

1990

EC90-106 Nebraska Grain Sorghum Hybrid Tests 1990

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NEBRASKA GRAIN SORGHUM HYBRID TESTS

1990

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**University of Nebraska—Lincoln
 Institute of Agriculture and Natural Resources
 Agricultural Research Division
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NEBRASKA GRAIN SORGHUM HYBRID TESTS

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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 1990 season was the 33rd 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

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NEBRASKA GRAIN SORGHUM HYBRID TESTS

1990

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

	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
Yield bu/A	61.0	64.0	80.0	89.0	90.0	76.0	62.0	77.0
Acres (000)	1,000	1,900	1,930	1,570	1,220	1,360	1,650	1,400

Rain and cool weather early in the season slowed planting and delayed germination. June 4, planting was 55% complete compared with 84% last year and 82% average. Planting progressed rapidly so that on June 18 planting was 96% complete compared with 97% last year and average. Chinch bugs and greenbugs were a problem during the growing season along with the hot dry summer.

August 27, 1990 the crop was 96% headed compared with 90% last year and 96% average. The sorghum developed rapidly as temperatures averaged above normal. Harvest began earlier than last year, but ended up slightly behind schedule. The combination of chinch bug damage, heat, and drought caused some lodging in some eastern and southern fields.

PROCEDURE

Locations of trials are shown on the map (page 8). Names of cooperators are shown in Table A. Entrants and entries are shown in Tables B and C, respectively.

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 harvest at a time when differences between entries were relatively high. This gives an indication of relative grain drying rates.

Plant height and head exertion readings were made at harvest. Lodging readings were taken at harvest. Reported yields are based on 56 pounds per bushel and 14 percent grain moisture.

Entries in data tables are listed in order of decreasing yield. There are variations in maturity among trials and over years. Maturity is

listed as plant bloom days or days from planting to bloom. 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.

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 1990 test location is shown in Table D. All tests were machine harvested this year. The maturity yield correlation (r value) is an indication of the relationship between maturity (as measured by days from planting to bloom) and grain yield.

The average performance of hybrids included in trials over a five-year period is shown in Table E. This data indicates the effect of seasonal growing conditions on the characters measured. Stalk lodging data are included only for experiments where differentials among hybrids were observed.

Southeast (Tables 1 to 8)

Sixty-seven entries were planted at four locations in the southeast. In Gage County, yields were average (87 bu/A ave. dryland) despite the drought. Saunders County yields were pretty good (101 bu/A dryland) despite some greenbug problems and dry summer. Maturity yield correlation was highly significant at the 1% level for this location. This correlation was positive meaning the later maturity gave higher yields. The Clay County test was an irrigated test that yielded well (150 bu/A). The maturity yield correlation was significant at the 5% level. The correlation was positive which means later maturity gave higher yields. The Adams County plot, wet weather delayed planting, yielded good (106 bu/A dryland) considering that the lodging average for this test was 38%.

Southwest (Tables 9 to 11)

A total of forty-two entries were tested at two locations in this zone. Frontier and Dundy counties plots were planted in wheat stubble from the 1989 harvest. Frontier County had better yields and test weights than Dundy County. The average performance of all entries included in trials over a five-year period, are not included for this newly established zone.

West Central (Tables 12 to 15)

These trials were seeded into wheat stubble from 1989 crop. There were 22 entries tested at two locations. Yields were not too good at Lincoln and Perkins County. The hot dry summer took its toll on both tests.

West (Tables 16 to 19)

Twelve entries were tested at two locations, both in Cheyenne County. One test was an ecofallow and the other was black fallow. Black fallow had a 14 month fallow following wheat while ecofallow had eight months following wheat. The maturity yield correlation indicated there was not a close agreement for either location but was negative indicating some late varieties were affected by frost. There was about average moisture and temperatures, but when it came, it came in extremes each way. Rains were not timely and drought hurt the yields.

Cultural Practices

Gage (dryland): Cropping history: Grain sorghum 1989. Herbicide used Bicep 2 pts/A. Insecticide Parathion flown on with an airplane Aug 17, for greenbug infestation. Fertilizer 80 lbs. Nitrogen. Plot was cultivated twice.

Saunders (dryland): Previous crop was soybeans. Fertilizer 115 lbs. Nitrogen. Herbicide banded Ramrod 0.5 gal/A. dry flowable and Atrazine 2 pts. Insecticide used was Lorsban for greenbug. Cultivated once.

Clay (irrigated): Previous crop was soybeans. Nitrogen fertilizer 70 lbs. Herbicide used Ramrod/Atrazine

flowable 4 qt./Acre. No insecticide used.

Adams (dryland): 1989 sorghum. Nitrogen fertilizer 80 lbs. Starter fertilizer 5.5 gal. of 10-30-0 w/ 2% zinc. Herbicide Ramrod/Atrazine. No insecticide.

Frontier ecofallow: 1989 wheat. 70 lbs. actual N applied in April with

herbicide. After wheat harvest 1989
2.4 lbs. atrazine. April 1990 2 pt.
Dual + 0.4 lb. Atrazine + 0.8 lb.
Bladex + 0.5 pt. of 6 lb. 2,4-D LV
ester.

Dundy ecofallow: Previous crop wheat.
75 lbs. N with herbicide. Fall 1989,
1 lb. atrazine + 54 oz. landmaster.
Spring of 1990 1.8 lb. bladex + 1.0
lb. atrazine + 0.5 pt. of 6 lbs./gal.
2,4-D LV ester. Lorsban 15G. at 8
oz./1000 ft. of row.

Perkins ecofallow: 1989 crop was
wheat. 47 lbs. N with herbicide
preplant. Late August 1989 1.5 lbs.
Atrazine and Cyclone. May 1990,
Bladex 1.2 lbs + Atrazine .3 lbs +
Banvel 8 oz.+ 28% N (16 gal).
Insecticide: Lorsban 15G at 8
oz./1000 ft. row.

Lincoln ecofallow : After Wheat.
Herbicides: Atrazine and Paraquat
were used on stubble and Landmaster
preplant. Fertilizer: 60 lbs. of N.

Cheyenne black fallow: Fallow in
1989. Herbicides: Atrazine and
Ramrod. Fertilizer: 7 lbs. N and 23
lbs. P of starter.

Cheyenne ecofallow: After proso
millet. Herbicides: Atrazine and
Ramrod. Fertilizer: 40 lbs. N
broadcast and starter 7 lbs. N and 23
lbs. P.

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)

SORGHUM MATURITY ZONES AND LOCATIONS OF NEBRASKA PERFORMANCE TESTS 1990

**Table A. Location and Cooperators.
Nebraska Grain Sorghum Performance Tests.**

Location	Soil Type/Herbicide	Cooperator
Southeast		
Gage (dryland)	Crete silty clay loam Bicep + Paraquat	Bruce Carsten Cortland
Saunders (dryland)	Sharpsburg silty clay loam Ramrod + Atrazine	Randy Beranek Ashland
Adams (dryland)	Hastings silt loam Ramrod + Atrazine	Dean Hansen Juniata
Clay (irrigated)	Hastings silt loam Ramrod + Atrazine	South Central REC Clay Center
Southwest		
Frontier (ecofallow)	Holdrege silt loam Atrazine + Bladex + Dual + 2,4-D + Landmaster	Jerry Peterson Cambridge
Dundy (ecofallow)	Keith silt loam Atrazine + Bladex + 2,4-D + Landmaster	Richard Keiser Enders
West Central		
Lincoln (ecofallow)	Hall silt loam Atrazine + Landmaster + Paraquat	West Central REC North Platte
Perkins (ecofallow)	Rosebud loam Atrazine + Banvil + Bladex + Cyclone	Keith Olsen Grant
West		
Cheyenne (black fallow)	Rosebud loam Ramrod + Atrazine	High Plains Ag. Lab. Sidney
Cheyenne (ecofallow)	Keith silt loam Ramrod + Atrazine	High Plains Ag. Lab. Sidney

**Table B. Entrants. Nebraska grain sorghum performance tests.
1990.**

Brand	Entrant	Address
AgriPro	AgriPro Seeds	Tekamah, NE 68061
Arrow Seed	Arrow Seed Co. Inc.	Broken Bow, NE 68822
Asgrow Seed Co.	Asgrow Seed Company	Plainview, TX 79072
Cargill Hybrid Seeds	Cargill Hybrid Seeds	Minneapolis, MN 55440
Dahlgren	Dahlgren and Company, Inc.	Crookston, MN 56716
DeKalb-Pfizer Genetics	DeKalb-Pfizer Genetics	Glenvil, NE 68941
Fontanelle Hybrids	Fontanelle Hybrids	Nickerson, NE 68044
Funk's G brand	CIBA-GEIGY Seed Division	Greensboro, NC 27419
Garrison	Garrison Seed Co.	Hereford, TX 79045
Germain's Seeds	Germain's Inc.	Fresno, CA 93777
Golden Acres	Taylor-Evans Seed Co.	Tulia, TX 79088
Golden Harvest	The J.C. Robinson Seed Co.	Waterloo, NE 68069
Horizon	Horizon Seeds	Lincoln, NE 68501
Hyperformer	Hyperformer Seed Co.	Memphis, TN 38317
Jacques	Jacques Seed Co.	Prescott, WI 54021
Northrup King	Northrup King Co.	Minneapolis, MN 55440
Ohlde	Ohlde Seed Farms	Palmer, KS 66962
Oro Hybrids	Oro Hybrids	Lubbock, TX 79404
Pioneer	Pioneer Hi-Bred Int'l., Inc.	Lincoln, NE 68505
S-Brand	Schechinger Seed Co.	Harlan, IA 51537
Super Crost	Edw. J. Funk & Sons, Inc	Kentland, IN 47951
Triumph	Triumph Seed Co., Inc.	Ralls, TX 79357
Wilson	Wilson Hybrids, Inc.	Harlan, IA 51537

Locations of 1990 Sorghum Tests

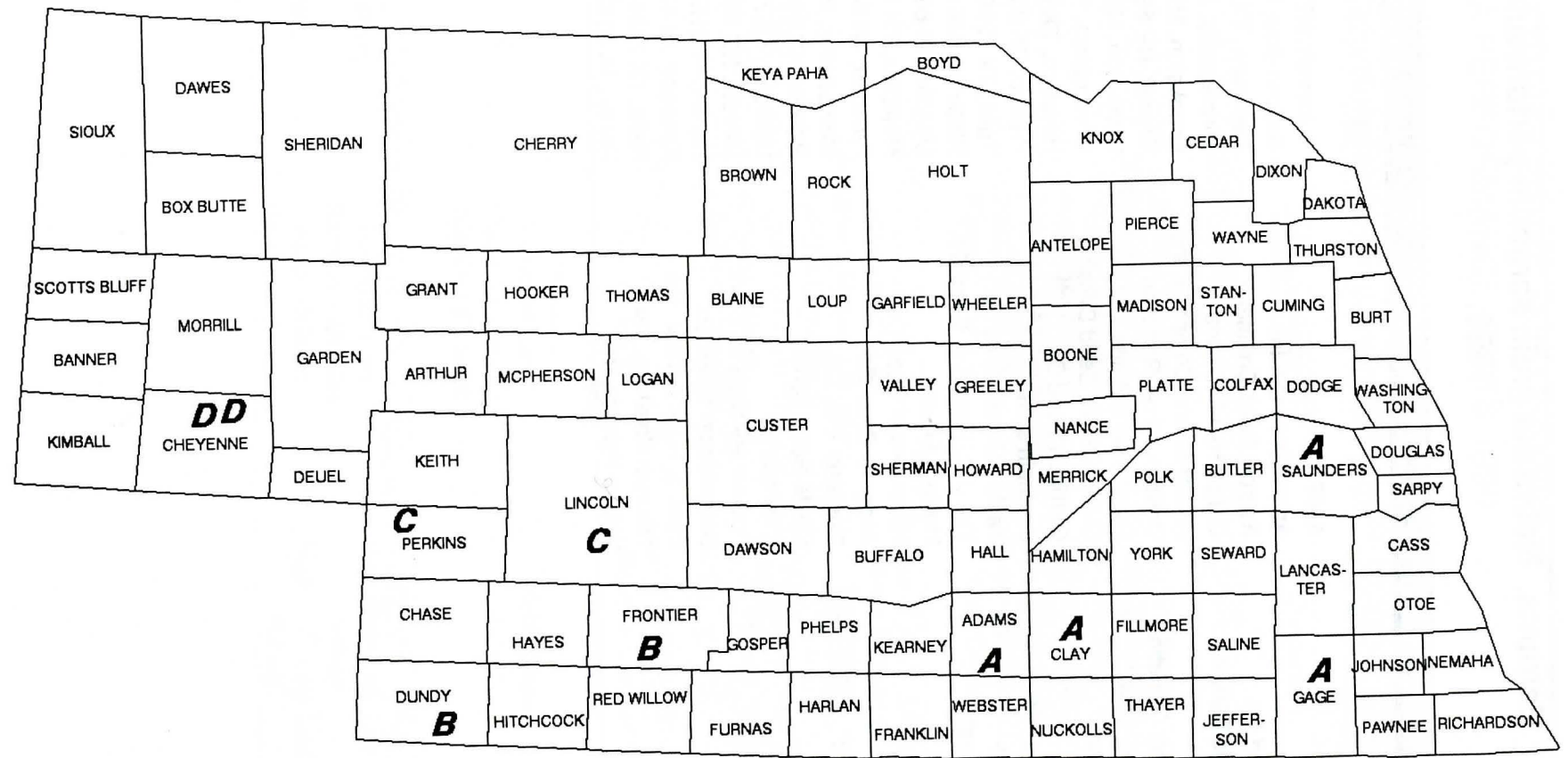


Table C. Grain sorghum entries and zone* where tested. 1990.

Brand	Hybrid	Zone	Brand	Hybrid	Zone	Brand	Hybrid	Zone
AGRIPRO	AP9830	A . . .	FUNK'S	G-1655	A . . .	NORTHRUP KING	KS383Y	. B . .
ARROW SEED	AS 512G	A . . .	FUNK'S	G-6006X	A . . .	NORTHRUP KING	KS710	A . . .
ARROW SEED	AS 313	. B . .	FUNK'S	G-1492	. B C .	OHLDE	103	. B . .
ARROW SEED	AS 423	A B . .	FUNK'S	G-1460A	. B C .	OHLDE	120C	. B . .
ASGROW	GS712	A . . .	GARRISON SEED	SG-932	A . . .	OHLDE	139A	A . . .
ASGROW	OSAGE	A B . .	GARRISON SEED	SG-722	. B . .	OHLDE	140W	A . . .
ASGROW	SENECA	. B . .	GARRISON SEED	SG-822	A . . .	OHLDE	EX8148	A . . .
ASGROW	TOPAZ	A B . .	GERMAIN'S SEEDS	GS-7070	. B C .	ORO	BARON	A . . .
ASGROW	XP5049	A B . .	GERMAIN'S SEEDS	GS-1010	A . . .	ORO	G XTRA	A . . .
CARGILL	575	A B . .	GERMAIN'S SEEDS	GS-3330	. B C .	PIONEER	8358	A . . .
CARGILL	577	. B C D	GOLDEN ACRES	T-E 20	. . . D	PIONEER	8379	A . . .
CARGILL	607E	A B C D	GOLDEN ACRES	T-E X490	A . . .	PIONEER	8493	. B . .
CARGILL	618Y	A B C D	GOLDEN ACRES	T-E X150	. . C .	PIONEER	8500	A B . .
CARGILL	630	A B C D	GOLDEN ACRES	T-E Y-77	A . . .	PIONEER	8601	. B C .
CARGILL	70	A . . .	GOLDEN ACRES	T-E 76	A . . .	PIONEER	8699	. . C .
CARGILL	847	A . . .	GOLDEN ACRES	T-E Y-75	A . . .	PIONEER	8771	. . C .
CARGILL	X15277	A . . .	GOLDEN ACRES	T-E 35	. B . .	PIONEER	8790	. . . D
DAHLGREN	DG-40B	A . . .	GOLDEN ACRES	T-E Y-60	A B . .	PIONEER	8855	. . . D
DAHLGREN	DG-1707	A . . .	GOLDEN HARVEST	H-444W	A . . .	S-BRAND	SM69	A B . .
DAHLGREN	DG-1699	A . . .	GOLDEN HARVEST	H-388W	. B . .	S-BRAND	SM74	A . . .
DEKALB-PFIZER	DK-40Y	. B . .	HORIZON	114G	A . . .	SUPER CROST	SC 30	A . . .
DEKALB-PFIZER	X-828	. . . D	HORIZON	213Y	A B . .	SUPER CROST	SC 28	A . . .
DEKALB-PFIZER	X-928	. . . D	HORIZON	45G	. B . .	TRIUMPH	TR 56yG	. B . .
DEKALB-PFIZER	X-950	. B . .	HYPERFORMER	HONCHO	A . . .	TRIUMPH	TR 50yG	. B . .
DEKALB-PFIZER	DK-40	. B . .	HYPERFORMER	HSC CHEROKEE	A . . .	TRIUMPH	TR 74CR	A . . .
DEKALB-PFIZER	DK-56	A . . .	HYPERFORMER	HSC WINGS	A . . .	TRIUMPH	TR 65-G	A . . .
DEKALB-PFIZER	DK-39Y	. B C .	HYPERFORMER	HSC 1289C	A . . .	TRIUMPH	TR 52 Y	. B . .
DEKALB-PFIZER	DK-48	A . . .	JACQUES	311	. . C .	TRIUMPH	TWO 80-D	A . . .
DEKALB-PFIZER	DK-41Y	A . . .	JACQUES	377-W	. . C .	WILSON	EXP835	A . . .
FONTANELLE	G-4455	A . C .	JACQUES	411	A . . .	-----	N122 X TX430	A B C .
FONTANELLE	G-5590	A . . .	JACQUES	606E	A . . .	-----	SRA X M3176667	. . . D
FONTANELLE	GE-5571	A . . .	NORTHRUP KING	KS555Y	A B C .	-----	455A X M317667	. . . D
FONTANELLE	GE-4457	. . C .	NORTHRUP KING	2030	. B . .	-----	MARTIN	A B C .
FONTANELLE	W-5000	A B . .	NORTHRUP KING	KS737	A . . .	-----	NB505	. B C D
FUNK'S	G-1616	A . . .	NORTHRUP KING	KS714Y	A . . .	-----	RS626	A B C .

* Zone A = Southeast, Zone B = Southwest, Zone C = West Central, Zone D = West

Table D. Grain sorghum. Average performance at each test location. 1990.

Location	Planted	Planting to bloom days	Plant height inches	Head exsertion inches	Test weight lb/bu	Grain yield bu/A	Maturity yield correlation r ¹
Southeast (67 entries)							
Gage (dryland)	May 29	80	47	5	60.5	87	0.10
Saunders (dryland)	May 29	79	49	6	60.7	101	0.31**
Adams (dryland)	June 5	--	49	5	55.7	106	----
Clay (irrigated)	May 25	74	49	6	55.6	150	0.26*
Average 4 tests	-----	78.0	48.5	5.5	58.1	111.0	0.22
Southwest (42 entries)							
Frontier (ecofallow)	May 18	--	40	--	60.5	78	----
Dundy (ecofallow)	May 16	--	37	--	55.4	53	----
Average 2 tests	-----	--	38.5	--	58.0	65.5	----
West Central (22 entries)							
Lincoln (ecofallow)	May 30	73	--	--	52.4	41	0.39
Perkins (ecofallow)	May 16	--	45	--	53.7	43	----
Average 2 tests	-----	73.0	45.0	--	53.1	42.0	0.39
West (12 entries)							
Cheyenne (black ecofallow)	June 5	73	40	--	53.6	47	-0.57
Cheyenne (ecofallow)	June 5	73	30	--	53.1	29	-0.53
Average 2 tests	-----	73.0	35.0	--	53.4	38.0	-0.55

¹ 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.

Table E. Average performance by years. Entries common over years by zones.
Five years. 1986–1990

Zone and year	Planting to bloom days	Plant height inches	Head exsertion inches	Early-grain moisture %	Stalk lodging %	Test weight bu/A	Grain yield bu/A
Southeast (5 entries)							
1986	68.7	49.7	3.8	20.8	4.8	58.5	145.3
1987	64.0	47.9	4.3	36.0	----	59.9	131.1
1988	73.6	44.7	1.8	49.0	6.7	34.6	103.6
1989	45.2	49.0	4.4	----	28.2	58.1	110.6
1990	78.3	48.9	5.8	15.8	24.1	57.8	108.4
Five-year average	66.0	48.0	4.0	24.3	12.8	53.8	119.8
West Central (6 entries)							
1986	66.8	43.8	----	15.6	0.3	56.7	98.5
1987	65.2	----	----	----	9.8	55.2	62.0
1988	71.3	42.5	----	----	----	60.2	139.5
1989	16.8	46.2	----	----	9.6	49.6	40.0
1990	----	39.2	----	14.3	1.2	57.3	60.6
Five-year average	55.0	42.9	----	15.0	5.2	55.8	80.1
West (1 entries)							
1986	74.0	42.0	----	17.0	12.0	53.1	47.0
1987	73.0	38.0	----	11.0	----	57.8	67.0
1988	68.0	41.0	----	----	----	57.7	54.0
1989	74.0	44.0	----	----	----	43.9	18.0
1990	78.0	39.0	----	14.0	7.5	54.4	30.0
Five-year average	73.4	40.8	----	14.0	9.8	53.4	43.2

Table 1. Southeast Dryland Sorghum Performance Test.
Gage County. 1990.

BRAND	HYBRID	PLANT BLOOM DAYS	PLAN HT IN	HEAD EXSER IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGH LB/BU	GRAIN YIELD BU/A	SEEDS PER POUND
S-BRAND	SM69	77	50	4	15	24	60.0	104	16300
GARRISON SEED	SG-932	81	49	4	14	9	60.6	103	18500
JACQUES	606E	78	48	5	14	5	60.6	100	20200
FUNK'S	G-1616	82	50	4	15	2	60.2	100	17900
DEKALB Plant Gen	DK-56	84	51	5	16	5	61.3	99	20300
GOLDEN ACRES	T-E Y-77	81	48	4	14	7	60.4	99	17800
WILSON	EXP835	81	52	7	15	0	61.1	97	15400
CARGILL	X15277	81	48	5	15	3	61.1	95	17600
CARGILL	575	79	47	6	14	4	60.4	95	21100
ORO	BARON	81	49	5	15	19	61.2	94	19700
DEKALB Plant Gen	DK-41Y	80	46	6	15	1	61.1	94	21100
CARGILL	847	80	47	5	14	52	60.9	94	21000
FUNK'S	G-6006X	82	53	8	15	1	61.0	93	18300
FUNK'S	G-1655	80	47	4	15	6	61.1	93	19400
ORO	G XTRA	81	48	4	15	13	60.3	93	17700
ASGROW	OSAGE	80	50	6	14	36	60.3	93	20000
NORTHRUP KING	KS737	78	47	5	14	40	60.7	92	25200
ARROW SEED	AS 512G	79	50	5	14	29	61.0	92	19500
OHLDE	140W	81	48	7	15	1	60.5	92	19400
GOLDEN HARVEST	H-444W	85	48	5	15	5	60.9	91	18500
GOLDEN ACRES	T-E 76	79	44	4	14	14	60.0	91	19600
PIONEER	8500	80	47	6	14	0	60.8	91	19600
ASGROW	GS712	80	47	4	14	17	60.5	91	20900
SUPER CROST	SC 28	80	42	6	15	1	60.6	91	17300
ASGROW	TOPAZ	81	47	6	14	6	61.2	91	19400
PIONEER	8379	80	44	4	15	1	61.4	90	16900
TRIUMPH	TR 65-G	80	48	5	14	31	60.5	89	20600
GOLDEN ACRES	T-E X490	80	47	6	15	1	60.2	89	21200
NORTHRUP KING	KS555Y	77	48	5	14	14	61.0	89	21700
TRIUMPH	TWO 80-D	80	47	4	15	30	60.5	89	19500
HORIZON	213Y	80	48	7	14	3	60.3	89	19800
AGRIPRO	AP9830	80	50	6	14	6	59.7	88	17600
GOLDEN ACRES	T-E Y-60	79	46	5	15	15	59.5	87	20300
HORIZON	114G	78	47	5	14	14	60.0	87	18100
HYPERFORMER	HSC WINGS	80	45	4	14	24	60.5	87	19100
PIONEER	8358	81	45	5	15	0	61.0	86	20300
CARGILL	630	77	45	6	14	3	60.3	86	20700
GOLDEN ACRES	T-E Y-75	80	50	6	14	28	61.1	86	22200
FONTANELLE	GE-5571	80	48	6	14	21	61.0	86	20800
DEKALB Plant Gen	DK-48	81	45	5	15	13	60.6	86	21300

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Table 1. Southeast Dryland Sorghum Performance Test.
Gage County. 1990. Page 2.

BRAND	HYBRID	PLANT BLOOM DAYS	PLAN HT IN	HEAD EXSER IN	EARLY MOIST PCT	STALK LODG PCT	TEST WEIGH LB/BU	GRAIN YIELD BU/A	SEEDS PER POUND	
-----	N122 X TX430	77	47	6	14	1	60.5	85	21500	
HYPERFORMER	HSC CHEROKEE	80	48	5	14	37	61.2	85	21900	
ASGROW	XP5049	81	46	6	15	3	60.4	85	18900	
TRIUMPH	TR 74CR	82	47	5	14	17	60.2	85	20500	
S-BRAND	SM74	82	47	5	15	6	60.5	85	18100	
FONTANELLE	W-5000	81	48	6	15	0	59.9	84	19200	
NORTHRUP KING	KS714Y	79	47	6	14	1	60.6	84	25400	
HYPERFORMER	HONCHO	78	44	6	14	6	60.6	84	19900	
GERMAIN'S SEEDS	GS-1010	79	47	4	14	23	60.5	84	20100	
DAHLGREN	DG-1699	80	49	7	14	1	60.4	83	21500	
GARRISON SEED	SG-822	80	46	6	14	1	60.3	83	22700	
NORTHRUP KING	KS710	80	44	5	15	1	61.4	82	23800	
SUPER CROST	SC 30	82	46	6	15	1	60.7	82	18500	
OHLDE	EX8148	80	43	3	14	16	60.1	82	22400	
HYPERFORMER	HSC 1289C	82	46	6	15	1	60.1	82	20900	
DAHLGREN	DG-40B	81	42	5	15	1	60.7	81	19000	
CARGILL	607E	79	42	5	14	1	58.9	80	23400	
ARROW SEED	AS 423	80	48	7	14	0	60.0	80	22400	
CARGILL	70	81	43	5	15	12	60.3	80	20200	
JACQUES	411	78	45	5	14	12	60.5	80	20600	
FONTANELLE	G-5590	80	46	4	14	25	60.5	80	20500	
FONTANELLE	G-4455	79	50	7	15	3	59.8	79	18200	
OHLDE	139A	79	44	5	14	13	60.3	76	18000	
CARGILL	618Y	77	43	6	14	3	60.3	76	20400	
DAHLGREN	DG-1707	81	47	6	14	20	60.9	74	19400	
-----	RS626	79	46	6	14	9	58.7	73	20900	
-----	MARTIN	81	45	8	14	2	60.1	56	18200	
AVERAGE ALL ENTRIES		80	47	5	14	11	60.5	87	19950	
DIF. REQ. FOR SIG.		5%	2.5	2.5	1.2	0.7	19.6	0.6	15.0	3270
		25%	1.5	1.4	0.7	0.4	11.5	0.4	8.8	1890

Table 2. Southeast Dryland Sorghum Performance Test.
Saunders County. 1990.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGH LB/BU	GRAIN YIELD BU/A	SEEDS PER POUND
FUNK'S	G-1616	83	52	5	20	3	59.9	122	16600
FONTANELLE	W-5000	79	50	6	17	1	60.5	121	19100
WILSON	EXP835	81	52	6	19	1	60.6	121	16000
GOLDEN ACRES	T-E 76	79	48	5	17	7	60.3	117	18800
GARRISON SEED	SG-932	80	50	5	17	7	60.3	116	18500
FONTANELLE	G-5590	80	50	5	18	1	60.4	115	17400
JACQUES	606E	81	50	6	19	1	60.4	115	17900
GOLDEN ACRES	T-E Y-77	80	50	5	17	6	60.6	114	17500
DEKALB Plant Gn	DK-56	85	53	6	20	5	61.3	114	19300
AGRIPRO	AP9830	81	51	7	17	2	60.1	114	18600
ORO	G XTRA	80	51	5	17	9	60.4	112	18700
-----	N122 X TX430	79	50	6	17	2	61.1	112	19100
TRIUMPH	TWO 80-D	80	51	4	18	13	60.6	112	18000
GARRISON SEED	SG-822	79	50	7	18	0	61.0	111	19500
S-BRAND	SM74	81	49	5	18	2	60.5	111	17600
ASGROW	OSAGE	80	50	6	17	12	61.0	111	18600
PIONEER	8500	78	47	6	16	1	61.6	111	19600
OHLDE	140W	80	51	7	17	1	61.1	110	18900
FUNK'S	G-6006X	82	56	7	19	1	60.9	110	15600
SUPER CROST	SC 30	80	49	7	18	0	60.8	108	19600
ASGROW	XP5049	81	50	7	18	2	61.0	107	17400
CARGILL	X15277	81	51	5	18	2	61.0	106	18500
HORIZON	213Y	79	50	7	18	1	60.7	106	19300
CARGILL	630	79	47	5	18	1	60.8	106	18400
HYPERFORMER	HSC 1289C	79	51	7	17	1	60.5	105	19300
ORO	BARON	79	51	5	16	3	61.4	105	19100
HYPERFORMER	HSC WINGS	79	49	5	17	25	60.1	105	18800
HORIZON	114G	77	49	5	18	9	60.5	104	15500
GOLDEN ACRES	T-E Y-60	78	48	5	17	11	60.4	104	18500
PIONEER	8358	80	48	6	18	1	61.5	104	19500
TRIUMPH	TR 65-G	81	50	5	17	6	61.1	104	19100
DAHLGREN	DG-1707	79	50	5	17	6	61.5	103	18400
CARGILL	847	79	51	6	17	18	61.5	103	18600
DEKALB Plant Gn	DK-41Y	81	48	6	18	1	60.9	103	19600
FUNK'S	G-1655	81	49	5	18	1	61.1	102	19500
ARROW SEED	AS 423	79	50	7	18	2	60.7	101	19000
CARGILL	618Y	76	46	5	17	1	60.8	100	17100
OHLDE	EX8148	80	48	5	17	4	60.0	99	18500
PIONEER	8379	79	46	5	18	2	60.9	98	18200
ASGROW	GS712	81	49	5	18	8	60.5	98	17000

CONTINUED

Table 2. Southeast Dryland Sorghum Performance Test.
Saunders County. 1990. Page 2.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGH LB/BU	GRAIN YIELD BU/A	SEEDS PER POUND	
S-BRAND	SM69	77	50	5	18	17	60.9	98	16000	
TRIUMPH	TR 74CR	82	50	6	18	16	60.9	97	20500	
GERMAIN'S SEED	GS-1010	81	50	5	18	8	60.6	97	18700	
ASGROW	TOPAZ	79	50	6	17	13	61.8	96	18100	
CARGILL	575	79	50	6	17	1	61.1	96	19900	
NORTHRUP KING	KS714Y	78	48	6	17	1	60.9	96	21700	
DAHLGREN	DG-40B	77	45	6	16	5	60.7	95	19500	
GOLDEN ACRES	T-E Y-75	80	50	5	17	8	61.3	95	21100	
OHLDE	139A	78	49	6	18	3	60.2	95	17600	
HYPERFORMER	HSC CHEROKEE	78	52	6	17	16	61.8	95	19600	
NORTHRUP KING	KS555Y	78	50	6	17	6	61.6	94	20400	
-----	RS626	79	48	6	16	6	58.8	93	19700	
DAHLGREN	DG-1699	80	51	7	17	2	61.3	93	20500	
GOLDEN ACRES	T-E X490	79	49	6	17	1	60.7	92	20200	
GOLDEN HARVEST	H-444W	83	51	5	18	9	60.8	92	19400	
FONTANELLE	GE-5571	79	50	5	17	7	61.5	91	18300	
ARROW SEED	AS 512G	79	51	6	16	30	61.2	90	19100	
JACQUES	411	78	48	6	16	7	60.8	89	18000	
HYPERFORMER	HONCHO	77	46	6	17	6	60.1	88	17600	
CARGILL	70	78	46	6	17	2	60.2	86	19300	
FONTANELLE	G-4455	76	50	6	16	25	60.5	83	19800	
SUPER CROST	SC 28	78	46	5	17	1	60.8	80	18100	
NORTHRUP KING	KS710	76	45	6	16	13	60.6	77	22200	
DEKALB Plant Gn	DK-48	82	48	5	19	6	60.7	77	20900	
NORTHRUP KING	KS737	77	50	6	18	35	60.4	72	22700	
CARGILL	607E	79	45	5	18	7	59.7	70	20800	
-----	MARTIN	82	47	6	15	8	59.5	67	20300	
AVERAGE ALL ENTIES		79	49	6	17	6	60.7	101	18840	
DIF. REQ. FOR SIG.		5%	1.6	1.8	0.9	1.2	13.1	0.8	24.4	2020
		25%	1.0	1.1	0.5	0.7	7.7	0.5	14.3	1170

**Table 3. Southeast Irrigated Sorghum Performance Test.
Clay County. 1990.**

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
FUNK'S	G-6006X	75	59	11	15	54.9	179
FUNK'S	G-1616	76	55	7	16	52.2	174
DEKALB Plant Gen	DK-56	77	55	9	18	56.4	174
GOLDEN ACRES	T-E Y-75	75	52	6	16	56.0	168
S-BRAND	SM69	75	53	6	16	56.5	167
NORTHRUP KING	KS737	73	48	6	16	55.0	167
JACQUES	606E	76	52	5	15	54.0	167
GOLDEN ACRES	T-E Y-77	76	54	6	16	53.5	167
HYPERFORMER	HSC WINGS	76	53	5	17	53.5	166
CARGILL	X15277	76	52	6	16	54.1	165
TRIUMPH	TWO 80-D	76	52	6	17	53.2	162
CARGILL	847	74	50	5	16	56.4	161
ASGROW	OSAGE	75	52	6	17	55.2	160
FONTANELLE	GE-5571	74	50	5	16	56.7	159
GARRISON SEED	SG-932	76	50	5	16	56.0	159
GERMAIN'S SEEDS	GS-1010	76	50	6	17	54.5	159
ORO	BARON	76	53	6	16	56.3	158
ARROW SEED	AS 512G	75	52	5	15	56.2	158
ORO	G XTRA	76	50	5	16	54.7	157
PIONEER	8358	76	47	6	17	57.5	157
FONTANELLE	G-5590	76	50	6	17	54.1	157
NORTHRUP KING	KS714Y	73	46	8	15	56.5	156
DEKALB Plant Gen	DK-48	75	48	8	17	56.6	156
TRIUMPH	TR 65-G	74	51	6	15	55.7	155
TRIUMPH	TR 74CR	75	49	8	17	56.4	154
DAHLGREN	DG-1707	75	50	6	16	56.6	154
HYPERFORMER	HSC CHEROKEE	74	47	6	16	56.2	154
OHLDE	EX8148	76	46	4	16	52.5	153
ASGROW	TOPAZ	76	51	7	16	56.6	152
GOLDEN ACRES	T-E 76	75	47	4	16	52.1	152
OHLDE	139A	75	47	6	16	53.9	152
NORTHRUP KING	KS555Y	70	50	6	14	57.4	152
FUNK'S	G-1655	74	48	5	16	57.1	151
GOLDEN HARVEST	H-444W	77	52	7	16	56.1	150
NORTHRUP KING	KS710	72	44	5	16	55.7	148
CARGILL	70	75	44	6	17	55.2	148
ASGROW	XP5049	75	46	9	15	55.8	147
JACQUES	411	74	46	6	15	56.1	146
WILSON	EXP835	74	52	9	15	54.9	146
PIONEER	8379	74	43	6	16	57.0	144

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Table 3. Southeast Irrigated Sorghum Performance Test.
Clay County. 1990. Page 2.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
S-BRAND	SM74	76	51	5	16	56.3	144
ASGROW	GS712	76	51	5	16	54.5	144
ARROW SEED	AS 423	75	49	8	16	56.7	143
PIONEER	8500	69	46	6	15	56.1	143
FONTANELLE	G-4455	69	49	8	14	56.5	143
AGRIPRO	AP9830	77	51	7	15	55.0	143
HORIZON	114G	76	50	6	18	53.9	142
HYPERFORMER	HSC 1289C	75	46	7	15	56.5	142
CARGILL	575	76	48	10	16	56.1	142
DAHLGREN	DG-40B	75	44	7	17	55.0	141
SUPER CROST	SC 28	75	45	6	17	56.0	141
-----	N122 X TX430	74	48	7	14	56.2	140
DEKALB Plant Gen	DK-41Y	75	45	6	16	54.6	139
GOLDEN ACRES	T-E Y-60	72	48	8	15	56.0	139
DAHLGREN	DG-1699	75	47	8	15	56.5	139
CARGILL	630	68	44	6	15	56.9	138
HORIZON	213Y	75	48	7	15	55.9	138
-----	RS626	68	46	6	14	54.9	137
GOLDEN ACRES	T-E X490	74	47	7	15	57.4	137
SUPER CROST	SC 30	78	48	7	17	55.5	135
FONTANELLE	W-5000	76	49	9	16	56.0	134
CARGILL	607E	70	42	7	14	54.8	131
CARGILL	618Y	70	44	7	14	56.1	130
GARRISON SEED	SG-822	76	48	8	16	57.0	130
OHLDE	140W	76	48	8	16	56.3	128
-----	MARTIN	75	48	10	14	55.8	102
AVERAGE ALL ENTRIES		74	49	6	16	55.6	150
DIF. REQ. FOR SIG.							
	5%	1.3	2.7	2.0	0.8	1.7	17.3
	25%	0.8	1.6	1.2	0.4	1.0	10.1

Table 4. Southeast Dryland Sorghum Performance Test.
Adams County. 1990.

BRAND	HYBRID	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
WILSON	EXP835	52	10	16	20	56.0	122
PIONEER	8379	45	5	16	4	56.2	121
FUNK'S	G-6006X	56	9	16	78	54.7	121
DEKALB Plant Gen	DK-56	55	7	17	48	55.1	119
JACQUES	606E	53	4	15	60	56.0	118
GOLDEN HARVEST	H-444W	51	6	17	16	55.5	118
FUNK'S	G-1616	54	4	16	40	54.3	114
OHLDE	140W	50	6	16	9	55.4	114
S-BRAND	SM69	51	5	14	63	56.4	113
CARGILL	X15277	51	4	16	33	55.4	113
NORTHRUP KING	KS737	50	6	16	36	54.8	112
NORTHRUP KING	KS714Y	49	5	15	5	56.0	112
GARRISON SEED	SG-932	50	3	15	65	55.8	112
GOLDEN ACRES	T-E Y-75	52	6	15	88	56.6	112
FONTANELLE	G-5590	49	6	15	64	55.3	111
GOLDEN ACRES	T-E Y-77	51	5	16	74	54.6	110
DEKALB Plant Gen	DK-48	47	5	16	24	56.3	110
PIONEER	8358	48	6	16	25	56.2	110
ASGROW	OSAGE	51	4	15	54	55.9	109
S-BRAND	SM74	50	4	15	60	56.2	109
TRIUMPH	TR 74CR	51	5	17	24	55.4	109
GOLDEN ACRES	T-E 76	46	3	15	19	54.3	108
CARGILL	575	50	6	16	9	55.6	108
DAHLGREN	DG-40B	46	6	16	4	55.1	108
ASGROW	GS712	50	3	15	81	56.2	108
GERMAIN'S SEEDS	GS-1010	49	5	15	68	55.8	108
-----	N122 X TX430	49	5	14	8	56.2	108
HORIZON	213Y	49	5	16	5	55.6	107
HYPERSFORMER	HSC WINGS	49	4	16	54	55.5	107
FUNK'S	G-1655	48	4	15	26	56.6	107
ASGROW	XP5049	50	7	16	40	56.1	107
OHLDE	139A	48	4	15	20	55.1	107
GARRISON SEED	SG-822	48	6	16	10	56.1	107
HORIZON	114G	49	5	17	20	55.6	106
ARROW SEED	AS 512G	51	5	14	76	56.9	106
ASGROW	TOPAZ	48	4	14	56	55.8	106
OHLDE	EX8148	45	3	14	53	54.7	106
DAHLGREN	DG-1699	51	6	15	14	56.0	106
HYPERSFORMER	HSC 1289C	49	6	16	4	55.5	105
PIONEER	8500	48	7	15	43	56.9	104
CONTINUED							

Table 4. Southeast Dryland Sorghum Performance Test.
Adams County. 1990. Page 2.

BRAND	HYBRID	PLANT	HEAD	EARLY	STALK	TEST	GRAIN	
		HT IN	EXSERT IN	MOIST PCT	LODGE PCT	WEIGHT LB/BU	YIELD BU/A	
TRIUMPH	TWO 80-D	50	5	16	60	55.7	104	
GOLDEN ACRES	T-E X490	51	5	16	14	55.1	104	
CARGILL	630	47	5	15	19	56.8	103	
ORO	BARON	50	6	15	83	56.2	103	
CARGILL	847	52	4	14	91	56.8	103	
FONTANELLE	W-5000	49	6	16	11	56.0	103	
SUPER CROST	SC 28	45	5	15	10	55.0	103	
JACQUES	411	48	5	14	10	56.2	103	
TRIUMPH	TR 65-G	51	4	15	74	56.1	103	
HYPERFORMER	HSC CHEROKEE	49	5	15	40	55.4	103	
ARROW SEED	AS 423	50	7	15	9	55.9	103	
CARGILL	607E	45	6	15	0	54.1	102	
NORTHRUP KING	KS555Y	50	5	15	43	57.0	102	
GOLDEN ACRES	T-E Y-60	48	6	16	23	55.6	102	
FONTANELLE	GE-5571	52	5	15	71	56.4	102	
NORTHRUP KING	KS710	46	5	14	11	56.0	102	
DAHLGREN	DG-1707	51	6	15	69	56.2	101	
AGRIPRO	AP9830	52	5	14	50	55.5	100	
CARGILL	70	46	5	15	13	55.3	99	
ORO	G XTRA	50	4	14	79	56.0	99	
DEKALB Plant Gen	DK-41Y	49	6	16	15	55.7	97	
CARGILL	618Y	47	6	14	8	55.6	96	
SUPER CROST	SC 30	50	6	17	11	54.9	94	
FONTANELLE	G-4455	51	7	14	91	55.3	91	
-----	RS626	49	6	14	71	53.3	86	
-----	MARTIN	49	8	14	36	54.9	59	
AVERAGE ALL ENTRIES		49	5	15	38	55.7	106	
DIF. REQ. FOR SIG.		5%	2.0	1.9	1.1	26.4	1.1	14.3
		25%	1.2	1.1	0.7	15.5	0.6	8.4

Table 5. Southeast Dryland Sorghum Performance Tests.
Gage and Saunders Counties. 1990.

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	SEEDS PER POUND
FUNK'S	G-1616	83	51	5	18	3	60.1	111	17300
GARRISON SEED	SG-932	81	50	5	16	8	60.5	110	18500
WILSON	EXP835	81	52	7	17	1	60.9	109	15700
JACQUES	606E	80	49	6	17	3	60.5	108	19100
GOLDEN ACRES	T-E Y-77	81	49	5	16	7	60.5	107	17700
DEKALB Plant Gen	DK-56	85	52	6	18	5	61.3	107	19800
GOLDEN ACRES	T-E 76	79	46	5	16	11	60.2	104	19200
FONTANELLE	W-5000	80	49	6	16	1	60.2	103	19200
ORO	G XTRA	81	50	5	16	11	60.4	103	18200
ASGROW	OSAGE	80	50	6	16	24	60.7	102	19300
FUNK'S	G-6006X	82	55	8	17	1	61.0	102	17000
TRIUMPH	TWO 80-D	80	49	4	17	22	60.6	101	18800
AGRIPRO	AP9830	81	51	7	16	4	59.9	101	18100
CARGILL	X15277	81	50	5	17	3	61.1	101	18100
S-BRAND	SM69	77	50	5	17	21	60.5	101	16200
OHLDE	140W	81	50	7	16	1	60.8	101	19200
PIONEER	8500	79	47	6	15	1	61.2	101	19600
ORO	BARON	80	50	5	16	11	61.3	100	19400
-----	N122 X TX430	78	49	6	16	2	60.8	99	20300
CARGILL	847	80	49	6	16	35	61.2	99	19800
DEKALB Plant Gen	DK-41Y	81	47	6	17	1	61.0	99	20400
FONTANELLE	G-5590	80	48	5	16	13	60.5	98	19000
S-BRAND	SM74	82	48	5	17	4	60.5	98	17900
FUNK'S	G-1655	81	48	5	17	4	61.1	98	19500
HORIZON	213Y	80	49	7	16	2	60.5	98	19600
TRIUMPH	TR 65-G	81	49	5	16	19	60.8	97	19900
GARRISON SEED	SG-822	80	48	7	16	1	60.7	97	21100
ASGROW	XP5049	81	48	7	17	3	60.7	96	18200
HYPERFORMER	HSC WINGS	80	47	5	16	25	60.3	96	19000
GOLDEN ACRES	T-E Y-60	79	47	5	16	13	60.0	96	19400
CARGILL	630	78	46	6	16	2	60.6	96	19600
CARGILL	575	79	49	6	16	3	60.8	96	20500
HORIZON	114G	78	48	5	16	12	60.3	96	16800
ASGROW	GS712	81	48	5	16	13	60.5	95	19000
SUPER CROST	SC 30	81	48	7	17	1	60.8	95	19100
PIONEER	8358	81	47	6	17	1	61.3	95	19900
ASGROW	TOPAZ	80	49	6	16	10	61.5	94	18800
PIONEER	8379	80	45	5	17	2	61.2	94	17600
HYPERFORMER	HSC 1289C	81	49	7	16	1	60.3	94	20100
GOLDEN HARVEST	H-444W	84	50	5	17	7	60.9	92	19000
NORTHRUP KING	KS555Y	78	49	6	16	10	61.3	92	21100
ARROW SEED	AS 423	80	49	7	16	1	60.4	91	20700
ARROW SEED	AS 512G	79	51	6	15	30	61.1	91	19300
OHLDE	EX8148	80	46	4	16	10	60.1	91	20500
GOLDEN ACRES	T-E Y-75	80	50	6	16	18	61.2	91	21700

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Table 5. Southeast Dryland Sorghum Performance Tests.
Gage and Saunders Counties. 1990. Page 2.

BRAND	HYBRID	BLOOM PLANT DAYS	HT PLANT IN	EXSERT HEAD IN	MOIST EARLY PCT	LODGE STALK PCT	WEIGHT TEST LB/BU	YIELD GRAIN BU/A	PER SEEDS POUND
TRIUMPH	TR 74CR	82	49	6	16	17	60.6	91	20500
GERMAIN'S SEEDS	GS-1010	80	49	5	16	16	60.6	91	19400
GOLDEN ACRES	T-E X490	80	48	6	16	1	60.5	91	20700
NORTHRUP KING	KS714Y	79	48	6	16	1	60.8	90	23600
HYPERFORMER	HSC CHEROKEE	79	50	6	16	27	61.5	90	20800
FONTANELLE	GE-5571	80	49	6	16	14	61.3	89	19600
DAHLGREN	DG-1707	80	49	6	16	13	61.2	89	18900
DAHLGREN	DG-40B	79	44	6	16	3	60.7	88	19300
CARGILL	618Y	77	45	6	16	2	60.6	88	18800
DAHLGREN	DG-1699	80	50	7	16	2	60.9	88	21000
HYPERFORMER	HONCHO	78	45	6	16	6	60.4	86	18800
SUPER CROST	SC 28	79	44	6	16	1	60.7	86	17700
OHLDE	139A	79	47	6	16	8	60.3	86	17800
JACQUES	411	78	47	6	15	10	60.7	85	19300
-----	RS626	79	47	6	15	8	58.8	83	20300
CARGILL	70	80	45	6	16	7	60.3	83	19800
DEKALB Plant Gen	DK-48	82	47	5	17	10	60.7	82	21100
NORTHRUP KING	KS737	78	49	6	16	38	60.6	82	24000
FONTANELLE	G-4455	78	50	7	16	14	60.2	81	19000
NORTHRUP KING	KS710	78	45	6	16	7	61.0	80	23000
CARGILL	607E	79	44	5	16	4	59.3	75	22100
-----	MARTIN	82	46	7	15	5	59.8	62	19300
AVERAGE ALL ENTRIES		80	48	5	16	9	60.6	94	19395
DIF. REQ. FOR SIG.									
	5%	1.5	1.5	0.7	0.7	11.7	0.5	14.2	1350
	25%	0.9	0.9	0.4	0.4	6.9	0.3	8.4	790

Table 6. Southeast Irrigated and Dryland Sorghum Performance Tests. Clay and Adams Counties. 1990.

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	G-6006X	75	58	10	16	78	54.8	150
DEKALB Plant Gen	DK-56	77	55	8	18	48	55.8	147
FUNK'S	G-1616	76	55	6	16	40	53.3	144
JACQUES	606E	76	53	5	15	60	55.0	143
NORTHRUP KING	KS737	73	49	6	16	36	54.9	140
S-BRAND	SM69	75	52	6	15	63	56.5	140
GOLDEN ACRES	T-E Y-75	75	52	6	16	88	56.3	140
GOLDEN ACRES	T-E Y-77	76	53	6	16	74	54.1	139
CARGILL	X15277	76	52	5	16	33	54.8	139
HYPERFORMER	HSC WINGS	76	51	5	17	54	54.5	137
GARRISON SEED	SG-932	76	50	4	16	65	55.9	136
ASGROW	OSAGE	75	52	5	16	54	55.6	135
FONTANELLE	G-5590	76	50	6	16	64	54.7	134
NORTHRUP KING	KS714Y	73	48	7	15	5	56.3	134
PIONEER	8358	76	48	6	17	25	56.9	134
GOLDEN HARVEST	H-444W	77	52	7	17	16	55.8	134
GERMAIN'S SEEDS	GS-1010	76	50	6	16	68	55.2	134
WILSON	EXP835	74	52	10	16	20	55.5	134
TRIUMPH	TWO 80-D	76	51	6	17	60	54.5	133
PIONEER	8379	74	44	6	16	4	56.6	133
DEKALB Plant Gen	DK-48	75	48	7	17	24	56.5	133
CARGILL	847	74	51	5	15	91	56.6	132
ARROW SEED	AS 512G	75	52	5	15	76	56.6	132
TRIUMPH	TR 74CR	75	50	7	17	24	55.9	132
ORO	BARON	76	52	6	16	83	56.3	131
FONTANELLE	GE-5571	74	51	5	16	71	56.6	131
GOLDEN ACRES	T-E 76	75	47	4	16	19	53.2	130
OHLDE	EX8148	76	46	4	15	53	53.6	130
OHLDE	139A	75	48	5	16	20	54.5	130
FUNK'S	G-1655	74	48	5	16	26	56.9	129
TRIUMPH	TR 65-G	74	51	5	15	74	55.9	129
ASGROW	TOPAZ	76	50	6	15	56	56.2	129
HYPERFORMER	HSC CHEROKEE	74	48	6	16	40	55.8	129
DAHLGREN	DG-1707	75	51	6	16	69	56.4	128
ORO	G XTRA	76	50	5	15	79	55.4	128
ASGROW	XP5049	75	48	8	16	40	56.0	127
NORTHRUP KING	KS555Y	70	50	6	15	43	57.2	127
S-BRAND	SM74	76	51	5	16	60	56.3	127
ASGROW	GS712	76	51	4	16	81	55.4	126
DAHLGREN	DG-40B	75	45	7	17	4	55.1	125
CONCLUDED								

Table 6. Southeast Irrigated and Dryland Sorghum Performance Tests. Clay and Adams Counties. 1990. Page 2.

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
JACQUES	411	74	47	6	15	10	56.2	125
NORTHRUP KING	KS710	72	45	5	15	11	55.9	125
CARGILL	575	76	49	8	16	9	55.9	125
PIONEER	8500	69	47	7	15	43	56.5	124
HYPERSFORMER	HSC 1289C	75	48	7	16	4	56.0	124
-----	N122 X TX430	74	49	6	14	8	56.2	124
CARGILL	70	75	45	6	16	13	55.3	124
HORIZON	114G	76	50	6	18	20	54.8	124
DAHLGREN	DG-1699	75	49	7	15	14	56.3	123
ARROW SEED	AS 423	75	50	8	16	9	56.3	123
HORIZON	213Y	75	49	6	16	5	55.8	123
SUPER CROST	SC 28	75	45	6	16	10	55.5	122
AGRIPRO	AP9830	77	52	6	15	50	55.3	122
GOLDEN ACRES	T-E X490	74	49	6	16	14	56.3	121
OHLDE	140W	76	49	7	16	9	55.9	121
GOLDEN ACRES	T-E Y-60	72	48	7	16	23	55.8	121
CARGILL	630	68	46	6	15	19	56.9	121
GARRISON SEED	SG-822	76	48	7	16	10	56.6	119
FONTANELLE	W-5000	76	49	8	16	11	56.0	119
DEKALB Plant Gen	DK-41Y	75	47	6	16	15	55.2	118
FONTANELLE	G-4455	69	50	8	14	91	55.9	117
CARGILL	607E	70	44	7	15	0	54.5	117
SUPER CROST	SC 30	78	49	7	17	11	55.2	115
CARGILL	618Y	70	46	7	14	8	55.9	113
-----	RS626	68	48	6	14	71	54.1	112
-----	MARTIN	75	49	9	14	36	55.4	81
AVERAGE ALL ENTRIES		74	49	6	16	38	55.6	128
DIF. REQ. FOR SIG.								
	5%	NS	1.7	1.4	0.7	NS	1.0	11.2
	25%	NS	1.0	0.8	0.4	NS	0.6	6.6

Table 7. Southeast District Sorghum Performance Tests.
Saunders, Gage, Clay, Adams Counties. 1990.

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	SEEDS PER POUND
FUNK'S	G-1616	80	53	5	17	15	56.7	128	17300
DEKALB Plant Gen	DK-56	82	54	7	18	19	58.5	127	19800
FUNK'S	G-6006X	80	56	9	16	27	57.9	126	17000
JACQUES	606E	78	51	5	16	22	57.8	125	19100
GARRISON SEED	SG-932	79	50	4	16	27	58.2	123	18500
GOLDEN ACRES	T-E Y-77	79	51	5	16	29	57.3	123	17700
WILSON	EXP835	79	52	8	16	7	58.2	122	15700
S-BRAND	SM69	76	51	5	16	35	58.5	121	16200
CARGILL	X15277	79	51	5	16	13	57.9	120	18100
ASGROW	OSAGE	78	51	6	16	34	58.1	118	19300
TRIUMPH	TWO 80-D	79	50	5	17	34	57.5	117	18800
GOLDEN ACRES	T-E 76	78	46	4	16	13	56.7	117	19200
HYPERFORMER	HSC WINGS	78	49	5	16	34	57.4	116	19000
FONTANELLE	G-5590	79	49	5	16	30	57.6	116	19000
GOLDEN ACRES	T-E Y-75	78	51	6	16	41	58.8	115	21700
ORO	BARON	79	51	6	16	35	58.8	115	19400
CARGILL	847	78	50	5	15	54	58.9	115	19800
ORO	G XTRA	79	50	5	16	34	57.9	115	18200
PIONEER	8358	79	47	6	17	9	59.1	114	19900
TRIUMPH	TR 65-G	78	50	5	15	37	58.4	113	19900
PIONEER	8379	78	45	5	16	2	58.9	113	17600
GOLDEN HARVEST	H-444W	82	51	6	17	10	58.3	113	19000
FUNK'S	G-1655	78	48	5	16	11	59.0	113	19500
S-BRAND	SM74	80	49	5	16	23	58.4	112	17900
NORTHRUP KING	KS714Y	77	48	6	15	2	58.5	112	23600
ARROW SEED	AS 512G	78	51	5	15	45	58.8	112	19300
GERMAIN'S SEEDS	GS-1010	79	49	5	16	33	57.9	112	19400
PIONEER	8500	76	47	6	15	15	58.9	112	19600
ASGROW	XP5049	79	48	7	16	15	58.3	112	18200
OHLDE	140W	79	49	7	16	4	58.3	111	19200
AGRIPRO	AP9830	79	51	6	15	19	57.6	111	18100
ASGROW	TOPAZ	79	49	6	15	25	58.9	111	18800
-----	N122 X TX430	77	49	6	15	4	58.5	111	20300
TRIUMPH	TR 74CR	80	49	6	17	19	58.2	111	20500
FONTANELLE	W-5000	79	49	7	16	4	58.1	111	19200
NORTHRUP KING	KS737	76	49	6	16	37	57.7	111	24000
ASGROW	GS712	79	49	4	16	35	57.9	110	19000
HORIZON	213Y	78	49	7	16	3	58.1	110	19600
CARGILL	575	78	49	7	16	5	58.3	110	20500
HORIZON	114G	77	49	5	17	14	57.5	110	16800
OHLDE	EX8148	79	46	4	15	24	56.8	110	20500
FONTANELLE	GE-5571	78	50	5	16	33	58.9	110	19600
HYPERFORMER	HSC CHEROKEE	77	49	6	16	31	58.7	109	20800
NORTHRUP KING	KS555Y	75	50	6	15	21	59.3	109	21100
HYPERFORMER	HSC 1289C	79	48	7	16	2	58.2	109	20100
GARRISON SEED	SG-822	78	48	7	16	4	58.6	108	21100

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Table 7. Southeast District Sorghum Performance Tests.
Saunders, Gage, Clay, Adams Counties. 1990. Page 2.

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	SEEDS PER POUND
DEKALB Plant Gen	DK-41Y	79	47	6	16	6	58.1	108	20400
DAHLGREN	DG-1707	78	50	6	16	32	58.8	108	18900
CARGILL	630	75	46	6	16	8	58.7	108	19600
GOLDEN ACRES	T-E Y-60	76	48	6	16	16	57.9	108	19400
OHLDE	139A	77	47	5	16	12	57.4	108	17800
ARROW SEED	AS 423	78	49	7	16	4	58.3	107	20700
DEKALB Plant Gen	DK-48	79	47	6	17	14	58.6	107	21100
GOLDEN ACRES	T-E X490	78	49	6	16	5	58.4	106	20700
DAHLGREN	DG-40B	78	44	6	16	3	57.9	106	19300
DAHLGREN	DG-1699	78	50	7	15	6	58.6	105	21000
JACQUES	411	77	47	6	15	10	58.4	105	19300
SUPER CROST	SC 30	80	48	7	17	4	58.0	105	19100
SUPER CROST	SC 28	78	45	6	16	4	58.1	104	17700
CARGILL	70	78	45	6	16	9	57.8	103	19800
NORTHRUP KING	KS710	76	45	5	15	8	58.4	102	23000
CARGILL	618Y	74	45	6	15	4	58.2	101	18800
FONTANELLE	G-4455	75	50	7	15	40	58.0	99	19000
-----	RS626	75	47	6	15	29	56.4	97	20300
CARGILL	607E	76	44	6	15	3	56.9	96	22100
HYPERFORMER	HONCHO	78	45	6	16	6	60.4	86	18800
-----	MARTIN	79	47	8	14	15	57.6	71	19300
AVERAGE ALL ENTRIES		80	49	6	16	18	58.1	111	19396
DIF. REQ. FOR SIG.									
	5%	1.1	1.1	0.8	0.5	11.7	0.6	9.0	1900
	25%	0.6	0.7	0.5	0.3	6.9	0.3	5.3	1120

Table 8. Southeast Irrigated and Dryland Sorghum Performance Tests. Gage, Saunders, Clay, and Adams Counties. 1986 - 1990.

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	SEEDS PER POUND
2 YEAR AVERAGE									
FUNK'S	G-1616	63	55	5	17	27	57.0	130	17300
S-BRAND	SM69	62	52	4	16	30	58.2	128	16200
JACQUES	606E	63	51	4	16	15	57.6	123	19100
ASGROW	OSAGE	63	51	5	16	37	58.2	123	19300
PIONEER	8379	60	45	4	16	3	59.2	122	17600
TRIUMPH	TWO 80-D	63	51	5	17	30	57.6	121	18800
PIONEER	8500	59	47	5	15	9	59.3	121	19600
ORO	BARON	63	51	4	16	49	58.4	120	19400
GOLDEN ACRES	T-E 76	62	46	3	16	10	56.6	120	19200
GOLDEN ACRES	T-E Y-77	64	51	4	16	24	56.9	119	17700
ORO	G XTRA	64	51	4	16	27	57.3	119	18200
TRIUMPH	TR 65-G	61	50	4	15	39	58.7	119	19900
GOLDEN HARVEST	H-444W	63	52	5	17	45	58.6	119	19000
FONTANELLE	G-5590	63	51	4	16	28	57.5	119	19000
FUNK'S	G-1655	61	50	4	16	18	59.5	118	19500
DEKALB Plant Gen	DK-48	61	47	5	17	12	59.0	117	21100
NORTHRUP KING	KS737	60	49	6	16	26	58.3	116	24000
PIONEER	8358	63	49	5	17	11	58.7	116	19900
NORTHRUP KING	KS714Y	61	48	6	15	11	58.7	114	23600
GOLDEN ACRES	T-E Y-60	58	51	6	16	35	58.4	114	19400
HORIZON	114G	61	50	5	17	21	57.9	113	16800
CARGILL	847	63	51	4	15	39	58.5	112	19800
DAHLGREN	DG-1707	63	50	5	16	30	58.5	112	18900
TRIUMPH	TR 74CR	62	52	6	17	46	58.7	112	20500
ASGROW	TOPAZ	63	49	5	15	18	59.1	112	18800
SUPER CROST	SC 28	61	45	5	16	4	58.2	112	17700
ASGROW	GS712	64	50	4	16	23	57.6	112	19000
WILSON	EXP835	62	50	7	16	10	58.2	111	15700
GOLDEN ACRES	T-E Y-75	62	51	5	16	31	58.5	111	21700
CARGILL	630	58	45	4	16	13	59.1	111	19600
FONTANELLE	W-5000	62	50	7	16	14	58.2	110	19200
OHLDE	139A	61	47	4	16	13	57.6	110	17800
FONTANELLE	GE-5571	63	50	4	16	31	58.6	110	19600
SUPER CROST	SC 30	62	49	7	17	20	58.3	110	19100
NORTHRUP KING	KS710	60	45	5	15	7	58.6	109	23000
GOLDEN ACRES	T-E X490	62	50	6	16	13	58.3	109	20700
DAHLGREN	DG-40B	62	45	5	16	7	58.1	109	19300
OHLDE	140W	63	49	7	16	10	58.0	107	19200
DAHLGREN	DG-1699	61	51	7	15	12	58.4	107	21000
CARGILL	70	62	44	5	16	6	58.0	106	19800
CARGILL	575	62	49	6	16	13	58.1	99	20500
-----	RS626	58	46	5	15	27	56.7	95	20300
-----	MARTIN	62	45	8	14	20	58.1	72	19300
AVERAGE ALL ENTRIES		62	49	5	16	21	58.2	113	19394
DIF. REQ. FOR SIG.		5%	0.8	0.8	0.3	NS	0.3	3.8	NS
		25%	0.5	0.5	0.2	NS	0.2	2.2	NS
3 YEAR AVERAGE									
GOLDEN ACRES	T-E Y-77	67	49	3	33	18	50.1	120	17700
TRIUMPH	TWO 80-D	67	49	3	32	21	50.5	119	18800
ORO	G XTRA	67	49	3	29	19	50.4	118	18200
FONTANELLE	G-5590	67	49	3	32	20	50.5	117	19000
ASGROW	OSAGE	66	49	4	37	27	50.4	116	19300
ORO	BARON	66	49	3	38	39	50.5	116	19400
PIONEER	8500	62	46	5	34	7	50.9	115	19600
DEKALB Plant Gen	DK-48	66	45	4	37	8	51.1	115	21100
FUNK'S	G-1655	64	48	3	36	15	51.1	114	19500
TRIUMPH	TR 74CR	67	50	5	34	31	51.6	114	20500
GOLDEN ACRES	T-E Y-60	63	49	4	33	25	50.7	113	19400
OHLDE	139A	65	46	3	34	9	50.7	111	17800
ASGROW	TOPAZ	66	47	4	34	13	51.2	111	18800
PIONEER	8358	66	46	4	38	15	50.0	111	19900
DAHLGREN	DG-40B	66	44	4	33	4	50.8	110	19300
SUPER CROST	SC 30	67	47	5	34	14	50.3	110	19100
FONTANELLE	W-5000	67	48	5	33	10	50.5	110	19200
FONTANELLE	GE-5571	65	49	3	37	30	50.3	107	19600

CONTINUED

Table 8. Southeast Irrigated and Dryland Sorghum Performance Tests. Gage, Saunders, Clay, and Adams Counties. 1986 - 1990. Page 2.

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	SEEDS PER POUND
GOLDEN ACRES	T-E Y-75	65	49	4	38	30	50.4	107	21700
CARGILL	70	66	43	3	32	4	50.9	105	19800
CARGILL	575	67	48	5	35	9	50.5	103	20500
CARGILL	630	61	45	4	33	18	50.4	103	19600
-----	RS626	61	45	4	32	22	48.7	88	20300
-----	MARTIN	66	44	6	25	15	46.0	69	19300
AVERAGE ALL ENTRIES		65	47	4	34	18	50.4	109	19448
DIF. REQ. FOR SIG.		5%	0.7	0.3	NS	NS	NS	3.2	NS
		25%	0.4	0.2	NS	3.3	NS	1.8	NS
4 YEAR AVERAGE									
GOLDEN ACRES	T-E Y-77	67	49	3	38	18	52.5	126	17700
TRIUMPH	TWO 80-D	67	49	3	37	21	52.7	125	18800
ORO	G XTRA	67	49	3	32	19	52.6	124	18200
ASGROW	OSAGE	66	49	4	37	27	52.9	123	19300
ASGROW	TOPAZ	66	47	4	33	13	53.7	120	18800
DEKALB Plant Gen	DK-48	65	45	4	35	8	53.5	119	21100
FONTANELLE	G-5590	66	47	4	33	20	52.8	119	19000
GOLDEN ACRES	T-E Y-75	65	49	4	37	30	52.9	118	21700
TRIUMPH	TR 74CR	66	50	4	33	31	53.9	117	20500
PIONEER	8358	66	47	4	37	15	52.6	117	19900
FONTANELLE	W-5000	66	49	5	34	10	52.9	116	19200
GOLDEN ACRES	T-E Y-60	62	50	5	32	25	53.2	116	19400
CARGILL	70	65	43	4	33	4	53.3	110	19800
-----	RS626	61	45	4	31	22	51.0	93	20300
-----	MARTIN	65	44	6	27	15	49.3	73	19300
AVERAGE ALL ENTRIES		65	47	4	34	19	52.6	114	19507
DIF. REQ. FOR SIG.		5%	0.6	0.3	NS	NS	NS	2.7	NS
		25%	0.3	0.1	NS	NS	0.5	1.6	NS
5 YEAR AVERAGE									
GOLDEN ACRES	T-E Y-77	68	50	3	34	14	53.7	133	17700
ORO	G XTRA	68	50	3	31	15	53.9	131	18200
TRIUMPH	TWO 80-D	68	49	3	33	18	53.9	131	18800
ASGROW	OSAGE	67	49	4	33	21	54.2	130	19300
ASGROW	TOPAZ	66	48	4	30	11	54.9	127	18800
TRIUMPH	TR 74CR	66	50	4	30	23	55.0	124	20500
FONTANELLE	W-5000	67	49	5	30	7	54.0	124	19200
GOLDEN ACRES	T-E Y-75	66	49	4	33	24	54.1	124	21700
GOLDEN ACRES	T-E Y-60	63	50	5	29	19	54.2	122	19400
CARGILL	70	66	43	4	30	3	54.3	118	19800
-----	RS626	61	45	4	28	22	51.9	95	20300
-----	MARTIN	65	44	6	25	15	50.9	79	19300
AVERAGE ALL ENTRIES		66	48	4	30	16	53.7	120	19388
DIF. REQ. FOR SIG.		5%	0.5	0.2	NS	NS	NS	2.4	NS
		25%	0.3	0.1	NS	NS	0.4	1.4	NS

**Table 9. Southwest Ecofallow Sorghum Performance Test.
Frontier County. 1990.**

BRAND	HYBRID	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
S-BRAND	SM69	44	16	0	61.2	111
DEKALB Plant Gen	DK-40Y	42	15	0	62.1	103
DEKALB Plant Gen	DK-40	40	15	0	59.1	98
NORTHRUP KING	KS555Y	41	15	0	61.5	97
ASGROW	OSAGE	42	15	0	60.6	96
CARGILL	630	40	15	0	60.5	91
ASGROW	Seneca	38	15	0	62.2	89
GOLDEN ACRES	T-E Y-60	41	15	3	61.0	88
FUNK'S	G-1460A	40	14	0	61.5	88
ASGROW	XP5049	41	16	0	59.8	87
FARM ENTRY	#1	38	15	0	59.9	87
-----	N122 X TX430	40	15	0	61.3	86
-----	RS626	39	15	0	59.1	86
PIONEER	8601	39	15	0	61.9	85
GOLDEN ACRES	T-E 35	38	14	0	61.4	84
FONTANELLE	W-5000	42	16	0	60.8	83
FARM ENTRY	#2	40	15	0	60.8	83
HORIZON	213Y	41	16	0	59.8	80
CARGILL	575	41	15	0	59.9	80
GOLDEN HARVEST	H-388W	39	15	0	60.8	79
CARGILL	607E	38	15	0	58.8	79
PIONEER	8500	39	14	0	62.7	78
NORTHRUP KING	KS383Y	34	14	0	60.9	78
OHLDE	120C	41	15	3	60.4	78
CARGILL	577	40	14	0	61.0	77
ASGROW	TOPAZ	36	15	0	62.7	76
GERMAIN'S SEEDS	GS-3330	39	15	0	61.3	75
OHLDE	103	36	14	0	59.4	75
FUNK'S	G-1492	37	15	0	60.1	75
TRIUMPH	TR 50yG	38	14	0	60.5	74
DEKALB Plant Gen	DK-39Y	39	15	3	61.3	73
NORTHRUP KING	2030	38	14	0	60.3	72
CARGILL	618Y	40	14	0	59.2	71
PIONEER	8493	38	15	0	59.8	71
GERMAIN'S SEEDS	GS-7070	44	14	0	59.9	71
ARROW SEED	AS 313	40	15	0	61.6	70
ARROW SEED	AS 423	41	14	0	59.3	67
TRIUMPH	TR 56yG	40	15	0	59.7	65
TRIUMPH	TR 52 Y	39	15	0	59.9	63
DEKALB Plant Gen	X-950	41	16	3	60.1	62
HORIZON	45G	38	14	8	59.7	59
GARRISON SEED	SG-722	36	14	3	58.0	51
-----	NB505	43	15	3	60.2	50
-----	MARTIN	38	14	0	59.9	49
AVERAGE ALL ENTRIES		40	15	0.5	60.5	78
DIF. REQ. FOR SIG.						
	5%	2.6	0.9	NS	1.5	21.5
	25%	1.5	0.5	1.9	0.9	12.6

Table 10. Southwest Ecofollow Sorghum Performance Test.
Dundy County. 1990.

BRAND	HYBRID	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
DEKALB Plant Gen	DK-40Y	39	14	0	57.2	75
-----	RS626	37	13	0	56.4	72
NORTHRUP KING	KS555Y	38	13	0	56.5	69
OHLDE	120C	38	12	0	55.2	66
FUNK'S	G-1492	35	13	0	54.0	66
NORTHRUP KING	2030	34	13	0	53.8	65
FUNK'S	G-1460A	35	13	0	58.7	64
ASGROW	Seneca	39	15	0	59.9	64
TRIUMPH	TR 50yG	36	13	0	56.3	63
PIONEER	8601	38	14	0	57.3	63
NORTHRUP KING	KS383Y	31	13	0	54.9	62
CARGILL	618Y	37	12	0	51.3	62
ASGROW	OSAGE	41	15	0	57.1	61
PIONEER	8500	38	13	0	57.7	61
DEKALB Plant Gen	DK-40	38	13	0	54.7	61
ARROW SEED	AS 313	37	14	0	59.8	60
CARGILL	630	37	14	3	57.4	59
GERMAIN'S SEEDS	GS-3330	37	13	0	56.3	59
-----	N122 X TX430	36	14	0	55.8	57
TRIUMPH	TR 52 Y	37	13	0	54.4	57
S-BRAND	SM69	42	14	0	55.3	55
GARRISON SEED	SG-722	35	12	0	51.6	55
OHLDE	103	33	13	0	54.9	55
PIONEER	8493	36	14	0	54.4	53
CARGILL	607E	34	13	0	53.6	52
ASGROW	TOPAZ	37	15	0	55.5	52
GOLDEN HARVEST	H-388W	36	14	0	55.3	52
DEKALB Plant Gen	DK-39Y	35	15	0	57.7	51
GOLDEN ACRES	T-E Y-60	38	15	0	53.2	49
CARGILL	577	37	13	0	55.4	46
TRIUMPH	TR 56yG	36	13	0	54.9	46
GERMAIN'S SEEDS	GS-7070	42	14	0	55.3	46
ARROW SEED	AS 423	39	14	0	56.6	45
FARM ENTRY	#2	38	13	0	57.6	43
HORIZON	213Y	40	14	0	52.1	43
DEKALB Plant Gen	X-950	38	14	0	54.3	43
HORIZON	45G	37	14	0	56.7	42
FARM ENTRY	#1	30	13	0	50.3	42
GOLDEN ACRES	T-E 35	29	14	0	55.6	41
FONTANELLE	W-5000	43	15	0	55.5	39
-----	MARTIN	37	14	0	55.4	36
CARGILL	575	41	16	0	55.7	35
ASGROW	XP5049	39	17	0	53.8	32
-----	NB505	40	15	8	53.8	27
AVERAGE ALL ENTRIES		37	14	0.2	55.4	53
DIF. REQ. FOR SIG.						
	5%	4.3	1.8	NS	3.7	17.0
	25%	2.5	1.1	NS	2.2	10.0

**Table 11. Southwest Ecofollow Sorghum Performance Tests.
Frontier and Dundy Counties. 1990.**

BRAND	HYBRID	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A	
DEKALB Plant Gen	DK-40Y	41	15	0	59.7	89	
S-BRAND	SM69	43	15	0	58.3	83	
NORTHRUP KING	KS555Y	40	14	0	59.0	83	
DEKALB Plant Gen	DK-40	39	14	0	56.9	80	
ASGROW	OSAGE	42	15	0	58.9	79	
-----	RS626	38	14	0	57.8	79	
ASGROW	Seneca	39	15	0	61.1	77	
FUNK'S	G-1460A	38	14	0	60.1	76	
CARGILL	630	39	15	2	59.0	75	
PIONEER	8601	39	15	0	59.6	74	
OHLDE	120C	40	14	2	57.8	72	
-----	N122 X TX430	38	15	0	58.6	72	
FUNK'S	G-1492	36	14	0	57.1	71	
PIONEER	8500	39	14	0	60.2	70	
NORTHRUP KING	KS383Y	33	14	0	57.9	70	
TRIUMPH	TR 50yG	37	14	0	58.4	69	
GOLDEN ACRES	T-E Y-60	40	15	2	57.1	69	
NORTHRUP KING	2030	36	14	0	57.1	69	
GERMAIN'S SEEDS	GS-3330	38	14	0	58.8	67	
CARGILL	618Y	39	13	0	55.3	67	
CARGILL	607E	36	14	0	56.2	66	
GOLDEN HARVEST	H-388W	38	15	0	58.1	66	
FARM ENTRY	#1	34	14	0	55.1	65	
ARROW SEED	AS 313	39	15	0	60.7	65	
OHLDE	103	35	13	0	57.2	65	
ASGROW	TOPAZ	37	15	0	59.1	64	
GOLDEN ACRES	T-E 35	34	15	0	58.5	63	
FARM ENTRY	#2	39	14	0	59.2	63	
HORIZON	213Y	41	15	0	56.0	62	
CARGILL	577	39	14	0	58.2	62	
DEKALB Plant Gen	DK-39Y	37	15	2	59.5	62	
PIONEER	8493	37	15	0	57.1	62	
FONTANELLE	W-5000	43	16	0	58.2	61	
TRIUMPH	TR 52 Y	38	14	0	57.2	60	
ASGROW	XP5049	40	17	0	56.8	60	
GERMAIN'S SEEDS	GS-7070	43	14	0	57.6	59	
CARGILL	575	41	16	0	57.8	58	
ARROW SEED	AS 423	40	14	0	58.0	56	
TRIUMPH	TR 56yG	38	14	0	57.3	56	
DEKALB Plant Gen	X-950	40	15	2	57.2	53	
GARRISON SEED	SG-722	36	13	2	54.8	53	
HORIZON	45G	38	14	4	58.2	51	
-----	MARTIN	38	14	0	57.7	43	
-----	NB505	42	15	6	57.0	39	
AVERAGE ALL ENTRIES		38	14	0.4	58.0	66	
DIF. REQ. FOR SIG.		5%	2.5	1.0	NS	2.0	13.6
		25%	1.5	0.6	1.4	1.2	8.0

Table 12. West Central Ecofallow Sorghum Performance Test.
Lincoln County. 1990.

BRAND	HYBRID	PLANT BLOOM DAYS	EARLY MOIST PCT	GRAIN YIELD BU/A	BUSHEL WEIGHT LB/BU	PLANT LODGING %	
-----	N122 X TX430	76	9	44	54.8	45	
FUNK'S	G-1460A	75	9	43	56.5	14	
PIONEER	8771	72	9	41	51.3	50	
PIONEER	8601	73	9	38	52.5	62	
GERMAIN'S SEEDS	GS-7070	72	9	37	51.8	49	
FONTANELLE	GE-4457	76	9	36	54.5	49	
PIONEER	8699	70	9	35	52.0	46	
DEKALB Plant Gen	DK-39Y	72	9	35	54.0	36	
FUNK'S	G-1492	76	9	34	50.5	2	
NORTHRUP KING	KS555Y	77	9	32	55.3	31	
-----	RS626	70	9	32	48.8	51	
CARGILL	618Y	75	9	31	54.8	35	
CARGILL	630	72	9	31	54.3	71	
FONTANELLE	G-4455	75	9	30	53.0	29	
JACQUES	377-W	77	9	29	55.5	33	
CARGILL	607E	73	9	26	52.0	13	
GERMAIN'S SEEDS	GS-3330	72	9	26	51.5	47	
JACQUES	311	76	9	25	53.0	33	
GOLDEN ACRES	T-E X150	71	9	25	50.5	33	
CARGILL	577	68	9	24	46.5	74	
-----	MARTIN	76	9	23	51.3	7	
-----	NB505	62	9	18	48.5	88	
AVERAGE ALL ENTRIES		73	9	31	52.4	41	
DIF. REQ. FOR SIG.		5%	3.6	NS	8.4	NS	29
		25%	2.1	NS	4.8	NS	17

**Table 13. West Central Ecofollow Sorghum Performance Tests.
Perkins County. 1990.**

BRAND	HYBRID	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
FUNK'S	G-1460A	46	11	0	54.0	54
PIONEER	8699	44	11	0	52.6	53
CARGILL	618Y	44	9	2	48.3	51
PIONEER	8601	48	12	6	56.3	50
NORTHRUP KING	KS555Y	46	10	0	54.2	49
JACQUES	377-W	47	13	0	55.7	49
GOLDEN ACRES	T-E X150	41	10	2	51.8	48
FONTANELLE	GE-4457	52	13	4	57.4	46
PIONEER	8771	45	11	4	54.1	45
FONTANELLE	G-4455	47	12	10	55.2	44
JACQUES	311	46	11	0	53.0	44
DEKALB Plant Gen	DK-39Y	41	12	8	56.4	43
CARGILL	630	44	10	8	51.1	43
GERMAIN'S SEEDS	GS-3330	46	10	0	51.6	43
-----	N122 X TX430	46	10	0	51.4	42
CARGILL	607E	42	12	0	56.3	41
GERMAIN'S SEEDS	GS-7070	51	13	12	54.7	41
FUNK'S	G-1492	44	10	0	51.9	41
CARGILL	577	45	11	6	55.1	41
FARM ENTRY	#2	41	12	16	56.5	40
FARM ENTRY	#1	41	12	18	55.6	40
-----	RS626	46	10	24	46.4	39
-----	MARTIN	47	13	4	57.3	34
-----	NB505	46	11	74	51.5	16
AVERAGE ALL ENTRIES		45	11	8	53.7	43
DIF. REQ. FOR SIG.						
	5%	2.0	1.8	10.3	5.0	12.4
	25%	1.1	1.0	6.0	3.0	7.2

Table 14. West Central Ecofallow Sorghum Performance Tests.
Lincoln and Perkins Counties. 1990.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
FUNK'S	G-1460A	75	46	10	0	55.3	49
PIONEER	8699	70	44	10	0	52.3	44
PIONEER	8601	73	48	11	6	54.4	44
-----	N122 X TX430	76	46	10	0	53.1	43
PIONEER	8771	72	45	10	4	52.7	43
FONTANELLE	GE-4457	76	52	11	4	56.0	41
NORTHRUP KING	KS555Y	77	46	10	0	54.8	41
CARGILL	618Y	75	44	9	2	51.6	41
FARM ENTRY	#2	--	41	12	16	56.5	40
FARM ENTRY	#1	--	41	12	18	55.6	40
JACQUES	377-W	77	47	11	0	55.6	39
DEKALB Plant Gen	DK-39Y	72	41	11	8	55.2	39
GERMAIN'S SEEDS	GS-7070	72	51	11	12	53.3	39
FUNK'S	G-1492	76	44	10	0	51.2	38
FONTANELLE	G-4455	75	47	11	10	54.1	37
CARGILL	630	72	44	10	8	52.7	37
GOLDEN ACRES	T-E X150	71	41	10	2	51.2	37
-----	RS626	70	46	10	24	47.6	36
GERMAIN'S SEEDS	GS-3330	72	46	10	0	51.6	35
JACQUES	311	76	46	10	0	53.0	35
CARGILL	607E	73	42	11	0	54.2	34
CARGILL	577	68	45	10	6	50.8	33
-----	MARTIN	76	47	11	4	54.3	29
-----	NB505	62	46	10	74	50.0	17
AVERAGE ALL ENTRIES		73	45	10	8	53.5	38
DIF. REQ. FOR SIG.							
	5%	NS	NS	NS	NS	NS	7.9
	25%	NS	NS	NS	NS	3.0	4.6

**Table 15. West Central Sorghum Performance Tests.
Lincoln and Perkins Counties. 1986 - 1990.**

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
2 YEAR AVERAGE							
FUNK'S	G-1460A	78	43	14	2	56.3	65
CARGILL	630	78	43	15	2	54.8	65
-----	RS626	76	41	14	7	53.4	63
PIONEER	8500	77	43	14	1	55.9	63
DEKALB Plant Gen	DK-40	79	43	14	0	51.5	60
NORTHROP KING	2030	76	39	14	1	53.7	59
ASGROW	Seneca	78	42	15	0	55.2	58
GOLDEN ACRES	T-E Y-60	79	44	15	2	53.0	54
FUNK'S	G-1492	80	40	14	0	51.2	53
TRIUMPH	TR 56yG	77	43	14	1	52.8	50
GOLDEN ACRES	T-E 35	79	39	15	2	52.4	45
-----	NB505	71	44	15	20	55.7	42
-----	MARTIN	79	43	14	2	54.3	33
AVERAGE ALL ENTRIES		77	42	14	3	53.8	55
DIF. REQ. FOR SIG.							
	5%	NS	1	NS	NS	NS	NS
	25%	NS	0.5	NS	2.1	0.7	3.6
3 YEAR AVERAGE							
FUNK'S	G-1460A	75	43	14	2	57.8	97
DEKALB Plant Gen	DK-40	77	42	14	0	54.4	94
CARGILL	630	75	42	15	2	56.7	93
-----	RS626	74	41	14	7	55.6	93
NORTHROP KING	2030	73	39	14	1	56.0	93
ASGROW	Seneca	75	42	15	0	57.4	90
PIONEER	8500	74	43	14	1	57.6	89
FUNK'S	G-1492	77	39	14	0	54.2	85
TRIUMPH	TR 56yG	75	43	14	1	55.3	84
GOLDEN ACRES	T-E Y-60	76	44	15	2	55.7	84
GOLDEN ACRES	T-E 35	76	40	15	2	55.2	80
-----	NB505	68	43	15	20	57.2	70
-----	MARTIN	77	43	14	2	55.9	57
AVERAGE ALL ENTRIES		74	42	14	3	56.1	85
DIF. REQ. FOR SIG.							
	5%	0.4	0.8	NS	NS	NS	5.3
	25%	0.2	0.5	NS	2	0.6	3.1
4 YEAR AVERAGE							
DEKALB Plant Gen	DK-40	74	42	14	0	54.9	91
-----	RS626	70	41	14	7	54.7	87
GOLDEN ACRES	T-E Y-60	72	44	15	8	56.1	80
TRIUMPH	TR 56yG	72	43	14	3	55.2	79
-----	NB505	65	43	15	22	56.6	63
-----	MARTIN	74	43	14	2	56.1	54
AVERAGE ALL ENTRIES		71	42	14	7	55.6	76
DIF. REQ. FOR SIG.							
	5%	0.6	NS	NS	3.8	NS	5.5
	25%	0.3	NS	NS	2.1	NS	3.1
5 YEAR AVERAGE							
DEKALB Plant Gen	DK-40	73	43	15	0	54.9	94
-----	RS626	70	42	16	6	54.9	90
GOLDEN ACRES	T-E Y-60	71	44	16	6	56.2	85
TRIUMPH	TR 56yG	71	43	16	2	55.6	85
-----	NB505	64	43	14	17	56.9	67
-----	MARTIN	73	43	15	1	56.3	60
AVERAGE ALL ENTRIES		70	43	15	5	55.8	80
DIF. REQ. FOR SIG.							
	5%	0.5	NS	NS	3.5	NS	4.6
	25%	0.3	NS	NS	2	NS	2.6

Table 16. West Ecofallow Sorghum Performance Test.
Cheyenne County. 1990.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
DEKALB Plant Gen	X-828	68	30	12	5	54.5	41
DEKALB Plant Gen	X-928	69	29	12	10	52.1	34
GOLDEN ACRES	T-E 20	71	30	13	0	55.2	34
CARGILL	618Y	75	30	17	0	53.3	33
PIONEER	8855	73	30	13	0	55.5	32
CARGILL	577	74	31	13	0	53.4	31
PIONEER	8790	72	30	12	3	53.3	28
CARGILL	630	76	31	17	0	52.7	26
-----	455A X M317667	73	30	13	3	50.2	24
CARGILL	607E	79	32	15	0	51.7	24
-----	SRA X M3176667	76	29	12	1	50.6	23
-----	NB505	70	34	12	10	54.5	21
AVERAGE ALL ENTRIES		73	30	13	3	53.1	29
DIF. REQ. FOR SIG.							
	5%	1.7	NS	3.6	NS	2.9	NS
	25%	1.0	NS	2.1	4.5	1.7	7.2

Table 17. West Black Fallow Sorghum Performance Test.
Cheyenne County. 1990.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
CARGILL	577	71	42	14	3	55.3	58
DEKALB Plant Gen	X-828	68	38	17	10	54.9	53
DEKALB Plant Gen	X-928	68	37	17	10	55.5	52
GOLDEN ACRES	T-E 20	71	38	17	0	54.5	51
-----	455A X M317667	72	38	19	5	52.0	49
PIONEER	8790	72	40	17	3	55.9	49
CARGILL	630	76	40	19	5	52.7	46
PIONEER	8855	74	40	18	0	53.7	45
-----	SRA X M3176667	75	43	18	0	52.1	45
CARGILL	607E	78	39	20	3	52.9	43
CARGILL	618Y	76	41	18	10	49.6	40
-----	NB505	70	44	16	5	54.3	39
AVERAGE ALL ENTRIES		73	40	17	4	53.6	47
DIF. REQ. FOR SIG.							
	5%	2.2	1.5	3.1	NS	2.3	9.8
	25%	1.3	0.9	1.8	4.9	1.3	5.5

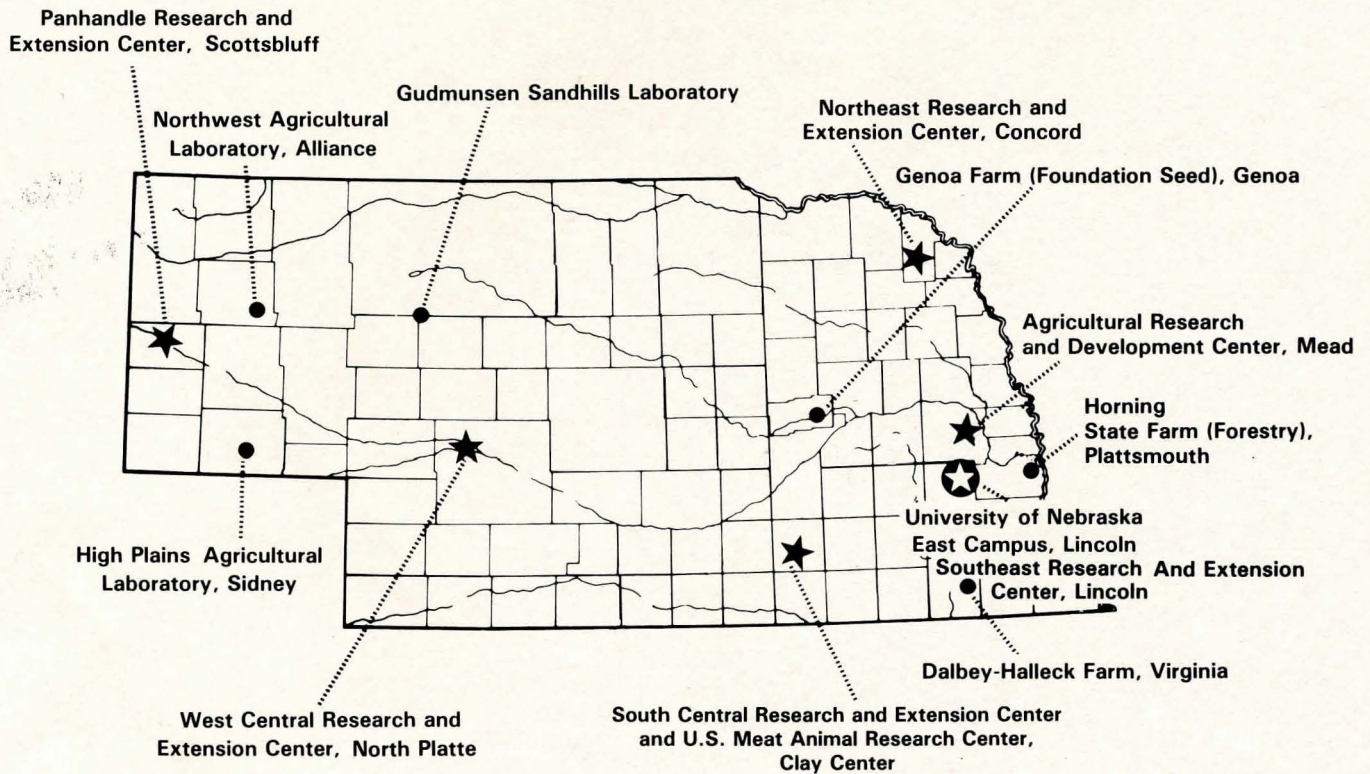
Table 18. West Ecofallow and Black Fallow Sorghum Performance Tests. Cheyenne County. 1990.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
DEKALB Plant Gen	X-828	76	34	15	8	54.7	47
CARGILL	577	81	37	14	2	54.4	45
GOLDEN ACRES	T-E 20	79	34	15	0	54.9	43
DEKALB Plant Gen	X-928	77	33	15	10	53.8	43
PIONEER	8790	80	35	15	3	54.6	39
PIONEER	8855	82	35	16	0	54.6	39
CARGILL	618Y	84	36	18	5	51.5	37
-----	455A X M317667	81	34	16	4	51.1	37
CARGILL	630	84	36	18	3	52.7	36
-----	SRA X M3176667	84	36	15	1	51.4	34
CARGILL	607E	87	36	18	2	52.3	34
-----	NB505	78	39	14	8	54.4	30
AVERAGE ALL ENTRIES		81	35	15	3	53.3	38
DIF. REQ. FOR SIG.							
	5%	1.4	2.2	2.0	5.7	NS	7.8
	25%	0.8	1.3	1.2	3.3	1.1	4.5

Table 19. West Ecofallow and Black Fallow Sorghum Performance Tests. Cheyenne County. 1986 – 1990.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
2 YEAR AVERAGE							
GOLDEN ACRES	T-E 20	77	36	15	0	46.8	29
CARGILL	577	81	39	14	2	44.0	29
PIONEER	8790	79	38	15	3	47.7	26
PIONEER	8855	81	38	16	0	47.6	26
-----	NB505	76	42	14	8	49.2	24
CARGILL	630	85	39	18	3	45.9	20
AVERAGE ALL ENTRIES		80	38	15	2	46.8	26
DIF. REQ. FOR SIG.							
	5%	1.7	0.7	NS	NS	NS	NS
	25%	0.8	0.4	NS	NS	NS	NS
3 YEAR AVERAGE							
GOLDEN ACRES	T-E 20	74	36	15	0	49.9	36
CARGILL	577	77	39	14	2	47.3	35
-----	NB505	73	41	14	8	52.0	34
PIONEER	8855	76	38	16	0	50.7	33
CARGILL	630	82	38	18	3	48.8	32
AVERAGE ALL ENTRIES		76	38	15	2	49.7	34
DIF. REQ. FOR SIG.							
	5%	1.5	0.6	NS	NS	NS	NS
	25%	0.8	0.3	NS	NS	0.7	NS
4 YEAR AVERAGE							
-----	NB505	73	41	13	8	53.5	42
5 YEAR AVERAGE							
-----	NB505	73	41	14	10	53.4	43

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.