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NEBRASKA GRAIN SORGHUM HYBRID TESTS 1985

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EXTENSION CIRCULAR 85-106

NEBRASKA GRAIN SORGHUM HYBRID TESTS

January 1986

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ACKNOWLEDGMENTS

This circular is a progress report of grain sorghum trials conducted to obtain yield and other information for some of the hybrids being marketed. The 1985 season was the 28th that private hybrids were included in extensive trials. Seed producers supported tests through payment of fees.

Cooperating were the Agronomy Department and the South Central, West Central and Panhandle Research and Extension Centers. Acknowledgment is made to Extension Agents and others who assisted in these tests. Special acknowledgment is made to farmers who furnished land for trials. Conduct of experiments and publication of results is a joint effort of the Agricultural Research Division and the Cooperative Extension Service.

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NEBRASKA GRAIN SORGHUM HYBRID TESTS

1985

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

	1978	1979	1980	1981	1982	1983	1984	1985
Yield bu/A	75.0	79.0	60.0	80.0	73.0	61.0	64.0	80.0
Acres (000)	1,830	1,830	2,030	2,060	1,760	1,000	1,900	1,900

The 80-bushel average yield equals the high record yield set in 1981.

Spring moisture generally was adequate. Sorghum planting proceeded at a rate ahead of the five-year average. On June 2, 90% of the crop was planted. Normal for this date is 50%. The summer was cooler than usual with a lack of excessively high temperatures. Heading, turning and ripening proceeded at near normal rates. Heavy frost on September 22-23-24 stopped growth in all areas except eastern Nebraska. On October 1, low temperatures killed plants in the remainder of the state. Rains in late September and October delayed harvest. Weather was favorable in early November and harvest was essentially complete by the middle of the month.

This circular is a progress report of grain sorghum trials conducted by the Agricultural Research Division of the Institute of Agriculture and Natural Resources. Testing zones and locations of the tests are shown on the map (Page 3) and names of cooperators are shown in Table A.

Names and addresses of entrants are shown in Table B. A list of entries and zone where tested are shown in Table C. Selection of hybrids for each zone was made by the entrant. The variety Martin and hybrid RS 626 were entered by the Agricultural Research Division.

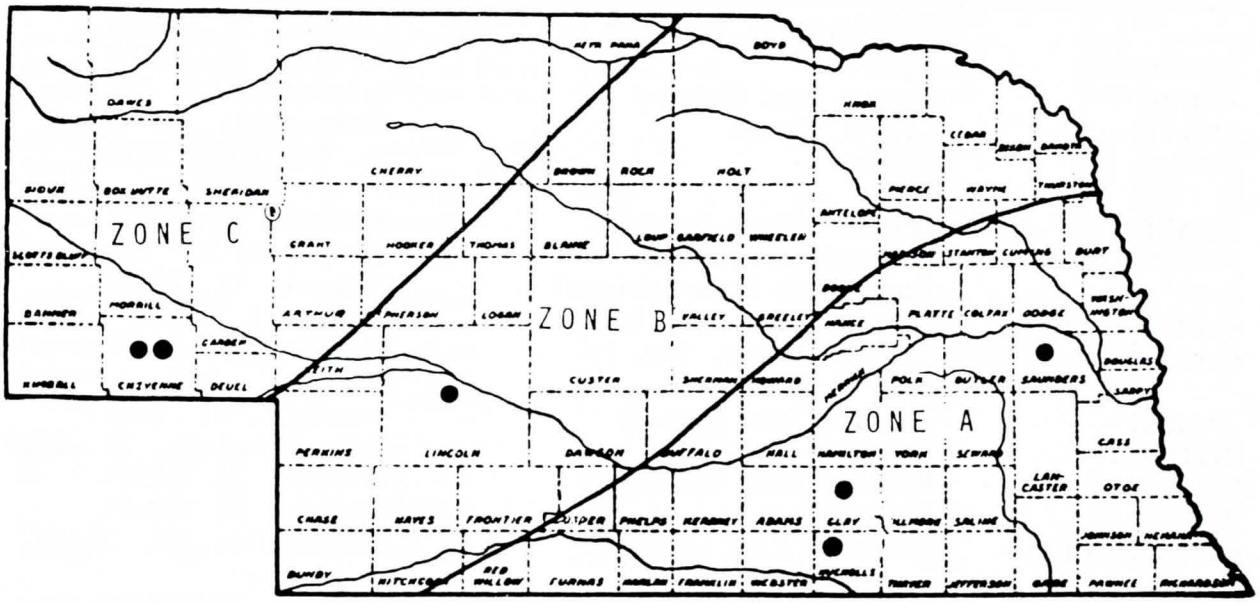
PROCEDURE

Seed for testing was furnished by the entrant. In each trial, entries were seeded at equivalent seeding rates on a live-seed basis. Seeding rates varied with location as shown in Table D. Seeding was accomplished with cone or belt units mounted on commonly used row planters. Two-row plots, 20 to 30 feet long were used.

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 were taken at harvest. In previous years, readings sometimes were taken after harvest. Reported yields are based on 56 pounds per bushel and 14 percent grain moisture.

Entries in 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 adaptation to a given location, etc. In making yield evaluations, hybrids should be compared with those having similar maturities.



SORGHUM MATURITY ZONES AND LOCATIONS
OF NEBRASKA PERFORMANCE TESTS 1985

Table A. Location and cooperators. Nebraska Grain Sorghum Hybrid Tests. 1985.

Location	Cooperator
Zone A	
Saunders	Jerry Newsham, Ashland
Nuckolls	Gene Pohlmeier, Lawrence
Clay (irrigated)	Research and Extension Center
Zone B	
Lincoln	West Central Research and Extension Center
Zone C	
Cheyenne (Black fallow)	High Plains Agricultural Laboratory
Cheyenne (Ecofallow)	High Plains Agricultural Laboratory

Table B. Entrants. Nebraska Grain Sorghum Performance Tests. 1985

Brand	Entrant	Address
-----	Agricultural Research Div., UNL	Lincoln, NE 68583
AgriPro	AgriPro	Mission, KS 66201
Asgrow	Asgrow Seed Company	Kalamazoo, MI 49001
Cargill	Cargill Seeds	Minneapolis, MN 55440
Cenex	Cenex	St. Paul, MN 55164
DeKalb	DeKalb-Pfizer Genetics	Glenvil, NE 68941
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044
Funk's	Funk Seeds International	Lubbock, TX 79404
Golden Acres	Taylor-Evans Seed Co.	Tulia, TX 79088
Horizon	Horizon Seeds, Inc.	Lincoln, NE 68501
Jacques	Jacques Seed Company	Prescott, WI 54021
McCubbin	McCubbin Seed Farm	Green Mountain, IA 50637
McCurdy	McCurdy Seed Company	Fremont, IA 52561
NC+	NC+ Hybrids	Lincoln, NE 68504
Northrup King	Northrup King Company	Minneapolis, MN 55440
Oro	R.C. Young Seed & Grain Co.	Lubbock, TX 79404
PAG	PAG Seeds	Minneapolis, MN 55440
Payco	Payco Seeds	Dassel, MN 55325
Paymaster	Paymaster Seeds	Minneapolis, MN 55440
SeedTec	SeedTec International	Hereford, TX 79045
Stauffer Seeds	Stauffer Seeds, Inc.	Phillips, NE 68865
Terra Seed	Terra Seed Company	Lubbock, TX 79404
Triumph	Triumph Seed Company	Ralls, TX 79357
Warner	George Warner Seed Co.	Hereford, TX 79045
Wilson	Wilson Hybrids, Inc.	Harlan, IA 51537

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 percent and 25 percent levels of significance. At the 5 percent level a difference of that magnitude would be expected once in twenty trials through chance alone. At the 25 percent 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 1985 test location is shown in Table D. The Saunders and Lincoln County trials were hand harvested. Others were machine harvested. The maturity yield correlation (r value) is an indication of the relationship between maturity (as measured by days to bloom) and grain yield. In three Zone A trials, earlier maturity was correlated with higher yield in one trial, with lower yield in one trial and there was no relationship in the other. In Zones B and C, later bloom was correlated with lower grain yields.

Table C. Grain sorghum entries and zone where tested. 1985.

Brand	Hybrid	Zone	Brand	Hybrid	Zone	Brand	Hybrid	Zone
-----	Martin	AB	Funk's	HW6845	B	Payco	DS 95	AB
-----	RS 626	AB	Golden Acres	T-E Dinero	A	Paymaster	DR 1125	A
AgriPro	AP940G	AB	Golden Acres	T-E Tuff	B	Paymaster	1022	BC
AgriPro	AP965G	AB	Golden Acres	T-E Y-101-G	A	Paymaster	1091	A
AgriPro	TEK 1055R	AB	Golden Acres	T-E Y-45-G	B	Paymaster	1099	A
AgriPro	TEK 1094R	AB	Golden Acres	T-E Y-75	A	Paymaster	930	BC
Asgrow	Chaparral	A	Golden Acres	T-E Y-77	A	Seedtec	WAC 652G	B
Asgrow	Corral	B	Horizon	101G	A	Seedtec	WAC 686	AB
Asgrow	Dorado E	B	Horizon	114G	A	Seedtec	WAC 701G	A
Asgrow	GS 712	A	Horizon	45G	B	Seedtec	WAC 710DR	A
Asgrow	H8206	A	Jacques	308	B	Stauffer Seeds	S9750	AB
Asgrow	Mesa	AB	Jacques	397-W	A	Stauffer Seeds	535GR	AB
Asgrow	Mustang	A	Jacques	505	A	Terra Seed	HT125G	A
Asgrow	Opal	A	Jacques	606	A	Terra Seed	HT45G	A
Asgrow	Sierra	A	McCubbin	67 DR	A	Triumph	TR 50YG	C
Asgrow	Topaz	AB	McCurdy	M410	C	Triumph	TR 74CR	AB
Cargill	22	C	McCurdy	M450	B	Triumph	TWO 48YG	C
Cargill	30	BC	McCurdy	M51 YG	AB	Triumph	TWO 54YG	B
Cargill	40	ABC	McCurdy	M687	A	Triumph	TWO 64YG	A
Cargill	55	B	McCurdy	M737	A	Triumph	TWO 70-D	AB
Cargill	575	AB	McCurdy	M747	A	Triumph	TWO 80-D	A
Cargill	60	BC	McCurdy	84-74	A	Warner	W-501-T	BC
Cargill	70	AB	NC+	160	AB	Warner	W-545-T	C
Cargill	80	A	NC+	163	AB	Warner	W-558-T	C
Cenex	405T	A	NC+	165	AB	Warner	W-564-T	B
DeKalb	DK-18	C	NC+	172	A	Warner	W-839-A	A
DeKalb	DK-38	B	NC+	174	A	Warner	W-839-DR	A
DeKalb	DK-39Y	B	NC+	271	A	Warner	W-851-DR	A
DeKalb	DK-41Y	AB	Northrup King	1210	C	Warner	W-864-T	AB
DeKalb	DK-59E	A	Northrup King	2244	A	Warner	W-876-DR	A
DeKalb	X-4456	A	Northrup King	2656	A	Wilson	617G	B
DeKalb	X-550	A	Northrup King	2665	A	Wilson	619GX	A
Fontanelle	2233	C	Oro	Early Oro Xtra	B	Wilson	621G	A
Fontanelle	4455	B	Oro	Oro G Xtra	A	Wilson	623T	A
Fontanelle	5546	A	Oro	Oro Pronto	AB			
Fontanelle	5583	A	PAG	2285	C			
Fontanelle	6652	A	PAG	3339	BC			
Funk's	G-1460	C	PAG	3385	AB			
Funk's	G-1550	AB	PAG	4433	C			
Funk's	G-1711	A	PAG	4462	AB			
Funk's	G-421	BC	PAG	5572	AB			
Funk's	G-522DR	A	PAG	5665	A			
Funk's	G-550	ABC	PAG	6670	A			
Funk's	HW5883	C	Payco	DS 65	BC			
Funk's	HW6119	A	Payco	DS 75	AB			

The average performance of hybrids included in trials over a five-year period is shown in Table E. These data indicate the effect of seasonal growing conditions on the characters measured. In all zones, the number of days from planting to bloom was greater in 1985 than any of the previous four. Lodging data are shown only where differential stalk breakage among hybrids was observed.

Zone A

Eighty-five entries were grown at three locations in Zone A. Average data from three locations are shown in Table 1A and individual location results are shown in Table 1B, 1C and 1D. Period of years data are shown in Tables 1E, 1F and 1G.

The Saunders County trial was planted after soybeans on a Sharpsburg silty clay loam with a gentle slope. Soil fertility was high and the crop made excellent progress. This area was hailed on August 24 but crop damage was extimated at less than 10%. Later maturity was correlated with higher grain yield. Moisture samples were taken at the time of killing frost on October 1. This is about two weeks earlier than normal first frost for this area. The Nuckolls County trial was on a fairly level Hall silt loam. The crop was planted no-till following soybeans. Stands were excellent, growing conditions were favorable and yields were high. There was no correlation between maturity and yield. Planting was delayed in Clay County. The soil type was Hastings silt loam. Cool wet weather slowed summer growth and delayed flowering. Early frost resulted in reduced yields and low bushel weights. Later flowering was correlated with lower grain yields.

In the average of these experiments, there was no relationship between maturity and grain yield. In 14 of the last 17 years, later maturity was correlated with higher grain yield in Zone A trials. In 1971 and 1985 there was no relationship. Only in 1976, a very drouthy year with a cooler than normal temperature in August and September, was later days to bloom correlated with lower grain production.

Zone B

Data from Lincoln County are shown in Table 2A. Period-of-years data are included in Tables 2B and 2C.

Fifty-five entries were planted into a 1984 crop of wheat stubble. The stubble had been kept weed-free by use of chemicals. Early conditions were favorable. June was hot and dry. This area received 4.2 inches of rain from planting to September 3. Later moisture was adequate but low temperatures slowed crop development. Many hybrids were not mature when frosted on September 22-23. There was a relatively high but negative correlation between days to bloom and acre grain yield.

In 17 years of trials in southwest Nebraska, later maturity was correlated with higher grain yield in 7 seasons, earlier maturity was correlated with lower grain yields in 5 seasons and there was little relationship in 5 seasons. This is an area of high year-to-year variation in climatic conditions. Yields at North Platte under ecofallow have been high.

Zone C

Thirty-three entries were planted in Cheyenne County. Data for 1985 and period-of-years averages are shown in Tables 3A, 3B, 3C and 3D, respectively.

Trials were planted under black fallow (1983 wheat, 1984 fallow) and ecofallow (1984 wheat) cropping sequences. Subsoil moisture was lacking at planting. Hot weather in late June and early July put severe drouth stress on the crop. Warm weather in August was favorable. A temperature of 26 degrees on September 23 stopped growth. Under these conditions, yields after a wheat crop were much lower than after fallow. Later maturity was accompanied by lower yield in both trials.

In tests since 1977, earlier maturity was correlated with higher grain yield in 1978, 1979, 1983 and 1984, and 1985. There was no close relationship in 1977, 1980 and 1981. No data were obtained in 1982.

METRIC EQUIVALENTS

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

Kilogram/hectoliter (kg/hl) = lb/bu x 1.287
Kilogram/hectare (kg/ha) = bu/A x 62.78 (56# bushel)

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Table D. Grain sorghum. Average performance at each test location. 1985.

Location	Planted	Seed spacing inches 1/	Planting to bloom days	Plant height inches	Head exertion inches	Test weight lb/bu	Grain yeild bu/A	Maturity yield correlation r 2/
Zone A (85 entries)								
Saunders	May 31	3.0	69.3	49.7	4.2	57.1	118.0	.34**
Nuckolls	May 22	3.6	----	46.3	4.6	55.6	127.2	.10
Clay (irrigated)	June 3	2.2	80.6	49.7	5.2	51.6	86.7	-.29**
Average 3 tests	-----	---	75.2	48.6	4.7	54.8	110.6	.02
Zone B (55 entries)								
Lincoln	May 29	4.0	81.5	----	---	52.5	68.1	-.69**
Zone C (23 entries) 3/								
Cheyenne Black fallow	May 19	4.8	92.0	37.8	---	43.4	39.5	-.51**
Cheyenne Ecofallow	May 19	4.8	92.9	29.5	---	51.2	11.8	-.89**
Average 2 tests	-----	---	----	33.7	---	----	25.7	-.74**

1/ Live seed basis. All row spacings 30 inches.

2/ Correlation of average days to bloom for zone with acre grain yield. Higher r values indicate closer agreement. * significant (5% level). ** highly significant (1% level). Negative values indicate that later flowering was accompanied by lower yield.

3/ Planting to bloom and test weight not comparable because not all entries flowered under ecofallow.

Table E. Average performance by years. Entries common over years by zones. Five years.

Zone and year	Planting bloom days	Plant height inches	Head exsertion inches	Early-grain moisture %	Stalk lodging %	Test weight lb/bu	Grain yield bu/A
Zone A (18 entries)							
1981	68.1	46.7	3.9	30.8	8.6	58.1	122.6
1982	70.5	46.3	4.5	29.0	----	51.6	102.1
1983	72.9	43.8	3.8	----	0.4	56.1	111.7
1984	73.0	46.4	4.6	26.7	57.2	56.5	130.0
1985	75.9	48.1	4.9	32.7	17.6	54.5	106.0
Five-year average	72.1	46.2	4.3	29.9	20.9	55.3	114.4
Zone B (7 entries)1/							
1980	74.4	40.1	---	----	----	55.3	82.3
1981	69.9	49.0	---	----	7.0	59.1	95.7
1983	74.3	41.6	---	----	0.7	57.5	100.6
1984	77.1	----	---	----	7.1	56.8	55.1
1985	81.9	----	---	----	3.1	52.6	60.1
Five-year average	75.6	43.7	---	----	4.7	56.3	78.7
Zone C (2 entries)1/							
1980	72.0	35.0	---	12.5	3.0	57.4	39.5
1981	98.0	41.5	---	22.0	----	53.3	88.5
1983	73.5	40.0	---	----	6.0	52.7	70.0
1984	79.0	39.0	---	18.5	----	51.8	49.0
1985	86.0	34.5	---	----	28.0	46.3	28.5
Five-year average	81.5	38.0	---	12.0	12.0	52.3	55.5

1/ No 1982 data.

TABLE 1A. ZONE A. SUMMARY. SAUNDERS, NUCKOLLS AND CLAY (IRR.) COUNTIES. 1985.

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
		AVERAGE THREE LOCATIONS						
PAYCO	DS 75	65	43	7	25	0	56.3	94
ORO	ORO PRONTO	66	49	7	26	18	55.7	108
-----	RS 626	68	45	4	27	31	54.5	94
DEKALB	X-550	68	49	3	29	9	56.5	119
AGRIPRO	TEK 1055R	69	50	6	27	18	56.6	111
AGRIPRO	AP940G	70	49	6	32	20	55.8	108
NC+	160	70	50	6	29	45	56.0	120
NC+	163	70	46	5	30	5	54.9	104
TERRA SEED	HT45G	70	51	7	30	29	55.9	117
ASGROW	MESA	71	44	5	28	0	57.4	112
FUNK'S	G-1550	71	46	3	25	33	56.6	111
MC CURDY	M687	71	40	5	30	1	53.3	106
NORTHRUP KING	2244	71	45	6	28	20	55.3	106
PAG	3385	71	47	5	32	7	56.8	112
STAUFFER SEEDS	535GR	71	51	7	27	35	56.1	111
FUNK'S	G-550	72	48	4	35	15	57.1	117
NC+	165	72	47	7	29	3	55.3	115
PAG	4462	72	49	4	30	7	56.1	117
-----	MARTIN	73	45	8	25	29	55.6	84
ASGROW	OPAL	73	49	5	26	3	53.7	116
CARGILL	40	73	45	7	29	1	55.7	107
NORTHRUP KING	2656	73	46	4	33	0	55.9	116
PAYCO	DS 95	73	46	5	33	3	53.0	105
ASGROW	SIERRA	74	48	5	29	5	56.4	114
MC CURDY	M51 YG	74	47	5	33	1	51.8	108
ASGROW	CHAPARRAL	75	50	6	33	43	56.8	115
DEKALB	DK-41Y	75	49	6	34	8	53.8	100
FONTANELLE	6652	75	52	4	35	73	55.4	111
GOLDEN ACRES	T-E Y-75	75	50	4	32	27	55.4	116
PAYMASTER	1091	75	52	6	34	10	53.8	121
TERRA SEED	HT125G	75	47	5	32	6	51.8	107
AGRIPRO	AP965G	76	48	4	33	6	54.0	115
ASGROW	H8206	76	50	4	30	18	56.0	123
ASGROW	TOPAZ	76	49	4	31	9	56.0	111
DEKALB	X-4456	76	57	3	34	70	56.6	128
FONTANELLE	5583	76	50	4	33	9	54.2	111
FUNK'S	G-522DR	76	48	4	33	3	54.3	116
GOLDEN ACRES	T-E DINERO	76	48	5	35	5	53.9	108
JACQUES	397-W	76	52	6	36	10	55.3	112
MC CUBBIN	67 DR	76	53	4	34	59	54.8	123
MC CURDY	84-74	76	51	3	34	36	55.9	116
PAG	5572	76	51	3	38	16	54.1	115
PAYMASTER	DR 1125	76	48	5	38	6	53.9	111
SEEDTEC	WAC 686	76	50	4	34	21	55.6	116
SEEDTEC	WAC 710DR	76	49	4	34	6	54.5	114

CONTINUED

TABLE 1A. ZONE A. 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
		AVERAGE THREE LOCATIONS						
TRIUMPH	TWO 70-D	76	50	5	35	6	54.3	111
WARNER	W-839-DR	76	49	5	32	8	54.3	115
WARNER	W-876-DR	76	51	5	33	69	55.3	115
WILSON	619GX	76	48	4	31	9	53.8	114
ASGROW	MUSTANG	77	47	5	33	1	54.1	102
CARGILL	70	77	46	5	32	2	53.8	103
CENEX	405T	77	46	5	31	2	53.6	105
FONTANELLE	5546	77	49	5	35	5	55.0	109
HORIZON	114G	77	51	5	33	31	54.9	111
MC CURDY	M747	77	49	5	33	5	54.3	113
NC+	172	77	47	6	33	2	53.4	106
NC+	174	77	51	4	35	50	54.9	119
NORTHRUP KING	2665	77	46	2	34	7	55.3	115
PAG	5665	77	47	6	30	5	53.8	104
PAG	6670	77	49	3	34	61	54.8	111
STAUFFER SEEDS	S9750	77	51	4	38	45	55.2	122
TRIUMPH	TWO 64YG	77	47	5	33	2	53.8	104
WARNER	W-839-A	77	46	5	34	1	54.1	109
WARNER	W-864-T	77	48	5	34	1	54.9	109
WILSON	623T	77	50	3	36	29	55.1	116
AGRIPRO	TEK 1094R	78	46	5	34	3	53.6	104
ASGROW	GS 712	78	51	3	39	42	55.2	120
FUNK'S	G-1711	78	50	3	37	63	55.0	113
GOLDEN ACRES	T-E Y-101-G	78	47	5	33	1	53.7	101
GOLDEN ACRES	T-E Y-77	78	52	3	37	40	55.0	122
HORIZON	101G	78	47	5	34	1	54.0	105
JACQUES	505	78	46	4	34	3	53.3	101
JACQUES	606	78	50	3	37	47	55.2	117
MC CURDY	M737	78	46	5	36	0	53.5	99
ORO	ORO G XTRA	78	51	3	35	31	55.0	121
SEEDTEC	WAC 701G	78	52	4	37	51	54.8	110
TRIUMPH	TWO 80-D	78	51	3	37	53	54.1	119
WARNER	W-851-DR	78	51	3	36	36	55.0	118
WILSON	621G	78	47	5	35	3	53.4	100
CARGILL	575	79	50	6	36	7	53.3	103
DEKALB	DK-59E	79	51	4	37	11	52.6	111
NC+	271	79	50	6	36	3	53.2	100
PAYMASTER	1099	79	45	4	35	0	53.6	97
CARGILL	80	80	48	5	35	0	53.3	101
FUNK'S	Hw6119	81	49	3	38	5	54.9	105
AVERAGE ALL ENTRIES		75.2	48.6	4.7	32.8	17.9	54.8	110.6
DIF. REQ. FOR SIG.	5%	2.5	2.6	1.2	4.4	15.5	1.9	10.9
	25%	1.4	1.5	0.7	2.6		1.1	6.4

Days to bloom: Saunders and Clay Counties.
Early grain moisture: Saunders County
Lodging: Clay County

TABLE 1B. ZONE A. SAUNDERS COUNTY. 1985.

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
PAYCO	DS 75	60	44	7	25	.	56.3	90
ORO	ORO PRONTO	61	54	7	26	.	55.8	112
-----	RS 626	64	48	4	27	.	55.1	105
DEKALB	X-550	64	51	4	29	.	57.0	114
AGRIPRO	TEK 1055R	63	53	6	27	.	58.0	121
NC+	163	66	47	5	30	.	55.4	107
FUNK'S	G-1550	67	48	3	25	.	56.8	113
AGRIPRO	AP940G	64	53	6	32	.	57.1	113
NC+	160	64	54	6	29	.	57.4	128
PAG	3385	66	48	6	32	.	57.3	112
MC CURDY	M687	65	45	5	30	.	53.8	107
STAUFFER SEEDS	535GR	65	54	7	27	.	57.3	121
TERRA SEED	HT45G	63	53	8	30	.	57.4	129
NORTHRUP KING	2244	66	46	5	28	.	56.4	112
ASGROW	MESA	65	46	5	28	.	58.2	113
FUNK'S	G-550	67	48	3	35	.	56.0	110
PAG	4462	67	49	4	30	.	57.9	119
NC+	165	66	49	6	29	.	57.4	121
-----	MARTIN	67	46	8	25	.	56.6	94
PAYCO	DS 95	67	48	4	33	.	54.6	115
ASGROW	OPAL	68	50	5	26	.	54.9	128
CARGILL	40	66	46	6	29	.	57.5	116
NORTHRUP KING	2656	67	48	4	33	.	57.6	123
ASGROW	SIERRA	68	48	5	29	.	57.6	120
MC CURDY	M51 YG	69	49	4	33	.	53.4	116
TERRA SEED	HT125G	69	49	5	32	.	53.7	116
ASGROW	CHAPARRAL	70	51	5	33	.	58.6	113
FONTANELLE	6652	70	54	4	35	.	57.8	116
GOLDEN ACRES	T-E Y-75	70	52	3	32	.	57.8	126
ASGROW	H8206	71	52	5	30	.	58.1	125
ASGROW	TOPAZ	71	52	4	31	.	58.3	122
DEKALB	DK-41Y	69	51	5	34	.	57.1	113
PAYMASTER	1091	69	53	5	34	.	55.9	121
SEEDTEC	WAC 686	71	53	3	34	.	58.5	130
AGRIPRO	AP965G	70	51	4	33	.	55.8	120
FUNK'S	G-5220R	70	49	3	33	.	56.5	121
JACQUES	397-W	70	51	4	36	.	58.4	121
MC CUBBIN	67 DR	70	52	3	34	.	57.5	131
WARNER	W-876-DR	70	52	4	33	.	57.4	118
DEKALB	X-4456	71	58	3	34	.	59.6	137
MC CURDY	84-74	71	53	3	34	.	57.7	127
PAG	5572	71	53	3	38	.	56.8	124
SEEDTEC	WAC 710DR	71	51	3	34	.	57.0	119
TRIUMPH	TWO 70-D	71	50	4	35	.	56.4	120
WARNER	W-839-DR	71	49	4	32	.	56.8	120

CONTINUED

TABLE 1B. SAUNDERS COUNTY. CONCLUDED. 1985.

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
WILSON	619GX	71	51	3	31	.	55.7	120
FONTANELLE	5583	70	51	4	33	.	56.6	117
GOLDEN ACRES	T-E DINERO	70	49	4	35	.	56.6	119
PAYMASTER	DR 1125	70	48	4	38	.	55.6	115
MC CURDY	M747	71	50	4	33	.	56.7	119
NC+	174	71	52	4	35	.	57.6	122
NORTHRUP KING	2665	71	45	2	34	.	57.7	115
HORIZON	114G	70	50	5	33	.	57.7	118
PAG	5665	70	48	5	30	.	56.9	120
PAG	6670	72	50	2	34	.	57.8	118
STAUFFER SEEDS	S9750	72	51	5	38	.	57.5	123
FONTANELLE	5546	71	49	4	35	.	58.4	117
WARNER	W-864-T	71	48	4	34	.	57.9	119
WILSON	623T	71	52	2	36	.	58.3	121
ASGROW	GS 712	72	51	2	39	.	57.6	126
ASGROW	MUSTANG	70	48	4	33	.	56.6	112
CARGILL	70	70	46	4	32	.	57.1	117
CENEX	405T	70	47	5	31	.	57.4	121
FUNK'S	G-1711	72	51	2	37	.	57.8	113
GOLDEN ACRES	T-E Y-77	72	53	2	37	.	58.0	127
JACQUES	606	72	50	2	37	.	57.6	116
NC+	172	70	47	5	33	.	56.5	115
ORO	ORO G XTRA	72	52	3	35	.	57.9	124
TRIUMPH	TWO 64YG	70	47	4	33	.	57.1	118
WARNER	W-839-A	70	46	5	34	.	57.0	119
WARNER	W-851-DR	72	51	2	36	.	57.9	128
AGRIPRO	TEK 1094R	71	46	5	34	.	56.1	120
SEEDTEC	WAC 701G	73	52	3	37	.	57.4	118
TRIUMPH	TWO 80-D	73	51	3	37	.	57.2	118
WILSON	621G	71	48	4	35	.	57.1	113
GOLDEN ACRES	T-E Y-101-G	70	47	4	33	.	56.8	116
HORIZON	101G	70	48	4	34	.	57.1	116
JACQUES	505	70	47	4	34	.	56.5	117
MC CURDY	M737	71	48	5	36	.	57.0	115
CARGILL	575	72	49	6	36	.	57.9	116
DEKALB	DK-59E	74	52	4	37	.	56.0	120
NC+	271	72	50	5	36	.	57.9	111
PAYMASTER	1099	71	47	3	35	.	57.2	114
CARGILL	80	73	48	4	35	.	58.1	120
FUNK'S	HW6119	75	50	2	38	.	57.7	114
AVERAGE ALL ENTRIES		69.3	49.7	4.2	32.8		57.1	118.0
DIF. REQ. FOR SIG.	5%	1.4	2.0	1.7	4.4		0.9	10.3
	25%	0.8	3.8	1.0	2.6		0.5	6.1

Planted May 31, early grain moisture October 1, harvested October 14.

TABLE 1C. ZONE A. NUCKOLLS COUNTY. 1985.

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
PAYCO	DS 75	70	44	7	.	.	56.3	115
ORO	ORO PRONTO	71	47	7	.	.	55.9	126
-----	RS 626	72	43	5	.	.	53.9	105
DEKALB	X-550	72	47	3	.	.	57.1	134
AGRIPRO	TEK 1055R	74	46	6	.	.	57.7	125
NC+	163	74	45	5	.	.	55.3	118
FUNK'S	G-1550	74	44	3	.	.	57.5	128
AGRIPRO	AP940G	76	45	6	.	.	57.0	125
NC+	160	76	47	7	.	.	57.3	140
PAG	3385	75	45	4	.	.	57.7	126
MC CURDY	M687	76	37	6	.	.	53.8	118
STAUFFER SEEDS	535GR	76	50	8	.	.	57.2	124
TERRA SEED	HT45G	77	48	6	.	.	56.9	130
NORTHRUP KING	2244	76	45	6	.	.	56.8	120
ASGROW	MESA	77	42	4	.	.	58.7	129
FUNK'S	G-550	76	45	4	.	.	58.1	139
PAG	4462	77	46	4	.	.	56.3	128
NC+	165	78	45	6	.	.	56.7	132
-----	MARTIN	78	42	8	.	.	55.9	94
PAYCO	DS 95	78	45	5	.	.	53.0	119
ASGROW	OPAL	78	47	5	.	.	54.0	126
CARGILL	40	79	43	7	.	.	56.5	124
NORTHRUP KING	2656	79	45	4	.	.	57.9	129
ASGROW	SIERRA	79	47	5	.	.	57.6	128
MC CURDY	M51 YG	79	47	6	.	.	52.0	126
TERRA SEED	HT125G	80	46	5	.	.	52.5	124
ASGROW	CHAPARRAL	80	49	6	.	.	58.6	137
FONTANELLE	6652	80	49	3	.	.	56.7	133
GOLDEN ACRES	T-E Y-75	80	47	4	.	.	55.3	115
ASGROW	H8206	80	48	4	.	.	57.5	134
ASGROW	TOPAZ	80	45	4	.	.	56.4	119
DEKALB	DK-41Y	81	46	6	.	.	54.5	108
PAYMASTER	1091	81	51	6	.	.	54.4	147
SEEDTEC	WAC 686	80	49	4	.	.	55.4	121
AGRIPRO	AP965G	81	44	4	.	.	54.8	133
FUNK'S	G-522DR	81	47	4	.	.	55.1	132
JACQUES	397-W	81	50	5	.	.	56.6	130
MC CUBBIN	67 DR	81	55	3	.	.	56.6	146
WARNER	W-876-DR	81	48	5	.	.	56.5	141
DEKALB	X-4456	81	52	3	.	.	57.3	133
MC CURDY	84-74	81	47	3	.	.	56.6	121
PAG	5572	81	46	3	.	.	55.3	124
SEEDTEC	WAC 710DR	81	44	4	.	.	55.0	130
TRIUMPH	TWO 70-D	81	47	5	.	.	55.4	128
WARNER	W-839-DR	81	48	4	.	.	55.0	140

CONTINUED

TABLE 1C. NUCKOLLS COUNTY. 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
WILSON	619GX	81	43	4	.	.	54.6	132
FONTANELLE	5583	82	47	4	.	.	55.1	130
GOLDEN ACRES	T-E DINERO	82	46	5	.	.	54.4	123
PAYMASTER	DR 1125	82	45	5	.	.	54.7	130
MC CURDY	M747	82	47	5	.	.	55.1	129
NC+	174	82	50	4	.	.	56.6	145
NORTHRUP KING	2665	82	45	2	.	.	56.3	136
HORIZON	114G	83	48	5	.	.	56.1	131
PAG	5665	83	45	6	.	.	53.5	117
PAG	6670	82	47	3	.	.	55.9	126
STAUFFER SEEDS	S9750	82	49	3	.	.	56.2	144
FONTANELLE	5546	83	46	5	.	.	56.4	130
WARNER	W-864-T	83	45	5	.	.	55.9	125
WILSON	623T	83	47	4	.	.	55.9	131
ASGROW	GS 712	83	49	3	.	.	56.7	144
ASGROW	MUSTANG	84	46	6	.	.	55.1	118
CARGILL	70	84	44	4	.	.	54.3	118
CENEX	405T	84	44	5	.	.	53.9	115
FUNK'S	G-1711	83	50	5	.	.	55.7	137
GOLDEN ACRES	T-E Y-77	83	50	4	.	.	56.3	143
JACQUES	606	83	49	3	.	.	56.6	138
NC+	172	84	45	5	.	.	54.2	129
ORO	ORO G XTRA	83	49	2	.	.	56.4	148
TRIUMPH	TWO 64YG	84	44	4	.	.	54.6	121
WARNER	W-839-A	84	43	5	.	.	55.1	128
WARNER	W-851-DR	83	49	3	.	.	56.4	138
AGRIPRO	TEK 1094R	84	44	5	.	.	54.6	115
SEEDTEC	WAC 701G	83	49	4	.	.	55.8	126
TRIUMPH	TWO 80-D	83	49	4	.	.	56.6	149
WILSON	621G	84	44	5	.	.	53.3	112
GOLDEN ACRES	T-E Y-101-G	85	45	5	.	.	54.6	119
HORIZON	101G	85	45	4	.	.	55.3	129
JACQUES	505	85	43	4	.	.	54.1	112
MC CURDY	M737	85	42	5	.	.	54.3	118
CARGILL	575	85	47	6	.	.	53.6	117
DEKALB	DK-59E	84	47	4	.	.	54.0	129
NC+	271	85	48	5	.	.	54.0	119
PAYMASTER	1099	86	41	3	.	.	54.6	111
CARGILL	80	87	45	4	.	.	54.1	122
FUNK'S	HW6119	86	47	4	.	.	56.1	123
AVERAGE ALL ENTRIES		80.6	46.3	4.6			55.6	127.2
DIF. REQ. FOR SIG.	5%	1.6	3.7	2.0			1.2	16.2
	25%	0.9	2.2	1.2			0.7	9.5

Planted May 22, harvested October 28.
Planting to bloom data from Clay County.

TABLE 1D. ZONE A. CLAY COUNTY IRRIGATED. 1985.

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
PAYCO	DS 75	70	42	6	.	0	56.3	76
ORO	ORO PRONTO	71	46	6	.	18	55.4	85
-----	RS 626	72	43	2	.	31	54.5	71
DEKALB	X-550	72	49	3	.	9	55.3	108
AGRIPRO	TEK 1055R	74	50	6	.	18	54.2	88
NC+	163	74	47	6	.	5	54.0	88
FUNK'S	G-1550	74	47	2	.	33	55.6	92
AGRIPRO	AP940G	76	50	7	.	20	53.4	87
NC+	160	76	50	6	.	45	53.4	91
PAG	3385	75	48	5	.	7	55.3	99
MC CURDY	M687	76	38	5	.	1	52.4	94
STAUFFER SEEDS	535GR	76	50	5	.	35	53.7	89
TERRA SEED	HT45G	77	51	6	.	29	53.4	91
NORTHRUP KING	2244	76	44	6	.	20	52.8	86
ASGROW	MESA	77	43	5	.	0	55.4	93
FUNK'S	G-550	76	52	5	.	15	55.1	103
PAG	4462	77	51	5	.	7	54.2	105
NC+	165	76	48	8	.	3	51.9	93
-----	MARTIN	78	46	7	.	29	54.3	64
PAYCO	DS 95	78	46	5	.	3	51.5	82
ASGROW	OPAL	78	49	5	.	3	52.1	93
CARGILL	40	79	45	7	.	1	53.1	82
NORTHRUP KING	2656	79	45	5	.	0	52.1	96
ASGROW	SIERRA	79	49	6	.	5	54.1	93
MC CURDY	M51 YG	79	46	5	.	1	50.1	83
TERRA SEED	HT125G	80	46	4	.	6	49.3	80
ASGROW	CHAPARRAL	80	51	6	.	43	53.2	95
FONTANELLE	6652	80	52	4	.	73	51.7	84
GOLDEN ACRES	T-E Y-75	80	51	5	.	27	53.2	106
ASGROW	H8206	80	51	4	.	18	52.4	109
ASGROW	TOPAZ	80	50	5	.	9	53.4	92
DEKALB	DK-41Y	81	50	7	.	8	49.9	78
PAYMASTER	1091	81	52	6	.	10	51.1	95
SEEDTEC	WAC 686	80	49	4	.	21	52.9	97
AGRIPRO	AP965G	81	49	5	.	6	51.4	93
FUNK'S	G-522DR	81	49	5	.	3	51.3	95
JACQUES	397-W	81	56	8	.	10	50.9	85
MC CUBBIN	67 DR	81	52	6	.	59	50.2	93
WARNER	W-876-DR	81	54	5	.	69	51.9	87
DEKALB	X-4456	81	61	4	.	70	52.9	114
MC CURDY	84-74	81	52	3	.	36	53.4	99
PAG	5572	81	54	4	.	16	50.1	97
SEEDTEC	WAC 710DR	81	51	6	.	6	51.5	94
TRIUMPH	TWO 70-D	81	53	6	.	6	51.0	85
WARNER	W-839-DR	81	49	6	.	8	51.0	84

CONTINUED

TABLE 1D. CLAY COUNTY IRRIGATED. 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
WILSON	619GX	81	49	5	.	9	51.1	90
FONTANELLE	5583	82	52	5	.	9	51.0	86
GOLDEN ACRES	T-E DINERO	82	50	5	.	5	50.8	82
PAYMASTER	DR 1125	82	50	5	.	6	51.4	88
MC CURDY	M747	82	49	5	.	5	51.1	91
NC+	174	82	52	4	.	50	50.6	89
NORTHRUP KING	2665	82	47	3	.	7	51.9	93
HORIZON	114G	83	54	6	.	31	50.9	84
PAG	5665	83	49	7	.	5	51.1	75
PAG	6670	82	51	4	.	61	50.7	89
STAUFFER SEEDS	S9750	82	53	5	.	45	51.8	99
FONTANELLE	5546	83	51	5	.	5	50.3	81
WARNER	W-864-T	83	51	6	.	1	51.0	84
WILSON	623T	83	51	4	.	29	51.2	97
ASGROW	GS 712	83	53	4	.	42	51.3	90
ASGROW	MUSTANG	84	48	6	.	1	50.7	77
CARGILL	70	84	47	6	.	2	50.1	73
CENEX	405T	84	48	6	.	2	49.6	79
FUNK'S	G-1711	83	50	3	.	63	51.6	88
GOLDEN ACRES	T-E Y-77	83	52	4	.	40	50.7	95
JACQUES	606	83	52	4	.	47	51.5	96
NC+	172	84	50	7	.	2	49.6	75
ORO	ORO G XTRA	83	51	4	.	31	50.8	91
TRIUMPH	TWO 64YG	84	49	6	.	2	49.8	73
WARNER	W-839-A	84	50	6	.	1	50.1	79
WARNER	W-851-DR	83	52	4	.	36	50.6	89
AGRIPRO	TEK 1094R	84	49	6	.	3	50.0	76
SEEDTEC	WAC 701G	83	54	4	.	51	51.1	87
TRIUMPH	TWO 80-D	83	53	3	.	53	48.4	90
WILSON	621G	84	48	6	.	3	49.8	74
GOLDEN ACRES	T-E Y-101-G	85	49	6	.	1	49.6	68
HORIZON	101G	85	48	6	.	1	49.6	70
JACQUES	505	85	49	5	.	3	49.3	74
MC CURDY	M737	85	47	4	.	0	49.1	64
CARGILL	575	85	53	7	.	7	48.3	75
DEKALB	DK-59E	84	53	4	.	11	47.7	85
NC+	271	85	53	9	.	3	47.8	70
PAYMASTER	1099	86	48	6	.	0	48.9	67
CARGILL	80	87	51	6	.	0	47.6	62
FUNK'S	HW6119	86	51	3	.	5	50.8	79
AVERAGE ALL ENTRIES		80.6	49.7	5.2		17.9	51.6	86.7
DIF. REQ. FOR SIG.	5%	1.6	2.6	1.8		15.5	1.3	9.9
	25%	0.9	1.5	1.1		9.2	0.8	5.8

Planted June 3, harvested October 30.

TABLE 1E. ZONE A. 1984-1985.

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
		2-YEAR AVERAGE						
-----	RS 626	68	46	5	25	57	54.6	101
CRO	ORO PRONTO	68	49	6	24	59	55.3	111
NC+	160	69	50	7	25	65	56.6	119
TERRA SEED	HT45G	69	51	8	25	59	56.4	121
CARGILL	40	71	45	7	26	25	56.5	115
MC CURDY	M687	71	38	4	27	1	53.3	116
NORTHRUP KING	2244	71	46	6	27	60	56.0	113
PAG	3385	71	47	5	28	48	57.0	120
-----	MARTIN	72	45	8	22	41	56.2	88
PAG	4462	72	50	5	29	44	56.6	127
SEEDTEC	WAC 686	74	49	4	29	57	56.7	118
ASGROW	H8206	75	51	4	30	58	57.0	128
ASGROW	MUSTANG	75	46	5	31	20	55.3	121
ASGROW	SIERRA	75	48	5	29	43	57.1	120
ASGROW	TOPAZ	75	49	5	29	46	56.9	125
CARGILL	70	75	45	5	29	6	55.1	119
CENEX	405T	75	45	5	29	5	55.2	116
FONTANELLE	5583	75	49	5	31	49	54.9	125
GOLDEN ACRES	T-E DINERO	75	48	4	32	32	55.1	124
HORIZON	114G	75	50	5	31	65	56.1	124
JACQUES	505	75	45	4	31	16	55.1	118
NC+	172	75	46	5	30	8	54.9	117
PAG	5665	75	47	5	28	23	55.3	123
PAYMASTER	1091	75	52	5	31	49	54.2	132
SEEDTEC	WAC 710DR	75	48	4	32	42	55.2	129
TRIUMPH	TWO 64YG	75	46	5	29	9	55.4	120
ASGROW	CHAPARRAL	76	50	5	31	66	57.2	126
DEKALB	X-4456	76	55	3	31	85	57.8	129
GOLDEN ACRES	T-E Y-101-G	76	45	4	30	6	55.3	117
HORIZON	101G	76	45	4	31	11	55.5	120
MC CURDY	M737	76	45	4	31	4	55.1	116
MC CURDY	M747	76	48	4	32	43	55.0	127
PAYMASTER	DR 1125	76	47	4	34	42	54.8	124
TRIUMPH	TWO 70-D	76	49	4	32	51	54.9	122
WARNER	W-839-DR	76	48	4	31	49	55.1	126
WARNER	W-876-DR	76	51	4	33	84	56.1	129
WILSON	621G	76	46	4	30	6	55.0	115
JACQUES	606	77	50	3	34	73	55.9	126
NC+	174	77	51	4	33	74	55.9	129
NC+	271	77	49	6	31	36	54.8	114
ORO	ORO G XTRA	77	51	3	33	65	55.9	133
PAYMASTER	1099	77	44	3	32	2	55.4	116
STAUFFER SEEDS	S9750	77	51	4	34	72	55.9	138
WILSON	623T	77	49	3	35	51	55.4	131
CARGILL	80	78	47	4	32	25	54.8	118
DEKALB	DK-59E	78	50	4	35	41	53.5	125
FUNK'S	G-1711	78	50	3	34	81	55.5	125
GOLDEN ACRES	T-E Y-77	78	51	3	35	70	55.6	135
SEEDTEC	WAC 701G	78	51	3	35	72	55.7	123
TRIUMPH	TWO 80-D	78	51	4	36	76	55.6	131
AVERAGE ALL ENTRIES		74.8	48.1	4.5	30.5	43.4	55.6	121.7
DIF. REQ. FOR SIG.	5%	3.0	2.0	1.4	3.4	37.2	1.4	13.3
	25%	1.7	1.2	0.8	2.0	21.6	0.8	7.7

TABLE 1F. ZONE A. 1983-1985.

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
		3-YEAR AVERAGE						
-----	RS 626	68	44	4	25	38	54.1	99
NC+	160	69	49	7	25	43	56.5	115
ORO	ORO PRONTO	69	49	6	24	40	54.5	107
CARGILL	40	71	45	6	26	17	56.4	112
NORTHRUP KING	2244	71	45	6	27	40	56.1	111
-----	MARTIN	72	44	8	22	27	56.0	83
PAG	4462	72	49	4	29	32	56.2	121
ASGROW	MUSTANG	74	45	5	31	13	55.5	118
ASGROW	TOPAZ	74	47	4	29	31	57.2	126
CARGILL	70	74	44	5	29	4	55.4	117
FONTANELLE	5583	74	47	4	31	32	54.8	123
JACQUES	505	74	44	4	31	10	55.2	117
NC+	172	74	45	5	30	6	54.9	116
PAG	5665	74	46	5	28	15	55.6	119
SEEDTEC	WAC 710DR	74	47	4	32	28	55.4	125
WARNER	W-839-DR	74	47	4	31	33	55.0	123
ASGROW	CHAPARRAL	75	48	5	31	44	57.3	120
GOLDEN ACRES	T-E Y-101-G	75	45	4	30	4	55.6	116
HORIZON	101G	75	44	4	31	7	56.0	120
MC CURDY	M737	75	44	4	31	3	55.4	116
PAYMASTER	DR 1125	75	46	4	34	28	54.9	125
WILSON	621G	75	45	5	30	4	55.3	116
JACQUES	606	76	48	3	34	48	56.2	121
NC+	174	76	49	3	33	50	56.0	127
NC+	271	76	48	6	31	24	55.2	114
WARNER	W-876-DR	76	50	4	33	56	56.4	127
WILSON	623T	76	48	2	35	34	55.8	125
DEKALB	DK-59E	77	48	3	35	27	53.6	121
FUNK'S	G-1711	77	48	3	34	54	55.9	121
GOLDEN ACRES	T-E Y-77	77	49	2	35	47	56.1	130
ORO	ORO G XTRA	77	49	2	33	43	56.2	125
SEEDTEC	WAC 701G	77	49	3	35	48	56.0	121
AVERAGE ALL ENTRIES		74.2	46.7	4.3	30.5	29.1	55.6	118.0
DIF. REQ. FOR SIG.	5%	2.4	2.0	1.0	3.2	30.6	1.2	9.5
	25%	1.4	1.2	0.6	1.8	17.8	0.7	5.5

Early grain moisture: no 1982 data.

TABLE 1G. ZONE A. 1981-1985.

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
			4-YEAR AVERAGE					
-----	RS 626	68	45	4	26	38	52.9	98
NC+	160	68	49	6	25	43	55.8	110
NORTHRUP KING	2244	70	45	6	27	40	54.7	108
-----	MARTIN	72	44	7	23	27	55.4	85
ASGROW	MUSTANG	73	45	5	30	13	55.0	115
CARGILL	70	73	44	5	30	4	54.4	110
JACQUES	505	73	45	4	30	10	54.3	114
NC+	172	73	45	5	28	6	54.0	111
ASGROW	TOPAZ	74	47	5	28	31	56.4	124
FONTANELLE	5583	74	47	4	31	32	53.3	120
GOLDEN ACRES	T-E Y-101-G	74	45	4	28	4	54.6	111
HORIZON	101G	74	44	4	29	7	54.9	113
MC CURDY	M737	74	44	4	30	3	54.1	111
PAYMASTER	DR 1125	74	47	4	32	28	53.6	122
SEEDTEC	WAC 710DR	74	47	4	31	28	54.4	122
WARNER	W-839-DR	74	47	4	29	33	53.8	119
WILSON	621G	74	45	5	29	4	54.2	111
NC+	174	75	49	3	33	50	55.0	121
NC+	271	75	48	6	32	24	54.6	112
WILSON	623T	75	48	3	32	34	54.2	121
GOLDEN ACRES	T-E Y-77	76	50	3	36	47	55.0	124
ORO	ORO G XTRA	76	50	3	34	43	55.0	122
SEEDTEC	WAC 701G	76	49	3	34	48	55.2	119
AVERAGE ALL ENTRIES		73.4	46.5	4.4	29.9	26.0	54.6	144.0
DIF. REQ. FOR SIG.	5%	1.5	1.4	1.0	3.8	31.8	1.1	8.8
	25%	0.1	0.8	0.6	2.2	18.4	0.6	5.1
			5-YEAR AVERAGE					
-----	RS 626	66	45	4	27	38	53.6	95
NC+	160	67	49	6	26	38	56.2	111
NORTHRUP KING	2244	69	44	5	27	30	55.3	110
-----	MARTIN	71	44	7	24	29	55.8	84
ASGROW	MUSTANG	72	45	4	30	10	55.6	118
CARGILL	70	72	44	5	30	6	55.1	114
NC+	172	72	45	5	29	4	54.8	114
ASGROW	TOPAZ	73	47	4	29	29	57.1	122
FONTANELLE	5583	73	47	4	31	26	54.1	121
GOLDEN ACRES	T-E Y-101-G	73	45	4	29	3	55.3	116
HORIZON	101G	73	44	4	30	5	55.5	117
MC CURDY	M737	73	44	4	31	2	54.7	115
WILSON	621G	73	44	4	30	3	55.0	115
NC+	174	74	50	3	33	38	55.7	124
NC+	271	74	48	6	32	18	55.4	116
SEEDTEC	WAC 701G	74	49	3	34	36	55.7	122
WILSON	623T	74	48	3	32	26	55.1	124
ORO	ORO G XTRA	75	49	3	34	36	55.7	122
AVERAGE ALL ENTRIES		72.1	46.2	4.3	29.9	20.9	55.3	114.4
DIF. REQ. FOR SIG.	5%	1.2	1.4	0.9	3.0	26.3	1.0	9.6
	25%	0.7	0.8	0.5	1.7	15.3	0.6	5.6

Early grain moisture: no 1983 data.
Stalk lodging: no 1982 data.

TABLE 2A. ZONE B SOUTHWEST. LINCOLN COUNTY. 1985.

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
PAYCO	DS 65	71	.	.	.	3	56.4	74
PAYMASTER	930	71	.	.	.	10	55.9	75
ASGROW	DORADO E	73	.	.	.	3	54.8	81
PAYCO	DS 75	73	.	.	.	1	56.9	64
DEKALB	DK-38	74	.	.	.	15	56.5	82
MC CURDY	M450	74	.	.	.	5	56.9	66
WARNER	W-501-T	74	.	.	.	0	56.5	70
WARNER	W-564-T	74	.	.	.	1	56.8	80
-----	RS 626	75	.	.	.	11	53.4	68
CARGILL	30	75	.	.	.	3	54.6	74
ORO	EARLY ORO XTRA	75	.	.	.	0	57.1	83
DEKALB	DK-39Y	76	.	.	.	1	54.6	83
FUNK'S	G-421	77	.	.	.	0	54.5	64
ORO	ORO PRONTO	77	.	.	.	12	54.3	74
SEEDTEC	WAC 652G	77	.	.	.	0	55.3	66
PAYMASTER	1022	78	.	.	.	0	55.2	87
-----	MARTIN	79	.	.	.	2	55.5	53
AGRIPRO	AP940G	79	.	.	.	3	53.9	75
FUNK'S	G-1550	79	.	.	.	21	54.4	91
FUNK'S	G-550	79	.	.	.	1	52.9	74
PAG	3385	79	.	.	.	0	53.8	79
TRIUMPH	TWO 54YG	79	.	.	.	1	54.4	73
WILSON	617G	79	.	.	.	1	53.6	62
AGRIPRO	TEK 1055R	80	.	.	.	4	54.0	78
ASGROW	CORRAL	80	.	.	.	6	54.4	73
FONTANELLE	4455	80	.	.	.	1	54.9	76
NC+	163	80	.	.	.	0	51.1	76
GOLDEN ACRES	T-E Y-45-G	81	.	.	.	3	53.8	70
HORIZON	45G	81	.	.	.	1	53.3	71
JACQUES	308	81	.	.	.	3	52.4	76
NC+	160	81	.	.	.	3	52.0	74
NC+	165	81	.	.	.	1	49.7	72
PAG	3339	81	.	.	.	1	52.8	57
STAUFFER SEEDS	535GR	81	.	.	.	4	52.9	82
ASGROW	MESA	82	.	.	.	0	53.9	75
CARGILL	60	82	.	.	.	0	50.7	65
CARGILL	40	83	.	.	.	1	51.9	78
GOLDEN ACRES	T-E TUFF	83	.	.	.	0	51.1	68
PAG	4462	83	.	.	.	9	52.7	79
DEKALB	DK-41Y	85	.	.	.	0	48.6	65
PAYCO	DS 95	85	.	.	.	2	49.4	64
TRIUMPH	TR 74CR	85	.	.	.	10	50.8	72
MC CURDY	M51 YG	86	.	.	.	0	49.5	71
AGRIPRO	AP965G	88	.	.	.	0	49.6	58
TRIUMPH	TWO 70-D	88	.	.	.	0	48.8	59
ASGROW	TOPAZ	89	.	.	.	0	49.5	46
FUNK'S	HW6845	89	.	.	.	1	48.3	65
SEEDTEC	WAC 686	89	.	.	.	11	49.3	67
STAUFFER SEEDS	S9750	91	.	.	.	4	48.2	64
PAG	5572	92	.	.	.	0	49.1	62
WARNER	W-864-T	92	.	.	.	0	47.3	43
AGRIPRO	TEK 1094R	93	.	.	.	0	46.6	38
CARGILL	70	93	.	.	.	0	49.8	42
CARGILL	55	94	.	.	.	0	47.2	29
CARGILL	575	94	.	.	.	0	45.4	33
AVERAGE ALL ENTRIES		81.5				2.9	52.5	68.1
DIF. REQ. FOR SIG.	5%	3.4				6.4	2.2	16.5
	25%	2.0				3.7	1.3	9.6

Planted May 29, harvested October 30.

TABLE 2B. ZONE B. 1984-1985.

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
		2-YEAR AVERAGE						
DEKALB	DK-38	73	.	.	.	18	57.8	71
-----	RS 626	75	.	.	.	10	55.2	63
CARGILL	30	75	.	.	.	5	55.6	68
FONTANELLE	4455	76	.	.	.	16	56.9	69
ORO	ORO PRONTO	76	.	.	.	9	55.3	63
WILSON	617G	76	.	.	.	15	56.4	64
ASGROW	CORRAL	77	.	.	.	17	56.7	67
PAYMASTER	1022	77	.	.	.	3	56.3	72
TRIUMPH	TWO 54YG	77	.	.	.	13	56.3	70
-----	MARTIN	78	.	.	.	3	56.8	51
FUNK'S	G-550	78	.	.	.	2	55.6	66
HORIZON	45G	78	.	.	.	6	55.8	63
JACQUES	308	78	.	.	.	4	55.3	71
ORO	EARLY ORO XTRA	78	.	.	.	3	57.2	67
PAG	3339	78	.	.	.	10	55.7	61
PAG	3385	78	.	.	.	7	56.2	73
ASGROW	MESA	80	.	.	.	1	56.3	71
CARGILL	40	80	.	.	.	3	55.0	68
CARGILL	60	81	.	.	.	2	53.2	58
DEKALB	DK-41Y	81	.	.	.	2	52.7	65
PAG	4462	82	.	.	.	9	54.6	70
ASGROW	TOPAZ	85	.	.	.	1	52.9	45
TRIUMPH	TWO 70-D	85	.	.	.	1	51.5	56
CARGILL	70	87	.	.	.	0	52.7	52
CARGILL	55	88	.	.	.	5	50.3	44
AVERAGE ALL ENTRIES		79.1				6.6	55.1	63.5
DIF. REQ. FOR SIG.	5%	5.6				NS	2.6	NS
	25%	3.2				8.0	1.5	11.6

TABLE 2C. ZONE B. 1980-1985. NO 1982 DATA.

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
			3-YEAR AVERAGE					
DEKALB	DK-38	72	45	.	.	12	58.5	86
-----	RS 626	74	40	.	.	7	56.0	78
CARGILL	30	74	43	.	.	3	56.5	78
ORO	ORO PRONTO	74	46	.	.	7	56.2	79
ASGROW	CORRAL	75	46	.	.	11	57.4	83
FONTANELLE	4455	75	45	.	.	11	57.5	84
WILSON	617G	75	47	.	.	10	57.5	81
-----	MARTIN	76	39	.	.	2	57.8	61
JACQUES	308	76	45	.	.	2	56.7	89
PAG	3339	76	42	.	.	7	56.9	77
CARGILL	40	78	41	.	.	2	56.5	84
PAG	4462	78	45	.	.	6	55.9	84
CARGILL	60	79	40	.	.	1	53.5	72
ASGROW	TOPAZ	82	44	.	.	0	54.4	64
CARGILL	70	84	39	.	.	0	53.8	67
CARGILL	55	85	45	.	.	3	51.6	56
AVERAGE ALL ENTRIES		77.1	43.3			5.3	56.0	76.4
DIF. REQ. FOR SIG.	5%	4.7	2.3			NS	1.7	14.1
	25%	2.7	1.2			NS	1.0	8.1
			4-YEAR AVERAGE					
DEKALB	DK-38	70	50	.	.	10	58.7	90
CARGILL	30	72	46	.	.	4	57.0	83
-----	RS 626	73	45	.	.	10	56.8	83
FONTANELLE	4455	73	49	.	.	11	58.0	89
-----	MARTIN	74	45	.	.	4	58.4	62
ASGROW	CORRAL	74	50	.	.	11	58.1	89
CARGILL	60	77	43	.	.	2	54.7	79
ASGROW	TOPAZ	80	47	.	.	1	55.7	74
CARGILL	70	82	43	.	.	1	54.8	76
AVERAGE ALL ENTRIES		75.0	46.4			6.0	56.9	80.6
DIF. REQ. FOR SIG.	5%	3.2	2.8			NS	1.5	12.2
	25%	1.8	1.5			5.2	0.9	7.0
			5-YEAR AVERAGE					
-----	RS 626	72	43	.	.	10	56.0	81
CARGILL	30	72	44	.	.	4	56.7	82
ASGROW	CORRAL	73	48	.	.	11	57.6	90
-----	MARTIN	75	43	.	.	4	57.8	61
CARGILL	60	77	42	.	.	2	55.1	81
ASGROW	TOPAZ	79	44	.	.	1	55.8	79
CARGILL	70	81	42	.	.	1	54.8	77
AVERAGE ALL ENTRIES		75.6	43.7			4.7	56.3	78.7
DIF. REQ. FOR SIG.	5%	2.9	2.5			7.1	1.8	11.8
	25%	1.6	1.4			4.0	1.0	6.8

Plant height: no 1984-1985 data.
Stalk lodging: no 1980 data.

TABLE 3A. ZONE C. WEST SUMMARY. BLACK AND ECOFALLOW. 1985.

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
		AVERAGE TWO LOCATIONS						
NORTHRUP KING	1210	79	35	.	.	52	48.0	29
DEKALB	DK-18	80	37	.	.	66	49.4	28
FONTANELLE	2233	84	33	.	.	8	46.9	41
CARGILL	22	88	34	.	.	44	50.5	25
WARNER	W-545-T	88	32	.	.	10	46.6	33
PAYCO	DS 65	89	36	.	.	4	46.3	39
PAYMASTER	930	89	35	.	.	18	47.8	25
TRIUMPH	TWO 48YG	89	33	.	.	6	46.0	25
MC CURDY	M410	90	36	.	.	34	46.6	32
PAG	2285	90	33	.	.	10	50.7	28
WARNER	W-501-T	90	33	.	.	6	44.7	31
FUNK'S	G-1460	92	37	.	.	18	48.3	33
FUNK'S	G-421	92	32	.	.	0	38.4	34
PAG	4433	92	35	.	.	20	46.9	26
CARGILL	30	93	34	.	.	4	44.6	30
TRIUMPH	TR 50YG	93	34	.	.	8	48.3	27
WARNER	W-558-T	94	35	.	.	16	47.4	26
PAYMASTER	1022	97	34	.	.	4	42.2	15
FUNK'S	G-550	99	35	.	.	4	33.9	16
FUNK'S	HW5883	99	33	.	.	2	34.6	22
PAG	3339	101	32	.	.	22	33.2	10
CARGILL	40	102	32	.	.	0	31.6	9
CARGILL	60	105	31	.	.	2	25.0	10
AVERAGE ALL ENTRIES		92.0	34.0			15.6	43.4	25.8
DIF. REQ. FOR SIG.	5%	2.3	2.8			16.9	3.0	17.5
	25%	1.4	1.6			9.9	1.7	10.0

Planting to bloom, lodging and test weight: black fallow only.

TABLE 3B. WEST. CHEYENNE COUNTY. BLACK FALLOW. 1985.

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
NORTHRUP KING	1210	79	38	.	.	52	48.0	35
DEKALB	DK-18	80	39	.	.	66	49.4	35
FONTANELLE	2233	84	37	.	.	8	46.9	68
CARGILL	22	88	37	.	.	44	50.5	28
WARNER	W-545-T	88	36	.	.	10	46.6	47
PAYMASTER	930	89	38	.	.	18	47.8	39
PAYCO	DS 65	89	41	.	.	4	46.3	61
TRIUMPH	TWO 48YG	89	36	.	.	6	46.0	37
WARNER	W-501-T	90	36	.	.	6	44.7	44
PAG	4433	92	39	.	.	20	46.9	33
MC CURDY	M410	90	42	.	.	34	46.6	49
PAG	2285	90	36	.	.	10	50.7	42
FUNK'S	G-421	92	36	.	.	0	38.4	57
FUNK'S	G-1460	92	41	.	.	18	48.3	51
CARGILL	30	93	39	.	.	4	44.6	48
TRIUMPH	TR 50YG	93	37	.	.	8	48.3	44
WARNER	W-558-T	94	39	.	.	16	47.4	40
FUNK'S	G-550	99	39	.	.	4	33.9	29
FUNK'S	HW5883	99	39	.	.	2	34.6	41
PAYMASTER	1022	97	38	.	.	4	42.2	29
PAG	3339	101	36	.	.	22	33.2	18
CARGILL	40	102	36	.	.	0	31.6	16
CARGILL	60	105	35	.	.	2	25.0	18
AVERAGE ALL ENTRIES		92.0	37.8			15.6	43.4	39.5
DIF. REQ. FOR SIG.	5%	2.3	0.1			16.9	3.0	10.2
	25%	1.4	0.1			9.9	1.7	5.9

TABLE 3C. WEST. CHEYENNE COUNTY ECOFALLOW. 1985.

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
NORTHRUP KING	1210	82	32	.	.	.	49.6	23
DEKALB	DK-18	82	34	.	.	.	51.8	21
FONTANELLE	2233	92	29	.	.	.	50.7	13
CARGILL	22	90	30	.	.	.	54.3	21
WARNER	W-545-T	91	28	.	.	.	51.1	19
PAYMASTER	930	91	31	.	.	.	53.4	11
PAYCO	DS 65	92	30	.	.	.	51.0	17
TRIUMPH	TWO 48YG	92	29	.	.	.	50.1	13
WARNER	W-501-T	91	29	.	.	.	48.6	18
PAG	4433	92	30	.	.	.	50.8	19
MC CURDY	M410	95	30	.	.	.	51.8	15
PAG	2285	95	29	.	.	.	54.6	14
FUNK'S	G-421	95	28	.	.	.	45.2	11
FUNK'S	G-1460	96	32	.	.	.	54.1	14
CARGILL	30	96	28	.	.	.	49.9	12
TRIUMPH	TR 50YG	98	31	.	.	.	52.2	10
WARNER	W-558-T	100	31	.	.	.	51.7	12
FUNK'S	G-550	.	30	.	.	.	.	2
FUNK'S	HW5883	.	26	.	.	.	.	2
PAYMASTER	1022	103	30	.	.	.	.	1
PAG	3339	.	28	.	.	.	.	2
CARGILL	40	.	27	.	.	.	.	1
CARGILL	60	.	26	.	.	.	.	1
AVERAGE ALL ENTRIES		92.9	29.5				51.2	11.8
DIF. REQ. FOR SIG.	5%	3.8	2.2				1.6	4.4
	25%	2.2	1.3				0.9	2.5

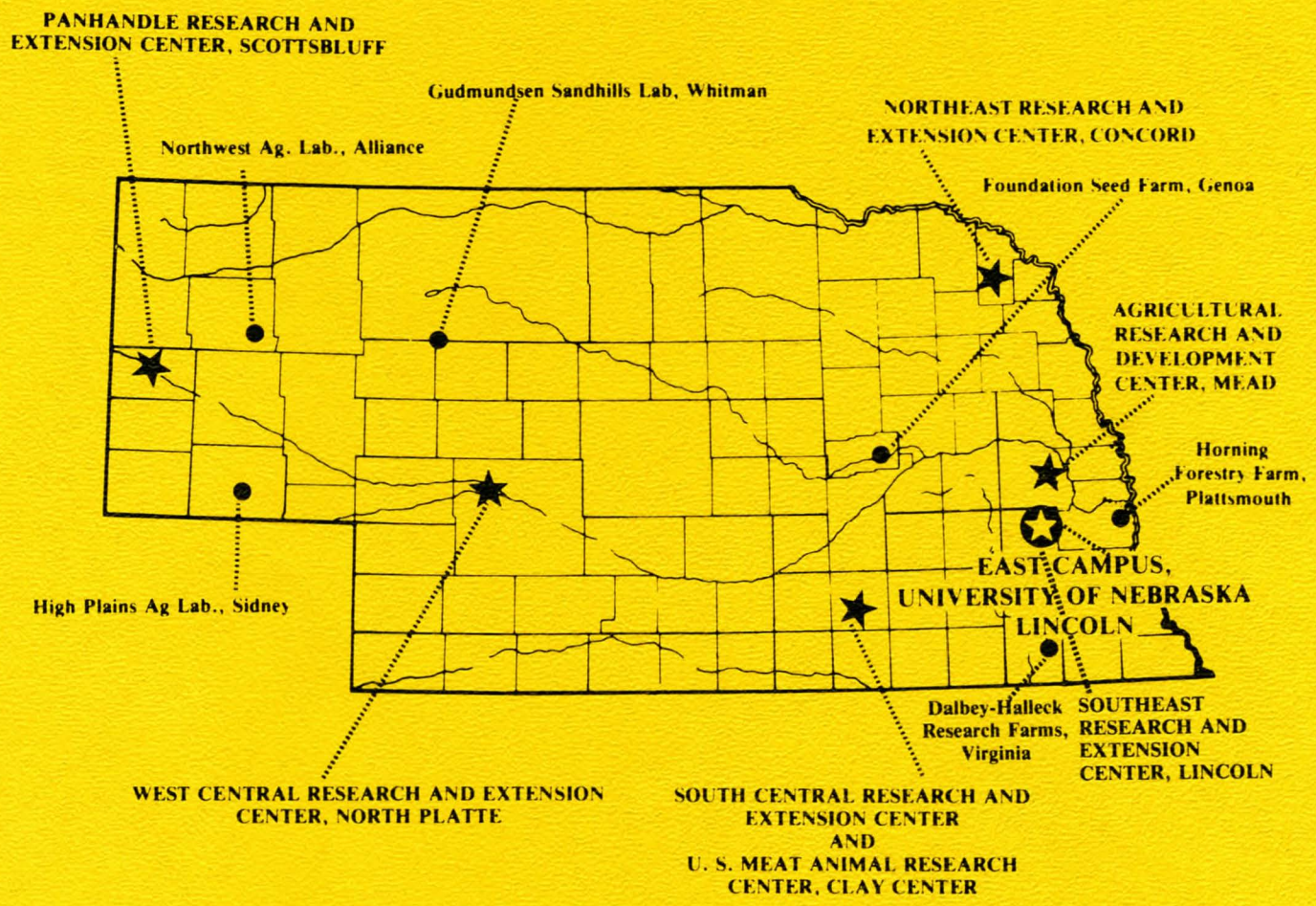
Planted May 19, harvested October 7.
Five entries did not reach 50% flower.

TABLE 3D. ZONE C. 1980-1985. NO 1982 DATA.

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
			2-YEAR AVERAGE					
NORTHRUP KING	1210	77	37	.	17	52	50.9	39
DEKALB	DK-18	78	39	.	17	66	50.9	42
FONTANELLE	2233	82	36	.	18	8	50.2	50
CARGILL	22	83	37	.	17	44	52.9	40
WARNER	W-545-T	83	35	.	18	10	50.1	46
TRIUMPH	TWO 48YG	84	36	.	19	6	49.7	48
FUNK'S	G-1460	88	39	.	19	18	51.1	45
CARGILL	30	89	37	.	20	4	47.2	40
FUNK'S	HW5883	93	37	.	18	2	41.9	43
PAYMASTER	1022	93	37	.	20	4	46.4	36
PAG	3339	96	38	.	20	22	40.4	32
CARGILL	40	97	37	.	20	0	39.1	28
CARGILL	60	101	36	.	21	2	32.8	26
AVERAGE ALL ENTRIES		88.0	37.0		18.6	18.3	46.4	39.6
DIF. REQ. FOR SIG.	5%	3.6	NS		1.3	16.9	6.9	NS
	25%	2.0	NS		0.8	9.9	3.9	8.5
			3-YEAR AVERAGE					
DEKALB	DK-18	74	40	.	17	35	51.7	57
NORTHRUP KING	1210	74	37	.	17	32	51.5	49
FONTANELLE	2233	78	36	.	18	4	51.7	63
CARGILL	22	80	38	.	17	22	54.0	52
FUNK'S	G-1460	84	41	.	19	9	51.7	58
CARGILL	30	85	38	.	20	2	49.0	50
FUNK'S	HW5883	88	37	.	18	1	45.1	56
PAYMASTER	1022	88	39	.	20	2	48.8	53
CARGILL	40	93	38	.	20	0	42.4	38
AVERAGE ALL ENTRIES		82.7	38.2		18.4	11.9	49.5	52.9
DIF. REQ. FOR SIG.	5%	3.3	2.4		NS	NS	4.9	11.1
	25%	1.9	1.3		1.7	NS	2.7	6.2
			4-YEAR AVERAGE					
NORTHRUP KING	1210	79	38	.	18	32	52.5	59
CARGILL	30	89	40	.	23	2	49.6	60
AVERAGE ALL ENTRIES		84.0	39.0		20.5	17.0	51.1	59.5
DIF. REQ. FOR SIG.	5%	4.9	NS		NS	NS	2.8	NS
	25%	2.2	NS		NS	NS	1.3	NS
			5-YEAR AVERAGE					
NORTHRUP KING	1210	77	37	.	15	23	53.4	55
CARGILL	30	86	39	.	20	1	51.2	56
AVERAGE ALL ENTRIES		81.5	38.0		17.5	12.0	52.3	55.5
DIF. REQ. FOR SIG.	5%	3.5	NS		4.6	NS	NS	NS
	25%	1.7	NS		1.7	21.0	NS	NS

Early moisture is harvest moisture. No data 1983, 1985.
Stalk lodging: no data 1981, 1984.

AGRICULTURAL RESEARCH AND EXTENSION FOR ALL OF NEBRASKA



The Agricultural Research Division of the Institute of Agriculture and Natural Resources is responsible for studies to broaden our basis of knowledge for agricultural production. Research centers and field laboratories provide applied information for development of Nebraska's largest industry — agriculture.

The Cooperative Extension Service transmits data and provides interpretation to users through Extension Agents and Specialists. Extension Agents may be contacted through 85 local Extension offices for additional information 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 less than 15 to more than 35 inches per year, and the soil types vary from sands to heavy clays. The research and extension programs thus are broad in subject matter and geography, resulting in the need for various centers, satellite locations, and local offices.