.0	70	(4390)
ORO HYBRIDS	ORO G	77	44	(112)	.	.	73	53.5	73	(4580)
MIGRO-TEKSEED	TEK 16R	77	45	(114)	.	.	55	56.0	58	(3640)
PFIZER GENETICS	M56G	77	44	(112)	.	.	49	54.0	72	(4520)
WILSON	615G	77	47	(119)	.	.	81	55.5	57	(3580)
HORIZON	95G	78	44	(112)	.	.	51	56.0	66	(4140)
MCCURDY	M51YG	78	43	(109)	.	.	61	56.0	66	(4140)
NORTHRUP KING	2474Y	78	46	(117)	.	.	69	58.0	66	(4140)
P-A-G	5514	78	42	(107)	.	.	64	55.0	65	(4080)
WILSON	619G	78	45	(114)	.	.	78	56.0	66	(4140)
ASGROW	TOPAZ	79	46	(117)	.	.	66	60.0	71	(4460)
ASGROW	MUSTANG	79	44	(112)	.	.	47	58.0	57	(3580)
CARGILL	70	79	46	(117)	.	.	52	58.0	80	(5020)
CO-OP	40-GBR	79	44	(112)	.	.	47	55.5	64	(4020)
GOLDEN ACRES	T-E DINERO	79	47	(119)	.	.	70	58.5	71	(4460)
HORIZON	101G	79	45	(114)	.	.	55	58.0	65	(4080)
P-A-G	4474	79	43	(109)	.	.	26	57.0	75	(4710)
ORO HYBRIDS	ORO G XTRA	80	46	(117)	.	.	42	58.7	82	(5150)
AVERAGE ALL ENTRIES		75.7	45.4	(114)			64.2	56.7	67.0	(4206)
DIF. REQ. FOR SIG. 5%		1.6	3.9	(10)			40.7	----	20.0	(1256)
25%		1.0	2.3	(6)			23.6	----	11.8	(741)

Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter.

TABLE 2b. ZONE B. 1978-1979. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	(CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	(KG/HA)
		TWO-YEAR AVERAGE								
-----	NB 505	68	41	(104)	.	.	63	56.9	57	(3580)
PIONEER	8790	69	38	(97)	.	.	26	57.7	64	(4020)
DEKALB	B-38+	70	39	(99)	.	.	48	57.4	60	(3770)
ASGROW	BUG OFF E	72	40	(102)	.	.	60	56.2	57	(3580)
PIONEER	8626	72	39	(99)	.	.	28	56.0	68	(4270)
ACCO	GR 1018	73	39	(99)	.	.	43	54.8	51	(3200)
HOEGEMEYER	EXP. 78-1	73	42	(107)	.	.	54	57.6	68	(4270)
MCCURDY	M89YG	73	41	(104)	.	.	41	55.4	53	(3330)
NC+	161	73	41	(104)	.	.	64	55.6	46	(2890)
PRAIRIE VALLEY	PV530G	73	40	(102)	.	.	43	57.3	62	(3890)
PRAIRIE VALLEY	PV535G	73	44	(112)	.	.	71	57.3	66	(4140)
PFIZER GENETICS	M550G	73	41	(104)	.	.	63	57.9	64	(4020)
ACCO	GR 1028	74	40	(102)	.	.	47	55.8	57	(3580)
ACCO	DR 1035	74	39	(99)	.	.	54	58.8	52	(3260)
DEKALB	C-42A+	74	38	(97)	.	.	71	54.5	60	(3770)
DEKALB	B-39Y+	74	40	(102)	.	.	16	58.4	67	(4210)
FONTANELLE	G3X80	74	41	(104)	.	.	32	56.6	60	(3770)
FUNK'S	G-499GBR	74	35	(89)	.	.	30	55.8	52	(3260)
-----	RS 626	74	40	(102)	.	.	47	56.8	58	(3640)
MIGRO-TEKSEED	TEK 14R	74	42	(107)	.	.	67	57.6	60	(3770)
CO-OP	17-GBR	75	40	(102)	.	.	44	56.0	52	(3260)
FONTANELLE	G-26	75	37	(94)	.	.	19	56.4	57	(3580)
GOLDEN ACRES	T-E Y45	75	42	(107)	.	.	44	54.7	56	(3520)
GOLDEN ACRES	T-E Y111	75	39	(99)	.	.	49	58.3	76	(4770)
HOEGEMEYER	656	75	42	(107)	.	.	56	56.0	55	(3450)
PIONEER	8501	75	39	(99)	.	.	54	58.5	62	(3890)
ACCO	GR 1089	76	41	(104)	.	.	41	54.1	67	(4210)
DEKALB	C-46+	76	43	(109)	.	.	23	58.9	62	(3890)
-----	MARTIN	76	42	(107)	.	.	33	58.3	56	(3520)
PIONEER	8475	76	41	(104)	.	.	33	57.3	67	(4210)
PFIZER GENETICS	M56G	76	37	(94)	.	.	37	54.6	59	(3700)
WILSON	615G	76	41	(104)	.	.	50	55.6	56	(3520)
GOLDEN ACRES	T-E Y101-D	77	40	(102)	.	.	46	58.6	55	(3450)
HORIZON	95G	77	39	(99)	.	.	37	56.2	62	(3890)
HORIZON	101G	77	39	(99)	.	.	40	58.0	62	(3890)
MCCURDY	M51YG	77	38	(97)	.	.	45	56.0	64	(4020)
ORO HYBRIDS	ORO G	77	39	(99)	.	.	55	54.6	65	(4080)
MIGRO-TEKSEED	TEK 16R	77	40	(102)	.	.	38	56.1	53	(3330)
ASGROW	TOPAZ	78	40	(102)	.	.	36	59.3	57	(3580)
ASGROW	MUSTANG	78	39	(99)	.	.	30	58.0	57	(3580)
CO-OP	40-GBR	78	38	(97)	.	.	35	56.1	55	(3450)
GOLDEN ACRES	T-E Y101-R	78	40	(102)	.	.	27	56.7	54	(3390)
MCCURDY	M16YG	78	40	(102)	.	.	39	56.0	61	(3830)
P-A-G	5514	78	38	(97)	.	.	40	55.6	65	(4080)
P-A-G	4474	78	38	(97)	.	.	22	56.7	67	(4210)
-----	RS 671	78	42	(107)	.	.	46	55.5	63	(3960)
WILSON	619G	78	39	(99)	.	.	56	56.1	59	(3700)
GOLDEN ACRES	T-E DINERO	79	41	(104)	.	.	41	58.3	65	(4080)
AVERAGE ALL ENTRIES		75.1	39.9	(101)			43.4	56.7	59.8	(3754)
DIF. REQ. FOR SIG.	5%	3.0	2.7	(7)			26.8	1.9	N.S.	
	25%	1.7	1.5	(4)			15.6	1.1	7.9	(496)

Metric conversion for plant height: 2.54 x in = centimeters.
Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter.

TABLE 2c. ZONE B. 1975-1979. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	PLANT HEIGHT (CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	GRAIN YIELD (KG/HA)
		THREE-YEAR AVERAGE								
-----	NB 505	65	42	(107)	.	.	45	57.9	64	(4020)
PIONEER	8790	66	39	(99)	.	.	19	58.6	72	(4520)
DEKALB	B-38+	68	40	(102)	.	.	33	58.1	72	(4520)
ASGROW	BUG OFF E	70	42	(107)	.	.	46	57.1	73	(4580)
MCCURDY	M89YG	70	42	(107)	.	.	31	56.4	70	(4390)
PIONEER	8626	70	39	(99)	.	.	22	56.8	76	(4770)
ACCO	GR 1018	71	39	(99)	.	.	31	56.1	65	(4080)
ACCO	GR 1028	71	41	(104)	.	.	32	56.6	72	(4520)
DEKALB	C-42A+	71	39	(99)	.	.	50	55.8	75	(4710)
NC+	161	71	43	(109)	.	.	45	56.5	63	(3960)
ACCO	DR 1035	72	40	(102)	.	.	37	59.3	67	(4210)
CO-OP	17-GBR	72	42	(107)	.	.	33	56.8	68	(4270)
DEKALB	B-39Y+	72	41	(104)	.	.	13	58.9	77	(4830)
FONTANELLE	G-26	72	37	(94)	.	.	13	57.1	67	(4210)
FUNK'S	G-499GBR	72	36	(91)	.	.	22	56.4	69	(4330)
PIONEER	8501	72	40	(102)	.	.	42	59.3	74	(4650)
-----	RS 626	72	41	(104)	.	.	35	57.4	67	(4210)
DEKALB	C-46+	74	43	(109)	.	.	15	59.6	75	(4710)
GOLDEN ACRES	T-E Y111	74	40	(102)	.	.	34	58.5	82	(5150)
-----	MARTIN	74	42	(107)	.	.	24	58.7	61	(3830)
MIGRO-TEKSEED	TEK 16R	74	42	(107)	.	.	29	56.4	72	(4520)
PFIZER GENETICS	M56G	74	39	(99)	.	.	26	55.5	74	(4650)
MCCURDY	M16YG	75	41	(104)	.	.	28	56.3	77	(4830)
MCCURDY	M51YG	75	40	(102)	.	.	31	56.8	78	(4900)
ORO HYBRIDS	ORO G	75	41	(104)	.	.	38	55.7	81	(5090)
WILSON	619G	75	40	(102)	.	.	39	56.9	78	(4900)
CO-OP	40-GBR	76	39	(99)	.	.	24	56.6	76	(4770)
GOLDEN ACRES	T-E Y101-R	76	41	(104)	.	.	22	56.7	72	(4520)
P-A-G	5514	76	40	(102)	.	.	29	56.2	78	(4900)
-----	RS 671	76	42	(107)	.	.	33	56.0	72	(4520)
AVERAGE ALL ENTRIES		72.3	40.4	(103)			30.7	57.2	72.2	(4533)
DIF. REQ. FOR SIG. 5%		2.2	2.3	(6)			20.5	1.5	N.S.	
25%		1.3	1.4	(4)			11.9	0.9	N.S.	
		FOUR-YEAR AVERAGE								
-----	NB 505	66	42	(107)	.	.	46	58.3	64	(4020)
PIONEER	8790	67	39	(99)	.	.	19	58.8	72	(4520)
DEKALB	B-38+	68	40	(102)	.	.	30	58.1	74	(4650)
PIONEER	8626	70	39	(99)	.	.	17	57.0	74	(4650)
DEKALB	C-42A+	71	40	(102)	.	.	41	56.3	77	(4830)
NC+	161	71	43	(109)	.	.	45	57.0	66	(4140)
-----	RS 626	72	41	(104)	.	.	36	57.5	68	(4270)
PIONEER	8501	73	40	(102)	.	.	35	58.9	73	(4580)
-----	MARTIN	74	41	(104)	.	.	21	58.5	60	(3770)
DEKALB	C-46+	75	43	(109)	.	.	12	59.5	74	(4650)
MIGRO-TEKSEED	TEK 16R	76	42	(107)	.	.	22	55.6	70	(4390)
WILSON	619G	76	39	(99)	.	.	29	56.7	76	(4770)
GOLDEN ACRES	T-E Y101-R	77	40	(102)	.	.	17	56.2	72	(4520)
-----	RS 671	77	42	(107)	.	.	25	55.8	69	(4330)
AVERAGE ALL ENTRIES		72.4	40.8	(104)			28.2	57.4	70.6	(4432)
DIF. REQ. FOR SIG. 5%		2.1	2.1	(5)			19.5	1.6	N.S.	
25%		1.2	1.2	(3)			11.3	0.9	N.S.	
		FIVE-YEAR AVERAGE								
-----	NB 505	65	42	(107)	7	20	44	58.4	65	(4080)
DEKALB	C-42A+	71	39	(99)	3	22	39	56.8	77	(4830)
-----	RS 626	71	41	(104)	5	23	38	57.7	69	(4330)
-----	MARTIN	74	40	(102)	5	22	18	58.8	60	(3770)
DEKALB	C-46+	75	43	(109)	7	29	10	59.6	75	(4710)
-----	RS 671	77	41	(104)	2	28	24	55.8	68	(4270)
AVERAGE ALL ENTRIES		72.2	41.0	(104)	4.8	24.0	28.8	57.9	69.0	(4332)
DIF. REQ. FOR SIG. 5%		1.6	1.8	(5)			15.2	1.6	9.4	(590)
25%		0.9	1.0	(3)			8.5	0.9	5.3	(333)

Head exsertion and early grain moisture 1975 data only.
Metric conversion for head exsertion: 2.54 x in = centimeters.
Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter.

TABLE 3a. ZONE C. 1979. CHEYENNE COUNTY. GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	PLANT HEIGHT (CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	GRAIN YIELD (KG/HA)
-----	RS 455	72	40	(102)	.	.	.	56.9	42	(2640)
-----	SD 106	76	33	(84)	.	.	.	53.9	33	(2070)
ACCO	R 920	77	36	(91)	.	.	.	56.4	64	(4020)
NORTHRUP KING	X3207	77	33	(84)	.	.	.	54.9	48	(3010)
DEKALB	A-25A+	79	30	(76)	.	.	.	53.6	62	(3890)
NORTHRUP KING	NK 121A	79	32	(81)	.	.	.	54.9	61	(3830)
DEKALB	A-28+	80	34	(86)	.	.	.	55.3	65	(4080)
-----	NB 505	81	36	(91)	.	.	.	57.6	53	(3330)
PIONEER	8914	81	33	(84)	.	.	.	53.6	48	(3010)
NORTHRUP KING	NK 129	82	37	(94)	.	.	.	55.2	52	(3260)
PIONEER	8790	82	33	(84)	.	.	.	55.5	54	(3390)
NC+	55X	83	35	(89)	.	.	.	52.8	53	(3330)
DEKALB	B-38+	84	36	(91)	.	.	.	52.9	52	(3260)
WARNER	W-545T	84	32	(81)	.	.	.	53.3	42	(2640)
NORTHRUP KING	1580	86	36	(91)	.	.	.	54.5	44	(2760)
ACCO	R 1014	87	33	(84)	.	.	.	50.6	57	(3580)
DEKALB	DD-50+	88	36	(91)	.	.	.	52.4	48	(3010)
FONTANELLE	G3X50	88	36	(91)	.	.	.	52.9	39	(2450)
P-A-G	4433	89	37	(94)	.	.	.	50.3	37	(2320)
ACCO	R 980	90	34	(86)	.	.	.	50.2	39	(2450)
CARGILL	30	91	35	(89)	.	.	.	50.3	38	(2390)
GOLDEN ACRES	T-E GRAINMASTER-R	91	35	(89)	.	.	.	50.3	52	(3260)
GROWERS	GSA 1100	91	38	(97)	.	.	.	47.8	35	(2200)
PFIZER GENETICS	M548G	92	35	(89)	.	.	.	45.3	32	(2010)
MIGRO-TEKSEED	EXP. 560	92	35	(89)	.	.	.	46.4	37	(2320)
GOLDEN ACRES	T-E Y45	93	38	(97)	.	.	.	43.2	39	(2450)
MIGRO-TEKSEED	TEK 1011R	93	35	(89)	.	.	.	52.0	41	(2570)
MIGRO-TEKSEED	TEK 1055R	93	37	(94)	.	.	.	45.2	37	(2320)
PFIZER GENETICS	M550G	93	39	(99)	.	.	.	46.0	46	(2890)
CO-OP	17-GBR	95	34	(86)	.	.	.	45.2	36	(2260)
GOLDEN ACRES	T-E Y44-R	96	37	(94)	.	.	.	42.9	37	(2320)
MIGRO-TEKSEED	TEK 14R	96	36	(91)	.	.	.	46.3	29	(1820)
AVERAGE ALL ENTRIES		86.3	35.2	(89)				51.2	45.4	(2850)
DIF. REQ. FOR SIG.	5%	2.6	2.6	(7)				2.0	4.5	(283)
	25%	1.5	1.5	(4)				1.1	2.7	(170)

Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter.

TABLE 3b. ZONE C. 1975-1979 GRAIN SORGHUM PERFORMANCE.

BRAND	HYBRID	PLANT-BLOOM DAYS	PLANT HEIGHT IN	PLANT HEIGHT (CM)	HEAD EXS IN	EARLY MOIST PCT	STALK LODG PCT	TEST WT LB/BU	GRAIN YIELD BU/A	GRAIN YIELD (KG/HA)
		TWO-YEAR AVERAGE								
-----	RS 455	77	42	(107)	.	19	4	54.9	44	(2760)
-----	SD 106	79	36	(91)	.	21	4	52.1	37	(2320)
ACCO	R 920	80	38	(97)	.	21	10	54.3	51	(3200)
DEKALB	A-25A+	82	31	(79)	.	21	0	53.1	54	(3390)
DEKALB	A-28+	82	37	(94)	.	21	6	53.0	54	(3390)
NORTHRUP KING	NK 121A	83	34	(86)	.	23	0	51.7	54	(3390)
PIONEER	8914	83	36	(91)	.	20	0	52.7	49	(3080)
-----	NB 505	84	39	(99)	.	17	4	56.5	47	(2950)
DEKALB	B-38+	86	38	(97)	.	23	0	51.2	49	(3080)
PIONEER	8790	86	35	(89)	.	22	0	53.7	52	(3260)
ACCO	R 1014	89	36	(91)	.	24	0	48.2	48	(3010)
FONTANELLE	G3X50	89	39	(99)	.	26	0	51.1	41	(2570)
ACCO	R 980	90	35	(89)	.	23	0	49.8	40	(2510)
NORTHRUP KING	1580	90	38	(97)	.	26	0	53.3	47	(2950)
GOLDEN ACRES	T-E GRAINMASTER-R	92	36	(91)	.	30	0	46.2	47	(2950)
GOLDEN ACRES	T-E Y45	95	40	(102)	.	33	0	40.6	38	(2390)
CO-OP	17-GBR	96	36	(91)	.	30	0	44.6	36	(2260)
GOLDEN ACRES	T-E Y44-R	96	37	(94)	.	30	0	41.6	41	(2570)
MIGRO-TEKSEED	TEK 14R	97	39	(99)	.	33	0	46.1	35	(2200)
AVERAGE ALL ENTRIES		87.2	36.9	(94)		24.4	1.5	50.2	45.5	(2856)
DIF. REQ. FOR SIG.	5%	4.0	2.3	(6)				3.0	N.S.	
	25%	2.2	1.3	(3)				1.7	N.S.	
		THREE-YEAR AVERAGE								
-----	RS 455	73	41	(104)	.	19	5	55.4	44	(2760)
-----	SD 106	74	35	(89)	.	21	12	53.4	35	(2200)
ACCO	R 920	75	38	(97)	.	21	23	54.9	46	(2890)
DEKALB	A-25A+	77	30	(76)	.	21	2	53.9	52	(3260)
DEKALB	A-28+	77	36	(91)	.	21	15	54.2	48	(3010)
PIONEER	8914	78	35	(89)	.	20	2	53.9	49	(3080)
-----	NB 505	79	39	(99)	.	17	18	56.9	43	(2700)
PIONEER	8790	80	36	(91)	.	22	0	55.0	52	(3260)
DEKALB	B-38+	82	36	(91)	.	23	4	53.0	48	(3010)
ACCO	R 1014	85	35	(89)	.	24	8	50.3	45	(2830)
ACCO	R 980	85	35	(89)	.	23	3	52.3	42	(2640)
NORTHRUP KING	1580	85	36	(91)	.	26	3	54.7	49	(3080)
GOLDEN ACRES	T-E GRAINMASTER-R	87	35	(89)	.	30	2	49.0	47	(2950)
GOLDEN ACRES	T-E Y45	90	39	(99)	.	33	1	44.7	42	(2640)
CO-OP	17-GBR	91	36	(91)	.	30	1	47.1	38	(2390)
AVERAGE ALL ENTRIES		81.2	36.1	(92)		23.4	6.6	52.6	45.3	(2844)
DIF. REQ. FOR SIG.	5%	2.4	2.2	(6)			13.8	3.3	N.S.	
	25%	1.4	1.2	(3)			7.8	1.9	6.8	(427)
		FOUR-YEAR AVERAGE								
-----	RS 455	75	41	(104)	.	19	15	54.4	38	(2390)
-----	SD 106	75	35	(89)	.	21	21	52.7	32	(2010)
ACCO	R 920	77	38	(97)	.	21	43	53.6	40	(2510)
DEKALB	A-25A+	79	31	(79)	.	21	5	52.4	47	(2950)
-----	NB 505	80	39	(99)	.	17	27	54.7	37	(2320)
PIONEER	8790	83	36	(91)	.	22	2	54.2	46	(2890)
DEKALB	B-38+	84	36	(91)	.	23	4	52.4	43	(2700)
NORTHRUP KING	1580	86	36	(91)	.	26	5	53.7	42	(2640)
ACCO	R 1014	87	35	(89)	.	24	6	49.5	39	(2450)
GOLDEN ACRES	T-E GRAINMASTER-R	89	35	(89)	.	30	2	47.5	42	(2640)
AVERAGE ALL ENTRIES		81.5	36.2	(92)		22.4	13.0	52.5	40.6	(2549)
DIF. REQ. FOR SIG.	5%	1.9	2.1	(5)			21.7	2.4	8.3	(521)
	25%	1.1	1.2	(3)			12.3	1.4	4.7	(295)
		FIVE-YEAR AVERAGE								
-----	RS 455	75	41	(104)	6	19	15	54.1	36	(2260)
-----	SD 106	76	35	(89)	4	21	21	52.8	29	(1820)
ACCO	R 920	77	38	(97)	6	21	43	53.4	37	(2320)
DEKALB	A-25A+	79	30	(76)	3	21	5	52.5	42	(2640)
-----	NB 505	81	38	(97)	5	17	27	54.4	34	(2130)
ACCO	R 1014	88	34	(86)	2	24	6	48.9	34	(2130)
GOLDEN ACRES	T-E GRAINMASTER-R	89	34	(86)	1	30	2	48.3	37	(2320)
AVERAGE ALL ENTRIES		80.7	35.7	(91)	3.9	21.9	17.0	52.1	35.6	(2235)
DIF. REQ. FOR SIG.	5%	1.5	1.8	(5)			25.1	2.5	7.4	(465)
	25%	0.9	1.0	(3)			13.9	1.4	4.2	(264)

Head exsertion data 1975 only. Early grain moisture 1978 data only, lodging 1976, 1977, 1978 data only.
Metric conversion for head exsertion: 2.54 x in = centimeters.
Metric conversion for test weight: 1.287 x lb/bu = kilograms/hectoliter.

Agricultural Research for All of Nebraska

The agricultural research division of the Institute of Agriculture and Natural Resources is the Nebraska Agricultural Experiment Station. The Experiment Station relies on its research centers and field laboratories to provide applied knowledge for development of Nebraska's largest industry—agriculture. In addition, many Nebraska farmers cooperate by furnishing land and other facilities for research projects. This provides information from areas not well represented by stations.

The Cooperative Extension Service transmits data to users through District and County Extension Offices. Area and County Extension Agents are available to provide additional interpretation and more specific recommendations.

Nebraska is a large state and has great variation due to topography and the continental type of climate. The elevation ranges from 1,000 feet to near a mile high in the northwest portion of the state, rainfall varies from 14 to 40 inches per year, and the soil types vary from sands to heavy clays. The research program thus is broad in subject matter and geography, resulting in the need for various stations and satellite locations.

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