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EC82-106 Nebraska Grain Sorghum Performance Tests 1981.

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NEBRASKA COOPERATIVE EXTENSION SERVICE—E.C. 82-106

NEBRASKA GRAIN SORGHUM PERFORMANCE TESTS 1981

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ACKNOWLEDGEMENT

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 1981 season was the 24th 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 acknowledgment 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

1981

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Recent grain sorghum acreages and yields in Nebraska were as follows:

	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Yield, Bu/A	57.0	71.0	75.0	79.0	60.0	80.0
Acres (000)	2,100	2,070	1,830	1,830	2,030	2,060

The yield per acre and total grain production of 164.8 million bushels were new records.

Planting of the 1981 crop was slightly behind normal. The crop made good progress and heading took place near the usual time. June and early July were generally dry in eastern Nebraska. Rainfall in the Southwest was adequate. Late July and August were cool and wet. Ripening during September and early October was behind normal. Harvest was delayed and was two weeks behind usual in mid-October. Rain with heavy winds in early November caused heavy lodging and excessive field losses.

This circular is a progress report of grain sorghum trials conducted by the Agricultural Experiment Station. Harvest data were obtained from six of seven trials planted. Testing zones and locations of the trials 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-44 x SD 104
RS 626	Tx 3197 x Tx 414
RS 671	Redlan x Tx 415
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.

^{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 1981.

TABLE A. LOCATION AND COOPERATORS. NEBRASKA GRAIN SORGHUM PERFORMANCE TESTS. 1981.

Location	Cooperator
Zone A	
Saunders	Mead Field Laboratory
Nuckolls	Hubert Simonson, Ruskin
Clay	South Central Station
Zone B	
Lincoln	North Platte Station
Hitchcock	Richard Terrel, Trenton
Zone C	
Cheyenne	High Plains Agricultural Laboratory

THE METRIC SYSTEM

Some equivalents 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

$$\begin{aligned}\text{Kilogram/hectoliter (kg/hl)} &= \text{lb/bu} \times 1.287 \\ \text{Kilogram/hectare (kg/ha)} &= \text{bu/A} \times 62.78 \text{ (56\# bushel)}\end{aligned}$$

TABLE B. ENTRANTS. NEBRASKA GRAIN SORGHUM TESTS. 1981.

Brand	Entrant
Acco-Paymaster	Acco-Paymaster Seeds Plainview, TX 79072
Asgrow	Asgrow Seed Company Kalamazoo, MI 49001
Cargill	Cargill Seeds Minneapolis, MN 55440
Cenex	Cenex Seed Grand Island, NE 68802
Conlee	Conlee Seed Company Waco, TX 76710
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 Tulia, TX 79088
Gold Tag	Ferry Morse Seed Company Mountain View, CA 94042
GSA	Growers Seed Association Lubbock, TX 79408
Horizon	Horizon Seeds Inc. Lincoln, NE 68501
Kings Western	Kings Western Seed Inc. Huron, SD 57350
Land O'Lakes	Land O'Lakes Webster City, IA 50595
McCurdy	McCurdy Seed Company Fremont, IA 52561
MFA	MFA Seed Operations Columbia, MO 65201
Migro	Migro Division of NAPB Mission, KS 66201
NC +	NC + Hybrids Lincoln, NE 68504
Northrup King	Northrup King Company Norfolk, NE 68701
Oro	R. C. Young Seed & Grain Company Lubbock, TX 79404
PAG	PAG Seeds Minneapolis, MN 55440
Pfizer Genetics	Pfizer Genetics Inc. Doniphan, NE 68832
Prairie Valley	Stauffer Seeds Phillips, NE 68865
Stockmans	Barzen of Minneapolis, Inc. Minneapolis, MN 55440
WAC	WAC Seed Company, Inc. Hereford, TX 79045
Warner	George Warner Seed Company Hereford, TX 79045
Wilson	Wilson Hybrids Inc. Harlan, IA 51537
-----	Agricultural Experiment Station (Martin, NB 505, RS 455, RS 626, RS 671, TAM 680)

TABLE C. GRAIN SORGHUM ENTRIES AND ZONE WHERE LISTED, 1981.

Brand	Hybrid	Zone	Brand	Hybrid	Zone
Acco-Paymaster	DR 1195	A	-----	Martin	AB
Acco-Paymaster	DR 1035	B	McCurdy	M 45	C
Acco-Paymaster	GR 100	A	McCurdy	16 YG	A
Acco-Paymaster	GR 1018	B	McCurdy	51 YG	A
Acco-Paymaster	GR 1028	B	McCurdy	57 YG	A
Acco-Paymaster	GR 1030	B	McCurdy	89 YG	BC
Acco-Paymaster	GR 1089	AB	McCurdy	554 YG	AB
Acco-Paymaster	GR 1138	A	McCurdy	937 YG	A
Acco-Paymaster	GR ² 1200	A	MFA	GS-10	A
Acco-Paymaster	R 920	C	MFA	GS-301A	A
Acco-Paymaster	N 980	C	Migro	Tek 14R	BC
Acco-Paymaster	X7366	A	Migro	Tek 35R	A
Asgrow	Colt	A	Migro	Tek 1011R	C
Asgrow	Corral	AB	Migro	Tek 1021R	BC
Asgrow	Mustang	AB	Migro	Tek 1055R	AB
Asgrow	Topaz	AB	Migro	Tek 1094R	A
Cargill	30	BC	-----	NB 505	BC
Cargill	50	ABC	-----	N Exp. 79-3673	C
Cargill	60	ABC	-----	N Exp. 79-3674	C
Cargill	70	AB	NC +	160	AB
Cenex	400T	A	NC +	172	A
Cenex	405T	A	NC +	174	A
Cenex	410T	A	NC +	271	A
Conlee	Pronto	AB	Northrup King	NK 121A	C
Conlee	Quickie	AB	Northrup King	NK Brand 1210	C
Conlee	Rawhide	AB	Northrup King	NK Brand 2018	C
Conlee	Top Hand II	A	Northrup King	NK Brand 2030	B
Dekalb	A-28+	C	Northrup King	NK Brand 2244	AB
Dekalb	B-38+	C	Northrup King	NK Brand 2300	AB
Dekalb	B-39 y+	B	Northrup King	NK Brand 2660	A
Dekalb	C-46+	A	Northrup King	NK Brand 2670	A
Dekalb	DK-38	BC	Northrup King	NK Brand 2778	AB
Dekalb	DK-42	AB	Oro	Oro G	A
Dekalb	DK-42y	B	Oro	Oro G Xtra	AB
Dekalb	DK-57	AB	PAG	4433	ABC
Dekalb	DK-58	AB	PAG	4474	AB
Dekalb	DK-59	A	PAG	5514	AB
Dekalb	DK-61	A	PAG	5550	ABC
Fontanelle	4455	BC	Pfizer Genetics	Exp. 8051	C
Fontanelle	5537	AB	Pfizer Genetics	Exp. 8055	A
Fontanelle	5547	B	Pfizer Genetics	M550G	AB
Fontanelle	5583	A	Pfizer Genetics	M568G	AB
Fontanelle	6691	A	Prairie Valley	PV 515 GR	C
Funk's	Q-550	A	Prairie Valley	PV 530 GR	B
Funk's	HW1769	A	Prairie Valley	PV 535 GR	AB
Golden Acres	T-E Olinero-R	AB	Prairie Valley	PV 677 GR	B
Golden Acres	T-E Y-44-R	C	Prairie Valley	PV 708 GR	A
Golden Acres	T-E Y-45	ABC	Prairie Valley	PV 734 GR	A
Golden Acres	T-E Y-45-G	ABC	-----	RS 455	C
Golden Acres	T-E Y-101-G	AB	-----	RS 626	AB
Golden Acres	T-E Y-101-R	AB	-----	RS 671	AB
Golden Acres	T-E Exp. 8037	AB	Stockmans	30Y	A
Gold Tag	335	A C	-----	TAM 680	A
Gold Tag	475	A C	WAC	6510R	AB
Gold Tag	565	A	WAC	652G	AB
GSA	GSA 1212	AB	WAC	692G	AB
GSA	GSA 1310A	AB	WAC	0701G	AB
GSA	SG 370PR	AB	Warner	W-564T	C
GSA	SG 40GBR	AB	Warner	W-655T	ABC
Horizon	956	AB	Warner	W-839A	AB
Horizon	101G	ABC	Warner	W-8510R	A
Horizon	104G	AB	Wilson	617G	A
King's Western	WS-212	C	Wilson	621G	A
Land O'Lakes	AFX 14	A	Wilson	623G	A
Land O'Lakes	AFX 18	A			

Plant height and head exertion readings were made at harvest. Lodging readings were taken at 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. 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 evaluation, hybrids should be compared with those having similar maturities.

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.

RESULTS

The average performance of all entries at each test location is shown in Table D. Excessive lodging contributed to low grain yields in Nuckolls County.

The maturity-yield correlation (r value) is an indication of the relationship between maturity (as measured by days to bloom) and grain yield. In Zone A, highly significant positive correlations between maturity and grain yield were obtained in all three trials. Correlations were nonsignificant in Zones B and C.

The average performance of hybrids included in trials over a five-year period is shown in Table E. These data indicate the effect of years upon the performance of the hybrids included.

Zone A

Ninety-five hybrids were grown at three Zone A locations in 1981. Average data are reported in Table 1a and individual test location information from trials in Saunders, Clay (irrigated) and Nuckolls Counties are shown in Tables 1b, 1c and 1d respectively.

June was very dry in Saunders County. Moisture after late July was adequate and good yields with high test weight grain were produced. Harvest was delayed by equipment problems and weather in Clay County. Some entries lodged badly. Early entries were affected most. Excessive lodging caused heavy grain losses in Nuckolls County. These data were excluded from zone and period of years averages. Lodging was correlated positively with maturity and negatively with grain yield.

Later-maturing entries were highest in yield at all three 1981 locations. This relationship exists for eleven of the last thirteen years for Zone A trials. Only in 1974, a very drouthy year with cooler than normal

August and September temperatures, was earlier maturity correlated with higher grain yield. In 1971, there was no significant relationship between moisture and grain yield.

Period-of-years data for Zone A are given in Tables 1e, 1f and 1g. Sixty-seven entries were included in two-, 44 in three-, 26 in four-, and 16 in five-year averages.

Zone B

Average yield and other data from two locations are shown in Table 2a. Conditions were especially favorable in Lincoln County and a 141.5 bushel yield resulted. Bushel weights were high (Table 2b). Wet fields delayed planting in Hitchcock County. Stand uniformity was not good. Weeds also were a problem. Final yields averaged 60.7 bushels per acre.

There was little relationship between maturity and grain yield in 1981. During the last thirteen years, later maturity was significantly correlated with higher grain yield in five seasons, earlier maturity was significantly correlated with higher grain yield in three seasons and there was no relationship between maturity and yield in five seasons. This is an area of high year to year variability in growing conditions which makes it difficult to predict performance.

Period-of-years data for Zone B are shown in Tables 2b and 2c. A total of 46 entries were included in two-year, 31 in three-, 22 in four-, and 10 in five-year averages.

Zone C

Moisture was adequate all season in Cheyenne County and an 83.6 bushel yield was produced (Table 3a). Cool August temperatures slowed development. Frost on September 17 killed most of the leaves but stalks were green when harvested on October 26.

There was no significant relationship between maturity and yield in 1981. In tests since 1977, early maturity was related to higher yields in 1978 and 1979. There was no significant correlation in 1977, 1980 and 1981.

Period-of-years data for Zone C are shown in Table 3b. Seasonal performance of entries has been inconsistent and yield differences generally are nonsignificant.

TABLE D. AVERAGE PERFORMANCE AT EACH TEST LOCATION, 1981.

Location	Planted	Seed spacing	Planting bloom	Plant height	Head exertion	Lodging	Test weight	Grain yield	Yield C.V.	Maturity yield correlation
		in <u>1/</u>	days	in	in	%	lb/bu	bu/A	%	r <u>2/</u>
Zone A (95 entries)										
Saunders	June 9	3.3	65.0	46.9	5.6	----	60.1	126.9	8.5	.55**
Nuckolls <u>3/</u>	June 8	3.1	62.3	48.0	4.3	37.4	56.4	74.4	35.8	.33**
Clay (irrigated)	May 30	2.8	68.5	47.1	2.7	12.4	55.2	107.5	15.9	.52**
Average (2 locations)	-----	---	67.1	47.2	4.4	12.4	57.7	117.4	-----	.65**
Zone B (67 entries)										
Lincoln	June 4	4.0	70.5	49.1	---	5.5	60.0	141.5	11.2	.17
Hitchcock	June 16	3.7	----	----	---	----	58.5	60.7	16.4	.16
Average (2 locations)	-----	---	70.5	49.1	---	5.5	59.3	101.6	-----	.19
Zone C (3 entries)										
Cheyenne	May 2	4.8	104.2	42.1	---	----	50.7	83.6	13.2	-.30

1/ Live seed basis. All row spacings 30 inches except Nuckolls County - 36 inches.

2/ Correlation of days to bloom for zone with acre grain yield. Higher r values indicate closer agreement, ** highly significant (1% level).

3/ Severe lodging. Yield and other data not included in zone period-of-years averages.

TABLE E. GRAIN SORGHUM. AVERAGE PERFORMANCE BY YEARS. ENTRIES COMMON OVER YEARS BY ZONES. 1977-1981.

Zone and year	Planting bloom days	Plant height in.	Head exsertion in.	Early grain moisture %	Lodging %	Test weight lb/bu	Grain yield bu/A
Zone A (16 entries)							
1977	66.7	36.8	2.9	24.0	6.8	52.0	65.9
1978	74.0	46.6	4.4	----	----	55.1	122.9
1979	74.0	44.8	4.6	25.1	0.6	58.0	135.4
1980	68.2	41.1	3.3	27.5	3.1	58.5	107.8
1981	66.6	46.9	3.9	29.6	13.9	56.6	109.7
Five-year average	69.8	43.2	3.9	26.6	6.2	56.1	108.4
Zone B (10 entries)							
1977	68.0	42.9	---	----	6.7	58.4	95.5
1978	74.7	34.5	---	----	23.6	57.0	52.5
1979	75.7	45.6	---	----	63.2	56.2	61.4
1980	73.8	39.3	---	----	----	54.3	78.6
1981	68.9	48.0	---	----	8.5	59.0	93.6
Five-year average	72.3	42.1			25.5	57.0	76.3
Zone C (7 entries)							
1977	71.1	35.9		----	16.0	56.2	41.5
1978	86.9	40.5		22.3	3.4	49.7	41.7
1979	82.4	36.2		----	----	53.2	50.5
1980	71.1	36.4		11.3	8.2	56.7	32.1
1981	98.1	42.7		21.4	----	53.1	79.9
Five-year average	82.0	38.3		18.3	9.4	53.8	49.1

TABLE 1a. ZONE A. SUMMARY. SAUNDERS AND CLAY (IRR) COUNTIES. 1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
FUNK'S	HW1769	59	42	3	25	33	58.2	90
CONLEE	QUICKEE	60	45	6	26	38	57.0	87
STOCKMANS	30Y	60	45	6	26	43	58.0	87
-----	RS 626	61	47	3	27	38	56.6	85
DEKALB	DK-42	61	42	4	28	0	56.3	116
ASGROW	CORRAL	62	49	6	27	18	58.8	114
GOLD TAG	335	62	49	5	27	25	55.8	101
GOLD TAG	475	62	48	6	28	30	58.2	112
MIGRO	TEK 1055R	62	51	7	28	33	59.1	107
WARNER	W-655T	62	49	5	30	40	58.9	108
WILSON	617G	62	49	7	27	8	58.3	109
CONLEE	PRONTO	63	49	6	30	13	58.0	108
GOLDEN ACRES	T-E Y-45	63	48	4	28	8	56.0	109
MC CURDY	554 YG	63	48	6	28	38	58.2	100
NC+	160	63	50	5	29	23	57.7	112
PAG	4433	63	48	4	26	20	56.1	95
PFIZER GENETICS	M550G	63	52	5	31	38	58.7	102
WAC	6510R	63	54	6	28	63	57.5	78
WAC	652G	63	49	5	28	10	58.6	106
FONTANELLE	5537	64	47	5	28	20	58.3	115
GOLDEN ACRES	T-E Y-45-G	64	49	5	30	38	58.4	109
PRAIRIE VALLEY	PV 535 GR	64	50	5	30	20	57.7	115
CARGILL	50	65	48	3	30	33	56.9	91
NORTHROP KING	NK BRAND 2244	65	44	5	28	0	57.6	120
ACCO-PAYMASTER	GR 1089	66	48	4	27	8	54.4	109
CARGILL	60	66	44	4	28	8	55.0	123
CENEX	400T	66	46	5	32	13	55.8	117
DEKALB	DK-58	66	48	4	34	0	59.1	136
GOLDEN ACRES	T-E Y-101-R	66	45	5	31	10	55.7	108
MC CURDY	16 YG	66	44	4	30	0	55.2	112
MC CURDY	51 YG	66	48	3	30	16	56.9	110
MIGRO	TEK 35R	66	46	3	29	10	55.3	112
NORTHROP KING	NK BRAND 2300	66	43	4	28	0	57.8	117
PFIZER GENETICS	EXP 8055	66	47	5	30	5	59.0	115
GSA	SG 40GBR	67	44	4	31	0	55.3	121
HORIZON	95G	67	47	4	31	0	55.7	126
MFA	GS-10	67	44	3	31	0	56.1	109
ORD	ORD G	67	44	5	30	20	55.9	121
PAG	4474	67	48	4	31	13	56.1	116
PAG	5514	67	44	5	31	0	56.0	119
-----	MARTIN	68	45	5	26	35	57.7	77
-----	TAM 680	68	58	6	31	35	59.1	112
CONLEE	RAWHIDE	68	46	4	29	3	55.5	117
DEKALB	C-46+	68	48	5	32	15	58.9	115
DEKALB	DK-57	68	49	4	33	0	59.3	127
FUNK'S	G-550	68	48	3	29	25	57.2	107
GOLDEN ACRES	T-E Y-101-G	68	45	4	30	0	58.3	133
GSA	GSA 1212	68	51	6	32	0	58.4	127
GSA	SG 39DMR	68	48	5	31	0	57.8	129
HORIZON	101G	68	43	4	31	0	58.0	133

CONTINUED

TABLE 1a. CONCLUDED.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
HORIZON	104G	68	48	5	33	18	58.2	123
MFA	GS-301A	68	44	4	30	0	57.7	127
PFIZER GENETICS	M568G	68	44	4	30	0	57.9	133
WAC	692G	68	47	5	31	3	58.0	131
	RS 671	69	48	3	30	33	56.0	94
ACCO-PAYMASTER	GR 108	69	43	4	32	8	55.8	119
ACCO-PAYMASTER	X7366	69	44	3	32	5	57.8	123
ASGROW	MUSTANG	69	44	4	31	0	58.0	132
ASGROW	TOPAZ	69	47	4	30	25	59.3	117
CARGILL	70	69	46	5	32	10	58.1	126
CENEX	405T	69	44	4	31	0	58.3	125
FONTANELLE	5583	69	47	4	30	8	57.3	122
GOLD TAG	565	69	45	5	30	0	57.8	128
GOLDEN ACRES	T-E DINERO-R	69	47	4	33	0	56.9	128
GSA	GSA 1310A	69	45	4	31	3	58.2	127
MC CURDY	937 YG	69	44	3	31	0	57.3	129
MIGRO	TEK 1094R	69	44	5	32	0	57.3	124
NC+	172	69	44	5	32	0	57.9	128
NC+	174	69	52	4	33	0	58.4	135
NORTHRUP KING	NK BRAND 2660	69	47	5	31	5	58.1	129
NORTHRUP KING	NK BRAND 2778	69	48	5	32	0	58.5	131
PAG	5550	69	45	3	34	18	56.6	113
PRAIRIE VALLEY	PV 708 GR	69	50	4	34	0	59.2	126
PRAIRIE VALLEY	PV 734 GR	69	44	5	33	0	58.1	130
WAC	DT01G	69	50	3	33	0	57.9	135
WARNER	W-839A	69	45	4	32	0	58.1	132
WARNER	W-8510R	69	50	3	32	5	58.9	126
WILSON	621G	69	44	4	33	0	58.0	130
ACCO-PAYMASTER	DG 1195	70	49	4	32	8	59.0	127
ACCO-PAYMASTER	GR (2) 1200	70	44	4	31	0	58.5	129
ACCO-PAYMASTER	GR 1138	70	44	4	29	0	56.6	122
CENEX	410T	70	52	4	33	8	59.0	137
CONLEE	TOP HAND II	70	48	4	32	0	57.4	125
LAND O'LAKES	AFX 14	70	50	5	35	33	58.6	109
MC CURDY	57 YG	70	52	3	32	28	58.6	126
NC+	271	70	49	6	34	0	58.8	134
NORTHRUP KING	NK BRAND 2670	70	55	4	32	45	58.2	104
WILSON	623G	70	51	3	32	0	59.0	135
DEKALB	DK-61	71	46	4	33	0	59.1	127
GOLDEN ACRES	T-E EXP. 8037	71	44	4	34	0	57.8	124
LAND O'LAKES	AFX 18	71	48	5	33	30	59.3	105
ORO	ORO G XTRA	71	49	3	32	15	58.6	123
DEKALB	DK-59	72	52	5	34	20	57.1	119
FONTANELLE	6651	72	50	4	35	5	58.6	125
ASGROW	COLT	73	50	3	36	0	59.2	140
AVERAGE ALL ENTRIES		67.1	47.2	4.4	30.6	12.4	57.7	117.4
DIF. REQ. FOR SIG. 5%		2.9	3.5	1.6	3.1	24.8	1.7	28.2
25%		1.7	2.1	1.0	1.8	14.6	1.0	16.6

Early grain moisture, Saunders County only.
Lodging, Clay County only.

TABLE 1b. ZONE A. SAUNDERS COUNTY. 1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LOOSE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
FUNK'S	HW1769	60	42	3	25	*	60.9	102
CONLEE	QUICKEE	61	43	6	26	*	60.7	95
STOCKMANS	30Y	61	43	6	26	*	60.9	98
-----	RS 626	61	45	3	27	*	59.1	100
DEKALB	DK-42	60	43	4	28	*	59.4	112
GOLD TAG	335	62	45	6	27	*	59.0	108
MIGRO	TEK 1055R	61	50	8	28	*	61.0	119
WARNER	W-655T	61	50	7	30	*	61.0	135
WILSON	617G	60	50	8	27	*	61.2	122
ASGROW	CORRAL	60	52	7	27	*	61.1	129
GOLD TAG	475	61	49	7	28	*	61.1	132
CONLEE	PRONTO	62	51	8	30	*	60.7	120
MC CURDY	554 YG	61	49	7	28	*	61.2	122
NC+	160	61	49	7	29	*	61.1	126
MAC	651DR	62	55	7	28	*	60.4	119
MAC	652G	62	49	6	28	*	60.9	114
GOLDEN ACRES	T-E Y-45	62	47	6	28	*	59.5	105
PAG	4433	61	46	6	26	*	59.3	109
PFIZER GENETICS	M550G	63	53	7	31	*	60.9	123
GOLDEN ACRES	T-E Y-45-G	62	49	7	30	*	60.9	125
PRAIRIE VALLEY	PV 535 GR	63	50	7	30	*	60.7	121
FONTANELLE	5537	63	46	7	28	*	61.1	133
CARGILL	50	64	47	5	30	*	59.4	121
NORTHROP KING	NK BRAND 2244	65	43	6	28	*	60.1	126
CARGILL	60	63	46	5	28	*	59.0	126
CENEX	400T	64	47	6	32	*	58.3	131
GOLDEN ACRES	T-E Y-101-R	64	45	7	31	*	58.7	119
MC CURDY	16 YG	63	42	6	30	*	58.9	119
MC CURDY	51 YG	63	46	6	30	*	58.9	125
ACCO-PAYMASTER	GR 1089	64	48	5	27	*	57.7	114
DEKALB	DK-58	65	46	5	34	*	61.1	130
MIGRO	TEK 35R	63	45	5	29	*	58.8	121
NORTHROP KING	NK BRAND 2300	65	42	4	28	*	59.5	118
PFIZER GENETICS	EXP 8055	64	47	7	30	*	60.9	126
GSA	SG 40GBR	65	43	6	31	*	58.9	118
HORIZON	95G	64	48	6	31	*	58.7	120
CRO	ORO G	65	44	6	30	*	59.6	122
PAG	4474	64	48	5	31	*	59.2	131
MFA	GS-10	64	43	4	31	*	60.1	120
PAG	5514	65	45	6	31	*	59.1	124
-----	TAM 680	66	59	7	31	*	60.7	139
DEKALB	C-46+	65	44	6	32	*	60.8	124
FUNK'S	G-550	66	50	5	29	*	60.1	125
GSA	SG 390MR	65	50	6	31	*	60.3	140
MFA	GS-301A	65	44	5	30	*	60.6	136
-----	MARTIN	67	43	6	26	*	60.3	67
CONLEE	RAWHIDE	65	46	5	29	*	58.6	123
DEKALB	DK-57	68	47	5	33	*	60.5	131
GOLDEN ACRES	T-E Y-101-G	65	45	5	30	*	60.5	130
GSA	GSA 1212	65	53	7	32	*	60.5	133

CONTINUED

TABLE 1b. CONCLUDED.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
HORIZON	101G	66	44	6	31	•	60.4	130
HORIZON	104G	65	47	6	33	•	59.6	145
PFIZER GENETICS	M568G	66	44	5	30	•	60.6	133
WAC	692G	65	45	5	31	•	60.5	135
ACCO-PAYMASTER	GR 108	65	43	5	32	•	58.4	126
ACCO-PAYMASTER	X7366	67	44	5	32	•	59.9	126
ASGROW	TOPAZ	66	48	5	30	•	61.9	134
CARGILL	70	66	44	6	32	•	60.2	126
CENEX	405T	65	43	5	31	•	60.5	126
GOLD TAG	565	66	44	6	30	•	60.5	121
GSA	GSA 1310A	65	46	4	31	•	60.5	132
MC CURDY	937 YG	66	45	5	31	•	60.3	132
MIGRO	TEK 1094R	66	44	5	32	•	60.7	129
NC+	172	66	44	5	32	•	60.6	128
NORTHRUP KING	NK BRAND 2660	65	48	5	31	•	60.2	145
PAG	5550	66	45	4	34	•	59.1	120
WAC	0701G	67	50	5	33	•	60.6	157
WILSON	621G	66	44	5	33	•	60.0	122
-----	R5 671	67	46	4	30	•	58.2	124
ASGROW	MUSTANG	66	44	5	31	•	60.7	126
FONTANELLE	5583	67	48	5	30	•	59.5	130
GOLDEN ACRES	T-E DINERO-R	66	47	5	33	•	59.3	133
NC+	174	67	51	5	33	•	60.9	151
NORTHRUP KING	NK BRAND 2778	67	48	6	32	•	60.6	140
PRAIRIE VALLEY	PV 708 GR	67	43	5	34	•	60.8	144
PRAIRIE VALLEY	PV 734 GR	67	42	6	33	•	60.4	126
WARNER	W-839A	67	44	7	32	•	60.4	133
WARNER	W-8510R	67	49	5	32	•	60.7	146
ACCO-PAYMASTER	DG 1195	68	47	6	32	•	61.0	138
ACCO-PAYMASTER	GR (21) 1200	67	44	5	31	•	60.5	133
LAND O'LAKES	AFX 14	68	48	7	35	•	60.2	134
MC CURDY	57 YG	67	51	5	32	•	60.6	143
NORTHRUP KING	NK BRAND 2670	69	54	6	32	•	60.2	133
ACCO-PAYMASTER	GR 1138	70	42	6	29	•	59.4	112
CENEX	410T	68	52	5	33	•	60.9	154
CONLEE	TOP HAND 11	67	49	5	32	•	59.8	128
NC+	271	68	47	7	34	•	60.5	134
WILSON	623G	67	50	5	32	•	61.0	155
GOLDEN ACRES	T-E EXP. 8037	68	44	5	34	•	59.8	122
LAND O'LAKES	AFX 18	68	46	6	33	•	60.7	120
ORO	ORO C XTRA	68	49	4	32	•	60.7	139
DEKALB	DK-61	69	46	4	33	•	60.4	126
DEKALB	DK-59	71	51	6	34	•	59.7	149
FONTANELLE	6651	69	51	5	35	•	60.6	139
ASGROW	COLT	72	50	4	36	•	60.2	144
AVERAGE ALL ENTRIES		65.0	46.9	5.6	30.6		60.1	126.9
DIF. REQ. FOR SIG. 5%		1.6	4.2	1.5	3.1		0.7	14.9
25%		0.9	2.5	0.9	1.8		0.4	8.8

Early grain moisture: Oct. 11-12.

TABLE 1c. ZONE A. CLAY COUNTY IRRIGATED. 1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
FUNK'S	HW1769	58	41	3	•	33	55.6	77
CONLEE	QUICKEE	59	46	5	•	38	53.4	79
STOCKMANS	30Y	59	47	5	•	43	55.2	75
-----	RS 626	61	49	3	•	38	54.2	69
DEKALB	DK-42	62	41	3	•	0	53.3	119
GOLD TAG	335	61	52	4	•	25	52.5	93
MIGRO	TEK 1055R	62	51	5	•	33	57.3	94
WARNER	W-655T	62	47	3	•	40	56.5	81
WILSON	617G	63	48	5	•	8	55.5	96
ASGROW	CORRAL	64	45	4	•	18	56.6	99
GOLD TAG	475	63	46	4	•	30	55.4	92
CONLEE	PRONTO	63	47	3	•	13	55.4	96
MC CURDY	554 YG	64	46	4	•	38	55.3	77
NC+	160	64	51	3	•	23	54.4	98
MAC	6510R	63	53	5	•	63	54.7	37
MAC	652G	63	48	4	•	10	56.3	98
GOLDEN ACRES	T-E Y-45	64	49	2	•	8	53.6	113
PAG	4433	65	49	2	•	20	52.9	80
PFIZER GENETICS	M550G	63	50	3	•	38	56.5	81
GOLDEN ACRES	T-E Y-45-G	65	48	2	•	18	56.0	92
PRAIRIE VALLEY	PV 535 GR	64	49	3	•	20	54.7	108
FONTANELLE	5537	65	48	2	•	20	55.6	96
CARGILL	50	65	49	1	•	13	54.5	61
NORTHROP KING	NK BRAND 2244	64	44	3	•	0	55.1	114
CARGILL	60	68	42	2	•	8	51.0	120
CENEX	400T	67	45	3	•	13	53.4	103
GOLDEN ACRES	T-E Y-101-a	67	45	2	•	10	52.7	97
MC CURDY	16 YG	68	45	2	•	0	51.5	105
MC CURDY	51 YG	68	49	0	•	18	54.9	94
ACCO-PAYMASTER	GR 1089	68	47	2	•	8	51.2	104
DEKALB	DK-58	67	50	3	•	0	57.1	141
MIGRO	TEK 35R	69	46	1	•	10	51.9	103
NORTHROP KING	NK BRAND 2300	67	44	3	•	0	56.0	116
PFIZER GENETICS	EXP 8055	68	47	2	•	5	57.2	104
GSA	SG 40GBR	68	45	2	•	0	51.8	124
HORIZON	95G	69	45	2	•	0	52.7	131
ORO	ORO G	68	44	3	•	20	52.2	120
PAG	4474	69	47	3	•	13	53.0	101
MFA	GS-10	70	45	2	•	0	52.1	97
PAG	5514	69	43	3	•	0	52.9	113
-----	TAM 680	69	57	5	•	35	57.5	85
DEKALB	C-46+	70	51	4	•	15	57.0	106
FUNK'S	G-550	69	46	1	•	25	54.4	88
GSA	SG 390MR	70	46	3	•	0	55.4	115
MFA	GS-301A	70	43	3	•	0	54.9	118
-----	MARTIN	69	46	3	•	35	55.1	87
CONLEE	RAWHIDE	71	46	3	•	3	52.4	110
DEKALB	DK-57	68	50	2	•	0	58.0	122
GOLDEN ACRES	T-E Y-101-G	71	44	3	•	0	56.1	136
GSA	GSA 1212	71	48	4	•	0	56.3	120

CONTINUED

TABLE 1c. CONCLUDED.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LOOSE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
HORIZON	101G	70	42	2	•	0	55.7	135✓
HORIZON	104G	71	49	3	•	18	56.9	100
PFIZER GENETICS	M568G	70	44	2	•	0	55.3	133
WAC	692G	71	48	5	•	3	55.5	127
ACCO-PAYMASTER	GR 108	72	43	2	•	8	53.2	111
ACCO-PAYMASTER	X7366	70	44	1	•	5	55.7	119
ASGROW	TOPAZ	71	45	2	•	25	57.8	100
CARGILL	70	71	47	4	•	10	56.0	125
CENEX	405T	72	45	3	•	0	56.1	123
GOLD TAG	565	71	46	3	•	0	55.0	134
GSA	GSA 1310A	72	43	3	•	3	55.9	122
MC CURDY	937 YG	71	42	1	•	0	54.4	125
MIGRO	TEK 1094R	71	44	5	•	0	54.0	119
NC+	172	71	43	4	•	0	55.3	127
NORTHROP KING	NK BRAND 2660	72	46	4	•	5	56.0	112
PAG	5550	71	45	1	•	18	54.2	106
WAC	D701G	70	50	1	•	0	55.2	112
WILSON	621G	71	44	2	•	0	56.1	137✓
-----	RS 671	71	49	2	•	33	53.9	64
ASGROW	MUSTANG	72	44	2	•	0	55.4	138✓
FONTANELLE	5583	71	46	3	•	8	55.2	113
GOLDEN ACRES	T-E DINERO-R	72	46	2	•	0	54.6	122
NC+	174	71	52	3	•	0	56.0	118
NORTHROP KING	NK BRAND 2778	71	48	3	•	0	56.5	122
PRAIRIE VALLEY	PV 708 GR	71	51	3	•	0	57.7	108
PRAIRIE VALLEY	PV 734 GR	71	45	3	•	0	55.9	133
WARNER	M-839A	71	45	1	•	0	55.9	131
WARNER	M-851DR	71	50	1	•	5	57.2	106
ACCO-PAYMASTER	DG 1195	71	50	2	•	8	57.1	115
ACCO-PAYMASTER	GR (2) 1200	72	43	3	•	0	56.6	124
LAND O'LAKES	AFX 14	71	51	3	•	33	57.0	84
MC CURDY	57 YG	72	53	1	•	28	56.6	109
NORTHROP KING	NK BRAND 2670	70	56	2	•	45	56.2	74
ACCO-PAYMASTER	GR 1138	70	45	2	•	0	53.9	132
CENEX	410T	72	51	2	•	8	57.1	119
CONLEE	TOP HAND 11	73	47	2	•	0	55.1	121
NC+	271	72	50	4	•	0	57.1	134
WILSON	623G	73	51	1	•	0	57.0	114
GOLDEN ACRES	T-E EXP. 8037	73	44	2	•	0	55.9	125
LAND O'LAKES	AFX 18	73	50	3	•	30	58.0	89
ORO	ORO G XTRA	73	48	2	•	15	56.5	106
DEKALB	DK-61	73	45	3	•	0	57.7	128
DEKALB	DK-59	72	52	4	•	20	54.5	88
FONTANELLE	6651	74	49	2	•	5	56.6	110
ASGROW	COLT	74	49	1	•	0	58.2	136✓
AVERAGE ALL ENTRIES		68.5	47.1	2.7		12.4	55.2	107.5
DIF. REQ. FOR SIG.	5%	2.5	4.4	2.2		24.8	1.7	23.7
	25%	1.5	2.6	1.3		14.6	1.0	14.0

TABLE 16. ZONE A. NUCKOLLS COUNTY. 1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
FUNK'S	HW1769	58	45	5	•	40	54.5	65
CONLEE	QUICKEE	60	48	4	•	48	55.3	64
STOCKMANS	30Y	60	48	5	•	28	56.8	67
DEKALB	DK-42	59	44	5	•	38	56.5	78
-----	RS 626	60	44	2	•	38	55.1	65
MIGRO	TEK 1055R	59	52	6	•	60	58.2	49
ASGROW	CORRAL	59	52	8	•	65	57.6	33
GOLD TAG	335	60	50	6	•	48	56.5	40
WARNER	W-655T	60	56	9	•	70	58.4	30
WILSON	6176	60	52	9	•	75	57.1	26
CONLEE	PRONTO	59	51	7	•	20	55.5	91
GOLD TAG	475	60	50	7	•	78	53.9	41
MC CURDY	554 YG	59	48	5	•	75	58.8	35
NC+	160	59	52	8	•	75	58.6	33
PFIZER GENETICS	M550G	59	51	7	•	28	56.1	75
WAC	651DR	60	52	4	•	68	57.4	41
PAG	4433	60	46	4	•	50	55.4	68
WAC	652G	61	50	4	•	78	58.5	29
GOLDEN ACRES	T-E Y-45	61	48	5	•	40	56.3	60
GOLDEN ACRES	T-E Y-45-G	60	47	6	•	40	56.9	66
PRAIRIE VALLEY	PV 535 GR	60	51	6	•	55	57.6	44
FONTANELLE	5537	60	48	4	•	70	58.1	51
CARGILL	50	61	46	5	•	58	55.3	54
NORTHROP KING	NK BRAND 2244	61	45	4	•	23	56.1	94
CARGILL	60	61	45	3	•	18	53.5	97
GOLDEN ACRES	T-E Y-101-R	61	50	6	•	8	52.1	91
MC CURDY	16 YG	61	44	3	•	15	53.5	85
MC CURDY	51 YG	61	45	3	•	35	52.8	80
ALCO-PAYMASTER	GR 1089	61	47	3	•	23	51.5	66
CENEX	400T	62	46	4	•	35	55.3	93
DEKALB	DK-58	61	46	2	•	30	58.7	70
MIGRO	TEK 35R	61	45	3	•	34	53.1	62
HORIZON	95G	61	46	2	•	23	54.3	80
PFIZER GENETICS	EXP 8055	62	47	4	•	48	58.3	70
GSA	SG 40GBR	62	45	3	•	18	54.4	93
NORTHROP KING	NK BRAND 2300	63	44	3	•	35	57.3	69
ORD	ORD G	62	49	6	•	13	54.4	97
PAG	4474	62	47	2	•	8	56.8	93
PAG	5514	61	43	2	•	43	54.5	68
FUNK'S	G-550	61	47	4	•	54	56.7	57
GSA	GSA 1212	60	52	9	•	51	57.3	52
-----	MARTIN	62	44	6	•	40	57.4	66
CARGILL	70	61	46	5	•	15	56.9	117
CENEX	405T	61	47	3	•	35	56.3	82
DEKALB	C-46+	63	46	4	•	30	58.4	90
DEKALB	DK-57	62	48	3	•	23	54.1	88
GOLDEN ACRES	T-E Y-101-G	62	45	6	•	36	56.9	72
GSA	GSA 1310A	61	48	7	•	13	57.3	98
GSA	SG 390MR	63	51	4	•	50	54.5	60
HORIZON	104G	62	50	5	•	55	56.5	47

CONTINUED

TABLE 1d. CONCLUDED.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
MFA	GS-10	64	47	5	*	30	56.5	69
WAC	692G	62	48	4	*	25	56.6	97
ACCO-PAYMASTER	X7366	62	46	4	*	5	55.4	101
HORIZON	101G	63	46	6	*	0	57.4	103
MFA	GS-301A	64	47	4	*	5	57.0	128
MIGRO	TEK 1094R	62	44	5	*	18	57.1	94
NC+	172	62	45	6	*	10	57.5	118
NORTHRUP KING	NK BRAND 2660	62	50	5	*	25	54.8	96
WILSON	621G	62	47	4	*	28	57.7	87
-----	TAM 680	65	54	5	*	73	58.3	53
GOLD TAG	565	63	48	4	*	13	57.6	101
MC CURDY	937 YG	63	45	3	*	18	56.7	107
NORTHRUP KING	NK BRAND 2778	62	47	5	*	58	57.1	52
PFIZER GENETICS	M568G	64	47	6	*	18	55.4	102
PRAIRIE VALLEY	PV 734 GR	62	46	6	*	8	57.4	117
WARNER	W-839A	62	45	3	*	20	57.7	105
ASGROW	TOPAZ	64	50	3	*	53	57.9	62
CONLEE	RAWHIDE	65	46	3	*	10	51.8	87
FONTANELLE	5583	63	51	4	*	70	55.8	63
-----	RS 671	64	47	2	*	53	54.5	54
ACCO-PAYMASTER	GR 108	65	45	3	*	23	53.5	95
ASGROW	MUSTANG	64	48	5	*	23	58.1	101
CONLEE	TOP HAND II	62	49	3	*	38	53.4	61
GOLDEN ACRES	T-E DINERO-R	64	46	1	*	50	55.0	72
NC+	271	62	50	5	*	55	58.0	55
PAG	5550	65	49	2	*	15	56.0	106
PRAIRIE VALLEY	PV 708 GR	64	54	6	*	40	59.2	79
WARNER	W-851DR	64	51	3	*	45	56.7	65
LAND O'LAKES	AFX 14	64	53	8	*	75	57.5	28
NC+	174	65	50	4	*	28	57.2	66
NORTHRUP KING	NK BRAND 2670	64	54	3	*	73	56.3	26
WAC	D701G	66	51	2	*	60	57.3	44
ACCO-PAYMASTER	GR (2) 1200	65	44	4	*	23	56.4	97
CENEX	410T	64	53	3	*	40	55.9	73
MC CURDY	57 YG	65	49	3	*	55	54.4	54
ACCO-PAYMASTER	DG 1195	66	44	3	*	28	56.5	77
ACCO-PAYMASTER	GR 1138	65	45	3	*	0	55.5	125
ORD	ORD G XTRA	64	49	2	*	35	57.3	76
GOLDEN ACRES	T-E EXP. 8037	65	46	4	*	0	56.7	116
WILSON	623G	66	53	3	*	73	58.0	48
LAND O'LAKES	AFX 18	66	49	3	*	20	57.5	80
DEKALB	DK-61	66	50	5	*	40	58.3	83
DEKALB	DK-59	66	50	2	*	40	54.9	73
FONTANELLE	6651	66	50	1	*	48	57.7	59
ASGROW	COLT	67	47	2	*	28	58.1	77
AVERAGE ALL ENTRIES		62.3	48.0	4.3		37.4	56.4	73.8
DIF. REQ. FOR SIG. 5%		2.0	4.8	3.3		35.8	2.1	36.8
25%		1.2	2.8	1.9		21.1	1.3	21.7

Severe lodging affected grain recovery. Yield variability high (C.V. 35.8%). These data are not included in 1981 or period-of-years averages for this zone.

TABLE 1e. ZONE A, 1980-1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXTENT IN	EARLY MOIST PCT	STALK LOOSE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
TWO-YEAR AVERAGE								
CONLEE	QUICKER	61	41	5	25	38	57.0	81
-----	RS 626	62	44	5	27	38	57.0	85
MIGRO	TER 1055R	62	47	6	26	33	59.3	109
WARNER	W-655T	62	46	5	27	40	59.3	113
ASGROW	CORRAL	63	47	6	26	18	59.6	113
GOLDEN ACRES	T-E Y-45	63	46	4	26	8	56.8	103
PAG	4433	63	43	4	25	20	56.8	87
PFIZER GENETICS	M550G	63	48	5	24	18	59.6	114
WAC	652G	63	47	5	26	10	59.0	113
WILSON	617G	63	47	6	26	8	56.8	111
CARGILL	50	64	45	4	29	33	57.6	107
NC+	160	64	47	5	28	73	58.5	116
FONTELLE	5537	65	44	4	26	20	59.1	119
PRAIRIE VALLEY	PV 535 GR	65	46	5	28	20	58.9	117
CARGILL	60	66	42	4	28	8	56.6	116
MC CUDDY	16 YG	66	42	4	29	0	56.6	108
-----	MARTIN	67	41	4	24	35	57.9	67
ACCO-PAYMASTER	GR 1089	67	45	4	27	8	56.0	107
CINER	400T	67	43	4	30	13	56.9	116
DEKALB	DR-57	67	46	3	33	0	59.5	126
DEKALB	DR-58	67	45	3	31	0	59.9	131
FUNK'S	G-550	67	46	3	29	75	58.6	112
GOLDEN ACRES	T-E Y-101-R	67	43	4	29	10	56.6	116
MC CUDDY	51 YG	67	44	3	29	18	57.5	108
MIGRO	TER 35A	67	43	4	28	10	56.7	113
PAG	5514	67	42	4	29	0	57.3	115
-----	TAM 680	68	51	4	29	35	59.3	115
ACCO-PAYMASTER	GR 108	68	62	3	29	8	57.2	115
DEKALB	C-46+	68	45	5	30	15	59.5	110
MFA	GS-10	68	42	3	29	0	57.0	105
-----	RS 671	69	45	3	28	33	57.0	103
ASGROW	TOPAZ	69	44	3	29	25	60.6	126
CONLEE	RAMHIDE	69	43	3	30	3	56.8	117
GSA	SG 40GBR	69	42	4	31	0	56.7	111
HORIZON	104G	69	47	4	32	18	59.1	128
HORIZON	95G	69	43	4	30	0	56.5	116
PAG	4474	69	44	3	30	13	57.5	115
PFIZER GENETICS	M568G	69	43	3	28	0	59.1	128
CARGILL	70	70	43	4	30	10	58.9	124
GSA	GSA 1212	70	46	5	31	0	58.9	127
GSA	GSA 1310A	70	43	4	30	3	58.9	128
GSA	SG 390HR	70	45	4	30	0	58.4	125
HORIZON	101G	70	41	4	29	0	59.1	127
MFA	GS-101A	70	42	4	29	0	58.9	125
MIGRO	TER 1094R	70	42	4	30	0	58.9	128
NC+	172	70	42	4	30	0	59.1	126
NC+	174	70	47	3	33	0	59.1	140
PRAIRIE VALLEY	PV 70R GR	70	46	4	32	0	59.9	129
PRAIRIE VALLEY	PV 73A GR	70	42	4	31	0	59.0	126
WAC	692G	70	43	4	30	3	58.9	130
WARNER	W-639A	70	42	4	30	0	58.9	126
WILSON	621G	70	43	3	31	0	59.1	132
ACCO-PAYMASTER	DG 1195	71	44	4	33	8	59.9	123
ASGROW	MUSTANG	71	42	3	30	0	58.0	124
CONLEE	TCP HAND 11	71	45	3	31	0	59.2	120
GOLDEN ACRES	T-E BINDER-R	71	44	3	31	0	57.3	126
NC+	271	71	46	5	33	0	59.6	127
NORTHROP KING	NK BRAND 2670	71	49	4	31	45	59.0	118
NORTHROP KING	NK BRAND 2778	71	45	4	32	0	58.8	129
WAC	0701G	71	47	3	32	0	58.7	129
WILSON	621G	71	48	3	32	0	59.6	131
ORD	ORD G KTRA	72	47	3	32	15	59.4	127
WARNER	W-8510R	72	47	3	34	5	59.4	126
ACCO-PAYMASTER	GR 121 120R	71	42	4	32	0	59.0	118
DEKALB	DR-59	73	48	4	34	20	57.8	120
DEKALB	DR-61	74	45	4	34	0	59.1	118
ASGROW	CUL1	75	47	3	38	0	59.6	134
AVERAGE ALL ENTRIES		68.1	44.6	3.9	29.7	10.9	58.4	117.5
ST. REG. FOR SIG.	SE	2.4	3.1	1.2	3.2	24.8	1.8	15.7
	2SE	1.4	1.8	0.7	1.8	14.6	0.6	9.1

No lodging data 1980.

TABLE 1F. ZONE A. 1979-1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
THREE-YEAR AVERAGE								
WARNER	W-655T	64	47	5	25	21	59.7	123
-----	RS 626	65	44	4	24	20	57.2	92
GOLDEN ACRES	T-E Y-45	65	46	5	25	6	56.9	114
MIGRO	TEK 1055R	65	48	6	26	19	59.6	123
PAG	4433	65	43	4	24	11	57.3	99
ASGROW	CORRAL	67	47	6	25	10	59.7	123
PFIZER GENETICS	M550G	67	48	6	27	20	59.6	125
PRAIRIE VALLEY	PV 535 GR	67	47	5	26	13	59.4	125
ACCO-PAYMASTER	GR 1089	68	45	4	26	5	56.4	115
CARGILL	60	69	42	4	27	6	56.8	121
DEKALB	DK-57	69	45	3	30	1	59.6	130
GOLDEN ACRES	T-E Y-101-R	69	42	4	28	7	56.6	128
MC CURDY	16 YG	69	42	4	29	2	56.8	118
MC CURDY	51 YG	69	43	3	28	10	57.5	121
MIGRO	TEK 35R	69	43	4	27	6	57.1	120
-----	MARTIN	70	42	5	21	20	58.3	74
ACCO-PAYMASTER	GR 108	70	42	4	27	5	57.3	123
CONLEE	RAWHIDE	70	43	4	29	3	56.8	123
DEKALB	C-46+	70	47	5	28	9	59.5	117
GSA	SG 40GBR	70	42	4	29	1	56.8	123
HORIZON	95G	70	43	4	28	2	56.7	124
PAG	5514	70	42	4	28	1	57.2	122
-----	RS 671	71	46	4	27	18	57.3	113
-----	TAM 680	71	52	4	28	19	59.9	121
ASGROW	TCPAZ	71	44	4	29	14	60.7	134
HORIZON	104G	71	47	5	33	10	59.4	135
PAG	4474	71	44	3	29	8	57.5	126
ASGROW	MUSTANG	72	42	4	29	1	59.2	131
CARGILL	70	72	43	4	30	7	59.0	131
GSA	GSA 1212	72	47	5	29	1	59.0	134
GSA	GSA 1310A	72	43	4	29	3	59.1	132
HORIZON	101G	72	41	4	28	1	59.4	133
MFA	GS-301A	72	42	4	27	1	59.1	129
NC+	172	72	42	4	29	1	59.2	131
PFIZER GENETICS	M568G	72	43	3	28	1	59.3	132
PRAIRIE VALLEY	PV 708 GR	72	47	4	31	1	60.1	137
PRAIRIE VALLEY	PV 734 GR	72	42	4	29	1	59.2	132
CONLEE	TOP HAND II	73	46	4	31	3	58.2	129
NORTHROP KING	NK BRAND 2670	73	49	4	28	24	59.1	124
NORTHROP KING	NK BRAND 2778	73	46	5	31	2	59.2	136
ORD	ORD G XTRA	73	47	3	31	9	59.2	137
ACCO-PAYMASTER	GR (2) 1200	74	41	4	29	1	58.8	123
DEKALB	DK-61	75	46	4	33	1	59.3	128
ASGROW	CULT	77	47	3	36	1	58.6	141
AVERAGE ALL ENTRIES		70.2	44.5	4.2	28.2	7.4	58.5	124.0
DIF REQ. FOR SIG. 5%		2.2	2.4	0.9	3.0	N.S.	0.9	11.9
25%		1.3	1.4	0.5	1.7	N.S.	0.5	6.9

No lodging data 1980.

TABLE 1g. ZONE A. 1977-1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
FOUR-YEAR AVERAGE								
-----	RS 626	67	45	4	24	14	56.7	96
GOLDEN ACRES	T-E Y-45	67	47	5	25	4	56.3	114
PFIZER GENETICS	M550G	68	49	6	27	14	59.2	128
ACCO-PAYMASTER	GR 1089	69	45	4	26	4	55.7	116
ACCO-PAYMASTER	GR 108	70	43	4	27	4	56.8	124
MC CURDY	16 YG	70	43	4	29	1	56.0	120
MC CURDY	51 YG	70	44	4	28	7	56.9	123
MIGRO	TEK 35R	70	43	4	27	4	56.4	121
-----	MARTIN	71	42	5	21	13	57.7	77
CONLEE	RAWHIDE	71	43	4	29	2	56.6	123
GOLDEN ACRES	T-E Y-101-R	71	43	4	28	5	55.6	128
GSA	SG 40GBR	71	43	4	29	1	56.0	125
HORIZON	95G	71	44	4	28	1	56.3	123
PAG	5514	71	43	4	28	1	56.6	122
-----	RS 671	72	46	4	27	12	56.5	114
-----	TAM 680	72	52	5	28	13	59.5	123
DEKALB	C-46+	72	48	5	28	7	58.9	117
NC+	172	72	43	4	29	1	58.6	130
PAG	4474	72	44	4	29	5	56.8	126
ASGROW	MUSTANG	73	43	4	29	1	58.8	131
ASGROW	TOPAZ	73	45	3	29	9	59.8	135
HORIZON	101G	73	42	4	28	1	58.9	134
MFA	GS-301A	73	43	4	27	1	57.5	129
NORTHROP KING	NK BRAND 277B	73	47	5	31	1	58.6	136
PRAIRIE VALLEY	PV 708 GR	73	48	4	31	1	59.2	136
CONLEE	TOP HAND II	74	46	4	31	2	57.7	130
AVERAGE ALL ENTRIES		71.1	44.8	4.2	27.8	5.0	57.4	122.3
DIF. REQ. FOR SIG. 5%		1.9	1.7	0.7			1.9	0.9
25%		1.1	1.0	0.4			1.1	5.2
FIVE-YEAR AVERAGE								
-----	RS 626	66	44	4	24	12	55.7	89
GOLDEN ACRES	T-E Y-45	66	45	4	24	7	55.5	105
ACCO-PAYMASTER	GR 1089	68	44	4	25	4	55.4	109
MC CURDY	51 YG	69	42	3	27	6	55.8	111
MIGRO	TEK 35R	69	42	4	27	6	55.2	109
-----	MARTIN	70	41	4	22	14	57.0	71
CONLEE	RAWHIDE	70	41	4	27	2	55.2	109
GOLDEN ACRES	T-E Y-101-R	70	41	4	27	4	54.4	115
GSA	SG 40GBR	70	41	4	28	2	54.9	112
MC CURDY	16 YG	70	42	4	29	2	55.1	110
PAG	5514	70	42	4	26	2	55.6	114
-----	RS 671	71	44	4	26	12	55.5	103
-----	TAM 680	71	50	4	27	13	58.7	114
ASGROW	TOPAZ	72	43	3	27	8	58.9	121
CONLEE	TOP HAND II	72	44	3	30	3	56.6	117
NORTHROP KING	NK BRAND 277B	72	45	5	30	2	57.3	125
AVERAGE ALL ENTRIES		69.8	43.2	3.9	26.6	6.2	56.1	108.4
DIF. REQ. FOR SIG. 5%		1.5	1.6	0.7	3.6	N.S.	0.9	9.8
25%		0.9	1.0	0.4	2.1	6.9	0.5	5.7

No early grain moisture data 1978.
No lodging data 1978.

TABLE 2a. ZONE 8. SUMMARY. LINCOLN AND HITCHCOCK COUNTIES. 1961.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LOOSE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
-----	NR 505	62	48		*	21	59.4	74
CARGILL	30	66	49			4	58.5	95
CONLEE	QUICHEE	66	46	*	*	2	59.1	88
DEKALB	DK-38	66	54	*		4	59.5	100
PAG	4433	66	50	*	*	3	59.1	100
NORTHROP KING	NK BRAND 2244	67	44		*	8	58.9	108
-----	MARTIN	68	50	*	*	7	60.3	85
-----	RS 426	68	49	*	*	19	59.4	96
CARGILL	50	68	48		*	4	59.4	97
CONLEE	PRONTO	68	52	*		9	60.0	107
DEKALB	DK-42	68	44	*	*	5	59.3	105
FONTELLE	4455	68	52	*	*	10	59.4	102
MC CORDY	554 YG	68	51	*	*	5	60.7	113
MC CORDY	89 YG	68	50	*	*	14	59.9	100
NORTHROP KING	NK BRAND 2030	68	43	*	*	2	60.7	96
PRAIRIE VALLEY	PV 535 GR	68	52			9	60.6	108
WAC	650R	68	54	*	*	33	60.5	107
WARNER	W-655T	68	51		*	6	59.4	107
ACCO-PAYMASTER	GR 1018	69	49	*	*	0	57.6	102
ASHOW	CORRAL	69	53	*	*	12	60.0	108
DEKALB	DK-57	69	49		*	2	59.3	97
FONTELLE	5537	69	49	*	*	4	60.5	104
FONTELLE	5547	69	53		*	15	60.1	103
GOLDEN ACRES	T-E Y-45	69	51	*	*	11	58.8	88
MIGRO	TEK 148	69	57	*	*	11	60.6	104
HC+	160	69	52	*	*	4	60.8	102
PFIZER GENETICS	M550G	69	53	*	*	9	59.5	104
WAC	652G	69	52	*	*	8	60.3	117
ACCO-PAYMASTER	DK 1035	70	47	*	*	4	60.6	93
GOLDEN ACRES	T-E Y-101-H	70	47		*	1	59.1	107
GOLDEN ACRES	T-E Y-45-G	70	51		*	6	59.6	116
GSA	SG 400R	70	47	*	*	4	57.3	102
HORIZON	990	70	48	*	*	2	58.2	103
MIGRO	TEK 1028R	70	50		*	9	59.8	103
MIGRO	TEK 10554	70	51	*	*	13	59.9	109
PAG	5514	70	47	*	*	3	57.4	105
ACCO-PAYMASTER	GR 1028	71	45	*	*	1	57.8	93
ACCO-PAYMASTER	GR 1030	71	46	*	*	1	60.1	94
ACCO-PAYMASTER	GR 1069	71	49	*	*	0	57.7	98
CARGILL	60	71	46	*	*	5	58.3	99
DEKALB	DK-42Y	71	48	*	*	0	60.2	105
DEKALB	DK-58	71	51	*	*	4	59.7	98
NORTHROP KING	NK BRAND 2300	71	46	*	*	2	59.5	98
PRAIRIE VALLEY	PV 530 GR	71	51	*	*	6	60.4	107
-----	RS 471	72	50		*	11	59.5	103
ASHOW	TOPAZ	72	50			1	59.6	105
CONLEE	RAWHIDE	72	47	*		2	58.8	98
PAG	4474	72	49		*	1	57.1	107
PRAIRIE VALLEY	PV 677 GR	72	49	*	*	1	60.0	100
GOLDEN ACRES	T-E Y-101-G	73	48	*	*	3	59.3	103
GSA	GSA 1212	73	51	*	*	2	59.4	99
GSA	SG 390R	73	51	*	*	4	59.6	110
WAC	DT01G	73	53	*	*	7	58.3	120
GOLDEN ACRES	T-E DINERO-R	74	49	*	*	5	57.9	108
GSA	GSA 1310R	74	46	*	*	0	59.0	106
HORIZON	1010	74	45	*	*	1	58.7	99
HORIZON	104G	74	50	*	*	7	59.4	106
NORTHROP KING	NK BRAND 2778	74	52	*	*	2	58.9	99
WAC	692G	74	47	*	*	1	59.7	105
WARNER	W-8394	74	47		*	2	58.6	106
CARGILL	70	75	46	*	*	1	57.9	102
PAG	5550	75	49	*	*	9	59.0	106
ASHOW	MUSTANG	76	47	*	*	0	58.7	94
ORD	ORD G EXTRA	76	52	*	*	1	59.6	102
PFIZER GENETICS	M568G	76	47	*	*	1	58.9	94
GOLDEN ACRES	T-E EXP. 8037	77	44	*	*	0	59.5	89
AVERAGE ALL ENTRIES		70.6	49.2			5.5	59.3	101.4
DIF. REQ. FOR SIG. 5%		2.3	2.1			8.0	N.S.	13.4
25%		3.4	3.2			4.7	1.4	11.3

Days to bloom and height - Lincoln County only.

TABLE 26. ZONE 9. LINCOLN COUNTY, 1995.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LOOSE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
-----	NR 505	62	48	*	*	21	60.0	93
CARGILL	30	66	49	*	*	4	59.0	129
CONLEE	QUICKEE	66	46	*	*	2	59.0	116
DEKALB	DK-38	66	54	*	*	4	60.0	135
PAG	4433	66	50	*	*	3	59.7	133
NORTHROP KING	NR BRAND 2244	67	44	*	*	8	59.0	155
-----	MARTIN	68	50	*	*	7	60.5	98
-----	RS 676	68	49	*	*	19	61.0	134
CARGILL	50	68	48	*	*	4	60.5	140
CONLEE	FRIDAY	68	57	*	*	9	61.0	151
DEKALB	DK-62	68	43	*	*	5	59.7	158
FONTANELLE	4455	68	52	*	*	10	59.5	148
MC CURDY	554 YG	68	51	*	*	5	60.0	153
MC CURDY	89 YG	68	50	*	*	14	60.0	143
NORTHROP KING	NR BRAND 2030	68	43	*	*	2	60.5	132
PRAIRIE VALLEY	PV 535 GR	68	52	*	*	9	61.0	154
WAC	6510R	68	54	*	*	13	62.7	141
WARNER	W-655T	68	51	*	*	6	60.0	151
ACCO-PAYMASTER	GR 1019	69	49	*	*	0	60.7	140
ASSHOW	CORRAL	69	53	*	*	12	60.5	158
DEKALB	DK-57	69	49	*	*	2	59.3	139
FONTANELLE	5537	69	49	*	*	4	60.5	143
FONTANELLE	5547	69	53	*	*	15	60.5	146
GOLDEN ACRES	T-E Y-45	69	51	*	*	11	60.7	129
MIGRO	TEX 148	69	57	*	*	11	61.0	145
NE*	160	69	52	*	*	4	60.0	142
PFIZER GENETICS	M550G	69	53	*	*	8	59.5	150
WAC	6525	69	52	*	*	8	58.7	154
ACCO-PAYMASTER	GR 1035	70	47	*	*	4	59.7	127
GOLDEN ACRES	T-E Y-101-B	70	47	*	*	1	60.0	145
GOLDEN ACRES	T-E Y-45-G	70	53	*	*	4	60.5	162
GSA	SG 4008R	70	47	*	*	4	59.5	147
HORIZON	950	70	48	*	*	2	60.7	140
MIGRO	TEX 1021R	70	50	*	*	9	59.5	146
MIGRO	TEX 1055R	70	51	*	*	13	60.0	146
PAG	5514	70	47	*	*	3	60.0	146
ACCO-PAYMASTER	GR 1028	71	45	*	*	1	60.5	130
ACCO-PAYMASTER	GR 1030	71	46	*	*	1	61.7	133
ACCO-PAYMASTER	GR 1069	71	49	*	*	0	60.7	145
CARGILL	60	71	46	*	*	5	59.9	149
DEKALB	B-10Y*	71	43	*	*	1	59.5	131
DEKALB	DK-62Y	71	48	*	*	0	61.0	144
DEKALB	DK-58	71	51	*	*	4	60.7	150
NORTHROP KING	NR BRAND 2300	71	46	*	*	2	60.0	135
PRAIRIE VALLEY	PV 530 GR	71	51	*	*	6	59.7	158
-----	RS 671	72	50	*	*	11	59.5	138
ASSHOW	TOPAZ	72	50	*	*	1	60.0	147
CONLEE	RAWHIDE	72	47	*	*	2	59.0	137
PAG	4474	72	49	*	*	1	59.5	156
PRAIRIE VALLEY	PV 677 GR	72	49	*	*	1	60.7	131
GOLDEN ACRES	T-E Y-101-G	73	48	*	*	3	60.0	148
GSA	GSA 1212	73	51	*	*	2	60.7	134
GSA	SG 390MR	73	51	*	*	4	60.0	145
WAC	OTOLIS	73	53	*	*	7	59.0	167
GOLDEN ACRES	T-E BENERO-B	74	49	*	*	5	59.5	145
GSA	GSA 1310A	74	46	*	*	0	59.0	146
HORIZON	1010	74	45	*	*	1	60.7	128
HORIZON	1040	74	50	*	*	7	60.0	146
NORTHROP KING	NR BRAND 277R	74	52	*	*	2	60.0	141
WAC	692G	74	47	*	*	1	60.5	147
WARNER	W-839A	74	47	*	*	2	60.7	151
CARGILL	70	75	46	*	*	1	60.7	154
PAG	5550	75	47	*	*	9	60.7	139
ASSHOW	MUSTANG	76	47	*	*	0	60.7	134
ORO	ORO G XTRA	76	52	*	*	1	60.0	140
PFIZER GENETICS	M560G	76	47	*	*	1	59.0	122
GOLDEN ACRES	T-E EXP. 8037	77	44	*	*	0	60.5	117
AVERAGE ALL ENTRIES		70.5	49.1			6.5	60.0	141.5
DIF. REQ. FOR SIG. 5%		2.3	2.1			8.0	----	21.3
25%		1.4	1.2			4.7		12.5

TABLE 2d. ZONE B. 1980-1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
TWO-YEAR AVERAGE								
CONLEE	NB 505	65	44	*	*	21	55.4	69
CARGILL	QUICKEE	67	42	*	*	2	55.8	74
PAG	30	68	45	*	*	4	57.1	86
	4433	68	45	*	*	3	56.0	87
	RS 626	69	45	*	*	19	55.9	86
NORTHROP KING	NK BRAND 2030	69	40	*	*	2	57.0	87
PRAIRIE VALLEY	PV 535 GR	69	47	*	*	9	58.1	101
WARNER	W-655T	69	47	*	*	6	57.6	98
ACCO-PAYMASTER	DR 1035	70	43	*	*	4	57.8	85
ASGROW	CORRAL	70	48	*	*	12	57.8	101
CARGILL	50	70	44	*	*	6	57.1	87
FONTANELLE	5547	70	48	*	*	15	58.7	96
GOLDEN ACRES	T-E Y-45	70	48	*	*	11	56.2	85
MC CURDY	89 YG	70	46	*	*	14	57.6	91
MIGRO	TEK 1055R	70	47	*	*	13	59.4	104
NC+	160	70	48	*	*	4	59.4	95
NAC	652G	70	48	*	*	8	57.6	101
PFIZER GENETICS	M550G	71	48	*	*	9	57.5	102
	MARTIN	72	44	*	*	7	57.8	62
ACCO-PAYMASTER	GR 1028	72	41	*	*	1	55.6	87
DEKALB	DK-57	72	45	*	*	2	57.3	100
FONTANELLE	5537	72	45	*	*	4	58.6	97
MIGRO	TEK 14R	72	51	*	*	11	59.5	98
PRAIRIE VALLEY	PV 530 GR	72	46	*	*	6	59.0	91
ACCO-PAYMASTER	GR 1089	73	44	*	*	0	55.7	94
CARGILL	60	73	42	*	*	5	57.5	93
DEKALB	DK-42Y	73	44	*	*	0	58.6	104
DEKALB	DK-58	73	46	*	*	4	57.6	96
GOLDEN ACRES	T-E Y-101-R	73	43	*	*	1	57.4	96
PAG	5514	73	43	*	*	3	56.0	99
CONLEE	RAWHIDE	74	43	*	*	2	56.9	98
GSA	SG 40GBR	74	43	*	*	4	56.2	91
HORIZON	95G	74	43	*	*	2	56.6	98
	RS 671	75	44	*	*	11	56.3	97
ASGROW	TOPAZ	75	44	*	*	1	57.8	101
PAG	4474	75	44	*	*	1	56.4	101
GOLDEN ACRES	T-E DINERO-R	76	45	*	*	5	56.3	102
GSA	GSA 1212	76	46	*	*	2	56.7	104
GSA	GSA 1310A	76	42	*	*	0	56.9	103
GSA	SG 390MR	76	45	*	*	4	57.1	101
HORIZON	101G	76	41	*	*	1	56.4	92
NAC	D701G	76	48	*	*	7	55.8	108
NAC	692G	76	43	*	*	1	57.8	103
ASGROW	MUSTANG	77	42	*	*	0	57.4	91
CARGILL	70	77	43	*	*	1	56.3	93
PFIZER GENETICS	M568G	77	43	*	*	1	56.9	94
AVERAGE ALL ENTRIES		72.3	44.7			5.4	57.2	94.1
DIF. REQ. FOR SIG. 5%		2.8	2.0			8.0	2.1	12.7
25%		1.6	1.1			4.7	1.2	7.3

No Lodging - 1980.

TABLE 2a. ZONE B. 1977-1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LOOSE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
THREE-YEAR AVERAGE								
-----	NR 505	67	45	*		49	55.4	68
PAG	4431	70	46	*	*	30	55.9	77
-----	RS 826	71	45	*	*	41	56.3	78
CARGILL	30	71	45	*	*	41	57.8	86
NORTHROP KING	NK BRAND 2030	71	41	*	*	20	57.3	83
PRAIRIE VALLEY	PV 535 GR	71	47	*	*	51	57.7	91
ACCO-PAYMASTER	DR 1035	72	43	*	*	45	58.1	73
ASGROW	CORNAL	72	47	*	*	53	57.8	91
PONTANELLE	5547	72	48	*	*	36	58.8	89
GOLDEN ACRES	T-E Y-45	72	47	*	*	38	55.2	76
MC CURDY	89 YG	72	46	*	*	34	56.4	79
HIGRO	TEK 1055R	72	47	*	*	57	58.6	90
PFIZER GENETICS	M550G	72	48	*	*	53	57.7	91
WARNER	W-655T	72	46	*	*	41	57.6	87
-----	MARTIN	73	45			32	57.9	61
ACCO-PAYMASTER	GR 1028	73	43		*	33	55.8	78
DEKALB	DK-57	73	46	*	*	36	57.9	98
HIGRO	TEK 14R	73	50	*	*	49	58.7	87
PRAIRIE VALLEY	PV 530 GR	73	46	*	*	32	58.3	84
ACCO-PAYMASTER	GR 1089	74	45	*	*	26	55.2	86
CARGILL	60	74	43	*	*	37	56.4	85
GOLDEN ACRES	T-E Y-101-R	74	45	*	*	23	57.5	84
QSA	SG 40GR	75	43	*	*	25	56.0	82
HORIZON	95G	75	44	*	*	27	56.4	87
PAG	5514	75	42	*	*	33	55.7	87
-----	RS 871	76	46	*	*	43	55.9	88
ASGROW	TOPAZ	76	45	*	*	34	58.5	91
PAG	4474	76	43	*	*	14	56.6	93
HORIZON	101G	77	42	*	*	28	57.0	83
ASGROW	MUSTANG	78	43	*	*	23	57.6	80
CARGILL	70	78	44		*	27	56.9	88
AVERAGE ALL ENTRIES		73.2	46.0			35.8	57.1	83.9
DIF. REQ. FOR SIG.	5%	2.3	2.3			8.5	2.0	11.4
	25%	1.3	1.3			13.3	1.2	6.6
FOUR-YEAR AVERAGE								
-----	NR 505	67	43	*	*	49	56.1	63
PRAIRIE VALLEY	PV 535 GR	71	45	*	*	50	57.7	84
-----	RS 826	72	42	*	*	38	56.3	72
ACCO-PAYMASTER	DR 1035	72	43	*	*	37	55.3	69
GOLDEN ACRES	T-E Y-45	72	45			33	55.5	71
MC CURDY	89 YG	72	43			32	56.5	72
PFIZER GENETICS	M550G	72	45		*	45	57.7	83
ACCO-PAYMASTER	GR 1028	73	43	*	*	32	55.7	72
HIGRO	TEK 14R	73	47	*	*	46	58.5	79
PRAIRIE VALLEY	PV 530 GR	73	43	*	*	31	58.1	76
-----	MARTIN	74	43	*		25	54.0	59
ACCO-PAYMASTER	GR 1089	75	43			27	54.9	80
HORIZON	95G	75	41			25	56.4	80
PAG	5514	75	40			28	55.8	82
GOLDEN ACRES	T-E Y-101-R	76	41			19	57.1	75
QSA	SG 40GR	76	40	*	*	24	56.1	73
PAG	4474	76	41	*	*	15	56.5	84
-----	RS 871	77	43	*	*	34	55.9	88
ASGROW	TOPAZ	77	42	*	*	24	58.5	79
HORIZON	101G	77	40	*	*	27	57.2	77
ASGROW	MUSTANG	78	41	*	*	20	57.7	74
AVERAGE ALL ENTRIES		74.0	42.4			31.6	56.9	75.4
DIF. REQ. FOR SIG.	5%	2.1	2.0			16.2	1.5	9.5
	25%	1.2	1.2			9.4	0.9	5.5
FIVE-YEAR AVERAGE								
-----	NR 505	65	43			39	55.9	66
MC CURDY	89 YG	70	44		*	27	56.9	78
-----	RS 826	71	42		*	31	56.9	74
ACCO-PAYMASTER	DR 1035	71	41	*	*	29	58.7	74
ACCO-PAYMASTER	GR 1028	72	41	*	*	24	56.2	79
-----	MARTIN	73	43			20	58.4	41
GOLDEN ACRES	T-E Y-101-R	75	42			17	57.7	82
QSA	SG 40GR	75	41			19	56.5	82
PAG	5514	75	41			22	56.1	86
-----	RS 871	76	43			27	56.1	82
AVERAGE ALL ENTRIES		72.3	42.1			25.5	57.0	76.3
DIF. REQ. FOR SIG.	5%	2.0	1.7			12.2	1.4	10.9
	25%	1.2	1.0			6.9	0.8	6.3

No lodging = 1000.

TABLE 3a. ZONE C. CHEYENNE COUNTY. 1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
-----	RS 455	90	48	•	17	•	55.9	59
ACCO-PAYMASTER	R 920	94	44	•	19	•	54.5	79
NORTHROP KING	NK BRAND 1210	94	39	•	19	•	55.2	88
-----	N EXP. 79-3674	96	39	•	23	•	55.0	56
-----	NB 505	96	42	•	17	•	56.7	74
DEKALB	A-28*	96	40	•	20	•	53.7	86
NORTHROP KING	NK BRAND 2018	97	41	•	20	•	53.2	88
-----	N EXP. 79-3673	98	45	•	22	•	53.9	60
DEKALB	B-38*	98	42	•	24	•	52.5	93
DEKALB	DK-38	98	45	•	24	•	52.1	93
NORTHROP KING	NK 121A	98	39	•	20	•	52.8	90
PFIZER GENETICS	EXP 8051	98	36	•	22	•	52.2	94
PRAIRIE VALLEY	PV 515 GR	99	38	•	25	•	51.8	81
WARNER	W-564T	101	43	•	24	•	52.4	94
CARGILL	30	102	44	•	25	•	51.4	89
ACCO-PAYMASTER	R 980	104	40	•	22	•	52.1	77
MC CURDY	M 45	105	44	•	28	•	52.3	92
MC CURDY	89 YG	105	43	•	26	•	46.8	100
MIGRO	TEK 1011R	105	40	•	27	•	52.0	90
FONTANELLE	4455	106	44	•	29	•	48.3	103
GOLDEN ACRES	T-E Y-44-R	106	40	•	29	•	49.9	89
GOLDEN ACRES	T-E Y-45-G	107	43	•	30	•	49.1	90
PAG	4433	107	41	•	24	•	50.4	88
WARNER	W-655T	107	42	•	30	•	49.0	103
GOLD TAG	475	109	45	•	30	•	49.5	95
GOLDEN ACRES	T-E Y-45	109	43	•	31	•	46.4	91
KING'S WESTERN	WS-212	109	44	•	28	•	49.5	88
MIGRO	TEK 1021R	109	41	•	32	•	50.2	92
MIGRO	TEK 14R	109	47	•	30	•	49.9	103
CARGILL	50	110	44	•	28	•	48.5	87
GOLD TAG	335	110	44	•	29	•	46.7	87
CARGILL	60	117	40	•	31	•	43.5	71
HORIZON	101G	127	41	•	35	•	44.5	33
PAG	5550	127	42	•	37	•	43.4	39
AVERAGE ALL ENTRIES		104.2	42.1		25.8		50.7	83.6
DIF. REQ. FOR SIG. 5%		2.5	2.1		5.2		1.5	
25%		1.5	1.2		3.1		0.9	

Early moisture is moisture at harvest on October 26.

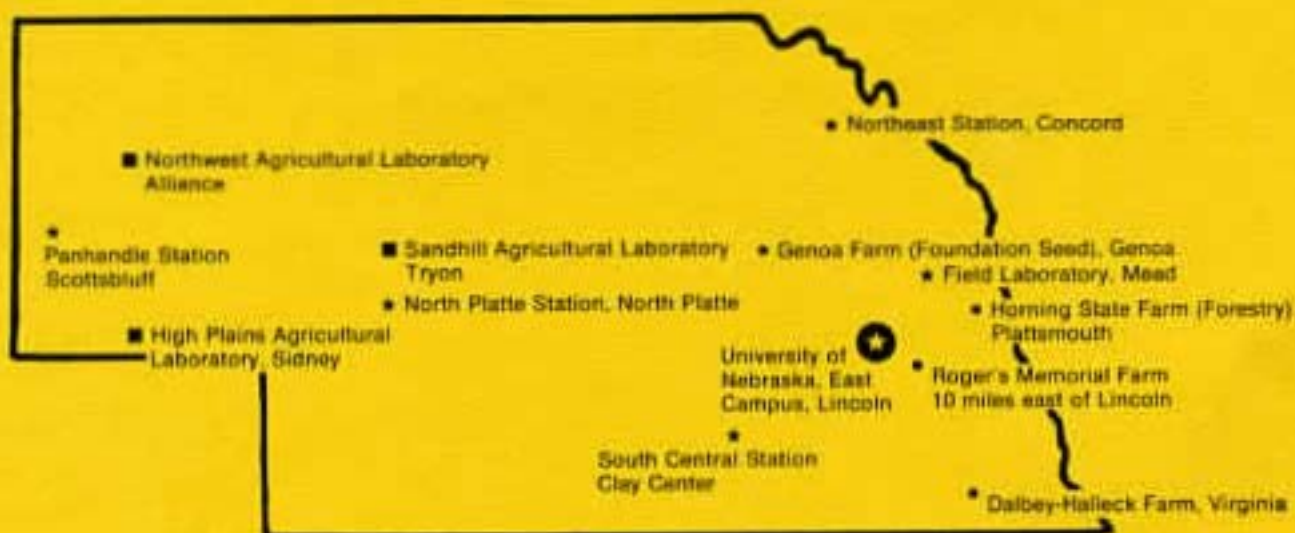
TABLE 3b. ZONE C. 1977-1981.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LOOSE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
TWO-YEAR AVERAGE								
-----	RS 455	77	46	*	14	8	56.0	44
ACCO-PAYMASTER	R 920	80	41	*	15	10	56.9	53
NORTHROP KING	NK BRAND 1210	81	37	*	15	6	56.2	64
-----	NB 505	82	40	*	14	18	56.6	51
NORTHROP KING	NK 121A	83	36	*	15	8	56.2	63
DEKALB	A-28+	84	38		15	2	55.7	64
DEKALB	B-38+	87	38	*	18	0	56.7	62
PRAIRIE VALLEY	PV 515 GR	87	35	*	18	0	55.0	60
ACCO-PAYMASTER	R 980	89	36	*	17	0	55.6	59
CARGILL	30	89	40	*	20	0	56.4	64
WARNER	W-564T	89	39	*	19	0	55.1	61
GOLDEN ACRES	T-E Y-44-R	90	37	*	21	0	53.7	67
MIGRO	TEK 1011R	90	37	*	19	2	55.1	63
MC CURDY	89 YG	91	39	*	19	0	52.1	72
PAG	4433	91	37	*	18	0	56.2	65
GOLDEN ACRES	T-E Y-45	93	39	*	22	0	50.4	59
MIGRO	TEK 14R	94	42	*	23	0	54.0	70
AVERAGE ALL ENTRIES		86.9	38.6		17.8	4.4	54.6	61.2
DIF. REQ. FOR SIG.	5%	4.5	2.9		5.2	9.5	4.8	N.S.
	25%	2.5	1.6		2.9	5.8	2.7	8.5
THREE-YEAR AVERAGE								
-----	RS 455	75	44	*	14	8	56.1	43
ACCO-PAYMASTER	R 920	79	39	*	15	10	55.6	57
-----	NB 505	82	39	*	14	18	57.0	51
NORTHROP KING	NK 121A	82	35	*	15	8	54.5	62
DEKALB	A-28+	83	37	*	15	2	55.6	64
DEKALB	B-38+	86	37	*	18	0	54.1	59
ACCO-PAYMASTER	R 980	90	35	*	17	0	53.8	52
CARGILL	30	90	38	*	20	0	53.1	55
PAG	4433	90	37	*	18	0	52.9	55
MIGRO	TEK 1011R	91	36	*	19	2	54.2	56
GOLDEN ACRES	T-E Y-44-R	92	37	*	21	0	50.1	57
GOLDEN ACRES	T-E Y-45	93	38	*	22	0	48.2	53
MIGRO	TEK 14R	94	40	*	23	0	51.4	57
AVERAGE ALL ENTRIES		86.7	37.8		17.8	5.2	53.6	55.5
DIF. REQ. FOR SIG.	5%	4.0	2.5				4.5	N.S.
	25%	2.2	1.4				2.6	N.S.
FOUR-YEAR AVERAGE								
-----	RS 455	77	44		15	6	55.4	44
ACCO-PAYMASTER	R 920	80	40	*	17	10	54.6	52
-----	NB 505	83	39	*	15	11	56.6	49
DEKALB	A-28+	83	37	*	17	4	56.1	59
NORTHROP KING	NK 121A	83	35	*	18	4	52.9	58
DEKALB	B-38+	86	38		19	0	52.9	55
ACCO-PAYMASTER	R 980	89	36	*	19	0	52.7	49
GOLDEN ACRES	T-E Y-44-R	93	37	*	24	0	47.6	54
GOLDEN ACRES	T-E Y-45	94	39	*	26	0	45.6	49
MIGRO	TEK 14R	95	40	*	26	0	50.0	53
AVERAGE ALL ENTRIES		86.3	38.5		19.6	4.5	52.3	52.2
DIF. REQ. FOR SIG.	5%	3.3	2.1		4.4	12.1	4.2	N.S.
	25%	1.9	1.2		2.5	6.6	2.4	N.S.
FIVE-YEAR AVERAGE								
-----	RS 455	76	43		15	6	55.6	44
ACCO-PAYMASTER	R 920	77	39	*	17	10	54.9	49
-----	NB 505	80	39	*	15	18	56.8	46
DEKALB	A-28+	80	37	*	17	11	54.8	54
DEKALB	B-38+	84	36	*	19	3	53.7	53
ACCO-PAYMASTER	R 980	87	35	*	19	2	53.6	49
GOLDEN ACRES	T-E Y-45	92	39	*	26	1	47.1	49
AVERAGE ALL ENTRIES		82.0	38.3		18.3	9.4	53.8	49.1
DIF. REQ. FOR SIG.	5%	2.3	2.1			12.0	3.1	N.S.
	25%	1.3	1.2			6.7	1.8	N.S.

No lodging - 1979, 1981

No early grain moisture 1977, 1979

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 Ex-

tension 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.

The Cooperative Extension Service provides information and educational programs to all people without regard to race, color or national origin.