

1988

EC88-104 Nebraska Soybean Variety Tests

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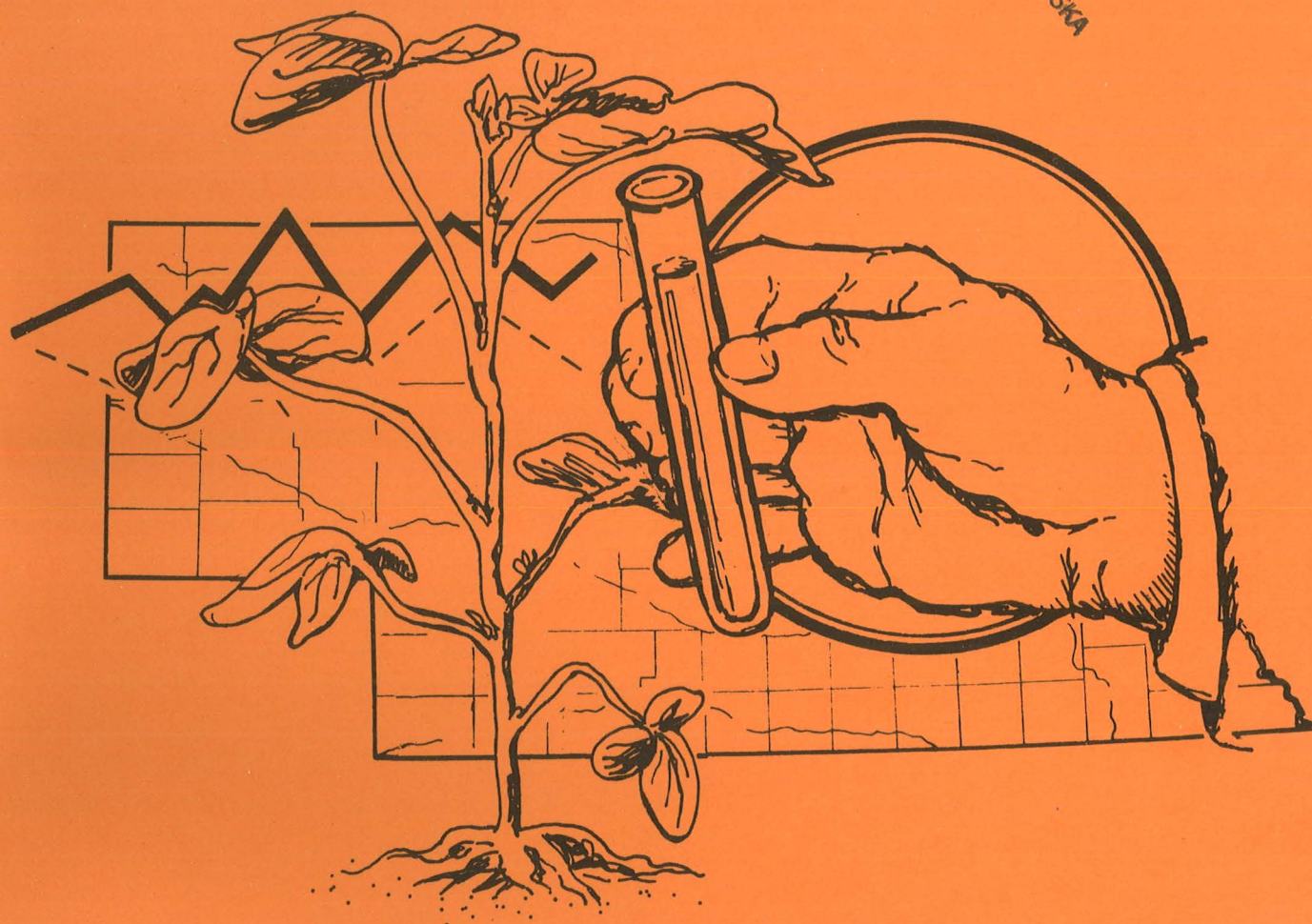
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NEBRASKA SOYBEAN VARIETY TESTS 1988

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NEBRASKA SOYBEAN VARIETY TESTS

January 1989

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sprinkler irrigation experiments established by the West Central Research and Extension Center. The Soybean check-off grants were used to fund the protein and oil analysis. Acknowledgment is made to farmers who furnished land for experiments; also to extension agents and other I.A.N.R. personnel who assisted with the tests.

Professor Dreier retired as of July 1, 1988. His efforts during the first half of the season got the tests organized and planted. We are grateful for his many years of work on variety testing as well as his efforts this year. We have drawn upon his knowledge several times since his retirement, and thank him for that.

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/hectare (kg/ha) = bu/A x 67.26 (60# bushel)

NEBRASKA SOYBEAN PRODUCTION

The following data were obtained from Nebraska Agricultural Statistics.
In 1940, 13,000 acres of soybeans also were cut for hay.

Year	Harvested acres (ha) 000	Average yield bushels (kg/ha)	Production Bushels (metric tons) 000
1940	4 (2)	14.0 (942)	56 (2)
1950	50 (20)	24.0 (1614)	1,200 (33)
1955	180 (73)	10.5 (706)	1,890 (51)
1956	146 (59)	11.5 (773)	1,679 (46)
1957	142 (58)	26.0 (1749)	3,692 (101)
1958	206 (83)	29.0 (1951)	5,974 (163)
1959	146 (59)	24.0 (1614)	3,504 (95)
1960	164 (66)	28.0 (1883)	4,592 (125)
1961	292 (118)	25.5 (1715)	7,446 (203)
1962	310 (126)	27.0 (1816)	8,370 (228)
1963	356 (144)	28.5 (1917)	10,146 (276)
1964	523 (212)	22.0 (1480)	11,506 (313)
1965	696 (282)	23.5 (1581)	16,356 (446)
1966	745 (302)	29.5 (1984)	21,978 (599)
1967	782 (317)	22.5 (1513)	17,595 (479)
1968	782 (317)	23.5 (1581)	18,377 (501)
1969	766 (310)	33.5 (2253)	25,661 (699)
1970	812 (329)	22.0 (1480)	17,864 (487)
1971	609 (247)	25.0 (1682)	15,225 (415)
1972	746 (302)	33.0 (2220)	24,618 (671)
1973	1,210 (490)	30.0 (2018)	36,300 (989)
1974	1,190 (482)	24.0 (1614)	28,560 (778)
1975	1,200 (486)	27.0 (1816)	32,400 (883)
1976	980 (397)	20.0 (1345)	19,600 (534)
1977	1,300 (458)	36.0 (2421)	40,680 (1108)
1978	1,250 (506)	34.0 (2287)	42,500 (1158)
1979	1,610 (652)	34.0 (2287)	54,740 (1491)
1980	1,770 (717)	30.0 (2018)	53,100 (1446)
1981	2,070 (838)	38.0 (2566)	78,660 (2143)
1982	2,250 (911)	35.0 (2354)	78,750 (2146)
1983	2,070 (838)	28.5 (1917)	58,995 (1607)
1984	2,550 (1033)	26.0 (1748)	66,300 (1804)
1985	2,360 (956)	36.0 (2421)	84,960 (2312)
1986	2,450 (992)	38.0 (2555)	93,100 (2534)
1987	2,350 (952)	35.5 (2388)	83,425 (2270)
1988 ¹	2,300 (932)	30.0 (2018)	69,000 (1877)

¹ November 1 estimate.

EXTENSION CIRCULAR

88-104

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NEBRASKA SOYBEAN VARIETY TESTS

1988

The 1988 estimated soybean yield for Nebraska was 30 bushels per acre from 2,300,000 harvested acres. Acreage was lower than it has been since 1984. The yield was low because of the hot dry summer that the eastern half of Nebraska had.

The crop was planted ahead of normal. Planting was normal or slightly ahead. Seasonal progress was ahead of the five-year average.

Dry weather in late September and early October favored rapid harvest. Harvest was one to two weeks ahead of normal because of the advanced state of the crop and favorable harvest weather. Some rainfall in early September caused early maturing soybean varieties to be susceptible to shatter, especially in the plots where they had to stand until the rest of the varieties were ready for harvest.

PROCEDURE

Data were obtained from 20 trials at 9 locations. (Table 1). Publicly-released entries were included at all sites. Privately developed varieties or blends were included in trials at all locations.

Privately developed varieties were selected by the seed producer except for tests at Mead, Lancaster County, and in West Central Nebraska. At many locations, entries were divided into early and late for convenience in handling. Three varieties were common to both early and late trials. Yields were calculated as a percentage of the average of these entries. The percentages, not bushel yields, should be used for comparisons of early and late entries at a location.

A list of entries by brand name is shown in Table 2. Names and addresses of entrants are shown in Table 3.

Entries usually were planted in four-row plots 15 to 35 feet long. Plots were replicated four times in a randomized complete block

design. A planting rate of 8.5 seeds per foot in 30-inch rows (148,100 seeds per acre) was used unless a higher or lower rate was requested by the entrant. Hobbit, Hoyt and Ripley were planted at a 13 seeds per foot rate.

At harvest, two rows 10 to 30 feet long were threshed for yield. Reported yields are corrected to 13% moisture. Plots were rated mature when 95% of the pods had turned brown. Lodging scores were based on a 1 to 5 scale where 1 = all plants erect and 5 = all plants flat. Seed quality ratings were made at some locations. Seed quality was scored on a 1 to 5 scale with 1 = best and 5 = poorest. Seeds per pound or grams per 100 seeds data are reported for some locations. $\text{Seeds per pound} = 453.6 \times 100 \times \text{grams per 100 seeds}$. Protein and oil content were obtained at many locations in 1988. These are reported on a 13% moisture basis and will appear lower than many reported figures. Conversions can be made to 0% by multiplying the protein or oil by 1.15. Our thanks to the Soybean Board for supporting this activity in 1988.

PERFORMANCE

Entries generally are listed in tables in order of decreasing yield. Average performance of varieties included in trials for five years in each area is shown in Table 4. These data give an indication of year effects on yield, maturity, lodging, plant height and seed size. From these data, it is quite apparent that the drought of 1988 had considerable effect on yield and seed size of the non irrigated locations.

Performance of entries cannot be measured with absolute accuracy because of variations in moisture, soil fertility and other factors. For this reason small yield differences have little significance. Differences required for significance are shown in each

table at the 5% and 25% levels. This means that differences this great would be expected through chance alone in 1 of 20 or 1 of 4 trials, respectively.

Many soybean varieties have similar yield potentials. Early-maturing varieties are favored in some seasons and later-maturing varieties in others. Period-of-years averages provide a measure of performance over a range of environmental conditions.

This was the eighth year that privately developed entries were included in these trials. Period-of-years data for varieties included for two-, three-, four-, and five-years are reported.

Results at individual locations

Northeast (Tables 5-10)

Emergence was slightly uneven. Even though soil moisture was good at planting, no rain fell for three weeks after planting. Some plants emerged after the rain, but were not competitive. Frequent drought stress occurred through most of the summer. A light hail in late September caused shatter in addition to that caused by drying. About 2 to 4 bushels per acre was lost to shatter before harvest.

East Central (Tables 11-16)

Good germination was followed by hot dry weather. Rainfall was limited to a few small showers through most of the summer. Soybeans were short with little lodging. Yields were reduced due to the drought. There was little correlation between yield and maturity.

Mead and Lincoln (Tables 17-23)

Trials at these two locations were conducted by the Soybean Breeding Project of the Department of Agronomy. Several types of trials were involved.

The "Elite" irrigated and dryland test entries were selected by the test director. Invitations to submit proprietary entries were based on three-year average high yielding entries for early and late trials at four Nebraska and three Iowa soybean performance test areas. Public varieties generally included more recent releases. It should be emphasized that these trials represent data for high-yielding entries selected under different environments. Two-year and three-year data from this trial are shown. The public variety trials at Mead and Lincoln include many of the generally available releases from

Agricultural Experiment Stations.

At Mead there was no relationship between yield and maturity in either irrigated or dryland tests. At Lincoln there was a negative relationship between yield and maturity indicating that earlier maturing varieties produced higher yields.

Southeast (Tables 24-29)

Emergence was not good due to soil crusting after planting. Deep moisture was good but top crust was dry. Hot, dry conditions during summer reduced yields. Rain at time of harvest caused some shattering of early varieties.

Later-maturity entries were highest in yield in the early test. There was no relationship between maturity and yield in the late test.

South Central Irrgtd (Tables 29-39)

Yields in Clay County were reduced by banvel drift from nearby herbicide spraying. This reduced the height and yield of that test. There was no correlation of yield with maturity in either the early or late trials.

In Phelps County, average yields were in near 60 bushels per acre. Plots were watered twice during the season and looked good all season. There was a relationship between maturity and yield in the early test with later varieties having higher yields. In the late test, there was no correlation.

West Central Irrgtd (Tables 40-43)

The "Elite" test in Dawson County included the same entries as that trial at Mead. Yields were excellent. Later maturity was correlated with higher yield.

Fourteen varieties representing a broad range of maturities were tested under two sprinkler irrigation systems at North Platte in a minimum tillage system. Soybeans were planted into wheat (wheat-soybean rotation) or corn stubble (wheat-corn-soybean rotation) with no tillage. No difference between rotations was shown so variety information was averaged across rotations. Limited irrigation plots received 6 inches. Fully irrigated plots received irrigation at full evapotranspiration. In 1985 and 1987 this was 12 inches of irrigation water. In 1986, the first planting of beans suffered herbicide damage. From the second planting, yield data were obtained for five varieties under limited irrigation. These data show an excellent yield potential for soybeans under limited irrigation in west central Nebraska. Also, experience indicated that herbicides must be used with special care on high pH soils. The later maturing varieties did produce the higher yields. In these rotations, winter wheat is planted immediately following soybean harvest (by Oct. 1). Some of the later maturing varieties would not be mature enough to machine harvest. Since the later maturing varieties could not be grown successfully in these rotations, a wide range of maturities was included to determine yield differential of adaptable varieties versus later maturing ones.

Varieties were tested at North Platte under furrow irrigation in a ridge till system following corn. The soil has a pH of 7.5. The nine varieties selected have performed well on high pH soils and fit the maturity range for West Central Nebraska. Although maturity dates were not recorded, higher yield and later maturity were correlated.

Table 1. Locations. Nebraska Soybean Performance Tests. 1988.

Location and Cooperator	Soil Type/Herbicide	Test	Planted	Harvested	Average yield bu/A	Mat-yield correlation r
Northeast						
Dixon County	Moody sity clay loam	Early	May 31	Oct. 5,6	34.5	-0.33**
Kenneth Tuttle, Dixon	Treflan + Poast	Late	June 2	Oct. 6,7	34.6	0.27*
East Central						
Washington County	Monona silt loam	Early	May 16	Oct. 5	35.2	0.12
Brent Arp, Blair	Treflan + Basagran	Late	May 16	Oct. 5	35.0	-0.25*
Mead						
Saunders County	Sharpsburg si. cl. 1.	Elite irr.	May 12	Oct. 3	52.3	0.17
Agricultural Res. & Dev. Center		Public dry	May 16	Sept 24	19.1	-0.08
		Public irr.	May 12	Oct. 6	41.9	0.20
Lincoln						
Lancaster County	Kennebec silt loam	Public dry	May 26	Oct. 4	40.7	-0.81**
Agronomy Farm		Elite dry	May 26	Oct. 6	49.0	-0.69**
Southeast						
Nemaha County	Colo silty clay loam	Early	May 9	Oct. 3	24.4	0.51**
Gauchat Farms, Brock	Treflan + Previe	Late	May 9	Oct. 4	25.5	0.25
South Central Irrigated						
Clay County	Hastings silt loam	Early	May 9	Oct. 11	51.3	0.06
South Central Res. & Ext. Center		Late	May 9	Oct. 14	47.1	0.25
Phelps County	Holdrege silt loam	Early irr.	May 12	Oct. 17,18	53.1	0.42**
Erick Ray Erickson		Late irr.	May 14	Oct. 17,18	60.8	0.19
West Central Irrigated						
Lincoln County	Cozad silt loam	----	-----	-----		----
West Central Res. & Ext. Center						
Dawson County	Gosper loam	Elite irr.	May 17	Oct. 10	55.3	0.57**
Kurt Kline, Lexington						

*, ** significant at the 5% and 1% level, respectively. Negative r values indicate that early varieties were higher yielding.

Table 2. Entries. Nebraska Soybean Performance Tests. 1988.

Brand	Entries ¹
-----	BSR 101, CENTURY 84, CHAMBERLAIN, FREMONT, HACK, HARPER 87, HOBBIT 87, HOYT, LOGAN, PELLA 86, RESNIK, RIPLEY, WEBER 84, WILLIAMS 82, WINCHESTER, ZANE, EXP. 88-1 (I)
AGRIGENE	AG 138, AG 228
ARROW SEED	AS2610, AS2675, AS2845
ASGROW	A2234, A2943, A3205, A3427, A3733, A3803, A3935
ATLAS	EX280, EX330, 250, 350
CENEX/LAND O' LAKLA	3901
CUSTOM FARM SEED	CFS 240, CFS 320, CFS 330
DAHLGREN	DS-3220, DS-3285
DEKALB-PFIZER	CX226, CX298, CX326, CX366
DE SOY	555+5, 650+, 750XL, 750+4, 750+5, 777-11, 919+5, 929, 933+, 595
DIAMOND BRAND	D201, D210, D225B, D245, D285, D300, D301, D305, D310, TC204A
FONTANELLE	3850, 3914, 4309, 4545, 4875, 5808, 5111, 6108
FS HISOY	HS 302
FUNK'S	EXP 10132, G-3232, G-3239
GOLDEN HARVEST	X 261, X 277, X 308, X 355, H-1233, H-1285, H-1391
HILL SEED	EX328, EX238, EX348, HS2275, HS2575, HS2700
HOEGEMEYER	205, 208, 250, 237, 281, 368, 377, 394, 395
HORIZON	H-25, H-28, H-29, H-32
HY-VIGOR	EX-3228, HYLANDER, K-3903, 905
JACOBSEN	EX 899, EX 971, J776, J784, J788, J824, J972
JACQUES	J-231, J-282, J-361
KAUP SEED	EXP 87-7, KS 2690, KS 2715, KS 2850, KS 3555, KS 3790
KRUGER	K2162, K2165, K2195, K254B, K3067, K3068, K3070, KB244, KB375, K1012
LATHAM	1010, 770, 920
LEWIS	310, 330, 367
LINCOLN SEED	7122, 7221, 7225
LYNKS SEEDS	LX8202, LX8280, LX8307, LX8393, 5255, 5234, 5288, 5387, LX8307R
MC CUBBIN	CUSTER, DIXON, EX 26802, EX 28942-B, EX 38106, GENTRY, LYON, RENO, TAYLOR, TAYLOR 88, TROY III, WINDSOR

Table 2. Concluded.

MCCURDY/RIVERSID	EXP 279, EXP 287, EXP 291, EXP 420, 1405, 260B, 303C, 3033, 3605, 373, 375B
MERSHMAN	CHICKASAW, FILLMORE, HOOVER, MOHAVE, MOHAWK, MUNSEE II, TRUMAN II, WASHINGTON VI
MIDWEST OILSEEDS	EX3020, EX3030, 3940
NAPB	EX2292, EX2740, EX3222, EX3800, EX3878
NORTHROP KING	B 236, S 23-03, S 27-10, S 29-20, S 30-31, S 34-19, S 36-36, S 42-30
OHLDE	2193, 2850, 3000, 3137, 3193, 3431, 3610, 3710
OLSON SEEDS	EX2288, EX2988, EX3188
PRAIRIE BRAND	PB-EXP315, PB-223, ZENITH II
S BRAND	S-45D, S-45H, S-45J, S-46F, S-46G, S-46K, S-46L, S-55A, S-57A, S-60J, S-64B, S-67, S-53A
SANSGAARD SEED	S-350, ZEPHYR
SEXAUER	SX-2080, SX-2090, SX-29, SX-3007, SX-3010, 79-10110, 80-61830
SOI	EX 382, EX 385, EX 387, 229, 268, 277, 287, 389
SRF	EX 11017, EX 363
STAR	EX 284, EX 831, EX 8828, 8826, 8829, 8830, 8835, 8836, 8839
SEEDEX	270, 301
STINE	2770, 2880, 2940, 2960, 2980, 3790, 3810, 3700, 2750
TAYLOR	TSF330, TSF365
TERRA	ADVANCE, CYCLE, JAVELIN, MARATHON, MEDALIST, SPRINT, TRIUMPH
TRI VALLEY	BLAZER, BLAZER 86, BLAZER 87, BRADLEY, BUICK, CAMRY, CAPRI, CATALINA, CAVALIER, CELICA, CHARGER 90, CORVETTE, TV-ZZ, BRAT II
WILSON BLEND	EXP 8859, 1880, 2404, 3165, 3182, 3490
YOUNKERMEN	BOBCAT II, CAMARO, CHAMP, CUTLASS 88, MAVERICK, MONARCH, MUSTANG, NEWPORT, YSC 32

¹ List does not include all entries in West Central tests.

Table 3. Entrants. Nebraska Soybean Performance Tests. 1988.

Brand	Entrant	Address
Agrigene	Agrigene Seed Research	Des Moines, IA 50322
Arrow Seed	Arrow Seed Company	Broken Bow, NE 68822
Asgrow	Asgrow Seed Company	Adel, IA 50003
Atlas Seed Company	Atlas Seed Company	Adel, IA 50003
Cenex/Land O'Lakes	Cenex/Land O'Lakes	Fort Dodge, IA 50501
Custom Farm Seed	Custom Farm Seed	Momence, IL 60954
Dalgren	Dalgren and Company	Crookston, MN 56716
Dahlgren	Dahlgren	Columbus, NE 68601
DeKalb-Pfizer	DeKalb-Pfizer Genetics	DeKalb, IL 60115
DeSoy	Farm Seed	Jewell, IA 50130
Diamond Brand Seed	Diamond Brand Seed Co.	Carroll, IA 51401
Diamond Brand Seed	Schettler Seed Company	Carroll, IA 51401
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044-9706
Funk G	Funk Seeds International	Laurel, NE 68745
Golden Harvest	The J. C. Robinson Seed Co.	Waterloo, NE 68069
Hill Seed	Hill Seed Company	Eylsworth, IA 50075
Hoegemeyer Hybrids	Hoegemeyer Hybrids	Hooper, NE 68031
Horizon	Horizon Seeds	Lincoln, NE 68501
Hy-Vigor Seeds, Inc.	Hy-Vigor Seeds, Inc.	Paullina, IA 51046
Jacobsen	Jacobsen Hybrid Corn Co., Inc.	Lake View, IA 51450
Jacques	Jacques Seed Company	Prescott, WI 54021
Kaup Seed	Kaup Seed & Fertilizer	West Point, NE 68788
Kruger Seed Company	Krug Seed Company	Dike Iowa 50624
Latham	Latham Seed Company	Alexander, IA 50420
Lewis	Lewis Hybrids, Inc.	Ursa, IL 62376
Lincoln Seed	Lincoln Seed	Sioux City, IA 51101
Lynks Seeds	Lynks Seeds	Marshalltown, IA 50158
McCubbin	McCubbin Seed Farm, Inc.	Green Mountain, IA 50637
McCurdy/Riverside	McCurdy Seed Company	Lynnville, IA 50153
Merschman	Merschman, Inc.	West Point, IA 52656
Midwest Oilseeds, Inc.	Midwest Oilseeds, Inc.	Adel, IA 50003
NAPB	Nickerson American Plant Breeders	Ames, IA 50010
Northrup King	Northrup King Co.	Phillips, NE 68865
Ohlde	Ohlde Seed Farms	Palmer, KS 66962
Midwest Seed Network	Midwest Seed Network	Bloomfield, NE 68718
Prairie Brand	Prairie Brand Seeds	Story City, IA 50248
S Brand	Schechinger Seed Company	Harlan, IA 51537
Sansgaard Seed	Sansgaard Seed	Story City, IA 50248
The Sexauer Company	The Sexauer Company	Norfolk, NE 68701
SOI	Sand Seed Service, Inc.	Marcus, IA 51035
SRF	Soybean Research Foundation	Mason City, IL 62664
Star	Star Brand Seeds	Marcus, IA 51035
Stine Seed Farm, Inc.	Stine Seed Farm, Inc.	Adel, IA 50003
Taylor-TSF	Taylor Seed Farms	White Cloud, KS 66094
Terra	Terra International, Inc.	Champaign, IL 61820
Tri Valley Seed	Tri Valley Seed	Council Bluffs, IA 51501
Wilson Blend	Wilson Hybrids, Inc.	Harlan, IA 51537
Younkerman Seed Co	Younkerman Seed Company	Council Bluffs, IA 51501

Table 4. Soybean performance. Average for entries common over years within tests. Five years. 1984-1988.

Test	Year	Yield bu/A	Mature date	Lodging score	Height inches	Seeds pound
Northeast						
Early (5 entries)	1984	58.8	9-25	2.0	36	---
	1985	60.8	10- 5	1.0	36	---
	1986	42.8	9-30	1.0	32	---
	1987	49.0	9-29	1.2	37	---
	1988	35.6	9-16	1.0	30	---
Late (14 entries)	1984	55.9	9-28	2.2	41	---
	1985	54.3	10- 9	1.1	39	---
	1986	43.5	10- 3	1.1	34	---
	1987	54.5	10- 2	1.3	41	---
	1988	35.4	9-22	1.0	31	---
East Central						
Early (3 entries)	1983	41.5	9-27	1.3	31	3000
	1985	40.1	9-29	2.9	45	2530
	1986	66.6	10- 2	3.2	45	2740
	1987	47.9	9-29	1.5	38	2903
	1988	36.4	9-13	1.6	41	3743
Late (2 entries)	1983	32.5	10- 6	1.3	34	3205
	1985	36.9	10- 7	2.0	44	2380
	1986	60.0	10-11	2.5	47	2515
	1987	42.9	10- 6	1.5	40	2685
	1988	30.0	9-25	1.4	40	3255
Southeast						
Early (5 entries)	1984	41.0	9-25	1.8	40	2764
	1985	50.4	9-26	1.5	43	2416
	1986	57.4	9-22	2.7	43	2608
	1987	40.2	9-20	1.7	35	3096
	1988	25.9	9-13	1.9	43	3660
Late (3 entries)	1984	41.3	9-30	1.7	40	2830
	1985	49.5	10- 2	2.4	44	2570
	1986	60.9	9-28	3.2	46	2637
	1987	41.4	9-25	2.2	38	3043
	1988	21.9	9-18	1.8	43	3793
South Central						
Early (6 entries)	1984	53.6	9-19	1.4	29	---
	1985	48.4	10- 3	2.3	40	---
	1986	61.1	9-21	1.9	38	---
	1987	48.5	9-15	1.5	39	---
	1988	52.2	9-21	1.5	37	---
Late (6 entries)	1984	56.3	9-26	1.5	34	---
	1985	40.5	10- 5	2.8	41	---
	1986	56.9	9-26	1.7	41	---
	1987	50.0	9-19	1.7	43	---
	1988	52.3	9-26	1.7	40	---

Table 5. Northeast Soybean Performance. Dixon County. Early. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	PROTEIN %	OIL %
		BU/A	%						
HILL SEED	EX238	40.0	117	9-20	1.0	30	2610	32.15	20.65
DIAMOND BRAND	D210	38.9	114	9-19	1.0	32	2650	31.75	20.70
PRAIRIE BRAND	PB-223	38.9	114	9-15	1.0	30	2880	32.70	20.85
HORIZON	H-25	38.1	111	9-14	1.0	30	3020	32.50	20.75
KRUGER	K2162	37.7	110	9-19	1.0	29	2770	31.90	20.60
HY-VIGOR	905	37.7	110	9-13	1.0	33	3080	33.05	20.05
SOI	287	37.8	110	9-16	1.0	29	2810	32.05	20.55
MC CUBBIN	LYON	37.8	110	9-13	1.0	28	2940	30.70	21.65
HOEGEMEYER	250	37.6	110	9-15	1.0	31	3120	32.15	20.25
OHLDE	2850	37.5	110	9-23	1.0	32	3090	33.25	19.95
SANSGAARD SEED	ZEPHYR	37.3	109	9-17	1.0	30	3400	32.85	20.05
GOLDEN HARVEST	H-1233	37.2	109	9-14	1.0	30	2810	33.00	20.35
LINCOLN SEED	7221	37.3	109	9-16	1.0	31	2990	32.35	20.70
-----	EXP. 88-1 (1)	36.9	108	9-21	1.0	31	2860	34.05	19.40
S BRAND	S-45H+	37.1	108	9-23	1.0	28	2530	32.70	20.65
JACQUES	J-231	36.6	107	9-15	1.0	30	2420	33.75	20.40
MC CUBBIN	DIXON	36.7	107	9-12	1.0	29	2610	32.85	20.40
CUSTOM FARM SEED	CFS 240	36.2	106	9-18	1.0	29	2890	32.95	20.55
TERRA	MEDALIST	36.2	106	9-17	1.0	32	3440	32.75	20.20
JACOBSEN	J776	35.8	105	9-15	1.0	31	3060	32.05	20.40
KAUP SEED	KS 2850	35.8	105	9-15	1.0	31	2980	32.45	20.50
DIAMOND BRAND	D201	36.0	105	9-16	1.0	31	2670	32.35	20.80
MCCURDY/RIVERSID	260B	36.0	105	9-16	1.0	30	2800	32.75	20.40
DEKALB-PFIZER	CX226	35.6	104	9-19	1.0	28	2830	32.60	20.15
SOI	277	35.6	104	9-14	1.0	30	3170	32.75	20.40
TRI VALLEY	TV-ZZ	35.5	104	9-16	1.0	28	3060	31.90	20.60
DAHLGREN	DS-3220	35.2	103	9-14	1.0	30	2820	30.80	21.40
-----	HACK	34.8	102	9-20	1.0	30	2800	33.15	20.20
-----	FREMONT	34.8	102	9-21	1.0	32	3040	33.20	20.30
NORTHROP KING	B 236	35.0	102	9-17	1.0	30	2630	30.95	20.90
WILSON BLEND	2404	34.8	102	9-14	1.0	31	3250	32.20	20.45
NORTHROP KING	S 23-03	34.9	102	9-13	1.0	32	2880	33.60	20.00
SEXAUER	SX-2080	34.7	101	9-20	1.0	29	2690	33.80	19.50
TRI VALLEY	BUICK	34.6	101	9-19	1.0	27	2680	32.75	20.70
S BRAND	S-45J	34.6	101	9-17	1.0	30	2950	31.45	20.90
MERSHMAN	MUNSEE II	34.5	101	9-19	1.0	29	2700	32.85	20.75
SEXAUER	SX-29	34.3	100	9-14	1.0	32	3280	32.55	20.20
DE SOY	555+5	34.4	100	9-14	1.0	28	3290	33.00	20.15
TERRA	JAVELIN	34.1	100	9-14	1.0	31	3180	31.90	20.60
STINE	2960	34.1	100	9-18	1.0	28	2920	32.85	20.30
KAUP SEED	KS 2715	33.9	99	9-14	1.0	30	2730	31.50	21.05
LATHAM	770	33.9	99	9-18	1.0	27	3020	34.10	20.15
HILL SEED	HS2275	33.9	99	9-15	1.0	30	2800	32.80	20.50
ASGROW	A2234	33.5	98	9-14	1.0	28	2870	31.90	20.80
NAPB	EX2292	33.2	97	9-16	1.0	28	2840	34.00	19.80
MERSHMAN	MOHAWK	33.2	97	9-17	1.0	27	2900	33.70	20.10
LYNKS SEEDS	5234	33.3	97	9-15	1.0	33	2960	32.35	20.55
FUNK'S	G-3232	33.2	97	9-19	1.0	32	3230	33.30	20.00
DE SOY	650+	33.3	97	9-19	1.0	31	2980	32.50	20.30
-----	BSR 101	33.2	97	9-16	1.0	29	2970	32.85	20.20
-----	WEBER 84	33.1	97	9- 8	1.0	30	3280	32.60	20.75
JACOBSEN	J784	33.0	96	9-14	1.0	30	3000	31.35	20.90
HOEGEMEYER	208	32.8	96	9-16	1.0	28	2740	32.90	20.95
LYNKS SEEDS	LX8202	32.6	95	9-16	1.0	30	2830	33.75	19.70
STAR	EX 284	31.9	93	9-12	1.0	27	3140	32.80	20.35
ATLAS	250	31.9	93	9-12	1.0	29	2920	33.10	20.15
FONTANELLE	3914	31.5	92	9-19	1.0	28	2990	33.70	20.35
STAR	8826	31.3	91	9-15	1.0	31	2880	32.90	20.10
STINE	2940	30.9	90	9-12	1.0	28	3080	33.05	20.35
KRUGER	K2165	30.9	90	9-18	1.0	27	2880	32.75	20.35
MCCURDY/RIVERSID	1405	29.7	87	9-12	1.0	30	2630	31.90	20.70
FONTANELLE	3850	28.7	84	9- 8	1.0	29	2760	31.50	20.95
MIDWEST SEED NET	EX2288	28.0	82	9-15	1.0	31	2910	32.90	20.40
WILSON BLEND	1880	28.1	82	9-12	1.0	27	2730	32.70	20.40
LINCOLN SEED	7122	27.6	81	9- 8	1.0	27	2900	31.85	20.35
Average all varieties		34.5		9-16	1.0	29.6	2918	32.62	20.44
Dif. Req for Sig. .05		3.6		2.2	--	2.4	197	1.35	0.67
.25		2.1		1.3	--	1.4	115	0.79	0.39

Yield in bushels per acre and % of Fremont, Hack, and Webber 84.
Protein and oil content based on 13% moisture

Table 6. Northeast Soybean Performance. Early. 1987-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES
		BU/A	%			
Two Year Average						
HOEGEMEYER	250	45.0	102	9-22	1.0	34
DEKALB-PFIZER	CX226	44.3	100	9-24	1.2	31
KAUP SEED	KS 2850	44.1	100	9-22	1.2	34
SOI	277	43.9	99	9-21	1.0	34
HORIZON	H-25	43.7	99	9-22	1.2	34
GOLDEN HARVEST	H-1233	43.7	99	9-22	1.3	34
LINCOLN SEED	7221	43.5	98	9-23	1.0	35
KRUGER	K2162	43.3	98	9-25	1.2	33
STINE	2960	43.1	97	9-23	1.0	31
CUSTOM FARM SEED	CFS 240	43.1	97	9-25	1.3	34
MC CUBBIN	LYON	43.0	97	9-21	1.0	31
MCCURDY/RIVERSID	260B	42.9	97	9-23	1.2	33
TRI VALLEY	TV-ZZ	42.9	97	9-23	1.3	31
MC CUBBIN	DIXON	42.8	97	9-17	1.0	31
MERSHMAN	MUNSEE II	42.5	96	9-25	1.0	32
S BRAND	S-45J	42.1	95	9-23	1.0	33
WILSON BLEND	2404	42.1	95	9-21	1.0	35
DIAMOND BRAND	D201	42.1	95	9-23	1.0	35
SEXAUER	SX-29	42.0	95	9-21	1.3	36
SEXAUER	SX-2080	41.7	94	9-24	1.0	33
-----	HACK	41.0	93	9-25	1.0	33
HILL SEED	HS2275	40.9	92	9-22	1.0	34
NORTHRUP KING	S 23-03	40.7	92	9-20	1.0	35
LYNKS SEEDS	LX8202	40.6	92	9-22	1.0	34
ASGROW	A2234	40.2	91	9-20	1.0	31
HOEGEMEYER	208	39.5	89	9-23	1.0	33
-----	WEBER 84	38.6	87	9-16	1.0	33
-----	BSR 101	38.0	86	9-22	1.0	33
LINCOLN SEED	7122	36.0	81	9-15	1.0	32
MCCURDY/RIVERSID	1405	35.9	81	9-19	1.2	33
FONTANELLE	3850	35.7	81	9-15	1.0	32
Average All Entries		41.5		9-21	1.1	32.8
Dif. Req. for Sig. 5%		1.5		1.3	NS	1.0
25%		0.9		0.8	NS	0.6

Table 7. Northeast Soybean Performance. Early. 1984-1988.

TABLE 7. Corn yields (bu/a) by seed type for mature entry: 1990-1992						
BRAND	ENTRY	BU/A	YIELD %	MATURE DATE	LODGING SCORE	HEIGHT INCHES
<u>Three Year Average</u>						
HORIZON	H-25	44.2	104	9-24	1.1	33
GOLDEN HARVEST	H-1233	44.0	103	9-25	1.2	33
LINCOLN SEED	7221	43.8	103	9-25	1.0	34
DIAMOND BRAND	D201	43.8	103	9-25	1.0	35
TRI VALLEY	TV-ZZ	43.5	102	9-26	1.2	31
CUSTOM FARM SEED	CFS 240	43.3	102	9-27	1.2	33
MCCURDY/RIVERSID	260B	42.6	100	9-25	1.1	33
NORTHRUP KING	S 23-03	41.9	99	9-23	1.0	35
-----	HACK	41.3	97	9-27	1.0	31
HOEGEMEYER	208	40.9	96	9-24	1.0	33
HILL SEED	HS2275	40.8	96	9-24	1.0	33
LYNKS SEEDS	LX8202	40.7	96	9-24	1.0	33
-----	WEBER 84	38.5	91	9-18	1.0	33
-----	BSR 101	37.5	88	9-24	1.0	32
Average All Entries		41.9		9-24	1.1	33.0
Dif. Req. for Sig.						
	5%	1.2		0.8	NS	0.8
	25%	0.7		0.5	NS	0.5

Four Year Average						
LINCOLN SEED	7221	48.1	104	9-27	1.0	35
TRI VALLEY	TV-ZZ	47.8	103	9-28	1.1	32
GOLDEN HARVEST	H-1233	47.5	102	9-27	1.1	34
MCCURDY/RIVERSID	260B	47.0	101	9-27	1.1	34
LYNKS SEEDS	LX8202	46.6	100	9-27	1.0	35
-----	HACK	46.2	99	9-29	1.0	32
NORTHRUP KING	S 23-03	45.3	98	9-26	1.1	37
-----	BSR 101	42.7	92	9-26	1.0	33
Average All Entries		46.4		9-27	1.1	33.8
Dif. Req. for Sig.						
	5%	1.5		0.8	NS	0.7
	25%	0.9		0.5	NS	0.4

Five Year Average						
LINCOLN SEED	7221	51.0	106	9-27	1.3	35
GOLDEN HARVEST	H-1233	49.6	103	9-26	1.2	34
LYNKS SEEDS	LX8202	49.2	102	9-27	1.3	35
MCCURDY/RIVERSID	260B	48.9	101	9-27	1.3	34
-----	HACK	48.4	100	9-28	1.1	33
Average All Entries		49.4		9-27	1.2	34.2
Dif. Req. for Sig.						
	5%	NS		NS	NS	0.6
	25%	NS		0.5	NS	0.4

Table 8. Northeast Soybean Performance. Dixon County. Late. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	PROTEIN %	OIL %
		BU/A	%						
MCCURDY/RIVERSID	3033	39.3	119	9-23	1.0	30	2970	33.45	19.85
OHLDE	3000	39.3	119	9-26	1.0	30	2900	32.15	20.20
HOEGEMEYER	205	38.8	118	9-20	1.0	31	3000	32.90	20.30
WILSON BLEND	3165	38.2	116	9-24	1.0	31	2950	32.75	19.70
TERRA	SPRINT	38.3	116	9-21	1.0	30	3170	33.20	20.15
HY-VIGOR	EX-3228	37.9	115	9-21	1.0	30	2940	33.05	19.80
LINCOLN SEED	7225	38.0	115	9-21	1.0	31	3150	33.15	20.20
SOI	229	37.5	114	9-19	1.0	31	3080	32.85	20.20
KRUGER	K2195	37.6	114	9-20	1.0	31	3060	32.90	20.10
HILL SEED	HS2700	37.3	113	9-20	1.0	31	3050	32.65	20.35
FUNK'S	G-3239	37.1	113	9-18	1.0	30	2970	33.15	20.00
CUSTOM FARM SEED	CFS 330	37.4	113	9-30	1.0	30	2970	33.55	19.60
MERSHMAN	MOHAVE	37.0	112	9-21	1.0	29	2890	32.85	19.90
-----	ZANE	36.8	112	9-30	1.0	32	2700	33.30	19.90
DIAMOND BRAND	D225B	36.5	111	9-20	1.0	28	2780	33.05	20.00
KAUP SEED	KS 2690	36.7	111	9-19	1.0	32	3020	32.65	20.10
TRI VALLEY	BLAZER	36.4	110	9-16	1.0	30	2960	32.65	20.55
LATHAM	1010	36.4	110	9-19	1.0	28	3080	32.85	20.20
GOLDEN HARVEST	H-1285	36.3	110	9-23	1.0	30	3070	33.25	19.95
TRI VALLEY	BLAZER 87	36.4	110	9-18	1.0	30	3300	33.05	19.95
WILSON BLEND	3182	36.2	110	9-24	1.0	31	2810	32.90	20.10
LYNKS SEEDS	5255	36.4	110	9-18	1.0	30	2980	32.45	20.05
DIAMOND BRAND	TC204A	36.2	110	9-19	1.0	31	3200	33.75	20.10
-----	LOGAN	35.7	108	9-25	1.0	37	2870	32.85	20.15
HY-VIGOR	K-3903	35.5	108	9-19	1.0	30	3110	32.40	20.25
FUNK'S	EXP 10132	35.5	108	9-19	1.0	31	3110	33.50	20.20
LATHAM	920	35.3	107	9-21	1.0	28	3290	34.20	19.30
HORIZON	H-28	35.2	107	9-18	1.0	31	3020	33.15	19.85
S BRAND	S-45D+	35.2	107	9-18	1.0	30	3020	32.75	20.05
OHLDE	2193	35.2	107	9-20	1.0	32	2830	32.95	19.95
DAHLGREN	DS-3285	35.4	107	9-19	1.0	31	3190	32.90	20.20
MERSHMAN	CHICKASAW	34.8	106	9-18	1.0	31	3370	33.00	19.80
JACQUES	J-282	35.0	106	9-18	1.0	28	3200	33.65	19.70
NORTHROP KING	S 29-20	34.9	106	9-22	1.0	31	2840	32.30	20.35
-----	PELLA 86	34.5	105	9-24	1.0	31	2680	32.75	20.20
DE SOY	750+4	34.7	105	9-19	1.0	30	3340	32.95	19.95
TERRA	ADVANCE	34.5	105	9-23	1.0	30	2700	33.20	19.75
GOLDEN HARVEST	X 277	34.5	105	9-18	1.0	27	3360	32.95	19.85
MC CUBBIN	CUSTER	34.7	105	9-17	1.0	30	3040	33.00	20.25
SOI	268	34.3	104	9-18	1.0	31	3260	33.05	19.80
MC CUBBIN	EX 28942-B	34.1	103	9-18	1.0	27	2870	33.60	19.95
HILL SEED	HS2575	34.0	103	9-18	1.0	30	3260	33.00	19.85
MCCURDY/RIVERSID	303C	34.1	103	9-18	1.0	30	2890	33.50	19.65
ATLAS	EX280	33.9	103	9-26	1.0	27	2960	33.75	19.65
MIDWEST SEED NET	EX3188	34.0	103	9-22	1.0	35	3030	33.45	19.70
-----	HACK	33.5	102	9-21	1.0	29	2860	32.55	20.15
ASGROW	A2943	33.5	102	9-24	1.0	29	2970	34.55	19.60
HOEGEMEYER	281	33.5	102	9-18	1.0	29	3200	32.95	19.90
S BRAND	S-46F	33.2	101	9-18	1.0	27	3230	33.40	19.85
JACOBSEN	EX 899	33.4	101	9-20	1.0	29	3150	33.00	19.85
DIAMOND BRAND	D285	33.0	100	9-21	1.0	29	3240	33.75	19.85
-----	WEBER 84	33.0	100	9-12	1.0	32	3130	32.45	20.70
DEKALB-PFIZER	CX326	33.1	100	9-25	1.0	29	3500	32.15	20.05
NORTHROP KING	S 27-10	32.5	99	9-16	1.0	27	2930	33.15	19.90
SEXAUER	80-61830	32.3	98	9-16	1.0	30	2880	33.55	19.95
DIAMOND BRAND	D245	32.2	98	9-22	1.0	33	3320	31.60	20.75
KRUGER	K254B	32.3	98	9-20	1.0	29	3290	33.00	19.80
-----	FREMONT	32.4	98	9-24	1.0	34	3100	33.45	20.00
NAPB	EX2740	31.6	96	9-21	1.0	29	2970	33.20	19.90
-----	CENTURY 84	31.3	95	9-19	1.0	28	2770	34.60	19.65
DE SOY	750XL	31.3	95	9-20	1.0	25	2940	34.00	19.90
DEKALB-PFIZER	CX298	30.5	93	9-25	1.0	27	3230	33.75	19.80
STINE	2770	30.5	93	9-17	1.0	29	3440	33.65	19.70
FONTANELLE	4309	30.2	92	9-18	1.0	26	3090	34.10	19.60
MIDWEST SEED NET	EX2988	30.2	92	9-19	1.0	26	3030	34.40	19.90
STAR	EX 8828	29.8	90	9-20	1.0	25	2950	33.70	19.85
JACOBSEN	J788	29.5	89	9-19	1.0	27	3240	35.05	19.40
-----	HOYT	26.2	79	9-16	1.0	21	3030	33.00	20.15
Average all varieties		34.6		9-20	1.0	29.5	3055	33.18	19.97
Dif. Req for Sig. .05		8.3		2.6	--	3.6	156	0.77	0.43
.25		4.8		1.5	--	2.0	91	0.45	0.25

Yield in bushels per acre and % of Fremont, Hack, and Webber 84.
Protein and oil content based on 13% moisture.

Table 9. Northeast Soybean Performance. Late. 1987-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES
		BU/A	%			
Two Year Average						
LATHAM	920	48.8	96	9-26	1.0	32
HOEGEMEYER	205	47.9	94	9-26	1.0	36
HORIZON	H-28	47.7	94	9-24	1.3	35
MCCURDY/RIVERSID	3033	47.4	93	9-28	1.3	35
TRI VALLEY	BLAZER	47.3	93	9-23	1.2	34
HILL SEED	HS2700	47.2	93	9-26	1.0	34
HOEGEMEYER	281	47.0	93	9-24	1.0	33
S BRAND	S-46F	46.9	92	9-24	1.0	34
S BRAND	S-45D+	46.7	92	9-23	1.0	34
TERRA	SPRINT	46.6	92	9-27	1.0	36
HY-VIGOR	K-3903	46.4	91	9-24	1.0	34
WILSON BLEND	3182	46.3	91	9-29	1.2	37
NORTHRUP KING	S 29-20	46.2	91	9-27	1.0	37
-----	PELLA 86	46.0	91	9-30	1.2	35
LINCOLN SEED	7225	45.9	90	9-27	1.4	37
GOLDEN HARVEST	X 277	45.8	90	9-25	1.0	33
GOLDEN HARVEST	H-1285	45.8	90	9-28	1.0	35
-----	ZANE	45.7	90	10- 3	1.4	36
LATHAM	1010	45.7	90	9-26	1.2	34
KAUP SEED	KS 2690	45.5	90	9-26	1.0	36
DEKALB-PFIZER	CX326	45.5	90	9-30	1.0	33
ASGROW	A2943	45.5	90	9-29	1.0	34
SOI	268	45.4	89	9-24	1.0	35
-----	LOGAN	45.4	89	9-30	1.2	43
DIAMOND BRAND	TC204A	45.4	89	9-26	1.0	36
KRUGER	K2195	45.2	89	9-26	1.0	35
OHLDE	2193	44.3	87	9-26	1.3	36
MC CUBBIN	CUSTER	44.0	87	9-23	1.0	34
STINE	2770	43.9	87	9-23	1.0	34
TERRA	ADVANCE	43.1	85	9-29	1.4	35
MCCURDY/RIVERSID	303C	42.8	84	9-25	1.0	35
-----	WEBER 84	42.5	84	9-18	1.0	37
DIAMOND BRAND	D245	42.4	84	9-27	1.5	40
-----	HACK	42.0	83	9-26	1.0	33
-----	CENTURY 84	41.6	82	9-25	1.2	34
-----	FREMONT	41.4	82	9-28	1.0	38
-----	HOYT	40.3	79	9-23	1.0	24
Average All Entries		45.2		9-26	1.1	34.7
Dif. Req. for Sig. 5%		NS		1.2	NS	1.4
25%		NS		0.7	NS	0.8

Table 10. Northeast Soybean Performance. Late. 1984-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LOGGING SCORE	HEIGHT INCHES
		BU/A	%			
S BRAND	S-45D+	47.2	103	9-25	1.0	34
HOEGEMEYER	205	47.1	103	9-28	1.0	35
TERRA	SPRINT	47.0	103	9-28	1.0	35
HILL SEED	HS2700	46.9	103	9-28	1.0	34
S BRAND	S-46F	46.6	102	9-26	1.0	33
TRI VALLEY	BLAZER	46.4	102	9-25	1.1	34
DIAMOND BRAND	TC204A	45.6	100	9-28	1.0	34
LATHAM	1010	45.4	99	9-28	1.1	33
LINCOLN SEED	7225	45.4	99	9-29	1.4	36
STINE	2770	45.2	99	9-26	1.0	34
WILSON BLEND	3182	45.0	99	10- 1	1.1	34
GOLDEN HARVEST	H-1285	45.0	99	9-29	1.0	34
KRUGER	K2195	44.9	98	9-28	1.0	34
-----	LOGAN	44.8	98	10- 2	1.1	41
DEKALB-PFIZER	CX326	44.7	98	10- 2	1.0	33
OHLDE	2193	44.7	98	9-28	1.2	35
ASGROW	A2943	44.0	96	10- 1	1.0	33
-----	ZANE	43.7	96	10- 3	1.3	35
TERRA	ADVANCE	43.0	94	9-30	1.3	34
-----	HACK	42.3	93	9-28	1.0	32
-----	HOYT	42.2	92	9-25	1.0	23
DIAMOND BRAND	D245	42.2	92	9-29	1.7	39
-----	WEBER 84	41.4	91	9-19	1.0	35
-----	FREMONT	41.1	90	9-29	1.0	37
-----	CENTURY 84	40.4	88	9-27	1.1	33
Average All Entries		44.5		9-28	1.1	34.1
Dif. Req. for Sig.		5%	1.9	1.0	0.2	1.2
		25%	1.1	0.6	0.1	0.7
Four Year Average						
HILL SEED	HS2700	50.6	104	9-30	1.0	36
TERRA	SPRINT	49.9	102	10- 1	1.0	36
TRI VALLEY	BLAZER	49.1	101	9-28	1.2	35
DIAMOND BRAND	TC204A	48.7	100	10- 1	1.0	35
LINCOLN SEED	7225	48.5	100	10- 1	1.3	38
OHLDE	2193	48.3	99	10- 1	1.1	36
LATHAM	1010	48.0	98	9-30	1.1	35
GOLDEN HARVEST	H-1285	47.8	98	10- 2	1.0	36
-----	LOGAN	45.9	94	10- 5	1.1	42
DIAMOND BRAND	D245	45.7	94	10- 2	1.6	40
-----	ZANE	44.6	92	10- 5	1.2	36
ASGROW	A2943	44.4	91	10- 4	1.0	35
-----	FREMONT	43.1	88	10- 2	1.0	38
-----	CENTURY 84	42.7	88	9-30	1.1	34
Average All Entries		46.9		9-31	1.1	36.4
Dif. Req. for Sig.		5%	1.8	1.1	0.1	0.9
		25%	1.0	0.6	0.1	0.5
Five Year Average						
HILL SEED	HS2700	51.7	103	9-30	1.3	36
TERRA	SPRINT	51.3	102	9-30	1.3	36
TRI VALLEY	BLAZER	50.5	101	9-28	1.3	35
GOLDEN HARVEST	H-1285	50.3	100	10- 1	1.3	37
LINCOLN SEED	7225	50.0	100	10- 1	1.5	38
LATHAM	1010	50.0	100	9-30	1.3	35
OHLDE	2193	49.7	99	9-30	1.4	37
DIAMOND BRAND	TC204A	49.6	99	9-30	1.3	36
ASGROW	A2943	48.2	96	10- 2	1.2	36
DIAMOND BRAND	D245	48.1	96	10- 1	1.9	41
-----	LOGAN	47.1	94	10- 3	1.4	42
-----	ZANE	46.5	93	10- 3	1.3	37
-----	FREMONT	44.8	89	10- 1	1.2	38
-----	CENTURY 84	44.3	88	9-29	1.2	36
Average All Entries		48.7		10- 1	1.3	37.2
Dif. Req. for Sig.		5%	1.7	1.0	0.1	1.2
		25%	1.0	0.6	0.1	0.7

Table 11. East Central Soybean Performance. Washington County Early. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %
		BU/A	%							
HILL SEED	EX238	41.0	114	9- 8	1.8	37	3430	57	32.15	20.80
DAHLGREN	DS-3285	40.6	113	9-15	1.3	39	3990	58	33.70	20.15
HOEGEMEYER	237	40.4	113	9- 9	1.5	37	3150	57	31.60	21.00
DIAMOND BRAND	D225B	40.2	112	9-12	1.5	35	3420	57	33.10	20.20
DIAMOND BRAND	D210	39.1	109	9- 7	2.0	35	3360	57	32.15	20.80
HORIZON	H-29	39.3	109	9- 9	1.0	36	3370	57	31.05	20.90
NORTHROP KING	B 236	38.6	108	9- 7	1.0	36	3180	55	29.85	21.95
SANSGAARD SEED	ZEPHYR	38.3	107	9-11	1.3	36	3860	57	32.65	20.70
KAUP SEED	KS 2690	38.5	107	9-14	1.0	40	4020	58	33.90	20.10
NAPB	EX3222	38.0	106	9-19	1.8	41	4000	57	31.50	20.90
MC CUBBIN	TAYLOR	38.0	106	9-12	1.8	40	4020	57	33.60	20.05
HOEGEMEYER	205	38.1	106	9-12	1.5	40	3790	58	33.45	20.10
JACOBSEN	J824	37.5	104	9-13	1.8	40	3660	43	33.45	20.40
PRAIRIE BRAND	ZENITH II	37.3	104	9-12	1.3	38	3820	58	33.35	20.10
-----	CENTURY 84	36.8	103	9- 7	1.0	35	3680	57	32.20	20.60
WILSON BLEND	2404	37.0	103	9- 7	1.8	36	3840	56	31.20	21.25
SOI	EX 382	36.8	103	9-15	1.0	44	3240	56	31.80	20.80
SEXAUER	SX-2090	36.9	103	9-11	1.0	45	3930	59	32.55	20.55
STAR	8829	37.1	103	9-12	1.0	35	3480	57	32.85	20.75
-----	HACK	36.8	103	9-10	1.0	33	3050	58	32.35	20.70
YOUNKERMANN	CUTLASS 88	36.5	102	9-16	1.3	37	3710	57	32.55	20.10
MC CUBBIN	TAYLOR 88	36.5	102	9- 8	1.5	38	4040	57	31.95	20.45
WILSON BLEND	3165	36.7	102	9-16	1.3	38	3380	57	32.60	19.85
DE SOY	750+5	36.7	102	9-10	1.3	35	4020	57	32.45	20.45
OHLDE	2193	36.4	101	9-14	1.8	37	4060	58	33.30	20.30
NAPB	EX2740	36.3	101	9- 8	1.0	35	3420	57	33.35	20.20
STINE	2770	35.9	100	9-11	1.3	36	3920	57	32.60	20.25
SOI	229	35.9	100	9-14	1.5	36	4010	58	33.40	20.10
LYNKS SEEDS	LX8202	35.6	99	9- 5	1.3	37	3420	57	32.65	19.95
-----	FREMONT	35.6	99	9-14	1.0	38	3650	58	33.10	20.60
KAUP SEED	KS 2850	35.5	99	9- 9	1.8	38	3650	42	31.90	20.85
LYNKS SEEDS	5234	35.2	98	9- 7	1.3	39	3930	57	31.90	20.35
OHLDE	3000	35.2	98	9-13	1.5	37	3440	57	31.85	20.50
-----	PELLA 86	35.3	98	9-14	1.0	35	2980	57	32.55	20.50
SEXAUER	SX-2080	35.3	98	9- 6	1.0	35	3290	58	33.25	20.05
-----	EXP. 88-1 (1)	35.0	97	9-13	1.0	37	3250	57	34.55	19.50
TERRA	SPRINT	34.8	97	9-16	1.5	39	4010	58	33.60	20.05
GOLDEN HARVEST	X 261	35.0	97	9- 9	1.3	35	3840	57	34.10	19.90
STINE	2880	34.7	97	9-16	1.0	41	3300	56	32.30	20.65
DE SOY	750XL	34.3	96	9- 9	1.0	30	3370	56	33.75	20.15
HY-VIGOR	K-3903	34.6	96	9- 9	1.3	35	3630	56	31.95	21.00
AGRIGENE	AG 228	34.6	96	9-10	1.3	36	3850	57	33.70	19.95
FONTANELLE	4545	34.6	96	9-14	1.8	39	4010	58	33.45	20.25
TRI VALLEY	BLAZER 86	34.0	95	9- 7	1.3	37	3680	57	32.25	20.40
ASGROW	A2943	34.2	95	9-18	1.0	36	3620	57	35.05	19.70
DIAMOND BRAND	D201	34.2	95	9- 5	1.8	37	3580	57	32.75	20.15
NORTHROP KING	S 29-20	33.6	94	9-11	1.5	37	3440	57	32.60	20.70
KRUGER	KB244	33.6	94	9-14	1.0	32	3810	57	33.10	19.95
HILL SEED	HS2575	33.9	94	9- 8	1.8	36	4090	57	33.45	19.95
STAR	EX 831	33.7	94	9-13	1.0	36	3540	56	31.60	20.30
ASGROW	A2234	33.8	94	9- 4	1.0	33	3400	57	33.10	20.20
TRI VALLEY	BRADLEY	33.4	93	9-10	1.0	33	3540	56	32.35	20.65
MERSHMAN	CHICKASAW	33.3	93	9-10	1.3	36	3950	57	32.10	20.55
S BRAND	S-46L	33.5	93	9-11	1.0	35	3860	57	32.55	20.20
S BRAND	S-46G	33.0	92	9- 7	1.0	36	3860	57	32.20	20.40
-----	LOGAN	33.0	92	9-15	1.5	44	3420	58	33.15	20.50
YOUNKERMANN	MAVERICK	32.8	91	9- 7	1.5	36	3620	56	32.65	20.40
FONTANELLE	4309	32.8	91	9- 9	1.0	29	3930	58	35.30	19.45
MERSHMAN	MOHAVE	32.6	91	9-15	1.0	36	3490	56	31.90	20.30
GOLDEN HARVEST	X 277	32.7	91	9- 8	1.3	35	3990	57	31.70	20.70
KRUGER	K2165	32.5	91	9-10	1.0	30	3440	56	32.70	20.65
DAHLGREN	DS-3220	32.4	90	9- 5	1.0	32	3750	57	32.35	20.80
MCCURDY/RIVERSID	EXP 287	31.8	89	9-10	1.0	38	3820	57	32.85	20.10
TERRA	ADVANCE	32.0	89	9-16	1.0	37	3470	57	32.90	20.05
DEKALB-PFIZER	CX298	31.4	87	9-16	1.0	30	3790	58	34.50	19.65
MCCURDY/RIVERSID	EXP 291	30.9	86	9-16	1.0	37	3410	57	32.85	20.25
JACOBSEN	EX 971	30.9	86	9-14	1.3	37	3290	56	32.55	19.95
-----	BSR 101	19.9	55	9- 4	1.8	35	3580	56	32.50	20.15
Average all varieties		35.2		9-11	1.3	36.3	3645	56.6	32.74	20.37
Dif. Req for Sig.	.05	4.4		2.7	0.5	2.9	241	6.9	1.68	0.80
	.25	2.6		1.6	0.3	1.7	141	4.0	0.98	0.47

Yield in bushels per acre and % of Fremont, Hack, and Pella 86.
Protein and oil based on 13% moisture.

Table 12. East Central Soybean Performance. Early. 1987-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND
		BU/A	%				
Two Year Average							
HORIZON	H-29	44.8	98	9-20	1.0	35	3010
KAUP SEED	KS 2690	44.0	96	9-21	1.2	37	3470
HOEGEMEYER	205	43.5	95	9-20	1.5	38	3430
SANSGAARD SEED	ZEPHYR	43.4	95	9-18	1.2	35	3580
JACOBSEN	J824	43.4	95	9-21	1.6	38	3360
MC CUBBIN	TAYLOR	43.3	95	9-20	1.6	38	3530
WILSON BLEND	2404	43.0	94	9-16	1.6	35	3500
STINE	2770	43.0	94	9-18	1.2	36	3580
OHLDE	2193	42.8	94	9-21	1.7	36	3640
MC CUBBIN	TAYLOR 88	42.8	94	9-17	1.3	37	3640
OHLDE	3000	42.7	93	9-22	1.4	37	3130
TRI VALLEY	BLAZER 86	42.5	93	9-16	1.2	36	3400
HY-VIGOR	K-3903	42.4	93	9-17	1.2	35	3400
GOLDEN HARVEST	X 277	41.9	92	9-17	1.2	35	3570
PRAIRIE BRAND	ZENITH II	41.9	92	9-20	1.2	36	3470
-----	PELLA 86	41.9	92	9-23	1.0	36	2780
YOUNKERMANN	CUTLASS 88	41.6	91	9-21	1.3	37	3450
FONTANELLE	4545	41.5	91	9-21	1.6	37	3540
SEXAUER	SX-2090	41.4	91	9-19	1.5	44	3580
-----	HACK	41.3	90	9-18	1.0	32	2870
DIAMOND BRAND	D201	41.2	90	9-15	1.4	36	3120
TERRA	SPRINT	40.6	89	9-22	1.4	36	3520
-----	CENTURY 84	40.6	89	9-17	1.0	34	3220
-----	LOGAN	39.7	87	9-23	1.7	44	3010
ASGROW	A2234	39.6	87	9-14	1.0	30	3010
SEXAUER	SX-2080	39.5	86	9-15	1.0	34	3080
-----	FREMONT	39.3	86	9-21	1.0	37	3240
TERRA	ADVANCE	39.0	85	9-23	1.2	37	3040
-----	BSR 101	32.1	70	9-14	1.4	34	3200
Average All Entries		41.5		9-19	1.3	36.0	3321
Dif. Req. for Sig. 5%		NS		1.8	NS	1.4	137
25%		1.5		1.1	0.2	0.8	78

Table 13. East Central Soybean Performance. Early. 1984-1988.

BRAND	ENTRY	YIELD BU/A	%	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND
<u>Three Year Average</u>							
STINE	2770	53.9	98	9-20	1.7	37	3370
HORIZON	H-29	53.5	97	9-22	1.5	36	2800
HY-VIGOR	K-3903	52.0	94	9-19	1.8	36	3250
OHLDE	2193	51.7	94	9-24	2.1	37	3440
TRI VALLEY	BLAZER 86	51.4	93	9-19	1.6	36	3300
HOEGEMEYER	205	51.2	93	9-24	2.0	39	3250
DIAMOND BRAND	D201	50.4	91	9-17	1.6	38	2840
PRAIRIE BRAND	ZENITH II	50.4	91	9-24	1.9	38	3310
MC CUBBIN	TAYLOR	50.1	91	9-24	2.2	39	3330
-----	LOGAN	49.6	90	9-25	2.1	46	2810
FONTANELLE	4545	49.5	90	9-24	2.2	38	3350
-----	HACK	49.4	90	9-20	1.2	34	2710
-----	CENTURY 84	48.4	88	9-19	1.0	36	2990
-----	FREMONT	47.0	85	9-23	1.0	39	3030
-----	BSR 101	43.2	78	9-15	1.8	36	3010
Average All Entries		50.1		9-21	1.7	37.7	3120
Dif. Req. for Sig. 5%		2.5		1.5	0.4	0.9	93
25%		1.4		0.9	0.2	0.5	53
<u>Four Year Average</u>							
OHLDE	2193	50.5	100	9-25	2.5	39	3230
HORIZON	H-29	50.0	99	9-21	1.8	37	2670
PRAIRIE BRAND	ZENITH II	49.6	98	9-25	2.1	40	3130
HOEGEMEYER	205	49.3	98	9-25	2.1	40	3090
-----	HACK	48.2	96	9-22	1.1	36	2650
MC CUBBIN	TAYLOR	47.7	95	9-25	2.5	40	3150
-----	CENTURY 84	46.5	92	9-20	1.1	38	2820
-----	LOGAN	46.3	92	9-26	2.3	47	2700
-----	BSR 101	44.9	89	9-16	1.7	37	2860
Average All Entries		48.1		9-23	1.9	39.2	2921
Dif. Req. for Sig. 5%		NS		1.5	0.3	0.8	88
25%		NS		0.8	0.2	0.4	50
<u>Five Year Average</u>							
HOEGEMEYER	205	48.1	104	9-26	2.0	38	3120
MC CUBBIN	TAYLOR	46.4	100	9-25	2.2	38	3140
-----	LOGAN	45.0	97	9-26	2.2	44	2690
Average All Entries		46.5		9-26	2.1	40.1	2983
Dif. Req. for Sig. 5%		NS		NS	NS	1.0	70
25%		1.0		NS	NS	0.6	38

Table 14. East Central Soybean Performance. Washington County. Late. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %
		BU/A	%							
MCCURDY/RIVERSID	3033	40.6	113	9-15	1.3	39	3790	58	33.05	20.50
KRUGER	K2162	39.5	110	9-11	1.8	35	3050	57	33.20	20.50
SOI	EX 385	39.6	110	9-18	1.3	37	3280	57	31.60	20.25
KAUP SEED	EXP 87-7	39.5	110	9-16	1.8	38	3280	58	31.40	20.30
HILL SEED	HS2700	39.5	110	9-13	1.5	40	3880	58	33.50	20.55
FONTANELLE	5111	39.3	110	9-18	1.5	36	3330	57	31.85	20.25
-----	HACK	39.3	110	9- 9	1.0	34	3360	58	32.40	20.75
GOLDEN HARVEST	X 308	39.5	110	9-18	1.3	37	3320	57	31.50	20.90
FONTANELLE	4875	39.0	109	9-24	1.5	33	3420	58	32.85	20.00
DIAMOND BRAND	TC204A	38.3	107	9-14	1.3	37	3640	58	33.55	20.30
JACOBSEN	J972	37.9	106	9-17	1.5	37	3410	57	31.80	20.15
HOEGEMEYER	368	38.1	106	9-16	1.8	38	3410	57	31.80	20.25
DIAMOND BRAND	D285	37.7	105	9-16	1.0	33	3670	58	33.40	19.95
KRUGER	K3067	37.6	105	9-23	1.0	35	3530	43	33.75	19.75
DE SOY	919+5	36.8	103	9-22	1.0	35	3580	58	33.60	19.95
LYNKS SEEDS	LX8280	37.0	103	9-14	1.8	39	3760	58	33.35	20.40
ASGROW	A3205	36.8	103	9-22	1.0	36	3660	58	34.45	19.40
S BRAND	S-57A	37.1	103	9-22	1.0	36	3720	58	32.35	20.45
MIDWEST OILSEEDS	EX3020	36.7	102	9-20	1.3	33	3290	57	33.60	19.70
STAR	8835	36.1	101	9-19	1.5	40	3560	58	32.70	20.30
NORTHROP KING	S 34-19	36.1	101	9-21	1.5	33	3340	57	31.75	20.25
DEKALB-PFIZER	CX326	36.1	101	9-17	1.0	33	4040	59	31.40	20.85
GOLDEN HARVEST	H-1285	36.2	101	9-16	1.3	39	3510	58	33.40	20.35
YOUNKERMANN	CHAMP	36.2	101	9-22	1.0	39	3340	57	32.65	20.75
WILSON BLEND	EXP 8859	35.8	100	9-23	1.0	33	3570	58	34.05	19.80
-----	HOBBIT 87	35.9	100	9-21	1.0	19	3350	58	31.35	21.20
-----	RESNIK	35.5	99	9-20	1.0	35	3810	58	34.00	19.70
NAPB	EX3878	35.6	99	9-16	1.3	44	3220	44	33.00	19.85
LYNKS SEEDS	5288	35.0	98	9-15	1.3	42	3550	57	32.40	20.75
TRI VALLEY	BLAZER 87	35.3	98	9-11	1.8	37	3720	57	31.40	20.95
ATLAS	EX330	35.0	98	9-21	1.0	37	4000	58	32.85	20.00
DE SOY	777-11	35.2	98	9-18	1.8	38	3110	57	33.10	20.20
-----	FREMONT	34.4	96	9-16	1.0	37	3550	58	33.25	20.45
TERRA	CYCLE	34.5	96	9-22	1.0	39	3280	57	32.90	20.40
TERRA	TRIUMPH	34.5	96	9-24	1.5	40	3610	57	32.80	19.85
NORTHROP KING	S 42-30	34.0	95	9-25	1.8	39	3240	58	34.60	20.10
OHLDE	3710	33.9	95	9-24	1.3	39	3200	57	32.80	20.30
-----	PELLA 86	33.9	95	9-15	1.0	35	3040	57	32.75	20.05
MERSHMAN	TRUMAN II	34.0	95	9-20	1.5	39	3440	58	33.00	20.05
-----	CHAMBERLAIN	34.1	95	9-19	1.5	38	3360	58	32.25	20.35
-----	HARPER 87	34.0	95	9-22	1.0	35	2840	58	33.05	20.15
MC CUBBIN	RENO	34.1	95	9-15	1.3	40	3280	57	31.55	20.55
MC CUBBIN	TROY III	34.2	95	9-19	1.0	39	3620	58	32.30	20.25
WILSON BLEND	3182	33.7	94	9-16	1.8	39	3200	57	31.50	20.95
OHLDE	3431	33.8	94	9-21	1.0	35	3050	58	31.10	21.10
MCCURDY/RIVERSID	EXP 279	33.6	94	9-11	1.5	37	3800	57	31.80	20.75
ASGROW	A3427	33.6	94	9-22	1.3	37	3920	58	33.70	20.15
HORIZON	H-32	33.4	93	9-16	1.3	40	3130	43	32.45	20.50
MERSHMAN	WASHINGTON VI	33.5	93	9-24	1.5	40	3370	57	32.45	20.10
SOI	EX 387	33.5	93	9-18	2.0	43	3670	58	32.75	19.95
HY-VIGOR	HYLANDER	33.0	92	9-17	1.0	43	3640	57	30.95	21.00
SEXAUER	SX-3007	32.7	91	9-20	2.0	44	3360	59	34.00	19.30
TRI VALLEY	CORVETTE	32.7	91	9-15	1.3	37	3510	57	32.25	20.20
HILL SEED	EX328	32.6	91	9-17	1.0	38	3540	58	33.70	19.75
AGRIGENE	AG 138	31.4	88	9-25	1.5	41	3470	58	32.95	20.05
S BRAND	S-55A	31.4	88	9-19	1.3	40	3580	58	31.65	20.85
DIAMOND BRAND	D245	30.8	86	9-14	2.3	42	4160	58	30.30	21.65
-----	WINCHESTER	30.4	85	9-23	1.3	39	3320	59	33.50	19.85
STAR	8830	30.5	85	9-15	1.0	39	3510	57	32.25	20.30
NAPB	EX3800	30.6	85	9-22	1.3	37	4400	58	33.70	19.90
-----	HOYT	30.6	85	9- 9	1.0	15	3240	56	33.65	20.60
-----	WILLIAMS 82	29.7	83	9-26	1.5	41	3190	59	33.65	20.00
-----	ZANE	29.4	82	9-21	1.0	40	2840	57	33.35	20.40
HOEGEMEYER	377	28.3	79	9-24	1.5	43	3290	57	33.90	19.75
Average all varieties		35.0		9-18	1.3	37.2	3471	56.9	32.72	20.29
Dif. Req for Sig.	.05	4.1		2.4	0.5	2.7	228	N.S.	1.03	0.58
	.25	2.4		1.4	0.3	1.6	134	N.S.	0.60	0.34

Yield in bushels per acre and % of Fremont, Hack, and Pella 86.
Protein and oil based on 13% moisture.

Table 15. East Central Soybean Performance. Late. 1987-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND
		BU/A	%				
Two Year Average							
HOEGEMEYER	368	47.2	98	9-24	1.6	37	3070
KRUGER	K2162	46.8	97	9-20	1.4	34	2870
JACOBSEN	J972	46.5	97	9-25	1.3	37	3100
MCCURDY/RIVERSID	3033	46.5	97	9-23	1.2	37	3420
-----	HOBBIT 87	45.5	95	9-29	1.0	22	3070
HY-VIGOR	HYLANDER	44.9	93	9-24	1.8	43	3230
TRI VALLEY	BLAZER 87	44.9	93	9-18	1.4	36	3440
HILL SEED	HS2700	44.5	92	9-21	1.3	38	3450
TERRA	TRIUMPH	44.4	92	9-30	1.8	40	3240
LYNKS SEEDS	LX8280	43.9	91	9-22	1.7	36	3400
GOLDEN HARVEST	H-1285	43.4	90	9-23	1.3	36	3260
ASGROW	A3205	43.2	90	9-29	1.0	36	3330
-----	HACK	42.9	89	9-19	1.0	33	2990
TRI VALLEY	CORVETTE	42.8	89	9-22	1.2	37	3290
-----	HARPER 87	42.8	89	9-28	1.0	35	2680
-----	CHAMBERLAIN	42.4	88	9-27	1.8	39	2990
WILSON BLEND	3182	42.4	88	9-24	1.4	38	2890
HORIZON	H-32	42.1	87	9-24	1.2	37	2810
MERSHMAN	TRUMAN II	42.0	87	9-26	1.4	39	3340
MC CUBBIN	RENO	41.9	87	9-23	1.3	37	2940
-----	FREMONT	41.8	87	9-23	1.0	37	3190
-----	PELLA 86	41.4	86	9-24	1.2	36	2740
DIAMOND BRAND	D245	41.2	86	9-22	2.2	42	3640
-----	ZANE	40.4	84	9-27	1.4	38	2650
-----	HOYT	38.1	79	9-17	1.3	19	3140
-----	WINCHESTER	37.0	77	9-29	1.2	39	2980
-----	WILLIAMS 82	36.0	75	10- 2	1.8	41	2970
Average All Entries		42.8		9-24	1.4	36.1	3113
Dif. Req. for Sig. 5%		2.7		1.5	NS	2.3	143
25%		1.5		0.9	NS	1.3	81

Table 16. East Central Soybean Performance. Late. 1983-1988. 1984 Missing.

BRAND	ENTRY	YIELD		MATURE	LODGING	HEIGHT	SEEDS
		BU/A	%	DATE	SCORE	INCHES	POUND
<u>Three Year Average</u>							
HY-VIGOR	HYLANDER	52.2	94	9-27	2.2	43	3070
-----	CHAMBERLAIN	50.8	92	9-30	2.0	40	2810
TRI VALLEY	CORVETTE	50.5	91	9-24	1.6	38	3150
HILL SEED	HS2700	50.5	91	9-25	1.8	39	3270
LYNKS SEEDS	LX8280	50.2	91	9-26	2.1	38	3240
DIAMOND BRAND	D245	49.7	90	9-24	2.6	43	3490
GOLDEN HARVEST	H-1285	49.6	90	9-26	1.8	38	3200
MC CUBBIN	RENO	49.3	89	9-26	1.8	39	2790
-----	HACK	48.9	88	9-22	1.0	34	2820
-----	FREMONT	48.7	88	9-25	1.3	39	3010
MERSHMAN	TRUMAN II	48.6	88	9-28	1.8	40	3230
WILSON BLEND	3182	48.1	87	9-27	1.7	39	2750
-----	HOYT	46.9	85	9-21	1.3	21	3130
-----	ZANE	46.7	84	9-29	1.6	39	2570
-----	WINCHESTER	45.0	81	10- 2	1.6	41	2800
-----	WILLIAMS 82	43.6	79	10- 6	2.0	43	2840
Average All Entries		48.7		9-27	1.8	38.5	3010
Dif. Req. for Sig. 5%		NS		1.6	0.3	1.6	120
25%		1.3		0.9	0.2	0.9	69
<u>Four Year Average</u>							
DIAMOND BRAND	D245	50.0	99	9-27	2.7	45	3350
MC CUBBIN	RENO	49.9	98	9-27	1.9	41	2650
HILL SEED	HS2700	49.6	98	9-26	2.1	40	3100
LYNKS SEEDS	LX8280	49.1	97	9-27	2.3	40	3060
GOLDEN HARVEST	H-1285	49.0	97	9-27	2.1	40	3070
-----	FREMONT	47.3	93	9-27	1.3	41	2840
-----	ZANE	46.6	92	9-30	1.5	40	2460
-----	WINCHESTER	43.2	85	10- 3	1.7	42	2680
-----	WILLIAMS 82	41.8	82	10- 6	2.0	44	2740
Average All Entries		47.4		9-29	1.9	41.2	2883
Dif. Req. for Sig. 5%		2.0		1.6	0.2	1.3	86
25%		1.1		0.9	0.1	0.7	50
<u>Five Year Average</u>							
-----	WINCHESTER	41.0	87	10- 3	1.6	40	2750
-----	WILLIAMS 82	39.9	85	10- 6	1.9	42	2860
Average All Entries		40.5		10- 5	1.7	40.8	2808
Dif. Req. for Sig. 5%		0.5		NS	NS	0.8	NS
25%		0.3		0.7	NS	0.4	51

Table 17. Mead Elite Test Irrigated. Saunders County. 1988.

BRAND	STRAIN	YIELD BU/A	MAT DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEEDS POUND	PROTEIN %	OIL %
TERRA SEED	SPRINT	58.8	9-14	1.6	40	1.8	2732	35.00	19.7
-----	HOBBIT 87	58.7	9-19	1.0	25	1.0	2621	32.40	20.8
SEDEX	270	58.4	9-11	1.6	38	1.3	2964	33.95	19.8
SEDEX	301	58.0	9-16	2.0	40	2.0	2700	33.55	19.8
OHLDE	2193	57.7	9-14	1.6	37	1.5	2765	34.55	19.9
STINE	3700	57.2	9-14	1.5	39	2.0	2668	33.25	19.8
LYNKS SEEDS	LX8280	57.0	9-15	1.8	37	1.8	2749	34.45	19.8
-----	FREMONT	55.2	9-15	1.5	38	1.5	2577	34.05	20.2
HILL SEED	HS2700	54.9	9-13	1.8	36	1.8	2668	35.50	19.7
GOLDEN HARVEST	H-1285	54.9	9-15	1.9	37	1.8	2765	34.90	19.8
TRI-VALLEY	BRAT II	54.7	9-24	1.6	44	1.5	2889	35.05	19.3
YOUNKERMAN	32	54.0	9-22	1.5	40	1.8	2945	35.10	19.3
STINE	3790	53.9	9- 9	1.5	34	1.8	2732	35.00	19.6
-----	CHAMBERLAIN	53.7	9-20	2.0	43	1.8	2765	34.80	19.2
NORTHRUP KING	S23-03	53.5	9- 7	1.9	38	2.0	2425	35.80	19.4
STINE	2510	53.3	9- 7	1.5	33	2.0	2606	31.55	21.3
DIAMOND BRAND	D245	53.1	9-16	2.3	44	1.5	3106	32.10	20.7
-----	RESNIK	53.0	9-22	1.5	40	1.0	3286	35.00	19.3
-----	ELGIN 87	53.0	9- 9	2.0	33	1.8	2534	33.25	20.2
PRIDE	B236	52.9	9- 9	1.3	34	2.5	2212	32.20	20.8
LYNKS SEED	LX8307	52.6	9-17	1.8	40	2.3	2338	34.05	19.9
MIDWEST OILSEEDS	2750	52.5	9-14	1.1	31	2.5	2016	34.55	20.1
ASGROW	A3427	52.5	9-22	1.5	38	1.0	3240	34.50	19.6
-----	BSR101	52.3	9-10	1.8	36	2.0	2520	33.65	19.6
NORTHRUP KING	S27-10	52.2	9- 9	1.5	32	2.5	2425	35.30	19.2
TRI-VALLEY	TV22	52.0	9- 9	1.6	35	2.0	2684	34.00	19.9
S BRAND	S-53A	52.0	9-19	1.9	39	2.0	2592	34.80	19.5
-----	CONRAD	51.8	9- 9	1.4	32	2.0	2478	33.95	20.0
MARSHMAN	TRUMAN II	51.6	9-21	1.8	41	2.0	2984	35.05	19.0
MCCUBBIN	LYON	51.1	9- 5	1.4	30	2.0	2451	32.35	21.1
-----	HACK	50.9	9- 9	1.0	31	2.0	2478	34.10	20.0
-----	CENTURY 84	50.6	9-10	1.4	34	1.8	2438	36.60	18.9
-----	FLYER	50.2	9-24	1.4	41	1.0	3489	35.55	18.8
ASGROW	A3803	49.0	9-25	1.3	37	1.5	2716	37.05	18.4
-----	HARPER 87	48.9	9-21	1.5	36	1.5	2577	35.70	19.0
-----	PELLA 86	47.1	9-15	1.5	35	1.8	2350	35.05	19.5
-----	RIPLEY	45.6	9-22	1.3	32	1.0	4161	33.20	19.8
-----	VINTON 81	43.1	9- 7	1.9	36	2.3	1998	36.35	19.1
-----	HARDIN	41.6	9- 4	2.5	34	2.5	2506	34.30	20.2
-----	HOYT	36.8	9-10	1.0	20	2.0	2302	36.05	19.4
Average		52.3	9-14	1.6	36	1.8	2637	34.44	19.7
LSD (0.05)		6.4	1	0.4	3	0.4	184	0.88	0.3

Table 18. Mead Elite Test Irrigated. Saunders County . 1986-1988.

	STRAIN	YIELD BU/A	MAT. DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEED G/100
	<u>Two Year Average</u>						
-----	HOBBIT 87	56.8	10- 2	1.0	24	1.3	16.8
Golden Harvest	H-1285	55.1	9- 27	1.7	37	1.7	16.0
TerraSeed	SPRINT	53.7	9- 26	1.6	38	1.8	16.2
Hill Seed	HS2700	52.8	9- 25	1.6	37	1.9	16.4
-----	CHAMBERLAIN	50.4	9- 30	1.6	43	1.8	17.0
-----	ELGIN 87	50.1	9- 20	1.6	34	1.8	17.0
Mershman	TRUMAN II	49.8	9- 30	1.6	41	2.0	15.4
-----	FREMONT	49.7	9- 26	1.4	38	1.8	16.9
-----	HARPER 87	48.7	10- 1	1.3	37	1.6	18.8
Stine	2510	48.3	9- 18	1.3	33	2.3	16.4
-----	BSR 101	48.1	9- 18	1.4	37	2.3	16.8
-----	HACK	47.8	9- 21	1.0	33	2.6	17.3
-----	CENTURY 84	47.1	9- 21	1.2	34	1.9	17.4
-----	RIPLEY	47.1	10- 5	1.1	31	1.1	12.6
-----	PELLA 86	47.0	9- 25	1.3	36	1.9	19.1
-----	HOYT	41.9	9- 23	1.0	22	1.9	16.6
-----	HARDIN	40.2	9- 16	2.1	36	2.4	16.3
Average all varieties		49.1	9- 25	1.4	35	1.9	16.6
Dif req sig 5%		8.1	4	0.4	4	0.5	1.8
	<u>Three Year Average</u>						
Golden Harvest	H-1285	53.5	9-27	1.8	37	1.8	16.5
-----	CHAMBERLAIN	52.4	9-30	1.7	42	1.8	17.9
Mershman	TRUMAN II	51.9	9-30	1.4	41	2.0	15.7
-----	ELGIN 87	50.8	9-22	1.7	33	1.8	17.1
-----	RIPLEY	50.2	10 6	1.1	30	1.2	13.3
-----	PELLA 86	49.9	9-26	1.2	37	2.2	19.5
-----	HACK	49.7	9-23	1.0	34	3.0	17.5
-----	CENTURY 84	49.1	9-22	1.1	36	2.1	17.7
-----	BSR 101	48.2	9-18	1.3	37	2.5	17.5
-----	HOYT	48.1	9-23	1.0	23	1.8	16.1
Average all varieties		50.4	9-26	1.3	35	2.0	16.9
Dif req sig 5%		7.8	3	0.4	3	0.6	2.5

Table 19. Mead Public Varieties Nonirrigated. Saunders County. 1988.

STRAIN	YIELD BU/A	MAT DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEEDS POUND
RESNIK	24.8	9-18	1.3	33	1.5	4050
8563023	23.4	8-31	1.5	32	2.8	3194
HACK	22.5	9- 3	1.3	32	2.0	3600
PELLA 86	21.7	9- 9	1.3	32	2.3	2945
CONRAD	21.5	9- 5	1.0	33	2.3	3811
CENTURY 84	21.5	9- 4	1.3	30	2.5	3263
8566042	21.1	9- 4	1.0	36	3.0	3489
LOGAN	20.9	9- 9	1.3	36	2.5	3240
HARPER 87	20.7	9-18	1.0	32	2.3	2852
ZANE	20.6	9-12	1.3	35	2.3	2817
8571074	20.5	9-14	1.3	34	2.0	4239
8568024	20.5	9- 5	1.0	32	2.8	3687
8571089	20.5	9-17	1.0	32	2.0	3844
ELGIN 87	20.1	9- 3	1.3	29	3.0	3811
CHAMBERLAIN	19.6	9-14	1.3	35	2.5	3335
8571088	19.4	9-18	1.0	31	2.3	3748
HOBBIT 87	19.3	9-12	1.0	22	2.0	3978
BSR 101	19.1	8-29	1.8	34	4.0	4086
8568023	18.8	9- 2	1.3	36	2.5	3844
SPENCER	18.6	9-24	1.0	39	2.0	3628
HOYT	18.1	9- 6	1.0	20	2.5	3217
FREMONT	18.1	9- 7	1.0	35	3.3	3687
WILLIAMS 82	18.0	9-24	1.0	39	1.5	3489
8564055	16.8	9- 2	1.8	38	2.5	3516
FLYER	16.4	9-24	1.0	32	2.0	4050
8571084	16.2	9-17	1.0	35	2.3	3844
HARDIN	15.8	8-22	1.5	32	3.3	4123
8571073	14.3	9-15	1.5	36	2.3	3811
SIBLEY	13.0	8-24	1.0	32	4.5	3748
RIPLEY	12.2	9-25	1.0	32	2.3	4279
Average	19.1	9-10	1.2	33	2.5	3600
LSD (0.05)	4.2	3	0.4	4	0.8	400

Table 20. Mead Dryland Public Soybean Test. Saunders County. 1986-88.

STRAIN	YIELD BU/A	MAT. DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEEDWT G/100
<u>Two Year Average</u>						
HOBBIT 87	37.4	9-22	1.0	23	1.5	13.7
HACK	35.3	9-13	1.2	35	2.0	15.4
CONRAD	34.9	9-14	1.1	35	1.8	13.8
ELGIN 87	34.8	9-14	1.3	32	2.3	13.8
PELLA 86	34.6	9-17	1.1	35	2.1	17.3
HARPER 87	34.3	9-24	1.0	35	2.1	17.5
CENTURY 84	34.1	9-13	1.1	33	2.3	15.4
CHAMBERLAIN	34.0	9-21	1.2	40	2.1	15.7
ZANE	33.9	9-20	1.1	38	2.1	17.9
BSR 101	33.2	9- 8	1.6	36	3.0	14.1
HOYT	33.2	9-15	1.0	22	1.8	14.2
SPENCER	32.5	9-28	1.0	40	1.8	14.8
FREMONT	32.2	9-16	1.0	38	2.5	14.2
HARDIN	30.5	9- 1	1.9	36	2.5	13.1
LOGAN	29.5	9-17	1.6	40	2.0	15.6
RIPLEY	29.5	9-29	1.1	32	1.6	12.3
WILLIAMS 82	28.8	9-29	1.3	43	1.4	14.8
Average	33.1	9-12	1.2	35	2.1	14.9
Dif req sig 5%	6.5	7	0.5	4	0.9	1.8
<u>Three Year Average</u>						
CHAMBERLAIN	41.1	9- 24	1.5	41	2.0	16.6
HOYT	40.9	9- 18	1.1	24	1.5	14.2
PELLA 86	40.9	9- 20	1.1	36	2.2	18.0
HACK	40.2	9- 17	1.1	36	2.3	16.3
CENTURY 84	39.8	9- 16	1.2	35	2.3	15.9
BSR 101	39.2	9- 11	1.6	37	2.9	15.2
FREMONT	38.7	9- 20	1.3	39	2.3	15.2
ZANE	38.7	9- 22	1.3	39	2.2	18.5
RIPLEY	37.1	10- 2	1.0	31	1.4	13.0
WILLIAMS 82	35.6	10- 2	2.0	44	1.6	15.8
LOGAN	34.9	9- 21	1.9	43	2.0	16.5
Average	28.8	9-21	1.4	37	2.1	15.9
Dif req sig 5%	4.9	2	0.7	3	0.8	1.6

Table 21. Mead Public Varieties Irrigated. Saunders County. 1988.

STRAIN	YIELD BU/A	MAT DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEEDS POUND	PROTEIN %	OIL %
8571074	49.3	9-18	1.0	35	1.0	3310	34.95	19.20
8564055	49.3	9-10	1.3	34	2.3	2465	33.80	19.80
8571089	48.9	9-20	1.3	34	1.0	3360	35.30	19.15
ELGIN 87	48.5	9-11	1.3	30	1.8	2945	34.85	19.55
CHAMBERLAIN	46.1	9-18	1.0	42	1.5	3106	34.75	19.10
HOBBIT 87	45.8	9-19	1.0	19	1.3	3064	33.65	20.15
PELLA 86	45.8	9-16	1.3	31	1.8	2387	35.30	19.05
BSR 101	45.3	9-10	1.3	30	3.0	2668	33.90	19.75
ZANE	45.0	9-19	1.0	33	2.0	2302	35.55	19.25
RESNIK	44.9	9-18	1.0	29	1.0	3410	37.15	18.15
HACK	44.8	9-11	1.0	26	2.0	2732	34.00	19.90
CENTURY 84	44.7	9-12	1.0	29	2.3	2652	37.00	18.45
8568024	44.2	9-11	1.0	32	2.0	2889	36.65	18.70
8571088	43.4	9-22	1.0	34	1.0	3571	36.60	18.40
HARPER 87	43.3	9-17	1.0	30	1.5	2637	36.40	18.65
8563023	42.8	9- 7	1.0	28	3.0	2338	35.85	19.05
SPENCER	42.8	9-25	1.0	37	1.3	3462	35.15	18.80
8568023	42.5	9-10	1.0	30	2.5	3024	34.95	19.45
FLYER	42.0	9-24	1.0	34	1.0	3876	36.85	18.45
8571084	42.0	9-19	1.3	35	1.3	4200	34.15	19.20
8571073	40.6	9-19	1.3	32	1.5	3489	36.50	18.70
CONRAD	39.8	9- 9	1.0	32	2.3	2926	34.65	19.65
8566042	39.1	9- 8	1.0	28	3.0	2749	35.45	19.30
FREMONT	38.7	9-16	1.0	28	2.3	2749	36.30	19.15
LOGAN	38.7	9-16	1.0	35	1.8	2700	35.80	19.20
WILLIAMS 82	38.0	9-21	1.3	36	1.0	3240	36.90	18.40
HARDIN	33.1	9- 5	1.3	26	3.5	2621	35.85	19.50
SIBLEY	32.4	9- 3	1.0	24	3.3	2326	35.90	19.55
RIPLEY	31.3	9-23	1.0	27	1.3	4361	34.85	19.15
HOYT	25.1	9-11	1.0	18	2.3	2350	35.95	19.45
Average	41.9	9-15	1.1	30	1.9	2908	35.50	19.14
LSD (0.05)	6.0	4	0.4	6	0.6	317	1.57	0.80

Table 22. Mead Irrigated Public varieties. Saunders County. 1986-1988.

STRAIN	YIELD BU/A	MAT. DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEEDWT G/100
<u>Two Year Average</u>						
HOBBIT 87	48.0	9-26	1.0	21	1.4	15.6
ELGIN 87	47.6	9-17	1.1	31	1.6	15.3
CHAMBERLAIN	46.5	9-24	1.0	39	1.4	16.5
PELLA 86	46.1	9-21	1.1	32	1.9	19.7
ZANE	45.9	9-23	1.0	33	1.9	20.3
SPENCER	45.2	9-29	1.0	37	1.4	15.3
CONRAD	44.4	9-16	1.0	31	1.8	15.7
HARPER 87	43.4	9-24	1.0	30	1.7	18.9
BSR 101	43.3	9-13	1.1	30	2.5	16.8
HACK	42.8	9-17	1.0	28	2.4	16.5
CENTURY 84	40.9	9-17	1.0	30	2.0	17.1
FREMONT	40.3	9-21	1.0	31	1.9	16.3
WILLIAMS 82	39.7	9-28	1.2	37	1.3	15.3
RIPLEY	38.2	9-29	1.0	27	1.2	12.1
LOGAN	38.1	9-20	1.3	37	1.7	16.5
HARDIN	32.9	9-10	1.3	31	2.9	15.5
HOYT	30.4	9-17	1.0	20	1.7	16.2
Average	42.0	9-21	1.1	31	1.8	16.4
Dif req sig 5%	8.2	4	0.3	5	0.9	4.0
<u>Three Year Average</u>						
CHAMBERLAIN	49.4	9- 26	1.3	41	1.6	17.6
PELLA 86	48.8	9- 22	1.1	32	2.0	19.8
ZANE	47.9	9- 25	1.0	34	2.0	20.6
BSR 101	45.5	9- 14	1.1	33	2.6	16.8
HACK	45.0	9- 19	1.0	31	2.6	16.8
RIPLEY	44.6	10- 2	1.0	28	1.1	12.9
FREMONT	44.1	9- 23	1.0	34	2.0	16.6
CENTURY 84	43.6	9- 18	1.0	32	2.1	17.1
WILLIAMS 82	43.2	10- 1	1.4	38	1.5	16.3
LOGAN	40.8	9- 23	1.5	40	1.9	16.8
HOYT	40.5	9- 19	1.0	22	1.5	15.5
Average	44.9	9-23	1.3	33	1.9	17.0
Dif req sig 5%	9.0	3	0.4	4	0.6	2.7

Table 23. Lincoln Public Varieties Nonirrigated. Lancaster County. 1988

STRAIN	YIELD BU/A	MAT DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEEDS POUND
HACK	52.2	9-12	1.0	40	2.3	3024
HARDIN	49.6	9- 8	3.3	45	2.5	3172
HOYT	48.2	9-12	1.0	22	1.8	3172
BSR 101	47.8	9- 9	1.0	37	2.5	3106
8564055	46.4	9-12	1.0	48	2.0	2926
8568024	46.0	9-13	1.0	47	2.0	3286
8568023	46.0	9-11	1.0	45	2.0	3217
CENTURY 84	45.5	9-11	1.0	39	2.0	3150
ELGIN 87	45.0	9-11	1.5	37	2.3	3044
HOBBIT 87	44.6	9-22	1.0	24	1.5	3600
8566042	44.3	9-12	1.0	46	2.8	2964
8563023	44.3	9- 8	1.3	38	2.5	2637
LOGAN	43.5	9-17	1.0	51	2.0	3106
8571089	42.6	9-19	1.0	43	1.5	3844
CONRAD	42.5	9-13	1.0	39	2.0	3489
FREMONT	42.0	9-14	1.0	43	2.0	3385
PELLA 86	39.8	9-16	1.0	43	2.0	2817
SIBLEY	39.4	9- 4	2.5	40	2.5	2945
ZANE	38.0	9-23	1.0	41	2.3	2800
HARPER 87	38.0	9-24	1.0	42	2.0	3085
RESNIK	37.2	9-22	1.0	40	1.0	3876
8571088	36.7	9-26	1.0	46	1.5	4123
CHAMBERLAIN	36.4	9-21	1.0	46	2.0	3410
8571074	34.8	9-21	1.0	46	1.3	4403
8571073	34.2	9-25	1.0	48	1.5	3844
FLYER	33.3	9-27	1.0	46	1.0	4161
RIPLEY	33.2	9-27	1.0	30	1.5	4825
8571084	30.6	9-22	1.0	48	2.0	4161
SPENCER	29.6	9-28	1.0	46	2.0	3085
WILLIAMS 82	28.0	9-28	1.0	50	1.5	3600
Average	40.7	9-17	1.2	42	1.9	3335
LSD (0.05)	4.3	3	0.6	3	0.3	368

Table 23A. Lincoln Elite Test Nonirrigated. Lancaster County. 1988.

BRAND	STRAIN	YIELD BU/A	MAT DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEEDS POUND	PROTEIN %	OIL %
-----	HACK	56.5	9-14	1.0	40	2.0	2732	33.90	19.8
MIDWEST OILSEEDS	2750	55.9	9-13	1.0	35	2.3	2520	33.50	20.5
OHLDE	2193	55.4	9-17	1.3	46	1.8	2984	34.65	19.7
-----	HARDIN	55.3	9-10	2.3	46	2.3	2870	33.95	20.3
HILL SEED	HS2700	55.0	9-18	1.0	45	1.8	3194	34.60	19.6
NORTHROP KING	S23-03	54.2	9-13	1.0	40	2.0	2835	35.55	19.1
LYNKS SEEDS	LX8280	54.0	9-19	1.0	45	1.8	3240	34.85	19.6
-----	CENTURY 84	54.0	9-13	1.0	38	2.0	2716	35.10	19.3
NORTHROP KING	S27-10	53.9	9-13	1.0	39	2.0	3024	34.55	19.6
-----	CONRAD	52.6	9-16	1.0	40	1.8	3024	34.05	19.7
GOLDEN HARVEST	H-1285	51.6	9-20	1.3	46	2.0	3217	35.00	19.4
-----	FREMONT	50.9	9-16	1.0	46	1.8	2907	35.15	19.4
TRI-VALLEY	TV22	50.9	9-13	1.0	40	2.0	3335	34.85	19.4
MCCUBBIN	LYON	50.5	9- 9	1.0	35	2.0	2852	32.00	20.9
-----	HOBBIT 87	50.4	9-24	1.0	25	1.0	3194	33.20	20.3
PRIDE	B236	50.0	9-14	1.0	41	2.3	2520	32.05	20.6
TERRA SEED	SPRINT	49.9	9-19	1.0	47	1.8	3172	34.55	19.5
-----	ELGIN 87	49.9	9-12	1.3	36	2.0	2907	33.45	19.9
STINE	2510	49.7	9- 9	1.0	34	2.0	2926	32.00	20.8
-----	VINTON 81	49.5	9-11	1.0	44	2.8	2191	36.60	18.8
-----	HOYT	49.5	9-17	1.0	20	1.5	2870	34.50	20.0
STINE	3700	49.4	9-19	1.0	44	2.0	3217	34.70	19.2
SEED EX	270	48.9	9-13	1.0	44	1.0	3436	34.60	19.2
-----	BSR101	48.7	9-12	1.0	37	2.5	2765	32.90	20.0
-----	HARPER 87	47.2	9-24	1.0	38	2.0	2800	36.85	18.5
STINE	3790	47.1	9-14	1.0	44	1.3	3360	35.25	18.9
YOUNKERMAN	32	46.9	9-26	1.0	45	2.0	3150	34.70	19.3
-----	PELLA 86	46.7	9-21	1.0	45	1.8	2652	35.15	19.3
LYNKS SEED	LX8307	46.6	9-20	1.0	46	2.0	2800	34.35	19.4
SEED EX	301	46.5	9-19	1.0	46	2.0	3335	34.75	19.0
S BRAND	S-53A	46.5	9-20	1.0	46	2.0	3217	34.75	19.1
-----	RESNIK	45.7	9-24	1.0	43	1.0	3748	36.10	18.7
-----	CHAMBERLAIN	45.0	9-23	1.0	48	2.0	3085	35.30	18.9
ASGROW	A3803	44.2	9-28	1.0	42	1.5	3044	36.90	18.2
TRI-VALLEY	BRAT II	44.1	9-26	1.0	45	1.8	3489	36.15	18.6
DIAMOND BRAND	D245	43.6	9-22	1.3	49	2.0	3658	33.50	20.0
ASGROW	A3427	43.4	9-24	1.0	41	1.0	3687	36.00	18.7
MARSHMAN	TRUMAN II	42.1	9-22	1.0	45	2.0	3489	36.05	18.4
-----	FLYER	40.1	9-27	1.0	44	1.0	3910	37.30	18.0
-----	RIPLEY	36.1	9-28	1.0	27	1.5	4536	34.30	19.2
AVERAGE		49.0	9-18	1.1	41	1.8	3065	34.73	19.4
LSD (0.05)		5.1	2	0.3	4	0.4	207	1.22	1.1

Table 24. Southeast Soybean Performance. Nemaha County. Early. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %
		BU/A	%							
-----	WILLIAMS 82	31.4	121	9-22	2.3	45	3470	58	34.40	19.45
-----	HACK	30.1	116	9- 2	1.0	35	3910	57	33.55	20.05
LEWIS	310	30.1	116	9-13	1.8	38	4220	57	33.90	19.35
LEWIS	330	29.7	115	9-12	2.0	43	4270	56	33.20	19.85
NAPB	EX3800	29.5	114	9-16	1.5	40	4050	57	34.40	19.45
CUSTOM FARM SEED	CFS 330	29.0	112	9-12	1.8	39	4250	56	34.65	19.05
HOEGEMEYER	377	28.8	111	9-17	1.8	46	3680	57	33.75	19.40
ASGROW	A3205	28.8	111	9-14	2.0	39	4200	57	35.10	18.65
S BRAND	S-60J	28.6	110	9-13	2.0	40	3560	56	34.45	19.20
JACQUES	J-361	28.4	110	9-16	1.3	42	3690	57	34.05	19.50
HOEGEMEYER	368	28.2	109	9-10	1.8	39	3720	56	34.30	19.15
DIAMOND BRAND	TC204A	28.3	109	9- 4	1.8	37	4350	57	34.75	19.45
SRF	EX 11017	28.1	108	9-13	1.8	40	4200	58	35.25	18.15
GOLDEN HARVEST	X 308	27.9	108	9-10	1.8	41	3810	56	33.40	19.30
OHLDE	3000	28.0	108	9-10	2.0	40	3780	56	33.80	19.00
GOLDEN HARVEST	X 355	27.7	107	9-13	1.8	47	4480	57	34.00	19.25
-----	ZANE	27.4	106	9-12	1.8	40	2950	56	33.80	19.90
FONTANELLE	5808	27.3	105	9-18	1.5	43	3920	56	34.25	19.50
DE SOY	929	27.2	105	9-12	2.0	41	3810	56	35.60	18.75
-----	HARPER 87	27.3	105	9-13	1.8	39	3250	57	34.50	19.45
KAUP SEED	EXP 87-7	27.1	104	9- 9	1.8	40	3860	56	33.90	18.75
-----	RESNIK	26.7	103	9-13	1.5	37	4060	56	35.40	18.75
KRUGER	K3067	26.5	102	9-11	2.0	39	4520	57	35.00	18.90
WILSON BLEND	3165	26.0	100	9- 9	2.0	41	3630	56	33.75	19.05
-----	CHAMBERLAIN	25.8	99	9-12	2.3	43	3770	58	33.95	19.25
-----	FARM ENTRY	25.5	98	9-14	1.0	37	4100	56	35.45	19.05
-----	HOBBIT 87	25.3	98	9-11	1.0	19	3920	56	34.20	19.55
PRAIRIE BRAND	PB-EXP315	25.3	98	9-14	1.3	42	4050	56	34.45	19.30
MCCURDY/RIVERSID	375B	25.3	98	9- 8	2.3	42	4610	56	34.80	19.00
ASGROW	A3427	25.5	98	9-14	1.3	38	4200	57	34.75	19.30
DE SOY	933+	24.8	96	9-16	1.8	46	3970	57	34.30	19.10
TRI VALLEY	CAPRI	25.0	96	9-12	1.8	40	3580	56	35.80	18.60
S BRAND	S-55A	24.6	95	9-13	2.0	43	4420	56	33.85	19.50
DEKALB-PFIZER	CX326	24.7	95	9-11	2.0	38	5190	57	34.25	18.85
WILSON BLEND	3182	24.3	94	9- 6	2.0	39	3760	55	33.50	19.60
MERSHMAN	TRUMAN II	24.3	94	9-12	1.8	41	4020	56	34.85	19.15
-----	LOGAN	24.3	94	9- 7	2.5	46	4000	57	34.05	19.40
KRUGER	K3068	24.0	93	9-11	1.8	39	4500	57	34.50	19.25
-----	FREMONT	23.9	92	9- 5	1.3	42	4200	56	35.40	18.90
MC CUBBIN	GENTRY	23.8	92	9-21	2.0	45	3710	58	34.55	19.35
MCCURDY/RIVERSID	3605	23.9	92	9-13	2.0	44	4090	56	35.10	18.45
NORTHROP KING	S 30-31	23.7	91	9- 7	2.0	44	4250	57	34.85	19.20
OHLDE	3710	23.7	91	9-17	1.8	42	3740	56	34.60	18.95
LYNKS SEEDS	5288	23.3	90	9- 7	2.0	46	4120	56	34.45	19.35
MIDWEST OILSEEDS	EX3030	22.7	88	9-12	1.5	44	3880	56	33.50	19.70
-----	WINCHESTER	22.5	87	9-18	1.8	42	3680	58	36.50	18.20
-----	PELLA 86	22.5	87	9- 7	1.5	37	3370	56	34.70	19.25
TERRA	MARATHON	22.4	86	9-11	2.0	42	3970	57	34.75	19.00
DIAMOND BRAND	D285	22.3	86	9- 8	1.5	38	4380	56	35.65	18.70
FONTANELLE	4875	22.3	86	9-11	2.0	36	4070	56	33.80	19.10
KAUP SEED	KS 3555	22.1	85	9-10	2.0	42	4060	56	34.80	18.90
TERRA	ADVANCE	22.1	85	9- 6	2.0	41	3880	55	33.85	19.25
HILL SEED	EX348	21.2	82	9-16	1.8	42	3660	56	34.85	19.15
NORTHROP KING	S 29-20	20.6	79	9- 6	1.8	39	4210	56	34.60	19.60
LYNKS SEEDS	LX8307	20.2	78	9- 6	1.8	41	3880	55	35.00	18.95
CUSTOM FARM SEED	CFS 320	20.2	78	9- 9	2.0	43	3990	42	34.40	19.15
HORIZON	H-32	19.9	77	9- 5	1.8	38	3980	55	34.35	18.85
NAPB	EX3878	19.1	74	9- 8	2.0	46	3710	58	34.80	18.45
DIAMOND BRAND	D245	17.6	68	9- 7	2.5	46	4340	56	33.30	19.90
YOUNKERMEN	MUSTANG	17.4	67	9- 4	2.0	39	4220	55	35.35	18.65
YOUNKERMEN	MONARCH	15.1	58	9- 2	1.8	40	4060	55	34.90	18.75
MERSHMAN	HOOPER	13.8	53	9- 5	2.0	42	4000	55	35.15	18.70
TRI VALLEY	CORVETTE	13.7	53	9- 6	1.8	43	3900	55	35.10	18.55
MC CUBBIN	EX 26802	13.1	51	9- 6	2.0	43	3740	55	34.60	18.90
Average all varieties		24.4		9-11	1.8	40.7	3982	56.1	34.51	19.13
Dif. Req for Sig. .05		4.3		2.2	0.5	2.2	328	N.S.	1.12	0.63
		.25	2.5	1.3	0.3	1.3	192	N.S.	0.66	0.54

Yield in bushels per acre and % of Fremont, Pella 86, and Williams 82.
Protein and oil content based on 13% moisture.

Table 25. Southeast Soybean Performance. Early. 1987-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND
		BU/A	%				
Two Year Average							
ASGROW	A3205	39.2	93	9-19	2.0	36	3870
ASGROW	A3427	38.9	92	9-20	1.6	36	3790
-----	WILLIAMS 82	37.7	90	9-24	2.2	42	3290
SRF	EX 11017	37.6	89	9-20	1.7	35	3940
-----	HARPER 87	37.2	88	9-18	1.7	36	2980
-----	HOBBIT 87	36.9	88	9-17	1.0	21	3710
DE SOY	933+	36.3	86	9-19	2.1	42	3590
MC CUBBIN	GENTRY	36.2	86	9-23	2.0	41	3390
-----	CHAMBERLAIN	36.1	86	9-17	2.1	41	3450
MERSHMAN	TRUMAN II	36.0	86	9-18	1.9	38	3650
-----	ZANE	35.2	84	9-16	1.4	37	2830
-----	HACK	35.0	83	9- 4	1.0	33	3610
-----	FARM ENTRY	35.0	83	9-17	1.3	36	4030
-----	WINCHESTER	34.5	82	9-22	1.9	41	3320
CUSTOM FARM SEED	CFS 320	34.1	81	9-16	1.8	38	3680
-----	PELLA 86	33.4	79	9-11	1.3	35	3080
WILSON BLEND	3182	33.1	79	9-11	1.9	37	3530
HORIZON	H-32	32.4	77	9-12	2.1	37	3540
-----	FREMONT	31.0	74	9- 9	1.3	38	3890
TERRA	ADVANCE	30.9	73	9-12	1.9	38	3580
LYNKS SEEDS	LX8307	30.2	72	9-13	1.7	37	3540
TRI VALLEY	CORVETTE	29.5	70	9-10	1.8	40	3660
DIAMOND BRAND	D245	29.0	69	9-12	2.4	42	4030
-----	LOGAN	26.8	64	9-13	2.3	39	3570
Average All Entries		34.2		9-15	1.7	37.1	3562
Dif. Req. for Sig. 5%		NS		2.3	0.3	2.5	131
25%		NS		1.3	0.2	1.4	75

Table 26. Southeast Soybean Performance. Early. 1984-1988.

BRAND	ENTRY	YIELD		MATURE	LODGING	HEIGHT	SEEDS
		BU/A	%	DATE	SCORE	INCHES	POUND
Three Year Average							
-----	CHAMBERLAIN	48.3	98	9-18	2.2	42	3100
ASGROW	A3427	45.8	93	9-21	1.6	37	3440
MERSHMAN	TRUMAN II	45.1	91	9-21	2.4	40	3370
-----	FARM ENTRY	44.3	90	9-19	1.3	36	3690
-----	ZANE	43.7	88	9-17	1.8	37	2670
-----	WILLIAMS 82	43.5	88	9-26	2.2	43	3080
-----	WINCHESTER	42.9	87	9-24	2.1	42	3040
-----	HACK	42.6	86	9- 8	1.2	34	3310
WILSON BLEND	3182	42.5	86	9-14	2.2	38	3190
CUSTOM FARM SEED	CFS 320	42.0	85	9-19	2.2	40	3390
-----	FREMONT	39.5	80	9-11	1.7	39	3540
LYNKS SEEDS	LX8307	38.0	77	9-16	1.9	39	3200
TERRA	ADVANCE	37.5	76	9-15	2.3	39	3240
-----	LOGAN	36.3	73	9-15	2.8	41	3270
DIAMOND BRAND	D245	32.7	66	9-14	2.8	41	3700
Average All Entries		41.6		9-17	2.0	39.3	3283
Dif. Req. for Sig. 5%		3.8		1.7	0.3	1.6	116
25%		2.2		0.9	0.2	0.9	66
Four Year Average							
ASGROW	A3427	47.8	97	9-23	1.7	38	3280
-----	ZANE	45.3	92	9-18	1.6	38	2580
-----	WINCHESTER	44.3	90	9-26	2.0	42	2870
-----	WILLIAMS 82	44.2	90	9-27	2.1	44	2960
LYNKS SEEDS	LX8307	43.1	88	9-17	1.8	39	2940
-----	FREMONT	42.7	87	9-14	1.6	39	3280
-----	LOGAN	41.0	83	9-18	2.6	42	3040
Average All Entries		44.0		9-20	1.9	40.3	2993
Dif. Req. for Sig. 5%		NS		1.5	0.3	1.3	144
25%		NS		0.8	0.1	0.8	82
Five Year Average							
-----	ZANE	45.1	95	9-19	1.6	38	2560
-----	WINCHESTER	43.3	91	9-27	1.8	41	2840
-----	WILLIAMS 82	43.2	91	9-28	2.1	43	2960
-----	FREMONT	42.1	89	9-15	1.6	39	3230
-----	LOGAN	41.2	87	9-19	2.6	43	2960
Average All Entries		43.0		9-21	1.9	40.8	2909
Dif. Req. for Sig. 5%		NS		1.3	0.2	1.4	127
25%		NS		0.7	0.1	0.8	71

Table 27. Southeast Soybean Performance. Nemaha County. Late. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %
		BU/A	%							
S BRAND	S-648	30.4	133	9-14	1.8	42	4000	56	35.50	19.25
GOLDEN HARVEST	H-1391	29.6	129	9-16	1.3	41	3940	56	34.50	19.55
TRI VALLEY	CATALINA	29.3	128	9-19	1.8	42	3660	56	34.65	19.45
YOUNKERMEN	CHAMP	29.1	127	9-16	1.3	42	3860	56	35.20	19.35
MIDWEST OILSEEDS	3940	28.8	126	9-12	1.5	38	4470	57	34.55	19.35
DIAMOND BRAND	D300	28.8	126	9-10	2.0	40	4060	56	36.75	18.60
TRI VALLEY	CHARGER 90	28.6	125	9-12	2.0	41	3670	57	35.35	19.20
LYNKS SEEDS	5387	28.7	125	9-14	1.3	43	3810	56	34.95	19.45
SOI	389	28.3	124	9-20	1.5	43	3850	57	35.50	18.95
TERRA	CYCLE	28.5	124	9-19	1.5	43	3950	56	33.20	20.10
TAYLOR	TSF330	28.1	123	9-11	2.0	41	3670	56	34.40	19.60
DE SOY	919+5	27.7	121	9-13	1.8	39	4190	57	33.75	19.95
TERRA	TRIUMPH	27.5	120	9-15	2.8	45	4260	56	34.50	19.25
S BRAND	S-67	27.5	120	9-18	1.5	42	3870	57	35.85	19.00
DEKALB-PFIZER	CX366	27.4	120	9-14	1.8	43	4000	57	34.90	19.35
KRUGER	K3070	27.3	119	9-19	1.5	42	3680	57	34.70	19.40
ASGROW	A3733	27.3	119	9-23	1.3	38	3500	57	36.35	19.00
DIAMOND BRAND	D305	27.0	118	9-17	1.8	44	3760	57	34.90	19.25
HOEGEMEYER	395	26.9	117	9-16	1.5	43	3540	57	34.90	19.55
NORTHROP KING	S 36-36	26.7	117	9-20	1.8	43	3900	57	35.00	19.20
SANSGAARD SEED	S-350	26.7	117	9-19	1.8	46	3570	57	34.50	19.40
STINE	3790	26.6	116	9-16	1.8	42	3720	57	34.90	19.50
WILSON BLEND	3490	26.5	116	9-17	1.8	47	3930	57	33.80	19.90
MERSHMAN	FILLMORE	26.2	114	9-12	2.0	41	3660	57	36.25	18.55
LEWIS	367	26.1	114	9-20	1.8	46	4230	57	33.80	19.45
KRUGER	KB375	25.8	113	9-14	2.0	41	3900	57	34.65	19.25
MC CUBBIN	EX 38106	25.9	113	9-12	1.8	41	4120	57	36.50	18.30
NORTHROP KING	S 42-30	25.9	113	9-21	1.0	42	3700	57	35.70	19.10
OHLDE	3610	25.6	112	9-16	1.8	46	3950	57	35.65	18.80
ATLAS	350	25.4	111	9-12	2.0	41	3630	57	35.85	18.90
DIAMOND BRAND	D301	25.5	111	9-15	2.0	47	4050	57	34.95	19.35
MERSHMAN	WASHINGTON VI	25.4	111	9-19	1.8	43	3810	57	35.65	19.00
TAYLOR	TSF365	25.3	110	9-16	2.0	47	3970	57	34.85	19.05
FONTANELLE	6108	25.3	110	9-19	1.8	45	3760	57	34.85	19.80
WILSON BLEND	EXP 8859	25.2	110	9-18	1.3	37	3950	57	36.40	19.05
MCCURDY/RIVERSID	373	25.3	110	9-17	2.0	47	4030	57	35.55	19.10
ASGROW	A3803	24.9	109	9-21	1.0	36	3270	58	36.80	18.60
-----	RIPLEY	24.9	109	9-20	1.0	29	4570	59	35.10	19.25
OHLDE	3431	24.9	109	9-11	1.5	39	4010	56	33.95	19.55
HOEGEMEYER	394	24.4	107	9-14	2.0	43	3970	57	35.15	19.15
MCCURDY/RIVERSID	EXP 420	23.8	104	9-24	1.5	41	3970	58	35.65	18.40
-----	FREMONT	23.4	102	9- 6	1.8	42	4380	56	36.75	18.95
-----	WILLIAMS 82	23.3	102	9-21	2.0	45	3770	58	35.60	19.10
STAR	8836	23.1	101	9-14	2.0	47	4120	57	34.75	19.45
YOUNKERMEN	NEWPORT	23.1	101	9-19	1.8	44	4070	57	34.40	19.25
KAUP SEED	KS 3790	22.2	97	9-14	1.8	45	4130	56	35.45	19.05
-----	WINCHESTER	22.2	97	9-17	1.5	41	3330	58	36.65	18.80
-----	PELLA 86	22.0	96	9- 8	2.0	37	3680	56	34.80	19.50
STAR	8839	21.6	94	9-19	2.0	44	3860	57	34.60	19.30
MC CUBBIN	WINDSOR	20.2	88	9-12	2.0	45	4020	55	34.55	19.20
LYNKS SEEDS	LX8393	20.1	88	9-16	2.0	44	4280	57	34.85	19.40
DIAMOND BRAND	D310	17.7	77	9-13	2.0	44	4060	56	34.15	19.45
STINE	3810	12.3	54	9- 5	2.0	42	4150	55	33.10	20.25
Average all varieties		25.5		9-16	1.7	42.1	3910	56.7	35.19	19.24
Dif. Req for Sig. .05		3.7		2.8	0.5	1.8	310	0.5	1.63	1.00
.25		2.2		1.6	0.3	1.1	181	0.3	0.95	0.59

Yield in bushels per acre and % of Fremont, Pella 86, and Williams 82.
Protein and oil based on 13 % moisture.

Table 28. Southeast Soybean Performance. Late. 1987-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND
		BU/A	%				
Two Year Average							
TRI VALLEY	CATALINA	38.6	100	9-22	1.9	40	3410
MIDWEST OILSEEDS	3940	36.9	95	9-17	1.3	35	3960
S BRAND	S-67	36.8	95	9-22	1.8	40	3490
ATLAS	350	36.8	95	9-17	1.8	37	3460
ASGROW	A3733	36.6	94	9-25	1.6	36	3390
LEWIS	367	36.6	94	9-23	1.9	44	3710
ASGROW	A3803	36.3	94	9-24	1.0	35	3200
DIAMOND BRAND	D305	36.3	94	9-21	1.8	41	3410
OHLDE	3431	36.2	93	9-16	1.3	36	3540
STINE	3790	36.0	93	9-21	1.9	40	3380
MERSHMAN	WASHINGTON VI	35.9	93	9-22	1.8	41	3470
YOUNKERMEN	CHAMP	35.0	90	9-20	1.6	39	3500
DIAMOND BRAND	D301	34.6	89	9-20	2.0	43	3700
-----	RIPLEY	34.0	88	9-24	1.0	27	4150
NORTHRUP KING	S 42-30	33.7	87	9-22	1.0	37	3600
HOEGEMEYER	394	33.3	86	9-19	2.3	42	3480
KAUP SEED	KS 3790	32.9	85	9-18	2.1	42	3550
-----	WILLIAMS 82	32.4	84	9-24	2.0	43	3460
-----	WINCHESTER	31.8	82	9-21	1.7	39	3090
-----	PELLA 86	30.9	80	9-11	1.5	35	3280
LYNKS SEEDS	LX8393	30.7	79	9-20	2.4	41	3720
MC CUBBIN	WINDSOR	29.5	76	9-17	2.3	42	3440
-----	FREMONT	29.2	75	9- 9	1.4	39	4000
STINE	3810	29.2	75	9-10	1.9	39	3670
Average All Entries		34.2		9-18	1.7	38.6	3542
Dif. Req. for Sig. 5%		NS		1.6	0.3	1.4	218
25%		1.8		0.9	0.2	0.8	125

Table 29. Southeast Soybean Performance. Late. 1984-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND
		BU/A	%				
Three Year Average							
S BRAND	S-67	46.6	95	9-25	2.0	42	3200
STINE	3790	46.2	95	9-26	2.1	41	3130
ASGROW	A3803	46.1	94	9-26	1.3	36	2920
ASGROW	A3733	45.8	94	9-27	1.6	38	3110
OHLDE	3431	45.5	93	9-19	1.4	37	3160
NORTHRUP KING	S 42-30	45.3	93	9-24	1.2	38	3310
MERSHMAN	WASHINGTON VI	44.8	92	9-21	2.3	40	3270
YOUNKERMEN	CHAMP	44.3	91	9-22	1.7	40	3190
-----	RIPLEY	42.0	86	9-26	1.1	28	3870
-----	WILLIAMS 82	41.8	86	9-26	2.3	46	3170
-----	WINCHESTER	41.6	85	9-23	2.0	40	2890
LYNKS SEEDS	LX8393	40.7	83	9-22	2.9	41	3410
-----	FREMONT	38.3	78	9-12	1.9	40	3640
Average All Entries		43.8		9-23	1.8	39.0	3253
Dif. Req. for Sig. 5%		1.9		2.2	0.3	1.5	145
25%		1.1		1.2	0.2	0.9	83
Four Year Average							
ASGROW	A3803	48.5	98	9-28	1.3	36	2790
STINE	3790	48.5	98	9-28	2.2	42	3010
NORTHRUP KING	S 42-30	47.4	96	9-26	1.1	39	3180
-----	WINCHESTER	43.6	88	9-25	2.0	41	2760
LYNKS SEEDS	LX8393	43.4	88	9-24	3.0	42	3240
-----	WILLIAMS 82	43.3	88	9-28	2.2	46	3030
Average All Entries		45.8		9-27	2.0	40.9	3002
Dif. Req. for Sig. 5%		1.3		NS	0.2	1.2	121
25%		0.7		2.2	0.1	0.7	68
Five Year Average							
LYNKS SEEDS	LX8393	43.5	91	9-24	2.8	42	3200
-----	WINCHESTER	42.7	90	9-26	1.9	41	2750
-----	WILLIAMS 82	42.7	90	9-29	2.1	44	2980
Average All Entries		43.0		9-27	2.3	42.3	2975
Dif. Req. for Sig. 5%		NS		0.7	0.3	1.5	111
25%		NS		0.4	0.1	0.8	59

Table 30. South Central Irrigated. Clay and Phelps County. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES
		BU/A	%			
ARROW SEED	AS2845	58.5	114	9-22	1.5	38
OHLDE	3000	57.6	113	9-22	1.5	39
TRI VALLEY	CAPRI	57.1	112	9-24	1.8	39
JACOBSEN	J972	57.0	112	9-22	1.5	38
WILSON BLEND	3165	56.3	110	9-22	1.5	37
GOLDEN HARVEST	H-1285	55.7	109	9-22	1.6	36
OHLDE	2193	55.5	109	9-22	1.4	35
HOEGEMEYER	205	55.3	108	9-22	1.5	35
YOUNKERMEN	BOBCAT II	55.0	108	9-23	1.7	36
HILL SEED	HS2700	54.9	107	9-22	1.6	37
SOI	EX 382	54.6	107	9-24	2.1	42
FONTANELLE	4309	54.5	107	9-18	1.0	31
MERSHMAN	CHICKASAW	54.4	106	9-20	1.6	37
TERRA	SPRINT	54.2	106	9-23	1.7	38
LYNKS SEEDS	5288	54.1	106	9-22	1.5	42
GOLDEN HARVEST	X 277	53.8	105	9-19	1.8	37
HILL SEED	EX238	53.7	105	9-15	1.8	36
OHLDE	3137	53.6	105	9-27	1.3	37
-----	CONRAD	53.4	105	9-16	1.3	34
MC CUBBIN	TAYLOR	53.2	104	9-21	1.6	34
MERSHMAN	MOHAWK	53.1	104	9-24	1.3	33
TRI VALLEY	BLAZER 87	53.0	104	9-18	1.5	36
SOI	268	53.0	104	9-18	2.0	37
S BRAND	S-46G	53.0	104	9-18	1.6	36
-----	HACK	52.8	103	9-20	1.1	36
HORIZON	H-28	52.5	103	9-20	2.0	36
HOEGEMEYER	281	52.4	103	9-20	1.5	37
HILL SEED	HS2575	52.4	103	9-19	2.0	38
ARROW SEED	AS2675	52.2	102	9-17	1.4	36
TERRA	MEDALIST	52.1	102	9-20	1.6	37
DAHLGREN	DS-3285	52.1	102	9-21	1.6	36
SANSGAARD SEED	ZEPHYR	52.0	102	9-20	2.0	37
S BRAND	S-46F	51.6	101	9-18	1.6	37
S BRAND	S-46K	51.5	101	9-19	1.7	42
MC CUBBIN	TAYLOR 88	51.4	101	9-18	1.7	37
-----	FREMONT	51.2	100	9-20	1.4	40
LYNKS SEEDS	5255	51.1	100	9-18	2.0	38
STINE	2980	51.0	100	9-24	1.5	38
DEKALB-PFIZER	CX298	50.8	99	9-23	1.3	33
YOUNKERMEN	CUTLASS 88	50.6	99	9-24	1.4	41
ASGROW	A2943	50.5	99	9-20	1.1	39
-----	FARM ENTRY	50.4	99	9-25	1.7	39
TERRA	JAVELIN	49.9	98	9-18	2.1	37
-----	EXP. 88-1 (I)	49.7	97	9-21	1.3	34
NORTHROP KING	S 29-20	49.4	97	9-22	1.4	38
-----	PELLA 86	49.3	96	9-23	1.6	38
STINE	2770	49.2	96	9-18	1.5	37
TRI VALLEY	CAMRY	49.0	96	9-24	1.2	42
-----	LOGAN	48.7	95	9-23	2.3	44
ARROW SEED	AS2610	48.6	95	9-18	1.5	33
NORTHROP KING	B 236	48.3	95	9-17	1.1	36
NORTHROP KING	S 27-10	46.6	91	9-17	1.3	32
-----	CENTURY 84	46.0	90	9-18	1.2	36
-----	WEBER 84	45.3	89	9-14	2.5	37
AVERAGE ALL VARIETIES		52.2			1.5	36.6
DIF.REQ.FOR SIG.	.05	3.5			0.3	2.2
	.25	2.0			0.2	1.3

Table 31. South Central Irrigated. Clay County. Early. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	Protein %	Oil %
		BU/A	%					
ARROW SEED	AS2845	56.5	114	9-22	1.7	37	33.50	19.45
OHLDE	2193	55.2	111	9-22	1.6	35	34.55	19.40
S BRAND	S-46G	55.0	111	9-18	1.8	34	34.45	19.65
HOEGEMEYER	205	55.0	111	9-22	1.6	33	34.70	19.45
MERSHMAN	CHICKASAW	54.9	111	9-20	1.6	36	33.60	19.90
YOUNKERMEN	BOBCAT II	54.9	111	9-23	2.0	35	34.60	19.65
GOLDEN HARVEST	H-1285	54.8	111	9-22	1.6	36	34.30	19.95
-----	HACK	54.6	110	9-20	1.1	36	33.95	19.80
SANSGAARD SEED	ZEPHYR	54.5	110	9-20	2.5	36	34.05	19.70
MC CUBBIN	TAYLOR	54.4	110	9-21	1.9	33	34.35	19.75
MERSHMAN	MOHAWK	54.3	110	9-24	1.0	31	35.70	18.95
GOLDEN HARVEST	X 277	54.1	109	9-19	2.0	35	34.20	19.80
HILL SEED	HS2700	54.1	109	9-22	1.8	37	34.60	19.75
SOI	EX 382	53.8	109	9-24	2.3	40	33.30	20.35
WILSON BLEND	3165	53.4	108	9-22	1.5	36	33.40	19.70
TERRA	SPRINT	53.3	108	9-23	1.9	36	34.55	19.45
OHLDE	3000	53.2	107	9-22	1.4	37	33.55	19.95
STINE	2980	52.9	107	9-24	1.6	38	34.00	19.55
SOI	268	52.8	107	9-18	2.3	34	33.75	19.75
HORIZON	H-28	52.8	107	9-20	2.3	33	34.25	19.55
MC CUBBIN	TAYLOR 88	52.6	106	9-18	1.9	35	34.20	19.55
DAHLGREN	DS-3285	52.5	106	9-21	1.8	36	34.45	20.05
NORTHROP KING	S 29-20	52.5	106	9-22	1.5	37	34.70	19.45
TRI VALLEY	BLAZER 87	52.4	106	9-18	1.6	33	34.05	19.70
LYNKS SEEDS	5288	52.3	106	9-22	1.5	39	33.40	20.15
LYNKS SEEDS	5255	52.2	105	9-18	2.6	35	34.35	19.35
JACOBSEN	J972	52.1	105	9-22	1.5	37	33.80	19.50
HILL SEED	EX238	52.0	105	9-15	2.1	35	34.20	19.75
FONTANELLE	4309	51.9	105	9-18	1.0	30	36.00	19.55
-----	CONRAD	51.5	104	9-16	1.5	32	-----	-----
TRI VALLEY	CAPRI	51.3	104	9-24	1.9	37	35.60	18.95
TERRA	JAVELIN	51.2	103	9-18	2.5	34	33.20	19.55
HILL SEED	HS2575	51.1	103	9-19	2.1	36	34.00	19.60
TERRA	MEDALIST	51.0	103	9-20	1.5	36	33.95	19.90
HOEGEMEYER	281	50.9	103	9-20	1.5	35	34.45	19.65
NORTHROP KING	B 236	50.8	103	9-17	1.1	32	32.55	20.30
S BRAND	S-46F	50.7	102	9-18	1.8	35	34.00	19.85
NORTHROP KING	S 27-10	50.7	102	9-17	1.4	32	34.15	19.40
ARROW SEED	AS2610	50.5	102	9-18	1.8	31	34.10	20.00
OHLDE	3137	50.3	102	9-27	1.5	34	35.80	18.80
S BRAND	S-46K	49.6	100	9-19	1.9	39	33.25	19.80
STINE	2770	49.6	100	9-18	1.6	34	34.15	19.85
ARROW SEED	AS2675	49.3	100	9-17	1.4	35	32.95	20.05
-----	EXP. 88-1 (I)	48.6	98	9-21	1.3	31	36.65	18.70
ASGROW	A2943	48.4	98	9-20	1.1	36	35.15	19.40
DEKALB-PFIZER	CX298	48.2	97	9-23	1.4	31	35.90	19.40
YOUNKERMEN	CUTLASS 88	47.5	96	9-24	1.8	39	34.05	19.75
-----	FARM ENTRY	47.5	96	9-25	1.8	36	35.00	19.30
-----	FREMONT	47.4	96	9-20	1.4	37	34.80	19.75
-----	PELLA 86	46.6	94	9-23	1.9	35	34.55	19.95
-----	WEBER 84	44.9	91	9-14	3.5	34	35.60	19.10
-----	LOGAN	44.8	90	9-23	2.5	38	34.95	19.75
TRI VALLEY	CAMRY	43.9	89	9-24	1.0	39	34.00	19.35
-----	CENTURY 84	42.6	86	9-18	1.4	33	35.45	19.15
Average all varieties		51.3		9-20	1.7	35.0	34.35	19.62
Dif. Req for Sig. .05		3.9		2.0	0.6	2.9	1.05	0.67
.25		2.3		1.2	0.3	1.7	0.61	0.39

Yield in bushels per acre and % of Fremont, Hack, and Pella 86.
Protein and oil based on 13% moisture.

Table 32. South Central Irrigated. Phelps County. Early. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	PROTEIN %	OIL %
		BU/A	%					
TRI VALLEY	CAPRI	62.8	119	9-24	1.7	40	35.55	18.90
OHLDE	3000	61.9	118	9-22	1.5	40	33.15	19.65
JACOBSEN	J972	61.8	117	9-22	1.4	38	32.20	19.70
ARROW SEED	AS2845	60.5	115	9-22	1.3	38	33.25	19.55
WILSON BLEND	3165	59.1	112	9-22	1.4	38	33.70	19.60
FONTANELLE	4309	57.0	108	9-18	1.0	32	36.60	19.45
OHLDE	3137	56.8	108	9-27	1.1	40	35.60	18.95
GOLDEN HARVEST	H-1285	56.6	108	9-22	1.5	36	34.65	19.30
LYNKS SEEDS	5288	55.9	106	9-22	1.5	44	33.25	20.00
OHLDE	2193	55.7	106	9-22	1.1	35	34.70	19.45
HILL SEED	HS2700	55.6	106	9-22	1.4	36	34.30	19.80
HOEGEMEYER	205	55.6	106	9-22	1.3	37	34.40	20.15
HILL SEED	EX238	55.3	105	9-15	1.4	37	33.90	19.65
SOI	EX 382	55.3	105	9-24	1.8	43	34.45	19.50
-----	CONRAD	55.3	105	9-16	1.0	35	-----	-----
TERRA	SPRINT	55.1	105	9-23	1.4	39	34.85	19.55
YOUNKERMEN	BOBCAT II	55.0	105	9-23	1.4	36	35.00	19.30
ARROW SEED	AS2675	55.0	105	9-17	1.4	37	34.10	19.45
-----	FREMONT	54.9	104	9-20	1.4	42	34.20	20.70
TRI VALLEY	CAMRY	54.1	103	9-24	1.3	45	32.10	19.90
HOEGEMEYER	281	53.8	102	9-20	1.5	38	32.00	20.40
MERSHMAN	CHICKASAW	53.8	102	9-20	1.5	38	33.15	19.95
YOUNKERMEN	CUTLASS 88	53.7	102	9-24	1.0	42	33.55	19.40
HILL SEED	HS2575	53.6	102	9-19	1.8	39	33.80	20.00
TRI VALLEY	BLAZER 87	53.6	102	9-18	1.4	38	33.90	19.45
GOLDEN HARVEST	X 277	53.4	102	9-19	1.5	38	32.95	19.90
DEKALB-PFIZER	CX298	53.3	101	9-23	1.1	34	35.10	19.70
S BRAND	S-46K	53.3	101	9-19	1.5	44	33.10	19.55
TERRA	MEDALIST	53.2	101	9-20	1.6	38	32.70	20.25
-----	FARM ENTRY	53.2	101	9-25	1.5	41	33.55	19.50
SOI	268	53.2	101	9-18	1.6	40	33.55	19.90
-----	LOGAN	52.6	100	9-23	2.0	50	34.95	19.70
ASGROW	A2943	52.6	100	9-20	1.0	42	35.20	19.90
S BRAND	S-46F	52.5	100	9-18	1.4	39	34.00	19.45
HORIZON	H-28	52.2	99	9-20	1.6	39	32.85	20.10
MC CUBBIN	TAYLOR	51.9	99	9-21	1.3	35	33.95	19.60
-----	PELLA 86	51.9	99	9-23	1.3	41	33.90	19.65
MERSHMAN	MOHAWK	51.8	98	9-24	1.5	34	35.00	19.15
DAHLGREN	DS-3285	51.7	98	9-21	1.3	36	31.30	20.95
-----	HACK	51.0	97	9-20	1.0	35	33.80	19.55
S BRAND	S-46G	50.9	97	9-18	1.4	37	32.10	20.85
-----	EXP. 88-1 (1)	50.7	96	9-21	1.3	37	35.10	18.80
MC CUBBIN	TAYLOR 88	50.1	95	9-18	1.5	38	31.25	20.85
LYNKS SEEDS	5255	50.0	95	9-18	1.4	40	32.50	20.05
SANSGAARD SEED	ZEPHYR	49.5	94	9-20	1.5	37	33.75	20.15
-----	CENTURY 84	49.3	94	9-18	1.0	39	36.00	18.90
STINE	2980	49.0	93	9-24	1.3	38	33.30	19.60
STINE	2770	48.7	93	9-18	1.3	39	33.40	19.85
TERRA	JAVELIN	48.5	92	9-18	1.6	40	32.15	20.70
ARROW SEED	AS2610	46.7	89	9-18	1.1	34	32.10	20.45
NORTHROP KING	S 29-20	46.3	88	9-22	1.3	38	32.95	19.85
NORTHROP KING	B 236	45.8	87	9-17	1.1	39	30.45	21.35
-----	WEBER 84	45.6	87	9-14	1.4	39	33.55	20.15
NORTHROP KING	S 27-10	42.4	81	9-17	1.1	31	32.55	20.35
Average all varieties		53.1			1.4	38.3	33.65	19.82
Dif. Req for Sig. .05		5.8			0.4	3.2	2.04	0.83
.25		3.4			0.2	1.9	1.18	0.48

Yield in bushels per acre and % of Fremont, Hack, and Pella 86.
Protein and oil based on 13% moisture.

Table 33. South Central Irrigated Soybean Performance. Early. 1987-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES
		BU/A	%			
Two Year Average						
OHLDE	3000	58.2	124	9-20	1.3	40
JACOBSEN	J972	58.0	124	9-21	1.5	38
OHLDE	2193	54.9	117	9-19	1.4	37
GOLDEN HARVEST	H-1285	54.5	116	9-19	1.6	38
HILL SEED	HS2700	53.8	115	9-19	1.6	38
SOI	268	53.4	114	9-16	1.9	37
YOUNKERMEN	BOBCAT II	52.4	112	9-20	1.6	36
HOEGEMEYER	281	52.4	112	9-18	1.7	38
S BRAND	S-46F	52.1	111	9-16	1.7	38
ARROW SEED	AS2675	51.9	111	9-14	1.5	36
HORIZON	H-28	51.9	111	9-15	1.8	37
S BRAND	S-46G	51.5	110	9-15	1.6	37
GOLDEN HARVEST	X 277	51.3	109	9-16	1.7	38
STINE	2770	51.2	109	9-16	1.6	37
TERRA	SPRINT	51.0	109	9-20	1.6	38
-----	HACK	50.4	108	9-15	1.2	36
YOUNKERMEN	CUTLASS 88	49.8	106	9-22	1.5	41
NORTHRUP KING	S 29-20	49.7	106	9-19	1.5	40
-----	PELLA 86	49.3	105	9-21	1.5	39
ASGROW	A2943	48.4	103	9-19	1.1	39
ARROW SEED	AS2610	48.0	102	9-14	1.5	35
-----	FREMONT	47.2	101	9-18	1.4	40
NORTHRUP KING	S 27-10	46.7	100	9-15	1.3	33
-----	LOGAN	46.1	98	9-20	2.1	44
-----	WEBER 84	44.6	95	9-10	2.3	36
-----	CENTURY 84	43.9	94	9-17	1.2	37
Average All Entries		50.8		9-17	1.5	37.6
Dif. Req. for Sig. 5%		2.1		1.5	0.1	1.1
25%		1.2		0.9	0.1	0.6

Table 34. South Central Irrigated Soybean Performance. Early. 1984-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES
		BU/A	%			
<u>Three Year Average</u>						
SOI	268	58.5	109	9-17	2.0	37
GOLDEN HARVEST	H-1285	58.3	108	9-21	1.7	38
ARROW SEED	AS2675	56.7	105	9-15	1.5	35
OHLDE	2193	56.6	105	9-20	1.5	37
HILL SEED	HS2700	56.5	105	9-21	1.7	37
STINE	2770	55.8	104	9-16	1.8	37
-----	HACK	55.3	103	9-16	1.1	36
YOUNKERMEN	BOBCAT II	55.1	102	9-21	1.7	36
NORTHRUP KING	S 27-10	52.2	97	9-16	1.4	32
ARROW SEED	AS2610	51.6	96	9-15	1.7	35
-----	FREMONT	51.0	95	9-19	1.4	40
-----	CENTURY 84	49.4	92	9-17	1.3	37
-----	LOGAN	48.9	91	9-20	2.3	44
-----	WEBER 84	48.0	89	9-10	2.6	36
Average All Entries		53.9		9-17	1.8	37.9
Dif. Req. for Sig.						
	5%	2.2		1.2	0.2	NS
	25%	1.2		0.7	0.1	0.4

<u>Four Year Average</u>						
GOLDEN HARVEST	H-1285	56.4	112	9-24	2.0	38
HILL SEED	HS2700	55.2	110	9-24	2.0	38
OHLDE	2193	54.3	108	9-24	1.8	38
-----	HACK	54.1	108	9-20	1.2	36
YOUNKERMEN	BOBCAT II	53.7	107	9-24	2.0	37
NORTHROP KING	S 27-10	50.8	101	9-19	1.6	33
-----	CENTURY 84	48.6	97	9-20	1.3	38
-----	LOGAN	48.3	96	9-24	2.5	45
Average All Entries		52.7		9-22	1.8	37.9
Dif. Req. for Sig.						
5%		1.8		1.0	0.7	0.6
25%		1.0		0.6	0.4	0.3

<u>Five Year Average</u>						
GOLDEN HARVEST	H-1285	56.9	112	9-23	1.9	37
YOUNKERMEN	BOBCAT II	54.2	106	9-23	1.9	35
OHLDE	2193	54.0	106	9-23	1.7	36
-----	HACK	53.5	105	9-19	1.2	34
-----	CENTURY 84	49.3	97	9-20	1.2	36
-----	LOGAN	48.7	96	9-23	2.4	43
Average All Entries		52.8		9-22	1.7	36.7
Dif. Req. for Sig.						
5%		1.6		1.0	0.2	0.6
25%		0.9		0.5	0.1	0.3

Table 35. South Central Irrigated. Clay and Phelps County. Late. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES
		BU/A	%			
GOLDEN HARVEST	X 308	60.6	110	9-24	1.3	38
FONTANELLE	5111	60.0	109	9-24	1.6	37
-----	RESNIK	59.6	108	9-27	1.5	37
S BRAND	S-55A	58.9	107	9-28	1.8	40
OHLDE	3431	58.5	106	9-28	1.5	39
ATLAS	350	58.3	106	9-27	1.9	39
TRI VALLEY	CELICA	57.4	104	9-25	1.3	35
HOEGEMEYER	368	57.3	104	9-25	1.6	38
SOI	389	57.0	103	10- 3	1.7	41
DEKALB-PFIZER	CX366	56.6	103	9-27	1.5	41
LYNKS SEEDS	LX8280	56.6	103	9-25	2.0	35
-----	HARPER 87	56.6	103	9-27	1.5	37
MERSHMAN	WASHINGTON VI	56.2	102	10- 1	1.5	40
ASGROW	A3935	56.1	102	10- 2	1.8	41
HILL SEED	EX348	56.1	102	10- 1	1.8	40
S BRAND	S-60J	55.9	101	9-28	1.4	37
GOLDEN HARVEST	X 355	55.9	101	9-29	1.7	44
FONTANELLE	4875	55.6	101	9-26	2.3	33
-----	HACK	55.5	101	9-20	1.3	33
ASGROW	A3803	55.5	101	10- 2	1.3	38
TRI VALLEY	CATALINA	55.3	100	10- 1	1.9	41
-----	HOBBIT 87	55.1	100	9-24	1.0	21
-----	FREMONT	55.1	100	9-22	1.6	39
-----	CHAMBERLAIN	55.1	100	9-29	2.2	42
-----	PELLA 86	54.9	100	9-23	1.6	39
OHLDE	3710	54.9	100	10- 2	1.6	41
MC CUBBIN	RENO	54.8	99	9-25	2.1	39
CENEX/LAND O'LAK	L3901	54.5	99	10- 1	1.6	39
S BRAND	S-57A	54.5	99	9-26	1.4	38
NORTHROP KING	S 36-36	54.4	99	9-28	1.7	39
HILL SEED	EX328	54.3	98	9-27	2.1	41
MERSHMAN	TRUMAN II	54.3	98	9-28	2.0	41
LYNKS SEEDS	LX8307	54.3	98	9-26	2.0	40
ASGROW	A3427	54.2	98	9-28	1.6	37
SRF	EX 11017	54.2	98	9-26	1.5	37
YOUNKERMEN	CAMARO	54.0	98	9-27	2.0	40
TERRA	ADVANCE	53.9	98	9-27	2.0	39
DEKALB-PFIZER	CX326	53.9	98	9-24	1.4	37
TRI VALLEY	CAVALIER	53.7	97	9-28	2.0	41
SEXAUER	79-10110	53.4	97	9-27	1.5	38
TERRA	TRIUMPH	53.3	97	9-29	2.3	40
NORTHROP KING	S 42-30	53.3	97	10- 2	1.3	40
NORTHROP KING	S 34-19	53.0	96	9-26	1.7	33
OHLDE	3193	52.9	96	9-27	1.8	41
STINE	3810	52.6	95	9-27	1.6	41
YOUNKERMEN	CHAMP	52.4	95	9-27	1.3	41
LYNKS SEEDS	5387	52.4	95	9-27	1.6	41
SRF	EX 363	51.9	94	9-24	1.1	26
-----	WINCHESTER	51.1	93	9-28	1.8	41
-----	ZANE	50.7	92	9-27	1.6	40
HOEGEMEYER	377	50.3	91	9-29	1.8	44
TERRA	CYCLE	50.3	91	9-27	1.5	41
SEXAUER	SX-3010	48.7	88	9-27	1.5	36
MC CUBBIN	GENTRY	47.9	87	9-29	1.8	46
-----	WILLIAMS 82	47.8	87	9-28	1.9	44
SEXAUER	SX-3007	45.7	83	9-28	2.2	45
-----	HOYT	30.7	56	9-19	1.0	17
AVERAGE ALL VARIETIES		54.0			1.6	36.6
DIF. REQ. FOR SIG.	.05	3.5			0.3	2.2
	.25	2.0			0.2	1.3

Table 36. South Central Irrigated. Clay County. Late. 1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES	PROTEIN %	OIL %
		BU/A	%					
FONTANELLE	5111	55.5	113	9-24	1.9	35	33.65	19.95
GOLDEN HARVEST	X 308	54.6	112	9-24	1.4	36	34.50	19.60
HOEGEMEYER	368	52.9	108	9-25	1.8	35	33.75	19.60
LYNKS SEEDS	LX8280	52.8	108	9-25	2.3	33	35.50	19.35
-----	HACK	52.3	107	9-20	1.6	32	34.75	19.80
OHLDE	3710	52.1	107	10- 2	1.8	38	35.05	19.40
ATLAS	350	51.7	106	9-27	2.1	35	34.90	19.30
SOI	389	51.6	106	10- 3	1.8	38	35.00	19.30
-----	RESNIK	51.6	106	9-27	1.9	34	36.30	19.40
GOLDEN HARVEST	X 355	51.0	104	9-29	1.9	41	33.80	19.80
TRI VALLEY	CATALINA	50.7	104	10- 1	2.3	39	35.10	19.20
-----	CHAMBERLAIN	50.7	104	9-29	2.5	39	35.80	19.05
ASGROW	A3935	50.3	103	10- 2	2.1	38	34.40	19.50
NORTHROP KING	S 42-30	50.0	102	10- 2	1.4	36	35.20	19.50
S BRAND	S-55A	50.0	102	9-28	2.0	38	33.90	19.75
HILL SEED	EX348	49.8	102	10- 1	2.3	37	35.40	18.95
CENEX/LAND O'LAK	L3901	49.8	102	10- 1	1.6	36	34.55	19.55
OHLDE	3431	49.2	101	9-28	1.9	37	34.05	19.40
S BRAND	S-60J	48.9	100	9-28	1.8	36	35.30	19.05
MERSHMAN	WASHINGTON VI	48.9	100	10- 1	1.9	37	34.85	19.35
S BRAND	S-57A	48.5	99	9-26	1.6	35	34.65	19.75
-----	PELLA 86	48.5	99	9-23	2.1	36	35.00	19.40
FONTANELLE	4875	48.3	99	9-26	3.3	30	34.70	19.00
TRI VALLEY	CELICA	47.9	98	9-25	1.5	32	35.55	19.20
HOEGEMEYER	377	47.8	98	9-29	2.0	40	34.85	19.40
YOUNKERMEN	CAMARO	47.6	97	9-27	2.4	37	34.70	19.25
-----	HOBBIT 87	47.3	97	9-24	1.0	19	34.20	20.00
LYNKS SEEDS	LX8307	47.3	97	9-26	2.4	37	35.40	19.25
TRI VALLEY	CAVALIER	47.2	97	9-28	2.0	39	34.05	19.60
DEKALB-PFIZER	CX366	46.9	96	9-27	1.6	38	34.75	19.70
TERRA	ADVANCE	46.9	96	9-27	2.4	36	35.20	19.20
ASGROW	A3427	46.7	96	9-28	1.8	34	35.55	19.40
STINE	3810	46.7	96	9-27	1.8	38	34.15	19.55
MERSHMAN	TRUMAN II	46.7	96	9-28	2.5	38	35.15	18.95
MC CUBBIN	RENO	46.5	95	9-25	2.5	35	34.05	19.65
SRF	EX 363	46.4	95	9-24	1.0	22	35.30	19.30
ASGROW	A3803	46.4	95	10- 2	1.5	34	35.70	18.95
SRF	EX 11017	46.4	95	9-26	1.5	33	35.50	19.15
SEXAUER	SX-3010	46.3	95	9-27	1.4	33	35.60	18.95
-----	HARPER 87	46.3	95	9-27	1.8	33	35.00	18.90
HILL SEED	EX328	46.1	94	9-27	2.3	37	34.40	19.60
-----	FREMONT	45.9	94	9-22	1.8	35	35.35	19.50
-----	ZANE	45.6	93	9-27	2.0	37	34.80	19.55
NORTHROP KING	S 34-19	45.5	93	9-26	1.8	31	33.90	19.40
TERRA	TRIUMPH	45.4	93	9-29	3.0	39	35.10	18.95
NORTHROP KING	S 36-36	45.3	93	9-28	1.6	36	33.35	20.50
YOUNKERMEN	CHAMP	45.0	92	9-27	1.5	39	34.25	19.80
LYNKS SEEDS	5387	44.7	91	9-27	1.6	39	35.05	19.35
OHLDE	3193	44.6	91	9-27	2.1	37	34.40	19.70
SEXAUER	79-10110	43.5	89	9-27	1.5	33	35.75	18.80
DEKALB-PFIZER	CX326	43.4	89	9-24	1.6	33	33.85	19.75
TERRA	CYCLE	42.7	87	9-27	1.5	38	34.50	19.30
-----	WINCHESTER	41.9	86	9-28	2.0	38	34.95	19.40
-----	WILLIAMS 82	39.1	80	9-28	2.3	40	35.25	19.15
MC CUBBIN	GENTRY	38.7	79	9-29	2.1	42	35.40	19.25
SEXAUER	SX-3007	36.8	75	9-28	2.3	39	35.35	19.15
-----	HOYT	25.9	53	9-19	1.0	13	35.40	19.35
Average all varieties		47.1		9-27	1.9	35.3	34.82	19.40
Dif. Req for Sig. .05		4.7		2.0	0.6	2.8	1.41	0.92
.25		2.8		1.2	0.4	1.7	0.82	0.54

Yield in bushels per acre and % of Fremont, Hack, and Pella 86.
Protein and oil based on 13% moisture.

Table 37. South Central Irrigated. Phelps County.

BRAND	ENTRY	YIELD		MATURE DATE	1988. LODGING SCORE	HEIGHT INCHES	PROTEIN %	OIL %
		BU/A	%					
OHLDE	3431	67.8	110	9-28	1.1	40	34.20	19.25
S BRAND	S-55A	67.7	110	9-28	1.6	42	34.10	20.05
-----	RESNIK	67.5	110	9-27	1.1	40	36.90	18.85
TRI VALLEY	CELICA	66.9	109	9-25	1.1	38	34.75	19.50
-----	HARPER 87	66.8	109	9-27	1.1	40	35.25	19.15
GOLDEN HARVEST	X 308	66.5	108	9-24	1.1	39	34.85	19.10
DEKALB-PFIZER	CX366	66.2	108	9-27	1.4	43	34.90	19.45
ATLAS	350	64.8	106	9-27	1.6	43	35.30	18.90
ASGROW	A3803	64.6	105	10- 2	1.1	42	36.35	18.90
FONTANELLE	5111	64.4	105	9-24	1.3	39	34.15	19.25
DEKALB-PFIZER	CX326	64.3	105	9-24	1.1	40	33.60	19.95
-----	FREMONT	64.2	105	9-22	1.3	43	34.50	20.10
NORTHROP KING	S 36-36	63.5	103	9-28	1.7	42	37.20	18.35
MERSHMAN	WASHINGTON VI	63.4	103	10- 1	1.1	43	34.45	19.30
SEXAUER	79-10110	63.2	103	9-27	1.4	42	36.70	18.40
MC CUBBIN	RENO	63.0	103	9-25	1.6	42	35.25	19.45
FONTANELLE	4875	62.9	102	9-26	1.3	36	34.95	18.95
-----	HOBBIT 87	62.9	102	9-24	1.0	23	33.20	20.55
S BRAND	S-60J	62.8	102	9-28	1.0	38	35.35	18.70
HILL SEED	EX328	62.5	102	9-27	1.9	44	34.70	19.15
SOI	389	62.4	102	10- 3	1.5	43	35.50	19.05
HILL SEED	EX348	62.3	102	10- 1	1.3	43	34.45	19.20
SRF	EX 11017	62.0	101	9-26	1.4	40	36.40	18.70
ASGROW	A3935	61.9	101	10- 2	1.5	43	34.40	19.20
MERSHMAN	TRUMAN II	61.8	101	9-28	1.5	43	34.70	19.10
ASGROW	A3427	61.6	100	9-28	1.4	39	35.00	19.30
HOEGEMEYER	368	61.6	100	9-25	1.3	41	33.65	19.50
LYNKS SEEDS	LX8307	61.3	100	9-26	1.6	43	35.45	19.00
-----	PELLA 86	61.2	100	9-23	1.1	41	35.45	19.25
TERRA	TRIUMPH	61.2	100	9-29	1.6	41	34.65	19.40
OHLDE	3193	61.1	100	9-27	1.5	44	34.00	19.70
TERRA	ADVANCE	60.8	99	9-27	1.5	42	34.75	19.50
GOLDEN HARVEST	X 355	60.7	99	9-29	1.5	47	34.90	19.15
NORTHROP KING	S 34-19	60.5	99	9-26	1.5	35	34.00	19.25
S BRAND	S-57A	60.4	98	9-26	1.1	40	34.90	19.60
LYNKS SEEDS	LX8280	60.4	98	9-25	1.6	37	35.90	19.05
YOUNKERMEN	CAMARO	60.3	98	9-27	1.5	42	35.00	19.60
-----	WINCHESTER	60.2	98	9-28	1.5	44	37.15	18.55
LYNKS SEEDS	5387	60.1	98	9-27	1.5	43	35.25	19.35
TRI VALLEY	CAVALIER	60.1	98	9-28	2.0	43	35.55	19.20
TRI VALLEY	CATALINA	59.9	98	10- 1	1.5	43	35.25	19.20
YOUNKERMEN	CHAMP	59.8	97	9-27	1.0	43	34.75	19.80
-----	CHAMBERLAIN	59.4	97	9-29	1.8	45	35.45	19.00
CENEX/LAND O'LAK	L3901	59.2	96	10- 1	1.5	42	33.70	19.50
-----	HACK	58.7	96	9-20	1.0	34	35.90	19.10
STINE	3810	58.4	95	9-27	1.4	43	33.80	19.80
TERRA	CYCLE	57.9	94	9-27	1.4	44	34.50	19.80
OHLDE	3710	57.7	94	10- 2	1.3	44	35.05	19.25
SRF	EX 363	57.4	94	9-24	1.1	29	36.50	18.45
MC CUBBIN	GENTRY	57.0	93	9-29	1.5	49	36.40	18.95
NORTHROP KING	S 42-30	56.5	92	10- 2	1.1	43	37.60	18.75
-----	WILLIAMS 82	56.5	92	9-28	1.4	47	33.50	19.80
-----	ZANE	55.8	91	9-27	1.1	43	34.85	19.60
SEXAUER	SX-3007	54.5	89	9-28	2.1	51	36.40	18.25
HOEGEMEYER	377	52.7	86	9-29	1.5	48	34.60	19.40
SEXAUER	SX-3010	51.1	83	9-27	1.5	39	36.50	18.70
-----	HOYT	35.5	58	9-19	1.0	20	36.05	19.20
Average all varieties		60.8			1.4	41.0	35.12	19.24
Dif. Req for Sig. .05		5.7			0.3	3.3	1.42	0.64
.25		3.3			0.2	1.9	0.84	0.37

Yield in bushels per acre and % of Fremont, Hack, and Pella 86.
Protein and oil based on 13% moisture.

Table 38. South Central Irrigated Soybean Performance. Late. 1987-1988.

BRAND	ENTRY	YIELD		MATURE DATE	LODGING SCORE	HEIGHT INCHES
		BU/A	%			
<u>Two Year Average</u>						
OHLDE	3431	58.2	117	9-25	1.5	41
ASGROW	A3935	57.5	115	9-29	1.9	42
-----	HOBBIT 87	56.6	114	9-23	1.0	24
ATLAS	350	56.1	113	9-24	1.7	40
LYNKS SEEDS	LX8280	56.1	113	9-20	1.8	36
TRI VALLEY	CATALINA	55.5	111	9-27	1.7	41
LYNKS SEEDS	LX8307	55.2	111	9-23	2.0	41
ASGROW	A3803	55.1	111	9-28	1.3	38
-----	HARPER 87	55.0	110	9-24	1.4	38
ASGROW	A3427	54.9	110	9-25	1.5	39
-----	CHAMBERLAIN	54.2	109	9-26	2.0	44
TRI VALLEY	CAVALIER	54.1	109	9-25	1.8	42
OHLDE	3193	53.7	108	9-24	1.7	42
-----	HACK	53.7	108	9-14	1.3	35
YOUNKERMEN	CAMARO	53.2	107	9-22	1.9	42
-----	PELLA 86	52.9	106	9-21	1.5	40
SRF	EX 363	52.4	105	9-21	1.0	29
-----	ZANE	51.4	103	9-23	1.4	41
-----	FREMONT	50.9	102	9-19	1.6	40
-----	WINCHESTER	48.3	97	9-26	1.8	44
-----	WILLIAMS 82	46.7	94	9-26	1.9	46
-----	HOYT	39.0	78	9-16	1.1	21
Average All Entries		53.2		9-23	1.6	38.1
Dif. Req. for Sig. 5%		3.6		1.5	0.1	1.4
25%		2.0		0.8	0.1	0.8

Table 39. South Central Irrigated Soybean Performance. Late. 1984-1988.

BRAND	ENTRY	YIELD		MATURE	LODGING	HEIGHT
		BU/A	%	DATE	SCORE	INCHES
<u>Three Year Average</u>						
LYNKS SEEDS	LX8280	57.6	106	9-22	1.9	37
-----	CHAMBERLAIN	57.1	105	9-26	1.9	44
TRI VALLEY	CAVALIER	56.9	105	9-25	1.8	42
ASGROW	A3427	56.5	104	9-26	1.5	38
ASGROW	A3803	56.5	104	9-30	1.2	38
-----	HACK	56.4	104	9-16	1.2	34
LYNKS SEEDS	LX8307	56.2	103	9-25	1.9	42
YOUNKERMAN	CAMARO	55.7	102	9-23	1.7	42
SRF	EX 363	55.3	102	9-21	1.1	30
-----	ZANE	54.8	101	9-23	1.4	40
OHLDE	3193	54.7	101	9-24	1.7	42
-----	FREMONT	53.1	98	9-20	1.6	40
-----	WINCHESTER	50.3	93	9-26	1.8	43
-----	WILLIAMS 82	48.1	88	9-27	1.9	46
-----	HOYT	45.3	83	9-17	1.2	22
Average All Entries		54.3		9-23	1.6	38.6
Dif. Req. for Sig.						
	5%	3.0		1.2	0.1	1.2
	25%	1.7		0.7	0.1	0.7
<u>Four Year Average</u>						
LYNKS SEEDS	LX8280	54.1	110	9-25	2.2	37
LYNKS SEEDS	LX8307	53.3	108	9-27	2.2	42
YOUNKERMAN	CAMARO	52.9	107	9-26	2.1	41
ASGROW	A3427	52.5	106	9-28	1.8	38
-----	ZANE	52.3	106	9-25	1.6	40
OHLDE	3193	51.6	105	9-27	2.0	42
-----	FREMONT	49.7	101	9-23	1.7	40
-----	WINCHESTER	47.4	96	9-29	2.1	43
-----	WILLIAMS 82	44.6	90	9-30	2.3	45
Average All Entries		50.9		9-27	2.0	40.9
Dif. Req. for Sig.						
	5%	1.5		1.5	0.2	0.8
	25%	0.8		0.8	0.1	0.4
<u>Five Year Average</u>						
LYNKS SEEDS	LX8280	54.8	108	9-24	2.0	36
-----	ZANE	53.9	106	9-25	1.5	39
OHLDE	3193	52.8	104	9-27	1.9	40
-----	FREMONT	50.7	100	9-23	1.5	38
-----	WINCHESTER	48.6	96	9-29	2.1	41
-----	WILLIAMS 82	46.5	92	9-30	2.3	44
Average All Entries		51.2		9-26	1.9	39.7
Dif. Req. for Sig.						
	5%	1.4		1.0	0.2	0.7
	25%	0.8		0.5	0.1	0.4

Table 40. Lexington Elite Test Irrigated. Dawson County. 1988.

BRAND	STRAIN	YIELD BU/A	MAT DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEEDS POUND	PROTEIN %	OIL %
TRI-VALLEY	BRAT II	66.0	9-26	1.6	44	1.0	2338	33.80	19.55
-----	FLYER	65.5	9-27	1.6	43	1.0	2782	34.65	19.30
HILL SEED	HS2700	63.7	9-20	1.6	40	1.0	2606	34.05	19.70
-----	RESNIK	62.9	9-25	1.5	40	1.0	2652	34.40	19.80
-----	PELLA 86	62.3	9-24	1.6	38	1.0	2016	34.20	19.50
STINE	3700	60.6	9-21	1.6	43	1.3	2700	32.15	20.10
-----	ELGIN 87	60.0	9-17	1.6	35	1.0	2534	32.35	20.10
-----	HACK	59.7	9-19	1.3	38	1.5	2387	33.25	19.90
NORTHROP KING	S27-10	59.4	9-15	1.5	33	1.5	2520	34.20	19.55
LYNKS SEEDS	LX8280	59.3	9-20	1.4	39	1.0	2577	34.15	19.80
ASGROW	A3427	58.7	9-24	1.6	41	1.0	2534	34.90	19.00
MARSHMAN	TRUMAN II	58.5	9-23	1.8	42	1.3	2562	32.50	19.85
YOUNKERMAN	32	58.4	9-25	1.9	41	1.0	2451	32.95	19.95
ASGROW	A3803	58.3	9-26	1.4	37	1.0	2268	34.95	19.25
MIDWEST OILSEEDS	2750	57.6	9-20	1.1	36	1.8	2016	33.30	20.15
TERRA SEED	SPRINT	57.2	9-19	1.5	39	1.0	2577	33.90	19.80
-----	HOBBIT 87	57.2	9-25	1.0	23	1.0	2621	32.90	20.45
-----	CENTURY 84	56.8	9-21	1.4	39	1.3	2438	36.90	18.55
-----	CONRAD	56.4	9-16	1.5	38	1.0	2506	31.85	20.50
SEED EX	301	56.1	9-21	1.8	41	1.0	2577	33.20	19.80
OHLDE	2193	56.0	9-19	1.5	39	1.0	2506	34.80	19.75
-----	HARPER 87	55.6	9-24	1.4	36	1.0	2007	34.40	19.40
MCCUBBIN	LYON	55.4	9-15	1.5	36	1.5	2350	32.40	20.85
-----	CHAMBERLAIN	55.4	9-24	2.0	45	1.0	2268	33.85	19.50
-----	RIPLEY	54.5	10- 1	1.8	30	1.3	3128	32.50	19.70
STINE	2510	54.4	9-18	1.5	35	1.3	2438	31.45	21.05
SEED EX	270	53.4	9-16	1.6	36	1.5	2817	32.80	20.30
LYNKS SEED	LX8307	52.8	9-21	1.6	42	1.5	2201	32.70	20.05
PRIDE	B236	52.3	9-17	1.5	38	1.3	2314	30.25	21.20
DIAMOND BRAND	D245	52.0	9-19	2.0	45	1.3	3106	31.35	20.85
TRI-VALLEY	TV22	52.0	9-15	1.4	38	1.0	2637	32.80	20.25
S BRAND	S-53A	51.6	9-21	1.6	41	1.3	2350	32.65	20.00
GOLDEN HARVEST	H-1285	51.3	9-20	1.5	37	1.0	2577	33.80	20.05
-----	FREMONT	50.7	9-21	1.5	39	1.0	2387	33.30	20.45
STINE	3790	50.0	9-14	1.4	39	1.0	3003	32.80	20.45
NORTHROP KING	S23-03	49.6	9-11	1.6	39	1.5	2577	34.90	19.85
-----	BSR101	46.6	9-16	2.0	36	1.8	2350	32.70	19.95
-----	VINTON 81	45.4	9-13	1.9	38	2.0	1930	36.45	18.65
-----	HARDIN	45.3	9- 9	2.4	38	1.8	2577	34.15	20.25
-----	HOYT	33.0	9-16	1.0	17	1.3	2326	35.80	19.25
Average		55.3	9-20	1.6	38	1.2	2465	33.51	19.91
LSD (0.05)		8.4	2	0.3	3	0.6	174	1.37	0.55

Table 41. Lexington Elite Soybean Test. Dawson County. 1987-1988.

STRAIN	YIELD BU/A	MAT. DATE	LODGING SCORE	HEIGHT INCHES	SEED QUALITY	SEEDWT G/100	
<u>Two Year Average</u>							
-----	HOBBIT 87	64.4	10- 1	1.1	26	1.0	18.3
Hill Seed	HS2700	64.3	9- 25	1.8	42	1.0	17.9
-----	PELLA 86	61.4	9- 28	1.7	43	1.0	23.0
-----	ELGIN 87	61.3	9- 20	1.9	38	1.0	19.1
-----	HACK	60.1	9- 25	1.2	42	1.3	19.6
Stine	2510	59.4	9- 22	2.0	39	1.3	19.7
TerraSeed	SPRINT	58.3	9- 26	1.8	43	1.0	18.1
Mershman	TRUMAN II	58.2	9- 28	2.1	45	1.2	17.8
Golden Harvest	H-1285	57.9	9- 26	2.1	41	1.0	17.9
-----	HARPER 87	57.8	9- 28	1.2	40	1.0	22.3
-----	CENTURY 84	56.9	9- 24	1.2	42	1.1	19.5
-----	CHAMBERLAIN	55.6	9- 30	2.5	47	1.0	20.0
-----	FREMONT	54.0	9- 25	1.4	44	1.0	19.9
-----	RIPLEY	53.7	10- 6	1.4	32	1.1	14.6
-----	BSR 101	53.2	9- 20	2.0	42	1.6	20.4
-----	HARDIN	52.2	9- 15	2.1	41	1.4	17.9
-----	HOYT	46.6	9- 21	1.1	21	1.1	18.4
Average		57.4	9-25	1.7	39	1.1	19.1
Dif req sig 5%		11.8	3	0.8	3	0.3	1.8

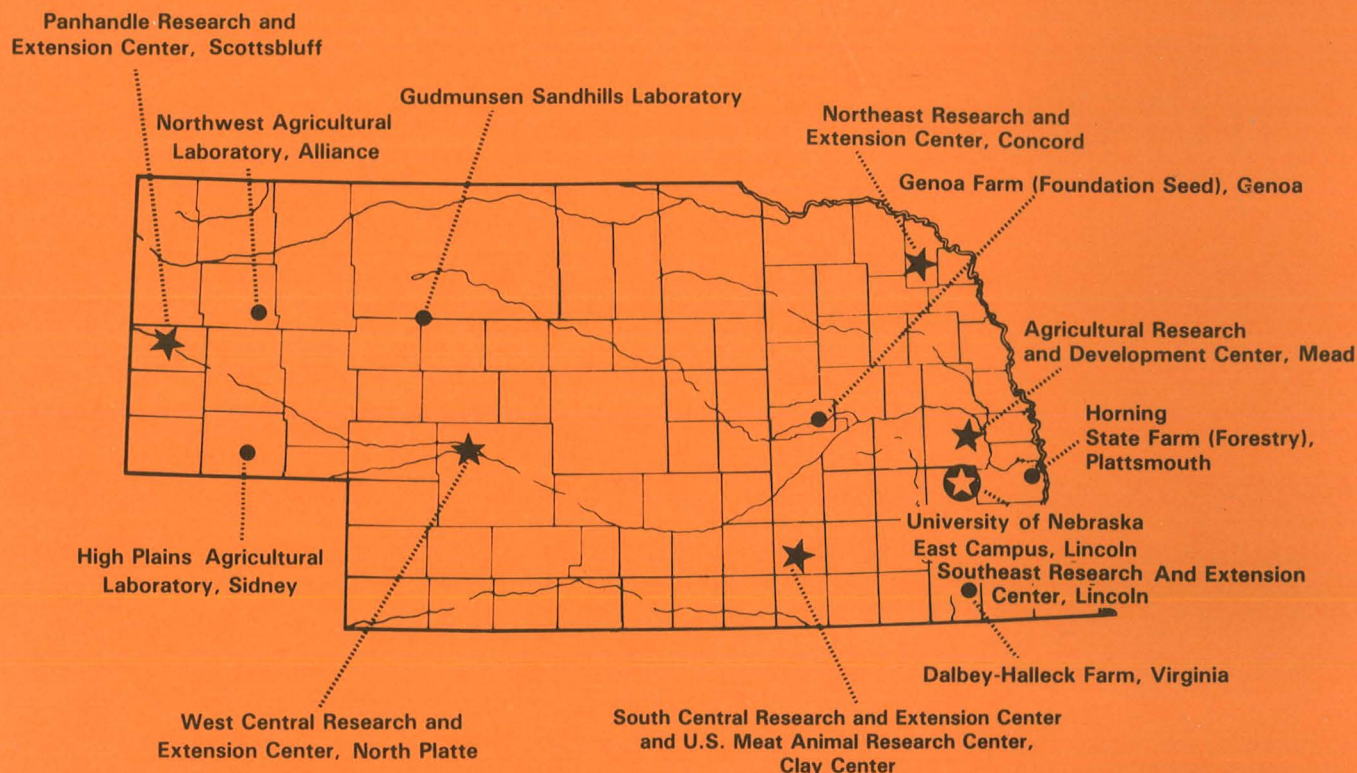
Table 42. West Central Fully Irrigated. Lincoln County. 1987-1988.

1988				
BRAND	ENTRY	BUSHEL/A	MATURITY DATE	SEEDS/lb
Arrow Seed	2675	64.2	9-15	2262
SBrand	47B	62.5	9-13	2547
NC+	2D90	62.5	9-15	2537
Golden Harvest	1285	61.8	9-15	2620
Hill Seed	2700	60.8	9-13	2502
Horizon	H21	60.8	9-16	2585
Horizon	H29	60.5	9-13	2257
Golden Harvest	1277	60.0	9-13	2880
Lynks	8252	59.8	9-15	2302
-	Hack	59.5	9-17	2392
-	Elgin	59.0	9-10	2400
Stine	2770	58.8	9-12	2970
Hoegemeyer	205	58.0	9-14	2530
DeKalb-Pfizer	CX283	57.8	9-16	2580
Jacques	103	57.5	9-10	2347
Asgrow	2187	57.0	9-09	2495
SOI	266	56.8	9-08	2460
-	BSR101	56.5	9-07	2405
Lynks	8165	56.2	9-06	2495
SBrand	47F	56.0	9-11	2797
SOI	268	55.2	9-14	2820
-	Hoyt	55.0	9-12	3237
Fontanelle	4545	52.8	9-14	2597
Stine	2510	52.5	9-13	2547
Arrow Seed	2610	51.2	9-10	2677
Northrup King	23-03	49.5	9-10	2677
-	Corsoy 79	48.5	9-07	2727
-	Weber 84	47.8	9-05	3102
Average All Entries		57.1	9-12	2594
Dif. Req. for Sig. 5%		6.42	3.5	114
25%		3.74	1.9	67
Two Year Averages				
Golden Harvest	1285	66.5	9-16	2750
SBrand	47B	63.5	9-15	2689
-	Elgin	63.4	9-11	2576
DeKalb-Pfizer	CX283	61.7	9-17	2676
Asgrow	2187	60.4	9-10	2584
-	BSR101	60.2	9-08	2522
Jacques	103	59.5	9-11	2457
Lynks	8165	57.0	9-07	2606
-	Corsoy 79	56.1	9-08	2839
Northrup King	23-03	55.0	9-11	2706
Arrow Seed	2610	54.4	9-11	2719
-	Weber 84	51.4	9-06	3373
Average All Entries		59.1	9-11	2708
Dif. Req. for Sig. 5%		4.22	-	76
25%		2.45	-	44

Table 43. West Central Limited Irrigation. Lincoln County. 1987-1988

1988				
BRAND	ENTRY	BUSHEL/A	MATURITY DATE	SEEDS/lb
SBrand	47B	61.2	9-16	2737
SOI	268	61.0	9-12	2757
Stine	2770	60.8	9-15	2967
Golden Harvest	1285	59.5	9-12	2567
Hill Seed	2700	59.5	9-17	2577
Golden Harvest	1277	59.2	9-14	2775
NC+	2D90	59.2	9-16	2617
Hoegemeyer	205	57.8	9-15	2555
Fontanelle	4545	57.2	9-16	2647
Asgrow	2187	56.5	9-07	2550
-	Elgin	56.2	9-09	2402
SBrand	46F	56.2	9-14	2882
Horizon	H21	56.2	9-16	2607
DeKalb-Pfizer	CX283	55.8	9-15	2497
Arrow Seed	2675	55.2	9-13	2365
Lynks	8252	55.2	9-15	2375
Stine	2510	54.5	9-10	2490
Jacques	103	54.0	9-08	2430
Northrup King	23-03	54.0	9-09	2642
SOI	266	53.8	9-10	2477
-	Hack	53.2	9-16	2435
Horizon	H29	53.0	9-14	2285
Arrow Seed	2610	52.5	9-07	2737
-	Corsoy79	51.0	9-06	2925
-	Hoyt	50.8	9-10	3097
-	BSR101	49.2	9-10	2385
Lynks	8165	49.0	9-05	2527
-	Weber84	46.5	9-06	3247
Average All Entries		55.3	9-12	2627
Dif. Req. for Sig. 5%		4.98	3.54	137
25%		2.9	2.06	80
Two Year Averages				
Golden Harvest	1285	61.2	9-13	2832
SBrand	47B	60.3	9-17	2929
-	Elgin	55.0	9-10	2713
DeKalb-Pfizer	CX283	54.9	9-16	2839
Northrup King	23-03	54.1	9-10	2816
Jacques	103	52.9	9-09	2665
Asgrow	2187	52.8	9-08	2835
-	Corsoy79	52.3	9-07	3042
Arrow Seed	2610	51.5	9-08	2916
Lynks	8165	48.9	9-06	2719
-	BSR101	47.3	9-11	2681
-	Weber84	47.1	9-07	3619
Average All Entries		53.2	9-10	2884
Dif. Req. for Sig. 5%		3.97	-	93
25%		2.3	-	54

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.