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NEBRASKA SOYBEAN VARIETY TESTS 1990

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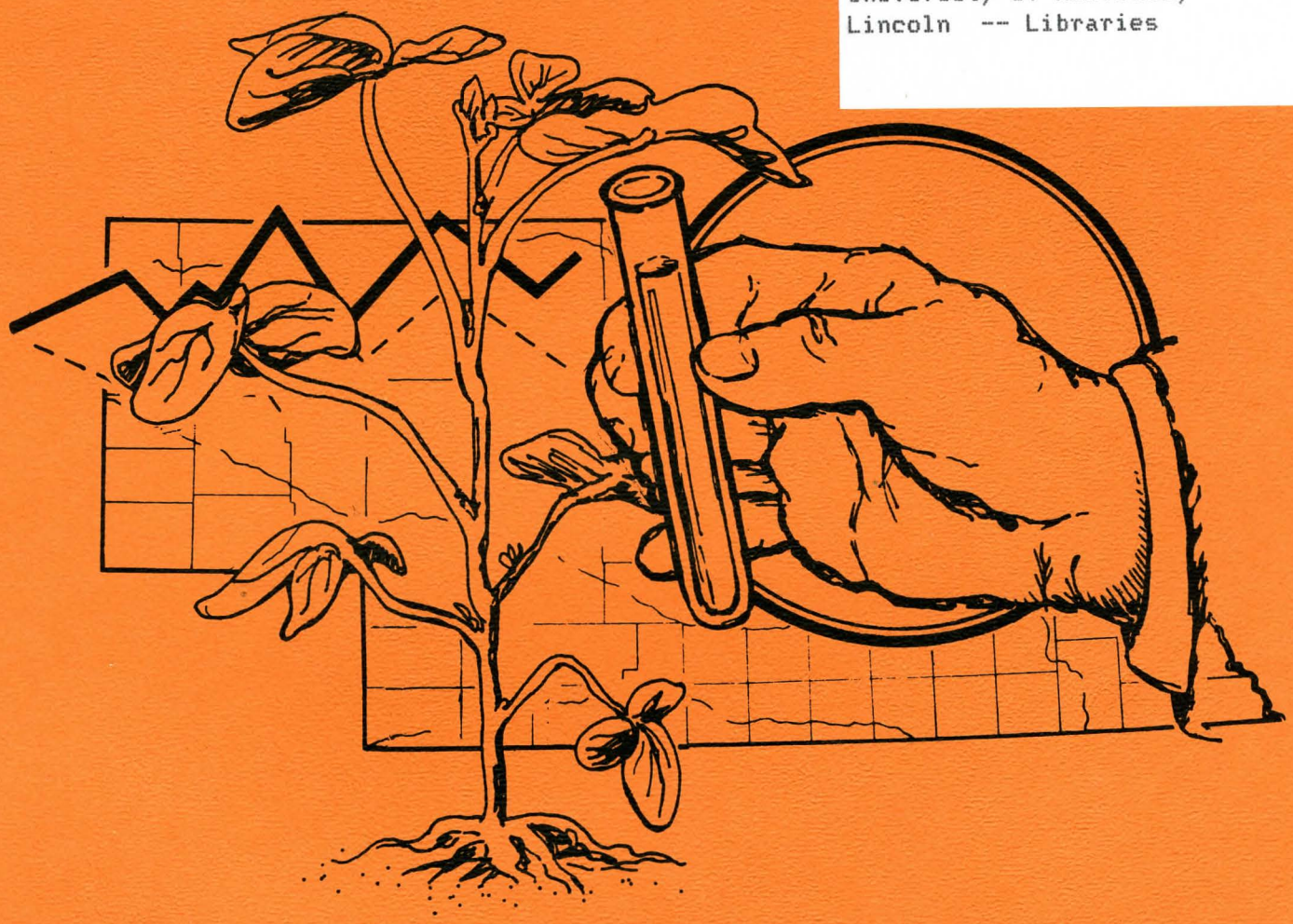

University of Nebraska-Lincoln
Institute of Agriculture and Natural Resources
Agricultural Research Division
Cooperative Extension

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EXTENSION CIRCULAR 90-104

NEBRASKA SOYBEAN VARIETY TESTS

January 1991

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This circular is a progress report of soybean variety trials conducted by personnel of the Agronomy Department and the Northeast, South Central and West Central Research and Extension Centers. Conduct of experiments and publication of results is a joint effort of the Agricultural Research Division and the Cooperative Extension Service.

Tests were supported in part by fees collected from entrants. A grant from the Nebraska Soybean Development Utilization and Marketing Board enabled the purchase of planting and harvesting equipment needed for conduct of East Central, Southeast, and South Central trials. Soybean check-off grants also support variety trials conducted by the Soybean Breeding Project and sprinkler irrigation experiments established by the West Central Research and Extension Center. 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.

This is the second year for the off-station sites in the North Platte area. Bob Klein has made a significant contribution to this year's data with Brown, Furnas, and Lincoln County locations.

The authors wish to recognize the contributions of the technical staff, Patrick Tenopir, John Eis, Ray Brentlinger, Robert Hendrickson, George Hoffmeister, and Don Thrailkill.

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	2,300 (932)	30.0 (2018)	69,000 (1877)
1989	2,560(1078)	32.0 (2153)	81,920 (2229)
1990 1	2,350 (952)	34.0 (2287)	79,900 (2174)

1 November 1 estimate.

EXTENSION CIRCULAR

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NEBRASKA SOYBEAN VARIETY TESTS

1990

The 1990 estimated soybean yield for Nebraska was 34 bushels per acre from 2,350,000 harvested acres. The yield was low because of the hot dry summer but was better than the two previous years. The total production of soybeans for the state was 79,900,000 bushels.

The crop was planted behind schedule because of low temperatures and some precipitation. The growing season was slightly behind normal because of drought and the later planting. Hot, dry conditions in late August and early September were causing fields to turn color and drop leaves and pods. This heat interfered with pod filling as it forced maturity. Harvest was ahead of schedule because of the hot, dry weather in the latter part of the summer and early fall.

PROCEDURE

Data were obtained from 15 trials at 9 locations (Table A). 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 supplier. At many locations, entries were divided into early and late maturing varieties for convenience in handling. A list of entries by brand name is shown in Table B. Names and addresses of entrants are shown in Table C.

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 that have reached their mature pod color. Five to ten days of drying weather are required after "maturity" before the soybeans have less than 15% moisture.

Plant height is the average length in inches of plants from the ground to the tip of the main stem at the time of maturity. Lodging is rated at maturity according to the following scores: 1 = Almost all plants erect, 2 = All plants leaning slightly, or a few plants down, 3 = All plants leaning moderately (45%), or 25% to 50% of the plants down, 4 = All plants leaning considerably, or 50% to 80% of the plants down, 5 = Almost all plants down. Seeds per pound data are reported for most locations. Protein and oil content were obtained at many locations in 1990. 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. Estimated Processed Value (EPV) is calculated from the protein and oil content and the January, 1990 Chicago Board of Trade futures prices for soybean oil ($0.193/lb.) and 44 percent protein soybean meal ($183.10/ton) on Sept.1 1989. EPV is calculated on an acre basis by multiplying the yield (bu/acre) times the EPV/bu. The University of Nebraska Soil Testing Lab did the protein and oil content analyses and we thank them for their cooperation.

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 D. 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 heat and the dry conditions in the fall had an 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. A simple way of thinking of these differences is that if all the plots had been the same variety, that would be the difference that would have been measured. 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.

Period-of-years data for varieties included for two-, three-, four-, and five-years are reported. When comparing varieties, it is important to observe their performance for more than one year. Comparisons are best if they are done over the largest possible number of years.

RESULTS AT INDIVIDUAL LOCATIONS

Northeast (Tables 1A and 2A)

Both early and late maturing varieties were planted in Dixon County. The growing season in the Northeast region was normal with adequate moisture most of the summer but some periods of drought stress.

East Central (Tables 3A & 4A)

Both early and late maturing varieties were planted in Saunders County. Yields were lower than last year and the seed/pound were higher indicating smaller seed. This year also showed earlier maturity dates. The heat and dry weather in the last two weeks of August, and first two weeks of September hurt the yields and seed size and caused earlier maturity.

Southeast (Tables 5A & 6A)

Both early and late maturing varieties were planted in Nemaha County. Good moisture at planting time got the beans off to a good start, but there wasn't much rain after that. Yields and seed size were better this year than last year. The maturity date's were much earlier than last year.

South Central Irrigated (Tables 7A & 8A)

In Clay County the ridge top was shaved off prior to planting with a Buffalo ridge runner. The plot was planted immediately afterwards. Yields and seed size were good at this plot.

The Thayer County field was blank planted with a rotary tiller. The plot suffered some hail damage in late June.

Central Irrigated (Tables 9A & 10A)

Both early and late maturing varieties were planted in Valley County. This plot

had good yields even though it suffered some hail damage in late June.

Southwest Irrigated (Table 11A)

All maturity groups were planted together in one test in Furnas County. The yields were good with plants being quite tall.

West Central Irrigated (Table 12A)

There was no division between early and late maturing varieties in this plot in Lincoln County. The protein percentage and plant height was higher this year but the lodging scores were also higher.

North Central Irrigated (Table 13A)

The early and late maturing varieties were planted together in this test in Brown County. Yields were up a little at this area compared to last year. Because of it's location, this area requires early maturing varieties.

West Central Irrigation Test (Table 14A)

In 1990, 28 soybean varieties were planted under two irrigation regimes in a wheat-sorghum-soybean rotation at the West Central Research and Extension Center in Lincoln County. The year was very dry with rainfall for the period September 1989 through August 1990 4 inches below normal of the longer term average of 19.4 inches. Varieties selected represent a range in maturities from Early Group II to Late Group II's.

CULTURAL PRACTICES

Dixon: Herbicide used was Treflan at 0.75 lbs./A. Cultivated once.

Saunders: Cropping history: 1988: soybeans 1989: corn. Herbicides used were 2 pts. Prowl PPI and Roundup 75:1 with the bean buggy. Cultivated one time and hand weeded.

Nemaha: Cropping history: 1988: soybeans 1989: milo. Herbicide used 0.5 lb. Preview and 1.5 lbs. Treflan PPI. This test was cultivated one time and hand weeded.

Clay: Previous crop was corn. Herbicides used were Lasso 2 qts./A, Sencor 0.5 lb., Poast 1 pt., and 28% UAN postemergence.

Thayer: Corn for the past two years. Herbicides used were Treflan broadcast and Pursuit used postemergence.

Valley : Corn for the past two years. The field was disked, and fertilizer with Pursuit Plus was applied with a floater. The field was disked twice more and blank planted.

Brown: Corn for the past two years. Herbicides used were 1.4 pts Treflan and 0.35 pts. Scepter. Fertilizer used at preplant was 50 lbs. of 21-0-0-24 and at planting 11.5 lbs. N and 12 lbs. S ammonia sulfate. Soil applied inoculant at planting.

Furnas: Corn for the past two years. Herbicide used was 2 pts. Commence. Soil applied inoculant at planting time.

Lincoln: Cropping history: 1988: corn 1989: popcorn. Herbicide used was 2 pts. Pursuit Plus preemergence. Soil applied Inoculum at planting time.

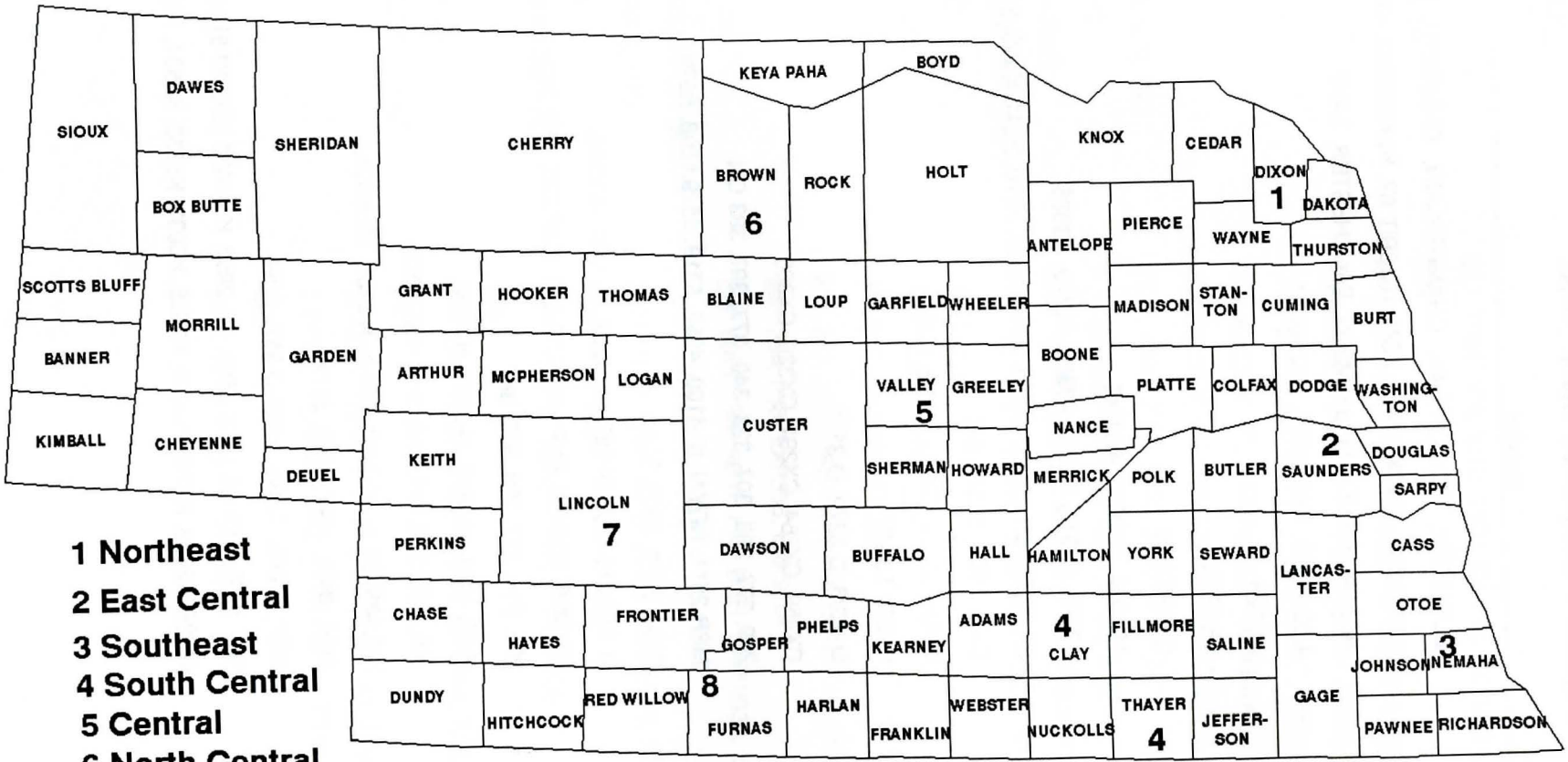
Lincoln Irrigation: Limited irrigation plots received 6 inches of irrigation while fully irrigated plots received about 11 inches.

Table A. Locations. Nebraska Soybean Performance Tests. 1990.

Location and Cooperator	Soil Type/Herbicide	Test	Planted	Harvested	Average yield bu/A	Mat-yield correlation r
Northeast						
Dixon County	Moody silty clay loam	Early	June 1	Oct. 5	30.7	-0.02
Kenneth Tuttle, Dixon	Treflan	Late	June 2	Oct. 12,13	30.7	-0.12
North Central						
Brown County	Thurman fine sandy loam	----	May 29	Oct. 15	43.2	----
Steve Bartak, Long Pine	Scepter & Treflan					
East Central						
Saunders County	Sharpsgurg silty clay loam	Early	June 4	Sept. 25	38.2	-0.53**
Ron Sladky, Wahoo	Prowl & Roundup	Late	June 4	Oct. 1	35.0	-0.58**
Southeast						
Nemaha County	Zook silty clay loam	Early	May 31	Oct. 2	38.0	0.27
Fred Gouchet, Brock	Preview & Treflan	Late	May 31	Oct. 2	38.1	0.00
South Central Irrigated						
Clay County	Hastings silt loam	Early	May 23	Oct. 2	62.3	-0.04
South Central Res. &	Lasso, Sencor, Poast+	Late	May 23	Oct. 10	60.4	0.04
Ext. Center	28% UAN					
Thayer County	Hastings and Crete silt loam	Early	May 8	Oct. 5	50.8	----
Rod Heinrichs, Carleton	Treflan & Pursuit	Late	May 8	Oct. 5	56.3	----
Central Irrigated						
Valley County	Blendon fine sandy loam	Early	May 18	Oct. 4	58.0	----
Jeff Waltman, North Loup	Pursuit +	Late	May 18	Oct. 4	56.7	----
West Central Irrigated						
Lincoln County	Hord fine sandy loam	----	June 1	Oct. 5	46.3	----
Jim Koop, Wallace	Pursuit +					
South West Irrigated						
Furnas County	Hord silt loam	----	May 28	Oct. 2&4	58.0	----
Steve Henry, Arapahoe						

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

PLOT LOCATIONS - 1990 SOYBEAN TESTS



1 Northeast
2 East Central
3 Southeast
4 South Central
5 Central
6 North Central
7 West Central
8 Southwest

Table B. Entries. Nebraska Soybean Performance Tests. 1990.

Brand	Entries
-----	BURLISON, CENTURY 84, CHAMBERLAIN, CHAPMAN, EDISON, FLYER, FREMONT, HACK, HAMILTON, HOBBIT 87, KENWOOD, KUNITZ, PELLA 86, RESNIK, RIPLEY, WILLIAMS 82, WINCHESTER, ZANE
EXPERIMENTAL-UNL	U85-74089, U86-62062, U87-63041
AGRIGENE SEED RESEARCH	AG228
AGRIPRO SEEDS	EX 2880
AMERICANA	CHAMPION
ARROW SEED	AS2090, AS2675, AS2845
ASGROW	A2543, A2872, A3205, A3322, A3733, A3935
ATLAS S-Brand Seed Co.	EX B276, A211, A221, A280, A302, A350, A370, B241, B455, S44D, S270, S57A, S62+, S67, S43G, S46J
CARGIL	C-237, C-277, C-285, C-325, C-345
CENEX/LAND O'LAKES	L2333, L3545
DAHLGREN	D 3223, D 3272, D 3330
DEKALB Plant Genetics	CX259, CX264, CX291, CX326, CX366
DE SOY	249, 277, 303, 307, 323, 340, 377, 397, 383 CN
FONTANELLE	MSR 2511, ROYAL II, 4100, 4550, 5319, 5529,5808, 5889
FUNK'S G BRAND	3232, 3258, 3300, 3344
GOLDEN HARVEST	H-1233, H-1260, H-1277, H-1285, H-1308, H-1355,
HILL SEED CO.	HS2380, HS2490, EXP 210, EXP 260, EXP 290, EXP 340
HOEGEMEYER	205, 210, 237, 368, 383, 387
HORIZON	H-25, H-53, H-2600, H-3200, H-3788,
HYPERFORMER	180, 255, 270, 311, 360, 388, HB90-321
HY-VIGOR	HYLANDER A^2, K-3903, 905-A, K-2180, EX:6260-A
JACOBSEN	J824, J888, J897, J898, J972
JACQUES SEED CO.	J-231, J-245, J-285, J-335, J-357, J-396
KAUP SEED	EXP 88-9, EXP 89-1, KS 2690, KS 2850, KS 3070 (EXP88-6), KS 3945
KRUGER	K2525, K2562, K2790, K2828, K2995, K3030, K3333, K3534, K3939, K3737

Table B. Concluded.

LATHAM	650, 770A, 920, 1010, 1070, EX 740, EX 1080
LEWIS HYBRIDS, INC	326
MC CUBBIN	ARMOR, KENT, MACON(EX 38978), TAHOE, TAYLOR, TAYLOR 88, 1790, 2389,2925, 3088, 3130, 3180, 3590(EX 38106), 3789, 4050
MERSCHMAN	CHEYENNE II, UTE, GARFIELD, KENNEDY III, EISENHOWER II, CHICKASAW II, MOHAVE, MOHAWK, MUNSEE II, TRUMAN III, ROOSEVELT, WASHINGTON VI, HOOVER II, SHAWNEE IV
MIDWEST OILSEEDS, INC	2170, 2220, 2230, 2250, 3040, 3110, 3220, 3980, EX2290
NORTHRUP KING	S 20-26, S 23-03, S 25-15, S 29-20, S 30-41, S 36-36, S 42-30
OHLDE SEED FARMS	2850, 3000, 3650, EX 500, EX 800, EX 929, EX 820K
PIONEER HI-BRED INT'L INC	9241, 9272, 9273, 9301, 9302, 9303, 9341, 9391
PROFISEED INC	PS 1152, PS 3040
SANSGAARD SEED	EXP2120, SATURN, S-3477
SEXAUER	SX-2080, SX-2090, SX-3050
SOI	268, 287, 299(STAR EXP8929), 301(STAR EXP8931), 306(STAR EXP8935), 389, 392, 394, 398, EXP386, EXP9024
STAR	EXP 9027, EXP 9030, EXP 9031, EXP 9032, EXP 9034, EXP 9039, EXP 9126
STAR SEED/RESEARCH SEEDS	BUCHANAN, EXPRESS
STINE SEED FARM, INC	2030, 2130, 2770, 2840, 3000, 3020, 3075, 3170, 3790, 3940
SUPER CROST	SC 291, D 305
SUPER CROST DIAMOND	D210, D225B, D285, D300, D301, D305
TAYLOR	330
TERRA INT'L, INC	CYCLE, FINALIST, MEDALIST, SPRINT, TRIUMPH, VICTORY, WINNER
TRIUMPH SEED CO., INC	387
TRI VALLEY	BLAZER 87, BOBCAT II, BOBCAT 90, BRAT, BRONCO, BUICK 91,CAMRY, CAPRI, CATALINA, CELICA, CHARGER 90, CHARGER 91, CUTLASS 91, TV-22
WILSON BLEND	2404, 2580, 3165, 3300, 3490

Table C. Entrants. Nebraska Soybean Performance Tests. 1990.

Brand	Entrant	Address
Agrigene	Agrigene Seed Research	Des Moines, IA 50322
AgriPro	AgriPro Seeds	Ames, IA 50010
Americana	Edward J. Funk & Sons Inc.	Carroll, IA 51401
Arrow Seed	Arrow Seed Company	Broken Bow, NE 68822
Asgrow	Asgrow Seed Company	Des Moines, IA 50322
Atlas S-Brand	Atlas S-Brand Seed Co.	Harlan, IA 51537
Cargill	Cargill Incorporated	Minneapolis, MN 55440
Cenex/Land O'Lakes	Cenex/Land O'Lakes	Fort Dodge, IA 50501
Dahlgren	Dahlgren and Company, Inc.	Crookston, MN 56716
DeKalb-Pfizer	DeKalb-Pfizer Genetics	DeKalb, IL 60115
DeSoy	Dennis Ewing Farm Seed	Ames, IA 50010
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044
FunK's G Brand	Ciba-Geigy Seed Division	Greensboro, NC 27419
Golden Harvest	The J. C. Robinson Seed Co.	Waterloo, NE 68069
Hill Seed	Hill Seed Company	Ellsworth, IA 50075
Hoegemeyer	Hoegemeyer Hybrids	Hooper, NE 68031
Horizon	Horizon Seeds	Lincoln, NE 68501
Hyperformer	Hyperformer Seed Company	Memphis, Tn 38137
Hy-Vigor	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	Kruger Seed Company	Dike, IA 50669
Latham	Latham Seed Company	Alexander, IA 50420
Lewis	Lewis Hybrids, Inc.	Ursa, IL 62376
McCubbin	McCubbin-Cheesman Seed Co.	Green Mountain, IA 50637
Merschman	Merschman Seeds	West Point, IA 52656
Midwest Oilseeds, Inc.	Midwest Oilseeds, Inc.	Adel, IA 50003
Northrup King	Northrup King Co.	Minneapolis, MN 55440
Ohlde	Ohlde Seed Farms	Palmer, KS 66962
Pioneer	Pioneer Hi-Bred Int'l Inc.	Lincoln, NE 68505
ProfiSeed	ProfiSeed Inc.	Hampton, IA 50441
Sansgaard Seed	Sansgaard Seed Farms, Inc.	Story City, IA 50248
Sexauer	The Sexauer Company	Norfolk, NE 68701
SOI	Sand Seed Service, Inc.	Marcus, IA 51035
Star	Star Brand Seed	Marcus, IA 51035
Star Seed/	Star Seed/Research Seeds	Beluit, KS 67420
Research Seeds	Star Seed/Research Seeds	St. Joseph, MO 67501
Stine Seed Farm, Inc.	Stine Seed Farm, Inc.	Adel, IA 50003
Super Crost	Edward J. Funk & Sons Inc.	Caroll, IA 51401
Super Crost Diamond	Edward J. Funk & Sons Inc.	Caroll, IA 51401
Taylor	Taylor Seed Farms, Inc.	White Cloud, KS 66094
Terra	Terra International, Inc.	Lima, OH 45804
Triumph	Triumph Seed Co., Inc.	Ralls, TX 79357
Tri Valley Seed	Tri Valley Seed	Council Bluffs, IA 51501
Wilson Blend	Wilson Hybrids, Inc.	Harlan, IA 51537

Table D. Soybean performance. Average for entries common over years within tests. Five years. 1986–1990.

Test	Year	Yield bu/A	Mature date	Lodging score	Height inches	Seeds /pound
Northeast						
Early (3 entries)	1986	44.6	9-30	1.0	33	2903
	1987	48.9	9-29	1.3	37	----
	1988	35.9	9-14	1.0	30	2917
	1989	30.7	9-20	---	20	2660
	1990	30.7	9-14	1.0	31	3277
Late (5 entries)	1986	45.0	10- 1	1.0	32	2990
	1987	54.4	10- 1	1.1	39	----
	1988	36.7	9-21	1.0	30	3036
	1989	26.9	9-25	---	19	2460
	1990	31.4	9-15	1.0	30	3266
East Central						
Early (4 entries)	1986	69.4	9-26	2.5	40	2833
	1987	48.4	9-25	1.1	35	3058
	1988	36.4	9-10	1.3	37	3755
	1989	50.2	9-20	2.5	35	2868
	1990	38.9	9-20	1.5	35	3650
Late (4 entries)	1986	62.5	10- 6	2.3	45	2538
	1987	46.4	10- 3	1.5	39	2703
	1988	32.1	9-21	1.3	39	3355
	1989	45.7	9-27	2.8	37	2625
	1990	31.5	9-21	1.8	39	3603
Southeast						
Early (1 entries)	1986	60.7	9-20	2.5	39	2370
	1987	42.9	9-20	1.0	33	2700
	1988	27.4	9-12	1.8	40	2700
	1989	36.3	10- 7	1.3	25	2070
	1990	37.7	9-17	1.0	39	3160
Late (8 entries)	1986	63.6	9-30	2.3	42	2733
	1987	43.9	9-26	1.7	35	3220
	1988	25.4	9-19	1.5	40	3784
	1989	32.9	9-11	1.2	24	2609
	1990	36.9	9-26	1.0	37	3399
South Central						
Early (4 entries)	1986	65.0	9-20	1.7	37	2774
	1987	49.2	9-14	1.5	38	2925
	1988	51.9	9-20	1.4	36	----
	1989	56.3	9-21	1.3	37	2543
	1990	57.1	9-25	1.3	32	2505
Late (3 entries)	1986	54.2	9-27	1.7	42	2585
	1987	45.9	9-21	1.8	45	2712
	1988	51.3	9-26	1.7	41	----
	1989	50.7	9-27	2.1	42	2530
	1990	55.2	9-30	1.6	39	2478
Central						
Early (11 entries)	1989	48.8	----	1.7	32	2560
	1990	58.8	----	---	35	2595
Late (9 entries)	1989	43.8	----	2.3	39	2853
	1990	57.9	----	1.8	35	2632
Southwest						
----(16 entries)	1989	40.1	----	---	--	2891
	1990	56.8	----	---	47	----
North Central						
----(7 entries)	1989	41.3	----	---	--	3061
	1990	43.1	----	---	34	----

Table 1A. Northeast Soybean Performance Test. Dixon County. Early Maturing Varieties. 1990.

Brand	Variety	Yield bu/a	Mature date	Height inches	Seeds/ pound	Protein %	Oil %	EPV $/a
STINE	2030	36	9-12	29	2880	34.6	18.1	247.38
JACOBSEN	J897	36	9-16	32	2990	34.9	18.6	229.71
DIAMOND BRAND	D210	36	9-14	29	2890	37.0	17.4	225.15
KRUGER	K2790	35	9-16	36	2920	34.8	18.6	207.10
MIDWEST OILSEEDS	2220	34	9-10	26	3010	36.4	17.3	233.42
PROFISEED	PS 1152	34	9-14	30	3290	36.0	18.0	215.87
STINE	2840	34	9-14	26	2900	36.5	17.7	210.42
GOLDEN HARVEST	H-1233	34	9-15	31	3370	35.8	17.8	230.47
LATHAM	650	33	9-13	29	3240	36.7	18.0	203.04
MC CUBBIN	KENT	33	9-14	29	2920	36.4	17.8	224.54
DE SOY	277	33	9-15	34	3290	35.1	18.4	220.43
JACQUES	J-231	33	9-11	31	2630	36.1	17.5	196.46
DEKALB Plant Genetics	CX264	33	9-13	29	3150	35.3	18.5	215.48
KAUP SEED	KS 2850	33	9-13	30	3350	36.4	17.0	221.11
NORTHRUP KING	S 25-15	33	9-14	28	3280	36.8	17.3	217.27
ATLAS	211	33	9-11	27	2930	35.6	18.4	222.50
HILL SEED	EXP210	33	9-12	29	3180	36.2	17.9	224.49
STAR	EXP9126	33	9-15	24	2940	36.0	17.7	214.83
PIONEER	9273	32	9-16	26	2960	37.0	16.9	201.13
LATHAM	EX740	32	9-15	28	3550	35.8	17.4	210.18
TERRA	WINNER	32	9-15	27	2800	36.4	17.9	222.25
ATLAS S BRAND	A220	32	9-13	24	2910	36.0	17.8	212.37
OHLDE	EX800	32	9-18	26	3060	37.2	16.5	218.04
PIONEER	9241	32	9-12	24	3250	35.5	17.6	203.28
WILSON BLEND	2404	32	9-13	28	3480	36.8	16.8	224.37
GOLDEN HARVEST	H-1260	32	9-15	28	2880	36.8	17.3	193.34
-----	U87-63041	32	9-12	26	3140	36.3	17.9	212.70
HY-VIGOR	K-2180	31	9-10	30	3310	36.2	18.2	202.59
HILL SEED	HS2380	31	9-14	26	3010	36.5	17.6	211.14
HYPERFORMER	255	31	9-12	32	2910	36.7	17.1	204.38
-----	KENWOOD	31	9-12	29	3540	35.9	17.2	200.82
SEXAUER	SX-2080	31	9-14	29	3170	36.9	17.3	211.39
FUNK'S G BRAND	3258	31	9-15	28	3040	35.9	17.8	211.30
SANSGAARD SEED	EXP 2120	31	9-15	24	2990	36.5	17.3	205.68
-----	PELLA 86	31	9-16	28	2840	37.4	16.5	198.10
SOI	287	31	9-14	29	2890	36.6	17.8	217.15
HOEGEMEYER	210	31	9-12	28	3400	37.2	16.7	198.44
TRI VALLEY	TV-22	31	9-15	30	3320	36.8	16.9	193.32
FONTANELLE	4100	31	9-14	28	2940	36.3	17.7	213.71
MERSHMAN	MUNSEE II	30	9-14	26	3040	35.1	17.9	193.70

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Table 1A. Northeast Soybean Performance Test. Dixon County.
Early Maturing Varieties. 1990. PAGE 2.

Brand	Variety	Yield bu/a	Mature date	Height inches	Seeds/ pound	Protein %	Oil %	EPV $/a
JACOBSEN	J898	30	9-16	28	3550	36.8	16.2	185.66
MERSHMAN	UTE	30	9-14	27	2920	36.8	17.6	194.05
KAUP SEED	EXP 89-1	30	9-12	29	3450	37.2	17.4	192.79
CENEX/LAND O'LAKES	L2333	30	9-12	26	2870	36.6	17.6	168.19
KRUGER	K2525	30	9-14	24	3110	36.4	17.7	189.62
-----	CENTURY 8	30	9-15	27	3010	36.0	17.6	224.38
OHLDE	2850	30	9-17	28	3360	36.4	17.1	195.72
DE SOY	249	30	9-14	29	2880	36.5	17.4	200.81
HY-VIGOR	EX:6260-A	30	9-13	32	3230	37.2	16.6	184.47
HYPERFORMER	180	30	9- 7	29	2910	35.5	18.2	203.61
-----	CHAPMAN	29	9-15	30	3080	36.9	17.0	182.53
LATHAM	770A	29	9-16	26	3160	37.5	17.3	186.76
TERRA	MEDALIST	29	9-13	30	3450	37.1	16.7	196.69
HOEGEMEYER	237	29	9-14	29	2970	36.5	17.8	194.09
MC CUBBIN	1790	29	9- 8	23	3310	36.7	17.1	168.99
CARGILL	C-237	28	9-13	29	3200	38.1	17.2	187.03
ATLAS S BRAND	S43G	28	9-11	26	3450	37.2	16.3	177.14
ASGROW	A2543	28	9-15	23	2960	37.1	16.9	180.71
DAHLGREN	D-3223	28	9-12	26	3290	37.1	17.0	171.34
SOI	EXP9024	28	9-12	28	3320	36.8	17.3	189.12
MIDWEST OILSEEDS	2230	27	9-12	27	3480	37.1	17.2	168.26
DAHLGREN	D-3272	27	9-18	29	3510	37.8	15.7	188.46
-----	BURLISON	27	9-16	28	2920	37.7	16.6	189.60
NORTHRUP KING	S 23-03	27	9-11	31	3140	37.0	16.9	191.11
TRI VALLEY	BRAT	27	9-12	28	3390	37.8	16.9	189.43
JACQUES	J-245	26	9-12	25	3370	36.7	17.3	166.08
FUNK'S G BRAND	3232	26	9-15	29	3250	36.7	17.0	167.36
ATLAS	B241	24	9-14	26	3040	37.1	17.3	160.52
Average all entries		31	9-13	28	3140	36.5	17.4	201.19
Dif. Req. for Sig.	5%	5	1.3	3	170	0.8	0.9	NS
	25%	3	0.8	2	100	0.5	0.5	NS

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN.

Table 1B. Northeast Soybean Performance Test. Early Maturing Varieties. 1986 - 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Protein %	Oil %	EPV $/a
				2 YEAR AVERAGE				
MERSHMAN	UTE	34.4	9-19	1.0	2620	36.3	18.4	257.00
STINE	2840	33.6	9-19	1.0	2600	35.8	18.4	220.80
OHLDE	2850	33.4	9-23	1.0	2950	35.2	18.1	235.40
JACQUES	J-231	32.5	9-17	1.0	2490	35.5	18.4	209.60
DE SOY	249	32.5	9-19	1.0	2650	36.2	18.2	228.40
LATHAM	650	32.4	9-17	1.0	3070	36.6	18.6	216.80
DIAMOND BRAND	D210	32.3	9-19	1.0	2660	35.9	18.4	189.60
TRI VALLEY	TV-22	32.1	9-19	1.0	2990	35.4	18.5	216.20
MERSHMAN	MUNSEE II	31.8	9-20	1.0	2700	35.1	18.6	219.80
SEXAUER	SX-2080	31.4	9-17	1.0	2930	36.3	18.6	216.80
HILL SEED	HS2380	30.8	9-19	1.0	2650	35.5	18.8	198.40
NORTHRUP KING	S 23-03	30.5	9-14	1.0	2900	36.6	18.0	227.40
HOEGEMEYER	237	30.3	9-19	1.0	2680	35.8	19.1	210.00
SOI	287	29.8	9-18	1.0	2600	37.0	18.2	193.20
-----	CENTURY 8	29.6	9-20	1.0	2680	36.6	18.1	194.40
GOLDEN HARVEST	H-1233	29.5	9-19	1.0	3030	36.1	18.8	169.40
DEKALB Plant Gen	CX264	29.3	9-17	1.0	3000	36.2	18.7	171.20
-----	BURLISON	29.1	9-23	1.0	2550	36.4	18.0	202.60
WILSON BLEND	2404	29.1	9-18	1.0	3030	36.3	18.3	178.00
KAUP SEED	KS 2850	28.1	9-18	1.0	3070	35.7	18.4	152.60
TERRA	MEDALIST	27.6	9-19	1.0	3030	36.0	18.0	168.80
HYPERFORMER	180	26.6	9-10	1.0	2720	34.8	18.6	148.00
ASGROW	A2543	26.0	9-19	1.0	2760	36.8	17.8	157.40
FUNK'S G BRAND	3232	25.0	9-19	1.0	2940	35.4	18.3	155.40
Average all entries		30.2	9-18	1.0	2810	35.9	18.4	197.20
Dif. Req. for Sig.	5%	NS	1.4	NS	166	NS	NS	NS
	25%	NS	0.8	NS	95	NS	NS	NS
				3 YEAR AVERAGE				
OHLDE	2850	34.8	9-23	1.0	2990	34.5	18.7	237.40
DIAMOND BRAND	D210	34.5	9-19	1.0	2650	34.5	19.2	216.60
JACQUES	J-231	33.8	9-16	1.0	2470	34.9	19.1	224.20
TRI VALLEY	TV-22	33.2	9-18	1.0	3010	34.3	19.2	219.40
MERSHMAN	MUNSEE II	32.7	9-19	1.0	2700	34.3	19.3	220.80
SEXAUER	SX-2080	32.5	9-18	1.0	2850	35.5	18.9	219.80
SOI	287	32.5	9-17	1.0	2670	35.3	19.0	215.40

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Table 1B. Northeast Soybean Performance Test. Early Maturing Varieties. 1986 - 1990. Page 2.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Protein %	Oil %	EPV $/a
GOLDEN HARVEST	H-1233	32.1	9-17	1.0	2950	35.1	19.3	203.80
NORTHRUP KING	S 23-03	32.0	9-14	1.0	2890	35.6	18.7	226.20
-----	BURLISON	31.7	9-22	1.0	2650	35.6	18.4	220.20
WILSON BLEND	2404	31.0	9-17	1.0	3100	34.9	19.0	198.60
KAUP SEED	KS 2850	30.7	9-17	1.0	3040	34.6	19.1	189.80
TERRA	MEDALIST	30.4	9-18	1.0	3160	34.9	18.8	199.40
FUNK'S G BRAND	3232	27.7	9-19	1.0	3030	34.7	18.9	184.00
Average all entries		32.1	9-18	1.0	2870	34.9	19.0	212.50
Dif. Req. for Sig.	5%	NS	1.4	NS	127	NS	NS	NS
	25%	NS	0.8	NS	70	NS	NS	NS
4 YEAR AVERAGE								
TRI VALLEY	TV-22	37.5	9-21	1.2	3010			
MERSHMAN	MUNSEE II	37.1	9-22	1.0	2700			
GOLDEN HARVEST	H-1233	36.6	9-20	1.2	2950			
SEXAUER	SX-2080	36.5	9-21	1.0	2850			
KAUP SEED	KS 2850	36.1	9-20	1.1	3040			
WILSON BLEND	2404	35.6	9-20	1.0	3100			
NORTHRUP KING	S 23-03	35.6	9-17	1.0	2890			
Average all entries		36.4	9-20	1.1	2930			
Dif. Req. for Sig.	5%	NS	1.2	NS	88			
	25%	NS	0.7	NS	50			
5 YEAR AVERAGE								
TRI VALLEY	TV-22	38.9	9-23	1.1	2960			
GOLDEN HARVEST	H-1233	38.2	9-22	1.1	2990			
NORTHRUP KING	S 23-03	37.3	9-19	1.0	2870			
Average all entries		38.2	9-21	1.1	2940			
Dif. Req. for Sig.	5%	NS	0.6	NS	NS			
	25%	NS	0.4	NS	NS			

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 2A. Northeast Soybean Performance Test. Dixon County. Late Maturing Varieties. 1990.

Brand	Variety	Yield bu/a	Mature date	Height inches	eeds/ pound	Protein %	Oil %	EPV $/a
SEXAUER	SX-2090	37	9-15	37	3450	36.0	17.7	241.47
MC CUBBIN	2389	36	9-16	33	3270	35.1	18.7	235.45
KRUGER	K2995	36	9-16	30	3280	35.6	18.4	237.04
HILL SEED	HS2490	36	9-15	28	3140	36.6	17.6	223.77
OHLDE	3000	36	9-19	31	3130	35.0	18.2	240.14
FUNK'S G BRAND	3300	34	9-18	30	3340	35.7	18.3	229.61
STINE	2130	34	9-14	27	3220	35.7	17.9	220.36
CARGILL	C-277	34	9-16	32	3340	35.0	18.3	242.41
DEKALB Plant Genetics	CX259	34	9-15	27	3020	35.7	18.4	222.21
LATHAM	1010	33	9-15	31	3320	35.6	18.0	213.99
LATHAM	1070	33	9-17	31	3390	36.7	17.4	207.98
HYPERFORMER	270	33	9-17	32	3440	35.5	17.8	225.96
STAR	EXP9027	33	9-16	33	3200	35.4	18.1	210.89
FONTANELLE	MSR2511	33	9-15	29	3460	35.5	17.7	225.86
-----	U87-63041	33	9-12	28	3310	35.6	18.4	228.56
ATLAS S BRAND	S46J	32	9-17	25	3180	36.0	17.7	215.07
TERRA	SPRINT	32	9-16	32	3390	35.8	17.9	210.45
SOI	299	32	9-16	24	3370	36.5	17.2	200.06
WILSON BLEND	2580	32	9-16	25	3330	36.7	17.2	208.78
PIONEER	9303	32	9-17	29	3020	35.8	18.1	243.38
HOEGEMEYER	205	32	9-15	31	3370	36.4	18.4	197.40
NORTHRUP KING	S 29-20	32	9-15	32	3330	36.0	17.9	192.62
-----	KENWOOD	32	9-14	29	3490	35.7	18.2	221.19
KAUP SEED	KS 3945	31	9-17	30	3260	35.9	17.7	174.13
GOLDEN HARVEST	H-1285	31	9-16	30	3280	35.7	18.7	188.84
HYPERFORMER	311	31	9-16	34	3450	36.3	17.0	207.43
KAUP SEED	KS 2690	31	9-16	31	3230	35.8	18.4	212.50
MIDWEST OILSEEDS	2250	31	9-15	24	3220	36.3	17.4	204.91
NORTHRUP KING	S 30-41	31	9-16	28	3200	36.2	18.4	193.47
STINE	3000	31	9-16	28	3320	35.4	17.4	228.37
TRI VALLEY	BOBCAT II	31	9-16	29	3190	36.1	17.4	197.13
PROFISEED	PS 3040	31	9-15	32	3200	35.6	18.4	205.70
OHLDE	EX929	31	9-15	27	3400	36.1	17.4	215.46
GOLDEN HARVEST	H-1308	31	9-18	31	3180	35.4	17.5	182.07
ATLAS	280	31	9-17	24	3300	36.5	17.0	212.73
MERSHMAN	CHEYENNE I	31	9-16	30	3230	36.3	18.2	204.61
KRUGER	K3030	30	9-17	30	3250	35.7	16.9	187.86
PIONEER	9301	30	9-17	34	3390	35.9	18.3	211.88
-----	BURLISON	30	9-16	27	3100	37.2	17.0	206.63
HILL SEED	EXP260	30	9-18	25	3250	36.1	17.7	198.26

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Table 2A. Northeast Soybean Performance Test. Dixon County. Late Maturing Varieties. 1990. PAGE 2.

Brand	Variety	Yield bu/a	Mature date	Height inches	eeds/ pound	Protein %	Oil %	EPV $/a
DE SOY	303	30	9-17	30	3510	36.2	18.1	202.76
DIAMOND BRAND	D285	30	9-19	28	3610	36.0	17.7	177.47
HY-VIGOR	K-3903	30	9-14	29	3330	36.4	17.7	177.49
JACOBSEN	J972	30	9-18	34	3220	35.4	17.1	199.76
WILSON BLEND	3165	30	9-17	30	3250	35.9	16.4	194.01
SANSGAARD SEED	SATURN	30	9-17	23	3050	37.1	17.0	204.00
-----	HACK	29	9-14	27	2970	35.2	18.4	203.04
ATLAS S BRAND	S270	29	9-17	27	2950	36.3	18.0	201.19
DE SOY	307	29	9-15	26	3490	36.2	17.8	215.16
FONTANELLE	4550	29	9-17	29	3380	35.6	18.0	184.78
LATHAM	EX1080	28	9-17	29	3280	35.6	17.5	188.26
HY-VIGOR	905-A	28	9-14	26	3390	36.3	17.1	170.83
ATLAS	EX276	28	9-17	27	3340	36.3	17.8	187.08
LATHAM	920	28	9-17	24	3680	36.3	16.9	176.46
-----	CENTURY 8	28	9-15	29	2970	36.5	17.1	197.52
-----	CHAPMAN	28	9-16	28	2880	36.3	17.9	172.58
MC CUBBIN	ARMOR	27	9-15	25	3560	36.5	18.0	181.18
MERSHMAN	MOHAVE	27	9-16	29	3180	35.8	18.0	193.05
AGRIGENE	AG 228	27	9-18	26	3740	36.3	16.8	171.82
TERRA	FINALIST	27	9-21	26	3540	36.3	17.0	174.89
JACQUES	J-285	27	9-17	24	3280	36.2	18.2	173.89
TRI VALLEY	BLAZER 87	27	9-15	28	3680	36.6	16.6	187.76
SUPER CROST	SC291	27	9-17	24	3400	35.3	18.0	160.09
JACOBSEN	J888	27	9-15	27	3470	35.9	17.8	186.86
-----	PELLA 86	27	9-16	29	2890	35.8	17.7	185.47
SOI	268	26	9-14	28	3640	36.3	17.5	168.82
Average all entries		31	9-16	29	3300	36.0	17.7	202.47
Dif. Req. for Sig.	5%	5	1	4	320	1.0	NS	NS
	25%	3	1	2	180	0.6	0.7	30.00

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 2B. Northeast Soybean Performance Test. Late Maturing Varieties. 1986 - 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Protein %	Oil %	EPV $/a
				2 YEAR AVERAGE				
OHLDE	3000	33.2	9-24	1.0	2730	34.9	18.6	199.20
KAUP SEED	KS 3945	32.8	9-22	1.0	2720	36.1	18.0	230.00
FUNK'S G BRAND	3300	32.0	9-22	1.0	2910	35.6	18.5	196.80
WILSON BLEND	3165	31.9	9-22	1.0	2740	35.8	17.7	221.40
LATHAM	1010	31.7	9-20	1.0	2930	35.4	18.6	200.40
SEXAUER	SX-2090	31.4	9-18	1.0	3060	35.7	18.4	170.60
TERRA	SPRINT	30.5	9-22	1.0	2940	35.7	18.5	188.60
SOI	299	30.4	9-21	1.0	2910	36.4	18.0	193.40
MERSHMAN	CHEYENNE I	30.4	9-21	1.0	2920	36.0	18.6	199.20
-----	KENWOOD	30.2	9-19	1.3	3170	34.9	18.9	184.40
NORTHRUP KING	S 29-20	29.7	9-21	1.0	2830	36.3	17.9	181.60
KAUP SEED	KS 2690	29.6	9-21	1.0	2920	36.2	18.5	187.00
LATHAM	1070	29.1	9-22	1.0	2840	36.6	17.9	170.00
GOLDEN HARVEST	H-1285	29.1	9-22	1.0	2840	35.3	19.1	181.80
DIAMOND BRAND	D285	28.9	9-23	1.0	3130	35.8	18.2	184.20
HYPERFORMER	270	28.7	9-22	1.0	2950	35.7	18.4	163.20
HOEGEMEYER	205	28.7	9-21	1.0	2930	35.7	18.8	163.60
LATHAM	920	28.6	9-22	1.0	3150	35.8	18.0	188.40
-----	PELLA 86	27.9	9-22	1.0	2470	35.4	18.7	188.20
HY-VIGOR	K-3903	27.8	9-18	1.0	2980	36.4	18.0	168.40
MERSHMAN	MOHAVE	27.7	9-23	1.0	2770	36.2	18.2	188.80
ATLAS S BRAND	S270	27.5	9-21	1.0	2550	36.8	18.2	174.60
SOI	268	27.4	9-19	1.0	3160	36.4	18.0	194.00
TRI VALLEY	BLAZER 87	27.2	9-20	1.0	3170	36.7	17.3	185.40
-----	HACK	26.1	9-19	1.0	2690	35.5	18.6	153.80
Average all entries		29.5	9-21	1.0	2890	35.9	18.3	186.30
Dif. Req. for Sig.	5%	NS	0.6	NS	108	0.5	NS	NS
	25%	NS	0.4	NS	63	0.3	0.3	NS
				3 YEAR AVERAGE				
OHLDE	3000	35.2	9-25	1.0	2790	34.0	19.1	222.40
WILSON BLEND	3165	34.0	9-23	1.0	2810	34.8	18.3	230.60
LATHAM	1010	33.2	9-20	1.0	2980	34.6	19.1	216.00
TERRA	SPRINT	33.1	9-21	1.0	3010	34.9	19.0	217.00
HOEGEMEYER	205	32.0	9-20	1.0	2950	34.8	19.3	205.60
KAUP SEED	KS 2690	32.0	9-20	1.0	2950	35.1	19.0	209.40
GOLDEN HARVEST	H-1285	31.5	9-22	1.0	2920	34.6	19.4	206.80
NORTHRUP KING	S 29-20	31.4	9-21	1.0	2830	35.0	18.8	200.80
LATHAM	920	30.8	9-22	1.0	3200	35.3	18.4	208.00

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Table 2B. Northeast Soybean Performance Test. Late Maturing Varieties. 1986 - 1990. PAGE 2.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Protein %	Oil %	EPV $/a
MERSHMAN	MOHAVE	30.8	9-22	1.0	2810	35.1	18.7	211.40
DIAMOND BRAND	D285	30.3	9-22	1.0	3170	35.1	18.8	198.60
TRI VALLEY	BLAZER 87	30.3	9-19	1.0	3210	35.5	18.2	208.40
HY-VIGOR	K-3903	30.3	9-18	1.0	3020	35.0	18.8	196.00
-----	PELLA 86	30.1	9-22	1.0	2540	34.5	19.2	203.60
SOI	268	29.7	9-18	1.0	3190	35.3	18.6	205.80
-----	HACK	28.5	9-20	1.0	2750	34.5	19.1	182.60
Average all entries		31.5	9-21	1.0	2940	34.9	18.9	207.70
Dif. Req. for Sig.	5%	1.6	0.9	NS	66	NS	NS	NS
	25%	0.9	0.5	NS	39	0.3	0.2	5.40
				4 YEAR AVERAGE				
LATHAM	1010	38.7	9-23	1.1	2980			
LATHAM	920	38.7	9-24	1.0	3200			
TERRA	SPRINT	38.5	9-24	1.0	3010			
HOEGEMEYER	205	38.3	9-23	1.0	2950			
NORTHRUP KING	S 29-20	37.9	9-24	1.0	2830			
KAUP SEED	KS 2690	37.5	9-23	1.0	2950			
GOLDEN HARVEST	H-1285	37.4	9-25	1.0	2920			
HY-VIGOR	K-3903	37.1	9-21	1.0	3020			
-----	PELLA 86	37.0	9-26	1.1	2540			
SOI	268	36.4	9-21	1.0	3190			
-----	HACK	34.0	9-23	1.0	2750			
Average all entries		37.4	9-23	1.0	2940			
Dif. Req. for Sig.	5%	NS	0.7	NS	64			
	25%	0.9	0.4	NS	36			
				5 YEAR AVERAGE				
TERRA	SPRINT	40.4	9-25	1.0	2940			
LATHAM	1010	39.9	9-25	1.1	2990			
HOEGEMEYER	205	39.7	9-25	1.0	3010			
GOLDEN HARVEST	H-1285	38.6	9-26	1.0	2980			
-----	HACK	35.8	9-24	1.0	2770			
Average all entries		38.9	9-25	1.0	2940			
Dif. Req. for Sig.	5%	0.9	0.5	NS	NS			
	25%	0.5	0.3	NS	47			

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 3A. East Central Soybean Performance Test. Saunders County. Early Maturing Varieties. 1990.

Bramd	Variety	Yield bu/a	Maturity date	Lodging score	Height inches	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
JACOBSEN	J897	43	9-13	1.0	36	3200	53.8	34.1	19.9	279.93
KRUGER	K2790	43	9-13	1.0	35	3240	56.4	34.5	19.8	281.65
MIDWEST OILSEEDS	2170	42	9-12	1.5	32	3180	55.3	35.4	19.6	279.72
GOLDEN HARVEST	H-1285	42	9-14	2.0	37	3470	57.3	35.5	19.1	278.04
FONTANELLE	ROYAL II	42	9-12	1.5	35	3470	57.0	35.7	19.2	279.30
DEKALB Plant Gen	CX291	42	9-15	1.5	39	3320	56.7	35.2	19.5	278.04
OHLDE	EX929	42	9-12	1.0	33	3790	57.7	36.1	17.7	274.26
DEKALB Plant Gen	CX259	42	9-13	1.5	33	3090	57.0	34.4	19.8	274.68
-----	U87-63041	42	9-11	1.0	31	2960	55.4	35.0	19.9	278.88
HYPERFORMER	270	42	9-13	1.5	37	3340	57.2	35.6	18.8	276.78
-----	KENWOOD	42	9-12	1.8	37	3480	57.1	34.8	18.0	267.54
HILL SEED	HS2490	41	9-12	1.5	33	3140	57.2	35.3	18.7	268.14
GOLDEN HARVEST	H-1260	41	9-12	1.8	34	3230	57.4	34.9	19.2	268.14
WILSON BLEND	2404	41	9-12	2.0	36	3740	56.2	35.6	18.2	267.32
DE SOY	277	41	9-12	1.8	36	3350	56.6	34.3	19.6	266.50
TERRA	SPRINT	41	9-13	2.0	36	3450	57.5	35.7	19.2	272.24
MC CUBBIN	2925	41	9-14	1.0	30	3290	59.0	36.3	18.3	271.01
MC CUBBIN	TAYLOR 88	41	9-13	1.8	34	4040	56.8	36.0	17.6	266.09
KAUP SEED	KS 2690	40	9-12	1.8	35	3520	55.4	35.4	19.1	264.00
DIAMOND BRAND	D210	40	9-12	1.3	34	3110	57.1	35.1	19.3	263.60
JACOBSEN	J824	40	9-13	1.8	35	3480	57.1	35.8	18.7	264.40
MERSHMAN	SHAWNEE IV	40	9-15	1.0	32	3230	59.0	36.3	17.8	262.80
HOEGEMEYER	205	40	9-12	1.5	35	3660	57.0	35.2	19.1	262.40
HOEGEMEYER	237	40	9-12	1.3	34	3120	57.2	34.9	19.3	262.00
AGRIPRO	EX 2880	40	9-12	1.0	28	3710	56.4	35.3	19.0	263.20
STINE	2770	40	9-13	1.8	36	4220	56.7	36.1	17.4	260.00
SOI	301	40	9-13	1.3	34	3260	57.0	35.4	17.7	257.20
MIDWEST OILSEEDS	3110	40	9-16	1.8	35	3710	57.6	35.8	18.1	261.20
TRI VALLEY	BRONCO	40	9-13	1.8	34	3370	57.2	35.4	18.1	258.80
STAR	EXP9031	39	9-14	1.5	35	3150	57.5	35.5	17.8	251.55
SEXAUER	SX-2090	39	9-14	2.0	42	3880	58.7	35.8	18.7	257.40
HILL SEED	EXP260	39	9-13	1.0	31	3540	58.3	36.6	18.0	258.57
-----	CHAPMAN	39	9-13	1.5	36	2840	57.5	36.6	19.1	262.86
KRUGER	K2828	39	9-14	1.0	31	3230	58.7	36.4	17.8	256.62
SOI	392	39	9-15	1.8	38	2900	56.2	35.1	19.0	255.06
CARGILL	C-285	39	9-12	1.0	28	3290	58.2	37.0	18.3	261.30
ASGROW	A2543	38	9-11	1.0	26	2990	55.6	37.2	17.8	253.46
HY-VIGOR	K-3903	38	9-11	1.5	35	3600	56.0	35.5	18.6	248.52
NORTHRUP KING	S 29-20	38	9-13	1.8	36	3280	53.2	35.4	18.9	250.04
-----	CENTURY 84	38	9-10	1.0	34	3120	57.4	36.6	18.1	251.94
DAHLGREN	D-3223	38	9-10	1.0	30	3740	56.1	36.7	17.7	250.80
MERSHMAN	MOHAVE	38	9-14	1.8	35	3410	55.8	35.5	17.8	244.72
ATLAS S BRAND	S46J	38	9-13	1.0	29	3610	57.2	37.0	17.4	251.18
PIONEER	9272	38	9-11	1.3	32	3270	55.6	35.3	19.3	251.18
ATLAS	280	38	9-14	1.0	31	3250	59.0	35.9	18.5	250.80

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Table 3A. East Central Soybean Performance Test. Saunders County. Early Maturing Varieties. 1990. PAGE 2

Bramd	Variety	Yield bu/a	Maturity date	Lodging score	Height inches	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
FONTANELLE	4550	37	9-12	1.5	34	3770	58.0	36.4	17.6	242.35
WILSON BLEND	2580	37	9-12	1.0	27	3600	57.0	37.3	17.7	246.79
STINE	3000	37	9-13	1.3	34	3240	57.1	35.1	18.2	238.28
KAUP SEED	KS 3945	37	9-16	1.3	36	3570	58.2	33.9	18.0	230.14
TRI VALLEY	BRAT	36	9-10	1.3	32	3660	56.6	36.1	17.8	235.44
ATLAS S BRAND	A302	36	9-14	1.3	32	3630	57.1	35.4	18.2	233.28
PIONEER	9301	36	9-14	1.8	40	3940	58.2	35.3	18.7	235.44
NORTHRUP KING	S 25-15	36	9-11	1.8	34	3450	56.8	36.0	18.0	235.44
HYPERFORMER	311	36	9-12	1.5	36	3660	57.3	35.9	17.2	231.48
HY-VIGOR	HYLANDER-A	36	9-16	1.8	37	3880	57.0	36.2	17.8	235.80
DE SOY	303	35	9-13	1.8	36	3630	57.3	35.7	18.1	227.85
-----	BURLISON	35	9-15	1.5	33	3130	57.3	36.8	18.0	233.10
STAR	EXP9030	34	9-15	1.0	34	2960	58.3	36.2	17.8	222.70
-----	ZANE	34	9-15	1.0	38	3030	58.4	35.4	19.2	224.74
-----	U86-62062	34	9-16	2.0	32	3680	59.5	38.1	16.8	226.78
OHLDE	3000	34	9-16	1.8	38	3380	58.0	34.4	18.1	214.88
DAHLGREN	D-3272	34	9-14	1.8	37	3810	57.9	37.1	16.1	219.64
AGRIGENE	AG 228	33	9-13	2.0	35	4100	58.2	36.2	16.9	212.52
-----	PELLA 86	33	9-13	1.3	34	2920	58.6	35.7	18.1	215.49
HORIZON	53	33	9-17	1.3	35	3970	58.4	35.9	17.0	211.53
ASGROW	A2872	33	9-16	1.0	34	3770	56.8	36.6	17.6	217.14
TERRA	FINALIST	33	9-17	1.0	34	3860	58.2	36.3	17.5	215.49
CENEX/LAND O'LAKES	L3545	29	9-17	1.3	33	3790	58.0	37.1	17.0	190.53
Average all entries		38	9-13	1.4	34	3460	57.2	35.7	18.3	253.54
Dif. Req. for Sig.	5%	4	1.6	0.6	3	270	1.7	0.6	0.6	41.47
	25%	2	0.9	0.3	2	160	1.0	0.4	0.4	24.47

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN.

Table 3B. East Central Soybean Performance Tests. Early Maturing Varieties. 1986 - 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
					2 YEAR AVERAGE				
JACOBSEN	J824	48.3	9-22	2.3	3190	57	35.1	19.2	369.60
WILSON BLEND	2404	47.7	9-19	2.5	3350	57	33.6	19.4	337.60
MC CUBBIN	TAYLOR 88	47.7	9-21	2.1	3610	57	34.1	18.8	335.20
ATLAS	280	47.6	9-24	1.4	2990	59	34.9	19.2	369.40
-----	KENWOOD	47.5	9-18	2.1	3340	57	33.2	19.5	330.00
STINE	3000	47.2	9-23	1.9	2840	57	34.2	19.3	366.60
HYPERFORMER	270	46.9	9-22	1.8	3100	57	33.6	19.7	323.40
SOI	301	46.5	9-25	1.7	3050	57	34.0	18.8	330.60
HOEGEMEYER	237	45.9	9-19	1.7	2840	57	34.0	20.2	339.60
STINE	2770	45.8	9-21	2.1	3660	57	33.9	18.5	317.80
KAUP SEED	KS 2690	45.8	9-22	2.1	3080	56	34.5	19.7	334.40
HOEGEMEYER	205	45.5	9-24	1.9	3260	57	34.3	19.5	328.00
SOI	392	45.4	9-23	2.6	2610	57	34.5	19.6	339.20
TERRA	SPRINT	45.4	9-25	2.3	3090	58	35.0	19.3	321.20
TRI VALLEY	BRAT	44.7	9-18	1.8	3290	57	34.3	18.8	337.40
DIAMOND BRAND	D210	44.5	9-18	1.7	2880	57	33.3	20.3	303.00
SEXAUER	SX-2090	43.9	9-23	2.5	3480	59	34.9	19.3	320.20
HY-VIGOR	K-3903	43.6	9-18	2.3	3300	57	33.0	19.8	300.40
-----	CENTURY 8	43.4	9-20	1.7	2830	58	35.8	18.6	319.40
NORTHRUP KING	S 29-20	43.4	9-21	1.9	2880	55	32.6	19.8	293.20
OHLDE	3000	43.3	9-25	2.1	3010	58	32.6	19.0	316.00
-----	PELLA 86	42.3	9-24	1.7	2550	59	33.7	19.5	321.80
-----	BURLISON	41.7	9-22	1.8	2830	57	35.8	18.6	316.20
ASGROW	A2543	40.3	9-16	1.4	2900	57	35.9	18.7	281.20
CENEX/LAND O'LAK	L3545	39.4	9-29	1.8	3240	58	35.8	18.5	327.60
Average all entries		44.8	9-22	1.9	3090	57	34.2	19.3	327.00
Dif. Req.for Sig.	5%	NS	NS	0.2	164	0.8	0.9	0.5	NS
	25%	1.7	NS	0.1	95	0.5	0.5	0.3	NS
					3 YEAR AVERAGE				
JACOBSEN	J824	44.7	9-18	2.1	3350	52	34.6	19.6	306.20
WILSON BLEND	2404	44.1	9-13	2.3	3510	56	32.8	20.0	284.40
MC CUBBIN	TAYLOR 88	44.0	9-15	1.9	3750	57	33.4	19.3	281.80
HOEGEMEYER	237	44.0	9-14	1.6	2940	57	33.2	20.5	296.60
KAUP SEED	KS 2690	43.3	9-18	1.7	3390	57	34.3	19.8	292.60
HOEGEMEYER	205	43.0	9-18	1.8	3430	57	34.0	19.7	286.80
DIAMOND BRAND	D210	42.7	9-13	1.8	3040	57	32.9	20.4	275.20
STINE	2770	42.5	9-16	1.8	3740	57	33.5	19.1	272.40
TERRA	SPRINT	41.8	9-21	2.0	3390	58	34.6	19.5	273.00
SEXAUER	SX-2090	41.6	9-17	2.0	3630	59	34.1	19.7	277.40
-----	CENTURY 8	41.2	9-14	1.4	3110	57	34.6	19.3	275.80

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Table 3B. East Central Soybean Performance Tests. Early Maturing Varieties. 1986 - 1990. PAGE 2.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
HY-VIGOR	K-3903	40.6	9-14	1.9	3410	57	32.7	20.2	259.80
OHLDE	3000	40.6	9-19	1.9	3150	58	32.4	19.5	268.00
NORTHRUP KING	S 29-20	40.1	9-16	1.8	3060	56	32.6	20.1	254.00
-----	PELLA 86	40.0	9-19	1.4	2690	58	33.3	19.8	273.20
-----	BURLISON	39.5	9-18	1.5	2970	57	35.3	18.9	272.40
Average all entries		42.0	9-16	1.8	3290	57	33.6	19.7	278.80
Dif. Req.for Sig.	5%	NS	0.9	0.2	126	NS	0.7	0.4	NS
	25%	1.1	0.5	0.1	73	NS	0.4	0.2	12.70
4 YEAR AVERAGE									
JACOBSEN	J824	45.8	9-21	1.9	3280	52			
MC CUBBIN	TAYLOR 88	45.3	9-18	1.7	3620	57			
WILSON BLEND	2404	45.3	9-17	2.0	3420	56			
KAUP SEED	KS 2690	44.9	9-21	1.6	3270	57			
HOEGEMEYER	205	44.5	9-21	1.7	3340	57			
STINE	2770	44.4	9-19	1.6	3620	57			
HY-VIGOR	K-3903	43.0	9-17	1.7	3350	57			
OHLDE	3000	43.0	9-23	1.7	3070	58			
TERRA	SPRINT	43.0	9-23	1.8	3300	58			
SEXAUER	SX-2090	42.6	9-20	2.0	3530	59			
-----	PELLA 86	42.1	9-23	1.3	2670	58			
-----	CENTURY 8	42.0	9-18	1.3	3030	57			
Average all entries		43.8	9-20	1.7	3290	57			
Dif. Req.for Sig.	5%	NS	0.9	0.2	97	NS			
	25%	0.8	0.5	0.1	57	NS			
5 YEAR AVERAGE									
STINE	2770	50.6	9-20	1.8	3490	57			
HOEGEMEYER	205	48.9	9-24	2.0	3250	57			
HY-VIGOR	K-3903	48.6	9-19	2.0	3270	57			
-----	CENTURY 8	46.4	9-19	1.3	2930	57			
Average all entries		48.6	9-21	1.8	3230	57			
Dif. Req.for Sig.	5%	NS	1.0	NS	102	NS			
	25%	0.9	0.1	0.2	58	NS			

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF PROTEIN AND OIL

Table 4A. East Central Soybean Performance Test. Saunders County. Late Maturing Varieties. 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Height inches	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
KRUGER	K2562	44	9-13	1.8	36	2990	56.2	34.1	18.8	280.28
PIONEER	9303	43	9-15	1.0	34	3100	57.1	35.8	18.3	282.08
SANSGAARD SEED	S-3477	42	9-18	2.0	36	3760	57.4	35.4	17.9	270.06
TRI VALLEY	BLAZER 87	42	9-15	1.8	34	4360	55.8	35.8	17.6	271.74
STAR	EXP9032	40	9-13	1.0	34	3890	56.7	36.4	17.2	260.40
JACOBSEN	J972	39	9-18	1.5	36	3430	58.1	33.7	17.8	240.63
HILL SEED	EXP290	39	9-15	1.5	34	3450	57.3	35.0	17.4	246.87
GOLDEN HARVEST	H-1308	39	9-16	1.8	36	3380	57.8	33.8	17.8	241.41
CARGILL	C-325	39	9-17	1.8	35	3440	57.8	34.4	18.4	247.65
WILSON BLEND	3165	39	9-17	1.8	36	3490	57.3	33.7	17.9	241.41
HOEGEMEYER	368	38	9-18	1.8	37	3540	58.0	34.6	17.2	237.12
NORTHRUP KING	S 30-41	38	9-15	1.0	36	3690	57.3	35.4	17.1	240.54
FONTANELLE	5319	38	9-18	2.0	37	3560	57.8	33.9	17.8	235.60
SOI	394	38	9-18	1.8	37	3570	58.1	33.7	18.1	236.36
-----	HAMILTON	37	9-22	2.3	38	3650	57.6	35.2	18.2	239.02
MC CUBBIN	3130	37	9-17	1.0	32	3400	56.7	35.7	16.4	233.10
KRUGER	K3333	36	9-15	1.3	32	4050	56.8	36.1	16.8	231.12
DE SOY	307	36	9-12	1.0	35	3920	56.8	36.2	18.0	236.88
MC CUBBIN	MACON	36	9-22	1.5	36	4220	57.8	36.2	16.6	230.40
-----	FREMONT	36	9-15	1.8	36	3390	57.4	36.4	17.8	236.52
JACQUES	J-335	36	9-17	1.0	34	3490	56.8	35.0	17.8	229.32
-----	CHAPMAN	36	9-13	1.5	34	3150	57.4	36.5	18.2	238.68
-----	PELLA 86	36	9-15	1.5	37	3140	57.3	35.4	18.1	232.92
FONTANELLE	5529	36	9-20	2.0	41	4270	58.4	35.9	17.2	231.84
HYPERFORMER	HB90-321	36	9-20	1.3	37	3630	57.9	36.1	16.6	229.68
STINE	3170	36	9-24	1.8	38	3970	58.1	36.1	18.2	237.24
STINE	3020	36	9-19	1.0	33	3450	57.4	35.3	16.8	226.08
ATLAS S BRAND	A350	35	9-21	1.5	35	3860	58.6	36.7	16.1	224.70
SUPER CROST	SC291	35	9-15	1.8	36	4250	57.7	36.6	16.2	224.00
PIONEER	9341	35	9-21	1.0	35	4030	58.6	36.0	16.6	222.60
DE SOY	323	35	9-18	1.0	34	3930	58.6	36.2	16.5	223.65
-----	U85-74089	35	9-17	1.5	35	4190	59.3	36.5	17.5	229.25
NORTHRUP KING	S 36-36	35	9-23	1.5	35	3660	57.5	36.5	17.1	227.50
DIAMOND BRAND	D285	35	9-17	1.8	34	3640	58.0	35.5	17.2	222.95
KAUP SEED	EXP 88-9	35	9-19	1.0	37	3670	56.8	36.6	16.7	226.80
-----	HOBBIT 87	35	9-18	1.3	30	3820	57.7	34.6	18.1	222.25
-----	BURLISON	35	9-15	1.5	33	3260	57.5	36.8	16.7	227.85
ASGROW	A3322	34	9-22	1.3	34	3690	57.2	36.4	16.7	218.96
SOI	306	34	9-22	1.0	35	4030	58.1	36.2	16.3	215.90
TRI VALLEY	BOBCAT 90	34	9-13	1.0	33	3880	56.0	36.3	16.3	216.92
-----	EDISON	34	9-19	1.0	32	4200	58.2	35.7	16.2	213.18

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Table 4A. East Central Soybean Performance Test. Saunders County. Late Maturing Varieties. 1990. PAGE 2.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Height inches	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
MERSHMAN	KENNEDY III	34	9-22	1.5	35	4250	57.6	36.4	16.4	217.94
KAUP SEED	KS 3075	34	9-24	1.0	35	3810	57.9	35.3	16.9	214.54
HILL SEED	EXP340	34	9-20	1.0	35	4060	57.9	36.5	15.8	215.22
MIDWEST OILSEEDS	3220	34	9-14	1.3	35	4090	57.8	36.6	16.3	218.28
MIDWEST OILSEEDS	3980	34	9-22	1.3	35	3470	58.9	36.1	17.2	219.64
-----	CHAMBERLAI	33	9-20	1.5	41	3650	58.3	35.3	17.8	212.19
MERSHMAN	GARFIELD	33	9-22	1.0	38	4270	58.8	34.7	17.3	206.58
TERRA	CYCLE	33	9-22	1.3	38	3810	57.4	36.3	17.3	214.83
ATLAS S BRAND	S57A	33	9-18	1.3	35	4380	58.5	36.1	16.5	210.54
ASGROW	A3205	33	9-23	1.8	36	4220	59.7	36.3	15.3	205.92
ATLAS	370	33	9-21	1.0	35	3970	57.8	36.2	16.1	208.89
HYPERFORMER	360	33	9-19	1.5	35	4100	58.2	37.1	16.1	213.18
TERRA	VICTORY	32	9-24	1.3	40	3860	58.1	35.5	17.1	203.20
HOEGEMEYER	387	32	9-22	1.5	41	4390	58.5	35.2	16.8	200.64
-----	WINCHESTER	31	9-24	2.0	39	3390	58.9	36.4	16.8	200.26
DEKALB Plant Gen	CX326	30	9-16	1.3	34	4540	58.2	35.1	16.7	187.20
HORIZON	3788	30	9-23	1.3	37	3790	58.2	36.3	17.3	195.60
-----	RESNIK	30	9-17	1.3	33	4250	57.1	36.2	16.2	190.20
SEXAUER	SX-3050	29	9-21	1.3	34	4330	58.3	35.8	15.9	181.25
TRIUMPH SEED	387	29	9-23	1.5	42	4100	57.5	35.3	17.1	183.57
-----	KUNITZ	27	9-23	1.8	38	3510	58.7	37.5	16.6	177.39
-----	FLYER	27	9-24	1.3	35	4470	58.2	36.2	16.3	171.72
-----	WILLIAMS 82	25	9-24	1.8	39	3980	59.1	37.0	16.7	162.75
Average all entries		35	9-19	1.4	35	4080	57.8	35.7	17.0	223.65
Dif. Req. for Sig.	5%	4	3	0.6	4	360	1.1	0.9	1.0	38.37
	25%	2	2	0.4	2	210	0.6	0.5	0.6	22.64

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 4B. East Central Soybean Performance Tests. Late Maturing Varieties. 1986 - 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/bu
					2 YEAR AVERAGE				
HOEGEMEYER	368	47.2	9-22	2.4	3120	58	33.6	18.4	349.40
TRI VALLEY	BLAZER 87	46.8	9-18	2.6	3740	57	34.6	18.8	332.20
SOI	394	46.5	9-22	2.2	3170	58	32.5	18.9	333.40
JACOBSEN	J972	46.4	9-22	1.9	3130	58	33.0	18.8	335.80
FONTANELLE	5319	45.8	9-22	2.2	3100	58	32.3	18.8	318.60
ATLAS	370	45.3	9-25	1.7	3410	58	34.5	17.8	360.60
WILSON BLEND	3165	44.9	9-21	1.9	3160	57	33.5	18.8	322.40
GOLDEN HARVEST	H-1308	44.8	9-21	1.9	3040	58	33.2	18.8	320.20
SOI	306	44.6	9-26	1.8	3440	58	34.9	17.8	351.00
STINE	3020	43.6	9-23	1.8	3070	57	34.4	18.2	327.20
MERSHMAN	KENNEDY III	43.3	9-26	1.8	3550	58	34.5	17.6	323.00
ATLAS S BRAND	S57A	43.2	9-24	1.6	3730	59	35.2	18.3	351.80
JACQUES	J-335	43.2	9-21	1.5	3150	57	34.8	18.8	333.00
ASGROW	A3322	42.8	9-25	1.7	3190	57	34.3	18.0	319.80
-----	PELLA 86	42.5	9-20	1.8	2720	57	34.7	19.1	319.00
TERRA	CYCLE	42.4	9-25	2.2	3240	58	35.6	18.3	338.40
ASGROW	A3205	42.3	9-27	1.9	3580	59	35.5	17.2	338.60
-----	HOBBIT 87	41.9	9-20	1.7	3460	58	32.6	19.4	295.40
NORTHRUP KING	S 36-36	41.8	9-27	1.9	3140	58	36.2	18.0	323.20
-----	FREMONT	41.6	9-20	2.2	3100	58	34.9	19.0	300.40
HYPERFORMER	360	41.4	9-24	1.8	3380	58	33.3	18.5	296.80
KAUP SEED	KS 3075	41.4	9-27	2.0	3310	58	35.1	18.3	322.20
-----	CHAMBERLAIN	40.5	9-24	2.3	3090	58	35.1	18.7	312.20
-----	RESNIK	39.2	9-22	1.7	3630	57	34.7	17.8	306.00
DEKALB Plant Gen	CX326	39.0	9-22	1.7	3960	58	34.3	18.4	308.40
-----	WINCHESTER	38.8	9-27	2.4	2940	59	35.6	18.0	306.40
-----	FLYER	37.3	9-28	1.8	3760	58	35.2	17.8	306.80
-----	WILLIAMS 82	33.5	9-28	2.3	3340	59	35.9	18.1	272.80
Average all entries		42.6	9-23	1.9	3310	58	34.4	18.4	322.30
Dif. Req. for Sig.	5%	2.4	1.3	NS	188	0.5	NS	NS	NS
	25%	1.4	0.8	0.2	109	0.3	0.6	0.3	NS
					3 YEAR AVERAGE				
HOEGEMEYER	368	44.1	9-20	2.2	3210	58	33.0	19.1	293.00
JACOBSEN	J972	43.6	9-20	1.8	3220	58	32.6	19.2	285.20
TRI VALLEY	BLAZER 87	43.0	9-16	2.3	3730	57	33.5	19.5	276.20
GOLDEN HARVEST	H-1308	43.0	9-20	1.7	3130	58	32.7	19.5	283.60
STINE	3020	41.3	9-22	1.6	3140	57	34.2	18.7	281.20
ATLAS S BRAND	S57A	41.1	9-23	1.4	3720	58	34.2	19.0	293.20
ASGROW	A3205	40.5	9-25	1.6	3610	59	35.2	18.0	288.80
-----	HOBBIT 87	39.9	9-20	1.4	3420	58	32.2	20.0	260.00

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Table 4B. East Central Soybean Performance Tests. Late Maturing Varieties. 1986 - 1990. PAGE 2.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/bu
TERRA	CYCLE	39.8	9-24	1.8	3250	57	34.7	19.0	279.60
-----	PELLA 86	39.6	9-18	1.5	2830	57	34.1	19.4	266.80
-----	FREMONT	39.2	9-18	1.8	3250	58	34.3	19.5	261.40
-----	CHAMBERLAIN	38.4	9-22	2.0	3180	58	34.1	19.3	263.40
DEKALB Plant Gen	CX326	38.0	9-20	1.4	3980	58	33.4	19.2	266.40
-----	RESNIK	37.9	9-21	1.4	3690	57	34.5	18.5	267.80
-----	WINCHESTER	36.0	9-25	2.0	3060	59	34.9	18.6	250.80
-----	WILLIAMS 82	32.2	9-27	2.0	3290	59	35.2	18.8	232.40
Average all entries		39.8	9-21	1.7	3360	58	33.9	19.1	271.90
Dif. Req. for Sig.	5%	1.7	1.3	0.2	138	0.5	0.5	0.3	9.70
	25%	1.0	0.8	0.1	77	0.3	0.3	0.2	5.60
4 YEAR AVERAGE									
HOEGEMEYER	368	47.2	9-23	2.0	3090	58			
JACOBSEN	J972	46.4	9-23	1.6	3110	58			
TRI VALLEY	BLAZER 87	45.9	9-18	2.0	3590	57			
-----	HOBBIT 87	43.7	9-24	1.3	3260	58			
ASGROW	A3205	42.8	9-28	1.5	3460	59			
-----	PELLA 86	41.9	9-22	1.5	2730	57			
-----	FREMONT	41.7	9-21	1.6	3150	58			
-----	CHAMBERLAIN	41.5	9-25	2.0	3040	58			
-----	WINCHESTER	37.9	9-28	1.8	2960	59			
-----	WILLIAMS 82	34.7	9-30	2.0	3150	59			
Average all entries		42.4	9-24	1.7	3150	58			
Dif. Req. for Sig.	5%	1.4	1.3	0.2	112	0.4			
	25%	0.8	0.8	0.1	64	0.3			
5 YEAR AVERAGE									
-----	CHAMBERLAIN	46.7	9-27	2.1	2920	58			
-----	FREMONT	45.9	9-23	1.6	3050	58			
-----	WINCHESTER	42.5	9-30	1.9	2850	59			
-----	WILLIAMS 82	39.5	10- 2	2.1	3040	59			
Average all entries		43.7	9-28	1.9	2960	58			
Dif. Req. for Sig.	5%	1.2	1.0	NS	NS	NS			
	25%	0.7	0.6	0.1	60	0.2			

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF PROTEIN AND OIL

Table 5A. Southeast Soybean Performance Test. Nemaha County. Early Maturing Varieties. 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Height inches	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
PIONEER	9303	42.1	9-16	1.0	33	3230	57.1	36.8	18.6	283.75
-----	BURLISON	41.9	9-18	1.0	34	2840	57.2	38.0	17.7	284.08
HOEGEMEYER	205	41.7	9-13	1.5	37	3680	57.1	36.0	19.1	279.39
-----	U86-62062	41.4	9-20	1.0	28	3040	59.0	39.3	16.8	282.76
DE SOY	377	41.1	9-24	1.3	41	3440	58.2	35.8	19.4	274.96
PIONEER	9302	41.0	9-16	1.0	34	2850	56.0	35.9	18.5	271.01
TRI VALLEY	BUICK 91	41.0	9-24	1.3	40	3610	58.4	36.3	18.8	274.29
OHLDE	EX800	40.8	9-16	1.0	31	3170	58.8	36.4	18.0	269.69
ASGROW	A3322	40.6	9-24	1.0	33	3300	57.2	36.5	17.7	267.55
KAUP SEED	KS 3945	40.2	9-21	1.3	37	3200	57.8	35.1	17.7	256.88
SOI	394	40.1	9-19	1.5	38	3330	58.1	34.1	18.5	254.23
WILSON BLEND	3165	39.9	9-20	1.0	37	3280	57.7	34.2	18.5	253.37
HORIZON	53	39.7	9-23	1.0	35	3610	58.4	35.8	18.2	260.43
MERSHMAN	KENNEDY III	39.7	9-23	1.0	36	3710	57.7	36.3	17.7	260.43
OHLDE	3000	39.3	9-20	1.0	37	3220	57.8	34.5	18.4	251.13
ATLAS	370	39.3	9-23	1.0	36	3710	57.5	36.4	17.6	257.81
SEXAUER	SX-2090	39.2	9-16	1.0	42	3840	58.8	35.7	18.9	259.90
GOLDEN HARVEST	H-1308	39.2	9-17	1.5	37	3330	57.4	34.8	18.2	251.27
-----	HOBBIT 87	39.1	9-22	1.0	24	3530	57.8	34.8	19.1	254.93
MERSHMAN	GARFIELD	39.0	9-23	1.3	39	3820	58.5	34.9	17.8	248.43
KRUGER	K3534	39.0	9-20	1.0	36	4040	58.3	36.9	17.5	257.79
HOEGEMEYER	368	38.9	9-20	1.8	40	3250	58.0	34.6	18.6	250.13
ATLAS S BRAND	S57A	38.9	9-21	1.0	35	4130	58.4	35.7	18.8	257.13
-----	EDISON	38.8	9-22	1.0	35	3910	58.6	36.8	16.4	251.42
KRUGER	K3333	38.7	9-16	1.0	35	3990	57.0	36.6	17.6	255.42
MIDWEST OILSEEDS	3220	38.7	9-15	1.3	34	3810	58.2	37.2	17.2	256.58
TERRA	FINALIST	38.5	9-23	1.0	35	3330	58.0	36.2	17.6	251.79
TAYLOR	TSF330	38.3	9-21	1.0	37	3260	57.8	34.6	18.2	244.35
HILL SEED	EXP340	38.2	9-22	1.0	37	4030	58.0	36.3	17.3	249.45
FONTANELLE	5319	38.1	9-19	1.3	37	3330	57.9	34.2	18.4	241.94
NORTHRUP KING	S 29-20	37.9	9-12	1.0	37	3140	55.9	37.0	18.3	254.69
-----	PELLA 86	37.9	9-15	1.0	35	3030	57.3	35.6	18.9	250.90
TRI VALLEY	CHARGER 91	37.8	9- 9	1.0	33	2840	55.1	35.5	18.3	247.21
-----	ZANE	37.7	9-17	1.0	39	3160	57.3	36.3	19.2	253.72
STINE	3170	37.6	9-23	1.5	41	3500	58.2	36.3	18.6	250.79
MC CUBBIN	3590	37.5	9-20	1.3	38	3670	58.8	37.8	17.2	250.88
ATLAS S BRAND	A350	37.4	9-19	1.3	40	3660	58.4	37.6	16.9	248.34
HYPERFORMER	HB90-321	37.2	9-23	1.0	37	3440	58.3	36.9	17.7	246.64
DIAMOND BRAND	D285	37.0	9-18	1.0	33	3740	58.0	36.2	17.6	241.98
HILL SEED	EXP290	36.5	9-13	1.0	34	3600	57.8	36.2	18.0	239.81
MIDWEST OILSEEDS	3040	35.9	9-21	1.0	40	4740	58.2	34.6	18.1	228.32
ASGROW	A3205	35.7	9-23	1.0	35	3950	59.4	37.4	16.5	234.19
DE SOY	340	35.7	9-22	1.0	36	3990	60.5	37.5	15.7	231.69
MC CUBBIN	3180	34.9	9-13	1.0	34	3640	58.4	36.3	18.0	229.99
-----	CHAPMAN	34.8	9-13	1.0	34	2930	57.3	37.8	18.6	238.73
STINE	3940	34.8	9-17	1.0	36	4080	58.2	36.7	17.5	229.68
-----	U85-74089	34.7	9-18	1.0	35	3900	59.7	37.1	17.9	231.80
SUPER CROST	SC291	34.6	9-13	1.0	35	4060	58.0	37.3	17.4	230.44
LEWIS	326	34.4	9-22	1.0	33	3990	58.3	37.0	17.3	227.04
DEKALB Plant Gen	CX326	33.2	9-16	1.0	34	4290	58.0	36.4	17.2	216.46
SOI	398	32.8	9-21	1.0	35	4300	60.2	37.3	16.2	214.18
HYPERFORMER	311	29.5	9-11	1.0	38	4080	57.0	37.7	15.8	192.05
Average all entries		38.0	9-19	1.1	36	3590	58.0	36.3	17.9	255.41
Dif Req for Sig.	5%	3.9	3	0.3	2	320	0.6	0.7	1.0	40.00
	25%	2.3	2	0.2	1	190	0.4	0.4	0.6	23.60

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 5B. Southeast Soybean Performance Tests. Early Maturing Varieties. 1986 - 1990.

Brand	Variety		Yield bu/a	Mature date	Lodging score	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
					2 YEAR AVERAGE					
MERSHMAN	KENNEDY III		39.7	9-18	1.2	3140	57	36.0	18.4	263.20
GOLDEN HARVEST	H-1308		39.4	9-11	1.4	2800	57	34.2	18.9	253.00
KAUP SEED	KS 3945		38.9	9-15	1.2	2720	57	34.9	18.4	244.00
WILSON BLEND	3165		38.8	9-14	1.0	2790	57	33.5	19.3	237.60
OHLDE	3000		38.7	9-13	1.2	2830	58	34.6	18.8	247.60
MERSHMAN	GARFIELD		38.4	9-15	1.2	3300	58	34.5	18.6	243.00
STINE	3170		38.3	9-18	1.3	3080	58	36.5	18.7	262.40
HOEGEMEYER	368		38.0	9-15	1.4	2750	57	35.3	18.6	244.20
HOEGEMEYER	205		37.5	9- 9	1.3	3170	57	36.0	19.2	222.40
-----	ZANE		37.0	9-12	1.2	2620	57	35.8	19.4	240.00
ASGROW	A3322		36.9	9-18	1.0	2990	57	36.3	18.1	218.40
ASGROW	A3205		36.7	9-18	1.2	3360	58	37.2	17.4	252.60
-----	PELLA 86		35.4	9-12	1.0	2590	57	35.7	18.9	217.80
FONTANELLE	5319		35.4	9-13	1.2	2850	57	34.0	19.0	209.20
-----	HOBBIT 87		35.2	9-16	1.0	3190	58	34.1	19.6	201.00
NORTHRUP KING	S 29-20		35.0	9-11	1.0	2820	56	36.1	18.8	210.80
SOI	398		32.9	9-16	1.3	3590	59	36.0	17.7	213.80
DEKALB Plant Gen	CX326		32.6	9-13	1.0	3730	58	35.8	18.2	210.20
DIAMOND BRAND	D285		32.0	9-15	1.0	3430	58	36.1	18.1	178.40
Average all entries			36.7	9-14	1.1	3040	57	35.4	18.6	230.90
Dif. Req. for Sig.		5%	NS	2.2	NS	154	0.5	0.6	0.5	NS
		25%	1.5	1.3	NS	89	0.3	0.4	0.3	NS
					3 YEAR AVERAGE					
GOLDEN HARVEST	H-1308		35.6	9-11	1.5	3140	56	33.9	19.1	214.80
OHLDE	3000		35.1	9-12	1.4	3140	57	34.4	18.9	212.80
KAUP SEED	KS 3945		35.0	9-13	1.4	3100	57	34.6	18.6	207.80
HOEGEMEYER	368		34.7	9-13	1.5	3070	57	35.0	18.7	213.00
WILSON BLEND	3165		34.5	9-12	1.3	3070	57	33.6	19.2	201.40
ASGROW	A3205		34.1	9-17	1.4	3640	58	36.5	17.8	219.80
-----	ZANE		33.8	9-12	1.4	2730	56	35.1	19.5	208.60
-----	HOBBIT 87		31.9	9-14	1.0	3430	57	34.1	19.6	182.40
-----	PELLA 86		31.1	9-10	1.2	2850	56	35.4	19.1	182.20
NORTHRUP KING	S 29-20		30.2	9- 9	1.3	3280	56	35.6	19.0	173.00
DEKALB Plant Gen	CX326		30.0	9-12	1.3	4220	57	35.3	18.4	184.20
DIAMOND BRAND	D285		28.8	9-12	1.2	3750	57	36.0	18.3	162.80
Average all entries			32.9	9-12	1.3	3290	57	34.9	18.8	196.90
Dif. Req. for Sig.		5%	1.7	1.7	NS	163	0.3	0.5	0.3	16.38
		25%	1.0	1.0	0.1	94	0.2	0.3	0.2	9.66
					4 YEAR AVERAGE					
ASGROW	A3205		38.0	9-18	1.6	3610	58			
-----	ZANE		36.1	9-14	1.3	2720	56			
-----	HOBBIT 87		36.0	9-16	1.0	3450	57			
-----	PELLA 86		34.4	9-11	1.1	2830	56			
Average all entries			36.1	9-15	1.2	3150	57			
Dif. Req. for Sig.		5%	NS	1.3	NS	110	0.3			
		25%	NS	0.7	0.1	62	0.2			
					5 YEAR AVERAGE					
-----	ZANE		41.0	9-15	1.5	2650	56			
Average all entries			41.0	9-15	1.5	2650	56			
Dif. Req. for Sig.		5%	NS	NS	NS	NS	NS			
		25%	NS	NS	NS	NS	NS			

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF PROTEIN AND OIL

Table 6A. Southeast Soybean Performance Test. Nemaha County. Late Maturing Varieties. 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Height inches	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
-----	HAMILTON	46.6	9-26	1.5	37	2900	58.3	35.2	19.4	308.49
SOI	389	43.4	9-26	1.0	38	3100	57.2	35.9	18.6	287.31
MERSHMAN	WASHINGTON VI	43.0	9-26	1.0	40	3080	57.4	35.6	18.8	284.23
-----	U85-74089	42.9	9-23	1.0	36	3420	59.7	36.8	18.3	287.43
ATLAS S BRAND	S62+	42.7	9-25	1.0	35	3600	57.9	35.5	19.2	283.53
NORTHRUP KING	S 36-36	42.1	9-24	1.0	35	3300	57.4	36.4	17.7	277.02
KRUGER	K3939	41.8	9-26	1.0	40	3660	57.7	35.5	18.0	271.70
DIAMOND BRAND	D300	41.7	9-23	1.3	35	3300	58.4	36.5	18.4	278.14
HYPERFORMER	360	41.2	9-25	1.0	37	3250	58.1	36.2	18.8	274.80
STINE	3790	40.9	9-26	1.0	36	3170	57.1	35.3	19.0	269.94
MIDWEST OILSEED	3980	40.9	9-24	1.0	36	3060	58.8	36.1	18.3	269.53
PIONEER	9341	40.9	9-22	1.0	34	3580	59.1	35.8	18.2	268.30
DE SOY	397	40.1	9-26	1.0	38	3010	57.5	36.2	18.4	265.86
HYPERFORMER	388	40.1	9-24	1.0	39	3610	58.6	35.7	18.4	263.06
STAR	EXP9034	40.0	9-22	1.0	34	3590	59.3	36.1	18.5	265.20
SOI	EXP386	39.7	9-20	1.0	36	3600	58.8	38.4	16.8	266.78
MERSHMAN	TRUMAN III	39.5	9-23	1.0	37	3290	59.0	36.2	18.3	261.49
-----	HOBBIT 87	39.4	9-23	1.0	23	3240	58.5	34.7	18.8	254.52
TRI VALLEY	CHARGER 90	39.3	9-22	1.8	36	3540	58.7	37.1	17.6	261.74
MC CUBBIN	MACON	39.2	9-23	1.0	34	3480	58.0	36.5	17.5	257.15
HOEGEMEYER	383	39.2	9-26	1.0	33	3640	58.4	35.7	18.2	256.76
-----	CHAMBERLAIN	39.1	9-21	1.3	42	3280	59.5	36.0	18.3	257.67
-----	PELLA 86	39.1	9-17	1.0	36	2650	57.5	36.2	18.4	259.23
STAR	EXP9039	39.0	9-24	1.5	40	3680	58.2	35.8	19.4	261.30
DE SOY	383cn	38.9	9-22	1.0	36	3510	57.8	36.0	18.2	255.96
KRUGER	K3737	38.9	9-24	1.0	42	3690	58.4	35.3	18.2	252.46
FONTANELLE	5808	38.8	9-24	1.0	36	3280	58.1	36.5	18.0	256.86
-----	BURLISON	38.4	9-17	1.0	33	2950	57.7	38.1	17.0	257.66
GOLDEN HARVEST	H-1355	38.1	9-24	1.3	42	3690	58.5	36.2	17.4	248.41
TRIUMPH SEED	387	38.1	9-25	1.0	43	3520	58.2	35.3	18.5	248.79
DIAMOND BRAND	D301	37.9	9-24	1.3	42	3820	58.3	35.4	18.7	249.00
ATLAS S BRAND	S67	37.8	9-25	1.0	36	3300	57.5	35.4	19.0	249.48
OHLDE	3650	37.5	9-25	1.0	35	3290	58.3	36.3	17.9	246.75
FONTANELLE	5889	37.5	9-25	1.3	41	3670	58.2	35.6	18.1	244.50
NORTHRUP KING	S 42-30	37.5	9-27	1.0	36	3570	57.8	37.6	17.8	252.38
HORIZON	3788	37.4	9-25	1.0	37	3280	57.6	36.0	18.5	247.59
HOEGEMEYER	387	37.4	9-26	1.0	41	3760	58.0	35.1	18.7	243.47
WILSON BLEND	3490	37.3	9-25	1.0	42	3450	58.4	35.5	18.5	244.32
SUPER CROST	D305	37.2	9-25	1.0	39	3170	57.6	36.0	18.4	245.89
PIONEER	9391	37.2	9-27	1.3	40	3670	58.0	35.3	18.5	242.54
TERRA	TRIUMPH	37.1	9-21	1.3	39	3740	58.0	36.7	17.6	244.86
ATLAS	455	37.1	9-27	1.3	42	3680	58.1	35.1	19.1	244.12
MC CUBBIN	4050	37.0	9-26	1.0	39	3550	57.9	36.4	18.0	244.20
TRI VALLEY	CATALINA	37.0	9-26	1.0	38	3330	56.2	35.5	18.8	243.46
-----	CHAPMAN	36.5	9-14	1.0	33	2810	57.0	38.0	17.5	246.38
KAUP SEED	EXP 88-9	36.4	9-21	1.0	39	3600	58.7	36.4	17.7	239.15
TERRA	CYCLE	36.3	9-24	1.0	36	3410	58.0	36.1	18.4	240.67
-----	KUNITZ	36.3	9-24	1.3	41	3030	59.1	36.7	18.3	242.12
WILSON BLEND	3300	36.1	9-23	1.0	34	3470	58.2	36.8	17.8	239.34
-----	FLYER	35.8	9-26	1.0	36	3840	58.2	36.2	17.8	235.21
SEXAUER	SX-3050	35.7	9-23	1.0	32	3760	60.1	36.3	17.2	232.41
-----	EDISON	35.5	9-23	1.0	32	3840	58.4	36.2	17.2	230.40
-----	WINCHESTER	35.1	9-23	1.0	38	3000	58.7	37.3	17.2	232.36
ASGROW	A3733	35.0	9-27	1.0	31	3230	57.3	36.0	18.5	232.05
STINE	3075	35.0	9-24	1.0	36	3400	57.7	36.7	17.2	229.95
-----	RESNIK	34.9	9-23	1.0	33	3520	57.9	37.2	17.2	231.04
OHLDE	EX820K	34.7	9-23	1.3	40	3130	59.6	37.1	17.6	230.76
JACQUES	J-357	34.6	9-23	1.0	33	4220	58.1	36.2	18.1	228.36
ASGROW	A3935	34.4	9-27	1.3	37	3880	57.5	35.1	18.7	223.94
JACQUES	J-396	33.8	9-26	1.3	38	3400	58.0	35.6	18.3	221.05
DEKALB Plant Gen	CX366	33.7	9-24	1.0	38	3600	58.2	35.7	17.5	217.37
-----	WILLIAMS 82	33.2	9-25	1.0	43	3330	58.9	36.6	17.9	220.12
-----	RIPLEY	32.9	9-26	1.0	32	4510	60.0	34.8	18.1	210.23
Average all entries		38.1	9-24	1.1	37	3440	58.2	36.1	18.2	251.08
Dif. Req. for Sig.	5%	2.1	2	0.3	3	380	1.2	1.3	1.1	NS
	25%	3.0	1	0.2	2	210	0.7	0.7	0.7	31.11

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 6B. Southeast Soybean Performance Tests. Late Maturing Varieties. 1986 - 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
					2 YEAR AVERAGE				
STINE	3790	39.5	9-19	1.0	2840	57	35.0	19.2	248.00
MERSHMAN	TRUMAN III	38.7	9-15	1.0	2830	58	35.5	18.6	245.80
SOI	389	38.6	9-19	1.3	2850	57	35.3	19.0	220.00
MERSHMAN	WASHINGTON VI	38.4	9-19	1.0	2800	57	35.7	18.8	222.00
TERRA	TRIUMPH	37.9	9-14	1.4	3030	57	35.9	18.5	254.20
NORTHRUP KING	S 36-36	37.7	9-18	1.0	2890	57	36.7	18.3	224.20
-----	HAMILTON	37.5	9-17	1.4	2780	58	35.0	19.4	185.60
WILSON BLEND	3490	37.0	9-19	1.3	3110	58	35.1	18.8	236.80
HOEGEMEYER	383	36.7	9-18	1.0	3210	58	35.6	18.7	225.00
-----	U85-74089	36.5	9-14	1.0	3080	59	36.0	18.7	197.40
ATLAS S BRAND	S67	36.4	9-19	1.0	2880	58	35.1	19.2	229.20
TRI VALLEY	CHARGER 90	36.1	9-15	1.6	3070	58	36.3	18.2	215.40
DIAMOND BRAND	D300	36.0	9-15	1.4	3040	58	36.1	18.7	200.20
ASGROW	A3935	35.8	9-20	1.6	3260	58	34.7	19.0	239.60
HYPERFORMER	360	35.8	9-16	1.2	2880	58	35.7	19.1	200.60
FONTANELLE	5808	35.7	9-15	1.0	2850	58	35.8	18.6	212.80
-----	PELLA 86	35.5	9-12	1.0	2660	58	35.5	19.0	208.60
FONTANELLE	5889	35.3	9-19	1.3	3220	58	35.3	18.5	215.80
JACQUES	J-357	35.2	9-15	1.0	3490	58	36.1	18.7	238.80
TRI VALLEY	CATALINA	35.1	9-19	1.3	2910	56	35.0	19.1	215.20
NORTHRUP KING	S 42-30	35.1	9-20	1.2	3220	57	37.3	18.2	219.00
DIAMOND BRAND	D301	34.9	9-18	1.2	3280	58	36.0	18.5	211.20
TERRA	CYCLE	34.8	9-16	1.0	3060	58	35.8	18.9	220.20
WILSON BLEND	3300	33.7	9-17	1.0	3130	58	35.7	18.8	205.40
ASGROW	A3733	33.4	9-19	1.0	2910	57	35.7	18.9	209.80
-----	WINCHESTER	32.7	9-15	1.2	2740	58	36.7	18.0	200.80
DEKALB Plant Gen	CX366	32.6	9-17	1.0	3200	58	34.6	18.7	201.60
-----	RIPLEY	32.2	9-18	1.2	3650	59	34.2	18.8	200.40
-----	WILLIAMS 82	31.8	9-18	1.2	3010	59	35.9	18.6	200.00
Average all entries		35.7	9-17	1.1	3030	58	35.6	18.7	217.40
Dif. Req. for Sig.	5%	NS	1.5	0.2	NS	0.5	0.5	NS	NS
	25%	NS	0.9	0.1	144	0.3	0.3	NS	NS
					3 YEAR AVERAGE				
STINE	3790	35.2	9-18	1.3	3130	57	35.0	19.3	211.60
SOI	389	35.1	9-19	1.3	3180	57	35.4	19.0	203.40
TERRA	TRIUMPH	34.4	9-14	1.9	3440	57	35.4	18.8	216.40
MERSHMAN	WASHINGTON VI	34.0	9-19	1.3	3130	57	35.7	18.9	195.20
NORTHRUP KING	S 36-36	34.0	9-18	1.3	3220	57	36.1	18.6	199.60
TRI VALLEY	CHARGER 90	33.6	9-14	1.7	3270	58	36.0	18.5	202.20
DIAMOND BRAND	D300	33.6	9-13	1.6	3380	57	36.3	18.7	197.00
WILSON BLEND	3490	33.5	9-18	1.4	3380	57	34.6	19.2	204.20
ATLAS S BRAND	S67	33.4	9-19	1.2	3210	57	35.4	19.1	206.00
TRI VALLEY	CATALINA	33.1	9-19	1.4	3160	56	34.9	19.2	203.40

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Table 6B. Southeast Soybean Performance Tests. Late Maturing Varieties. 1986 - 1990. PAGE 2.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
TERRA	CYCLE	32.7	9-17	1.2	3350	57	34.9	19.3	201.20
NORTHRUP KING	S 42-30	32.0	9-20	1.1	3380	57	36.8	18.5	195.60
DIAMOND BRAND	D301	31.7	9-17	1.4	3530	57	35.7	18.8	189.40
ASGROW	A3733	31.4	9-20	1.1	3110	57	35.9	18.9	196.60
-----	PELLA 86	31.0	9-11	1.3	3000	57	35.3	19.2	176.60
DEKALB Plant Gen	CX366	30.8	9-16	1.3	3470	57	34.7	18.9	190.60
-----	RIPLEY	29.7	9-19	1.1	3960	59	34.5	19.0	182.00
-----	WINCHESTER	29.2	9-15	1.3	2940	58	36.7	18.2	175.20
-----	WILLIAMS 82	29.0	9-19	1.4	3260	58	35.8	18.8	177.20
Average all entries		32.5	9-17	1.3	3290	57	35.5	18.9	195.95
Dif. Req. for Sig.	5%	1.8	1.5	0.2	175	0.4	0.6	NS	NS
	25%	1.1	0.9	0.1	102	0.2	0.3	0.2	6.20

4 YEAR AVERAGE

STINE	3790	37.7	9-20	1.5	3110	57
MERSHMAN	WASHINGTON VI	37.1	9-21	1.4	3130	57
TRI VALLEY	CATALINA	36.8	9-21	1.6	3160	56
ATLAS S BRAND	S67	36.6	9-21	1.4	3180	57
ASGROW	A3733	35.0	9-22	1.3	3150	57
DIAMOND BRAND	D301	34.7	9-19	1.6	3490	57
NORTHRUP KING	S 42-30	34.4	9-21	1.1	3410	57
-----	PELLA 86	33.2	9-11	1.3	2970	57
-----	RIPLEY	33.1	9-21	1.1	3900	59
-----	WINCHESTER	32.2	9-18	1.4	2910	58
-----	WILLIAMS 82	32.1	9-21	1.6	3230	58
Average all entries		34.8	9-19	1.4	3240	57
Dif. Req. for Sig.	5%	1.3	1.4	NS	145	0.4
	25%	0.8	0.8	0.1	84	0.2

5 YEAR AVERAGE

STINE	3790	43.5	9-23	1.7	3010	57
ATLAS S BRAND	S67	42.5	9-22	1.6	3070	57
MERSHMAN	WASHINGTON VI	42.2	9-20	1.8	3080	57
NORTHRUP KING	S 42-30	41.2	9-22	1.2	3280	57
ASGROW	A3733	40.8	9-24	1.4	3030	57
-----	RIPLEY	38.0	9-23	1.1	3780	59
-----	WINCHESTER	38.0	9-20	1.7	2830	58
-----	WILLIAMS 82	37.8	9-23	1.9	3110	58
Average all entries		40.5	9-22	1.5	3150	58
Dif. Req. for Sig.	5%	1.3	NS	0.2	116	0.3
	25%	0.7	1.0	0.1	67	0.2

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 7A. South Central Irrigated Soybean Performance Tests. Clay and Thayer Counties. Early Maturing Varieties. 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Height inches	Seeds/ pound	Protein %	Oil %	EPV $/a
JACOBSEN	J897	62.1	9-28	1.0	33	2450	35.1	19.5	409.5
NORTHRUP KING	S 29-20	62.0	9-27	1.3	34	2260	36.5	18.5	433.8
HYPERFORMER	311	61.4	9-25	1.3	34	2600	35.8	18.4	398.4
TERRA	SPRINT	61.4	9-25	1.3	32	2610	36.3	19.2	435.3
GOLDEN HARVEST	H-1285	61.3	9-26	1.5	33	2520	36.1	19.0	417.5
SOI	268	61.0	9-22	1.5	32	2740	35.7	19.1	395.7
MC CUBBIN	TAHOE	60.6	9-26	1.1	29	2110	35.5	19.2	417.3
STINE	3000	60.4	9-25	1.2	32	2290	35.8	18.6	388.1
MIDWEST OILSEEDS	EX2290	59.8	9-26	1.2	33	2740	35.8	18.8	408.3
HOEGEMEYER	205	59.7	9-26	1.5	32	2640	36.1	19.0	388.5
-----	CHAPMAN	59.3	9-24	1.2	32	2120	36.0	19.4	389.7
HYPERFORMER	270	59.2	9-26	1.6	33	2550	36.0	18.9	399.8
-----	KENWOOD	59.1	9-26	1.5	33	2610	35.8	19.0	396.3
HOEGEMEYER	237	59.0	9-22	1.2	32	2450	35.9	19.1	376.7
TERRA	MEDALIST	58.9	9-22	1.3	32	2880	35.9	18.8	401.9
MIDWEST OILSEEDS	3220	58.7	9-24	1.3	34	2890	36.1	18.7	385.5
MERSHMAN	MOHAWK	58.6	9-27	1.1	30	2560	36.3	18.4	399.0
OHLDE	EX929	58.5	9-24	1.1	32	2780	36.1	18.7	396.1
FUNK'S G BRAND	3232	58.4	9-24	1.5	34	2720	36.3	18.5	405.8
FONTANELLE	ROYAL II	57.9	9-26	1.3	31	2550	36.0	19.2	405.6
SUPER CROST	SC291	57.7	9-24	1.5	33	2820	36.3	18.6	359.7
GOLDEN HARVEST	H-1277	57.6	9-22	1.3	32	2900	35.9	18.6	366.0
OHLDE	3000	57.4	9-26	1.5	35	2440	35.1	18.5	372.7
FONTANELLE	4550	57.2	9-22	1.2	32	2800	36.0	18.9	392.4
ARROW SEED	AS2090	57.0	9-27	1.3	33	2510	35.4	19.6	383.6
HORIZON	53	56.8	9-28	1.3	34	2790	36.6	18.2	396.9
TRI VALLEY	CAPRI	56.7	9-26	1.8	32	2850	36.8	18.1	417.1
-----	U85-74089	56.4	9-26	1.3	34	3010	36.3	18.4	373.7
SOI	EXP386	56.4	9-25	1.6	33	2750	37.3	17.8	382.5
-----	ZANE	56.0	9-26	1.4	35	2310	36.0	19.2	371.6
TRI VALLEY	BUICK 91	55.9	9-29	1.6	35	2800	36.0	19.1	364.9
DIAMOND BRAND	D285	55.8	9-27	1.2	31	2640	36.8	18.2	347.0
-----	EDISON	55.6	9-27	1.1	32	3020	36.2	18.4	367.5
-----	HACK	55.6	9-26	1.0	30	2370	35.6	18.7	357.9
HORIZON	2600	55.5	9-23	1.2	31	2790	36.1	18.8	394.5
MC CUBBIN	TAYLOR	55.2	9-26	1.3	31	2610	36.1	19.3	397.0
OHLDE	EX800	55.1	9-21	1.2	30	2520	36.2	18.5	363.1
DIAMOND BRAND	D301	55.1	9-29	1.7	37	2880	36.1	19.1	362.2
ARROW SEED	AS2845	54.5	9-26	1.4	35	2410	35.1	18.5	369.4
ATLAS	280	54.3	9-22	1.2	30	2490	36.4	18.8	366.4
ATLAS S BRAND	S270	54.1	9-24	1.0	29	2290	36.4	18.7	376.0
ATLAS S BRAND	S46J	54.1	9-25	1.0	30	2670	36.8	18.4	379.9
DAHLGREN	D-3272	54.1	9-26	1.5	34	2770	36.6	17.9	354.1
DIAMOND BRAND	D305	54.0	9-29	1.5	37	2670	36.2	18.5	380.6
TRI VALLEY	CHARGER 91	54.0	9-28	1.0	31	2070	35.6	18.6	359.5
-----	PELLA 86	53.9	9-25	1.3	35	2300	36.0	18.7	345.1
DAHLGREN	D-3330	53.6	9-27	1.5	37	2950	36.2	18.8	357.8
WILSON BLEND	3165	53.6	9-26	1.3	34	2500	35.1	18.8	354.3
DEKALB Plant Gen	CX326	53.0	9-24	1.4	34	3040	35.6	18.9	343.8
NORTHRUP KING	S 25-15	52.5	9-21	1.4	31	2510	37.0	18.5	338.5
MERSHMAN	CHICKASAW II	50.8	9-24	1.1	29	2390	35.5	19.7	366.5
-----	CENTURY 84	50.4	9-26	1.2	34	2400	37.9	17.5	346.9
-----	BURLISON	50.4	9-27	1.1	31	2350	37.6	17.6	341.3
-----	U86-62062	46.9	9-27	1.3	25	2470	37.9	18.2	317.6
Average all entries		56.5	9-25	1.3	32	2570	36.2	18.7	379.7
Dif. Req. for Sig.	5%	NS	1.5	NS	2.0	120	0.5	0.4	NS
	25%	3.4	0.9	0.3	1.2	71	0.3	0.3	NS

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 7B. South Central Irrigated Soybean Performance Tests. Early Maturing Varieties. 1986 - 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Protein %	Oil %	EPV $/a
				2 YEAR AVERAGE				
SOI	268	59.9	9-21	1.5	2790	35.5	19.1	387.40
NORTHRUP KING	S 29-20	59.5	9-25	1.3	2300	35.9	18.8	375.60
GOLDEN HARVEST	H-1285	59.5	9-24	1.4	2540	35.8	19.3	383.00
MERSHMAN	MOHAWK	59.3	9-25	1.0	2480	36.1	18.4	394.80
TERRA	SPRINT	59.1	9-24	1.3	2540	35.6	19.2	372.60
STINE	3000	58.7	9-24	1.1	2310	35.1	19.1	371.00
GOLDEN HARVEST	H-1277	58.7	9-22	1.2	2850	35.3	19.1	391.00
OHLDE	3000	58.6	9-26	1.5	2410	34.5	19.0	384.00
MC CUBBIN	TAHOE	58.3	9-24	1.1	2080	34.9	19.4	364.60
HYPERFORMER	270	57.9	9-24	1.6	2600	35.7	19.0	374.20
SOI	EXP386	57.6	9-25	1.5	2660	36.5	18.2	387.40
TERRA	MEDALIST	57.5	9-22	1.3	2890	35.1	19.1	362.40
MC CUBBIN	TAYLOR	57.2	9-24	1.4	2560	35.6	19.2	388.20
TRI VALLEY	CAPRI	57.0	9-27	1.9	2800	36.1	18.4	374.80
FUNK'S G BRAND	3232	56.9	9-23	1.6	2690	35.7	18.9	362.40
WILSON BLEND	3165	56.8	9-26	1.4	2480	34.3	19.1	379.80
HOEGEMEYER	237	56.6	9-21	1.3	2380	35.0	19.4	352.40
HOEGEMEYER	205	56.4	9-25	1.4	2600	35.4	19.2	347.20
ARROW SEED	AS2845	55.7	9-26	1.4	2410	34.0	19.1	385.00
DIAMOND BRAND	D285	55.5	9-26	1.4	2710	36.2	18.5	363.80
-----	HACK	55.4	9-23	1.0	2390	35.2	19.0	361.60
-----	PELLA 86	54.6	9-25	1.3	2220	35.3	19.0	360.00
-----	BURLISON	53.3	9-26	1.1	2320	37.5	17.9	377.60
-----	CENTURY 84	52.0	9-25	1.2	2390	37.6	17.9	360.80
DEKALB Plant Gen	CX326	52.0	9-25	1.5	3070	35.3	19.1	334.60
Average all entries		56.9	9-24	1.3	2540	35.6	18.9	371.80
Dif. Req. for Sig.	5%	NS	1.3	0.1	65	0.3	0.2	NS
	25%	NS	0.8	0.1	38	0.2	0.1	NS
				3 YEAR AVERAGE				
OHLDE	3000	58.2	9-24	1.4	2410	34.1	19.3	375.60
GOLDEN HARVEST	H-1285	58.2	9-23	1.4	2540	35.4	19.4	373.60
SOI	268	57.6	9-20	1.6	2790	34.9	19.4	364.40
TERRA	SPRINT	57.5	9-24	1.4	2540	35.3	19.3	363.80
MERSHMAN	MOHAWK	57.2	9-25	1.1	2480	35.8	18.6	372.00
TRI VALLEY	CAPRI	57.0	9-26	1.9	2800	35.9	18.6	375.80
GOLDEN HARVEST	H-1277	57.0	9-21	1.4	2850	34.8	19.3	368.20

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Table 7B. South Central Irrigated Soybean Performance Tests. Early Maturing Varieties. 1986 - 1990. PAGE 2.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Seeds/ pound	Protein %	Oil %	EPV $/a
WILSON BLEND	3165	56.6	9-24	1.4	2480	34.0	19.3	369.80
NORTHRUP KING	S 29-20	56.1	9-24	1.3	2300	35.2	19.1	346.80
HOEGEMEYER	205	56.0	9-24	1.4	2600	35.1	19.4	355.20
MC CUBBIN	TAYLOR	55.8	9-23	1.5	2560	35.1	19.4	366.40
TERRA	MEDALIST	55.7	9-21	1.4	2890	34.5	19.5	348.40
-----	HACK	54.5	9-22	1.0	2390	34.8	19.3	351.00
-----	PELLA 86	52.8	9-24	1.4	2220	34.9	19.3	340.40
-----	BURLISON	52.1	9-24	1.2	2320	36.9	18.2	353.00
-----	CENTURY 84	50.0	9-22	1.2	2390	37.0	18.3	332.60
Average all entries		55.8	9-23	1.4	2530	35.2	19.1	359.80
Dif. Req. for Sig.	5%	2.0	1.0	0.1	48	0.3	0.2	NS
	25%	1.2	0.6	0.1	27	0.2	0.1	7.10
4 YEAR AVERAGE								
OHLDE	3000	58.4	9-23	1.4	2530			
GOLDEN HARVEST	H-1285	57.0	9-22	1.5	2630			
SOI	268	56.6	9-19	1.7	2910			
GOLDEN HARVEST	H-1277	55.0	9-19	1.4	2950			
TERRA	SPRINT	55.0	9-22	1.4	2680			
NORTHRUP KING	S 29-20	54.6	9-22	1.4	2420			
-----	HACK	52.9	9-19	1.1	2510			
-----	PELLA 86	51.9	9-23	1.4	2320			
-----	CENTURY 84	47.9	9-21	1.2	2580			
Average all entries		54.4	9-21	1.4	2620			
Dif. Req. for Sig.	5%	1.7	1.1	0.1	50			
	25%	1.0	0.6	0.1	28			
5 YEAR AVERAGE								
SOI	268	59.0	9-18	1.8	2970			
-----	HACK	55.3	9-19	1.1	2500			
-----	CENTURY 84	50.4	9-20	1.3	2590			
GOLDEN HARVEST	H-1285	58.8	9-22	1.6	2680			
Average all entries		55.9	9-20	1.4	2690			
Dif. Req. for Sig.	5%	1.1	1.3	0.1	57			
	25%	0.6	0.8	0.1	32			

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF PROTEIN AND OIL

Table 8A. South Central Irrigated Soybean Performance Tests. Clay and Thayer Counties. Late Maturing Varieties. 1990.

Brand	Variety	Yield bu/a	Mature date	Lodging score	Height inches	Seeds/ pound	Protein %	Oil %	EPV $/a
STAR1	BUCHANNAN	66.7	10- 2	1.5	34	2590	35.7	18.6	439.75
ATLAS	370	63.4	10- 1	1.4	33	2710	35.7	18.8	409.58
HYPERFORMER	HB90-321	63.3	9-30	1.5	37	2340	36.2	18.4	419.83
TERRA	FINALIST	62.0	9-29	1.4	34	2780	36.3	18.3	397.83
AMERICANA	CHAMPION	61.9	9-30	1.0	34	2830	34.8	19.4	417.52
-----	HAMILTON	61.7	10- 2	1.9	38	2470	36.2	18.5	394.94
ATLAS S BRAND	A302	61.4	9-27	1.3	33	2300	35.2	19.0	373.52
STAR	EXP9039	60.5	10- 1	1.7	38	2760	35.9	18.8	408.60
MC CUBBIN	3789	60.4	9-30	1.8	40	2730	35.7	18.9	383.99
GOLDEN HARVEST	H-1308	60.3	9-27	1.3	35	2340	35.1	18.8	388.21
MC CUBBIN	3590	60.2	9-27	1.6	34	2770	36.6	18.3	405.20
NORTHRUP KING	S 36-36	60.2	9-29	1.6	35	2440	36.9	18.3	405.15
ASGROW	A3935	60.1	10- 2	1.8	37	2840	36.2	19.0	406.99
TRI VALLEY	CAMRY	59.9	9-26	1.2	34	2880	35.5	18.9	380.29
TERRA	TRIUMPH	59.9	9-29	1.6	38	2710	35.9	18.6	405.21
HYPERFORMER	388	59.9	10- 1	1.8	38	2670	35.0	18.6	395.86
STINE	3170	59.7	9-30	1.6	36	2750	35.8	19.1	421.93
-----	FREMONT	59.7	9-26	1.2	37	2430	35.6	19.3	390.25
MERSHMAN	KENNEDY III	59.4	9-30	1.2	34	2850	36.2	18.2	394.34
HOEGEMEYER	387	59.2	9-30	1.7	41	2890	35.9	18.6	393.49
-----	EDISON	59.0	9-28	1.1	35	2970	35.9	18.3	396.58
-----	CHAPMAN	59.0	9-24	1.4	35	2150	36.1	19.3	393.41
TRI VALLEY	CELICA	58.8	9-28	1.2	32	2510	35.6	18.3	401.94
STAR1	EXPRESS	58.7	9-30	1.6	37	2770	36.1	18.6	390.51
-----	HOBBIT 87	58.7	9-30	1.2	25	2510	35.4	19.1	399.01
-----	FLYER	58.6	9-30	1.3	37	2820	36.7	18.0	387.99
FONTANELLE	5319	58.6	9-27	1.6	37	2540	35.1	18.7	407.01
TERRA	VICTORY	58.5	9-30	1.5	39	2820	35.9	19.0	392.57
CARGILL	C-345	58.4	9-29	1.5	36	2730	36.4	18.3	386.84
ASGROW	A3322	58.3	9-28	1.2	32	2690	36.5	18.2	387.11
HOEGEMEYER	368	57.9	9-28	1.4	38	2530	34.9	18.6	378.00
STINE	3940	57.3	9-27	1.4	35	2970	36.0	18.9	379.63
ATLAS S BRAND	S57A	57.1	9-27	1.2	36	3050	36.1	18.8	386.51
MIDWEST OILSEEDS	3040	57.0	9-29	1.3	38	3000	35.5	18.2	376.29
-----	BURLISON	57.0	9-27	1.1	31	2370	37.5	17.7	390.58
-----	U85-74089	57.0	9-27	1.7	37	2940	36.4	18.4	385.80
FONTANELLE	5889	57.0	10- 1	1.6	40	2880	35.6	18.5	381.12
-----	PELLA 86	57.0	9-27	1.4	38	2100	36.1	18.8	393.45
MERSHMAN	WASHINGTON VI	56.9	9-30	1.4	39	2600	36.1	18.7	392.29
TRIUMPH SEED	387	56.8	10- 1	1.5	44	3020	36.2	18.6	385.12
-----	RESNIK	56.7	9-27	1.3	34	2790	36.4	18.4	379.92
DEKALB Plant Gen	CX366	56.1	9-30	1.6	38	2660	35.7	18.8	366.79
HORIZON	3788	55.9	10- 1	1.2	38	2710	35.9	18.9	385.75
JACOBSEN	J972	55.7	9-27	1.3	37	2420	34.6	19.0	368.00
ASGROW	A3733	55.7	10- 2	1.2	33	2660	36.5	18.7	384.81
HYPERFORMER	360	55.1	9-28	1.5	38	2670	36.3	18.3	372.71
TRI VALLEY	CUTLASS 91	54.1	9-27	1.1	32	2010	35.3	18.7	350.06
-----	WINCHESTER	54.0	10- 1	1.7	39	2420	36.2	18.6	370.29
FUNK'S G BRAND	3344	53.7	9-27	1.2	36	3000	36.2	19.0	377.68
-----	WILLIAMS 82	52.0	10- 2	1.9	40	2590	36.6	18.4	347.68
-----	KUNITZ	49.3	9-29	2.2	41	2660	37.1	18.2	319.47
Average all entries		58.3	9-29	1.4	36	2660	35.9	18.6	389.16
Dif. Req. for Sig.	5%	4.4	1.5	0.3	NS	220	0.5	0.5	NS
	25%	2.6	0.9	0.2	NS	130	0.3	0.3	23.20

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 8B. South Central Irrigated Soybean Performance Tests. Late Maturing Varieties. 1986 - 1990.

Brand	Variety		Yield bu/a	Mature date	Lodging score	Seeds/ pound	Protein %	Oil %	EPV $/a
					2 YEAR AVERAGE				
GOLDEN HARVEST	H-1308		61.3	9-26	1.6	2490	34.3	19.2	397.40
FONTANELLE	5319		59.8	9-26	1.7	2540	34.8	19.0	395.80
HOEGEMEYER	368		59.3	9-27	1.7	2520	34.7	18.9	392.20
MERSHMAN	KENNEDY III		59.2	9-30	1.5	2770	35.8	18.6	388.20
MC CUBBIN	3590		58.9	9-27	2.0	2740	36.2	18.5	380.80
TRI VALLEY	CELICA		58.9	9-27	1.3	2550	35.4	18.5	386.40
STINE	3170		58.8	9-30	1.7	2730	36.0	18.9	385.00
-----	HOBBIT 87		57.5	9-29	1.1	2630	34.7	19.4	365.00
ASGROW	A3935		57.4	10- 3	1.9	2940	35.5	19.2	357.00
-----	PELLA 86		57.3	9-26	1.5	2260	35.0	19.2	372.00
-----	FREMONT		57.0	9-25	1.3	2470	35.2	19.5	356.00
ASGROW	A3322		57.0	9-28	1.3	2680	36.4	18.4	370.40
TERRA	TRIUMPH		56.9	9-29	2.3	2700	35.3	18.9	350.40
-----	RESNIK		56.8	9-27	1.4	2790	36.0	18.8	375.40
-----	FLYER		56.0	9-30	1.5	2860	36.1	18.5	351.80
MERSHMAN	WASHINGTON VI		55.9	9-30	1.7	2580	35.8	18.8	361.80
NORTHRUP KING	S 36-36		55.8	9-26	1.7	3470	36.4	18.6	341.20
DEKALB Plant Gen	CX366		55.4	9-29	1.7	2640	35.3	18.9	355.00
ASGROW	A3733		54.7	10- 2	1.3	2680	36.0	18.9	354.40
HYPERFORMER	360		54.6	9-28	1.6	2690	35.7	18.7	355.40
HORIZON	3788		54.5	9-30	1.6	2730	35.6	19.0	351.00
ATLAS S BRAND	S57A		54.4	9-29	1.3	3080	35.9	18.9	342.20
-----	WINCHESTER		52.4	9-30	2.1	2410	35.9	18.8	335.80
-----	WILLIAMS 82		49.6	10- 1	2.2	2640	36.3	18.7	313.20
Average all entries			56.6	9-28	1.6	2690	35.6	18.9	363.90
Dif. Req. for Sig.		5%	2.0	1.3	0.2	NS	0.4	0.2	NS
		25%	1.2	0.8	0.1	NS	0.2	0.1	NS
					3 YEAR AVERAGE				
GOLDEN HARVEST	H-1308		61.0	9-25	1.5	2490	34.5	19.2	396.20
HOEGEMEYER	368		58.6	9-26	1.6	2520	34.4	19.1	379.40
TRI VALLEY	CELICA		58.4	9-26	1.3	2550	35.4	18.8	382.60
-----	RESNIK		57.7	9-27	1.4	2790	36.2	18.9	388.80
ASGROW	A3935		56.9	10- 2	1.8	2940	35.1	19.3	360.60
-----	HOBBIT 87		56.7	9-27	1.1	2630	34.4	19.7	361.60
-----	PELLA 86		56.4	9-25	1.5	2260	35.1	19.3	367.20
-----	FREMONT		56.3	9-24	1.4	2470	35.1	19.6	360.40
MERSHMAN	WASHINGTON VI		56.0	9-30	1.6	2580	35.4	19.0	363.80
DEKALB Plant Gen	CX366		55.7	9-28	1.6	2640	35.1	19.1	363.40
TERRA	TRIUMPH		55.7	9-29	2.3	2700	35.1	19.0	349.40
NORTHRUP KING	S 36-36		55.3	9-26	1.7	3470	36.0	18.9	351.00
ATLAS S BRAND	S57A		54.4	9-28	1.3	3080	35.6	19.1	350.40
-----	WINCHESTER		51.9	9-29	2.0	2410	35.9	18.9	338.00
-----	WILLIAMS 82		49.0	9-30	2.1	2640	35.7	19.0	312.00
Average all entries			56.0	9-27	1.6	2680	35.3	19.1	361.60
Dif. Req. for Sig.		5%	1.6	1.3	0.2	NS	0.4	0.2	7.90
		25%	0.9	0.7	0.1	NS	0.2	0.1	4.50
					4 YEAR AVERAGE				
ASGROW	A3935		57.4	10- 1	1.9	2960			
-----	HOBBIT 87		57.1	9-26	1.1	2760			
-----	PELLA 86		55.1	9-23	1.5	2330			
-----	FREMONT		53.9	9-22	1.5	2570			
-----	WINCHESTER		50.3	9-28	2.0	2480			
-----	WILLIAMS 82		48.1	9-28	2.1	2680			
Average all entries			53.6	9-26	1.6	2630			
Dif. Req. for Sig.		5%	1.8	0.7	0.1	71			
		25%	1.0	0.4	0.1	40			
					5 YEAR AVERAGE				
-----	FREMONT		54.6	9-22	1.5	2570			
-----	WINCHESTER		51.1	9-28	1.9	2480			
-----	WILLIAMS 82		48.7	9-29	2.0	2680			
Average all entries			51.5	9-26	1.8	2580			
Dif. Req. for Sig.		5%	0.9	0.5	0.2	38			
		25%	0.5	0.3	0.1	21			

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 9A. Central Irrigated Soybean Performance Test. Valley County. Early Maturing Varieties. 1990.

Brand	Variety	Yield bu/a	Lodging score	Height inches	Seeds/ pound	Protein %	Oil %	EPV $/a
MC CUBBIN	TAYLOR	65.3	1.8	33	2730	34.6	19.3	423.15
ARROW SEED	AS2090	65.0	1.1	34	2620	34.9	19.9	429.65
OHLDE	3000	64.7	1.5	38	2520	34.3	18.5	413.40
HILL SEED	EXP260	64.7	1.0	33	2580	36.0	18.3	428.35
FUNK'S G BRAND	3258	64.4	2.1	32	2410	35.0	19.3	420.48
-----	PELLA 86	64.0	1.8	36	2230	35.1	19.2	419.84
GOLDEN HARVEST	H-1285	63.7	1.9	34	2760	35.2	19.5	423.68
-----	KENWOOD	63.2	2.3	36	2920	34.8	18.9	408.87
MERSHMAN	MOHAWK	62.9	1.0	30	2760	35.6	18.6	413.28
ATLAS S BRAND	S44D	62.6	1.6	29	2740	34.4	19.3	408.24
-----	U87-63041	61.9	1.0	34	2770	35.3	19.6	411.06
STINE	2840	61.3	1.8	33	2290	34.6	19.3	396.50
OHLDE	EX929	60.3	1.3	32	2780	35.5	18.7	393.60
NORTHRUP KING	S 25-15	60.2	1.5	34	2590	35.7	18.8	396.00
GOLDEN HARVEST	H-1260	59.9	2.3	35	2410	35.0	19.0	391.80
MC CUBBIN	TAHOE	59.7	1.0	30	2470	34.0	19.3	385.20
-----	HACK	58.2	1.0	33	2550	34.5	18.8	372.94
WILSON BLEND	3165	58.0	1.5	38	2690	34.6	18.3	370.04
DEKALB Plant Gen	CX259	57.8	1.5	32	2630	35.4	19.3	384.54
JACOBSEN	J972	57.7	1.9	37	2500	34.3	18.4	367.72
-----	CHAPMAN	57.6	1.5	35	2210	35.5	19.2	383.96
HORIZON	25	57.3	1.4	29	2570	35.4	19.0	375.63
ARROW SEED	AS2675	57.1	2.6	34	2420	34.4	18.7	364.80
DAHLGREN	D-3272	55.6	1.9	36	2990	36.2	17.5	365.12
FUNK'S G BRAND	3232	55.6	2.0	37	2950	35.6	18.3	365.68
FONTANELLE	4550	54.8	1.5	33	3040	35.5	18.5	358.60
-----	BURLISON	54.7	1.0	33	2510	36.8	17.7	364.10
-----	CENTURY 84	53.9	1.0	32	2710	36.9	17.6	356.94
HORIZON	2600	53.7	1.3	31	3160	35.4	18.5	352.62
DAHLGREN	D-3330	53.2	1.8	40	2790	35.7	18.6	348.74
-----	U85-74089	53.1	1.8	36	3050	36.1	18.2	348.21
ATLAS	280	52.8	1.3	32	2560	35.8	18.4	348.21
-----	U86-62062	52.2	1.0	23	2240	38.0	17.6	351.00
OHLDE	EX800	51.3	1.1	30	2840	35.8	18.1	333.03
MIDWEST OILSEEDS	2170	50.9	1.0	31	2730	35.3	18.9	334.56
MERSHMAN	MOHAVE	50.4	1.9	35	2690	36.0	18.1	328.00
-----	EDISON	47.7	1.0	31	3210	36.1	17.3	311.04
Average all entries		58.0	1.5	33	2670	35.4	18.6	379.32
Dif. Req. for Sig.	5%	9.0	0.5	3	240	0.9	0.7	NS
	25%	5.0	0.3	2	140	0.5	0.4	56.69

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF PROTEIN AND OIL

Table 10A. Central Irrigated Soybean Performance Test. Valley County.
Late Maturing Varieties. 1990.

Brand	Variety	Yield bu/a	Lodging score	Height inches	Seeds/ pound	Protein %	Oil %	EPV $/a
-----	PELLA 86	62	1.7	36	2070	35.5	18.9	408.58
MERSHMAN	KENNEDY III	62	2.1	35	2850	35.6	18.3	404.24
HORIZON	3200	61	2.5	40	2970	35.5	18.0	395.28
STINE	3940	60	1.8	32	2960	35.5	18.6	393.60
SOI	394	59	1.6	35	2560	34.5	18.6	377.01
HILL SEED	EXP340	58	2.3	33	2830	35.8	18.3	379.90
GOLDEN HARVEST	H-1308	58	1.8	35	2400	34.9	18.3	372.36
-----	ZANE	58	1.5	35	2270	35.4	19.1	382.22
DEKALB Plant Gen	CX291	58	2.1	36	2690	35.4	19.3	383.96
MERSHMAN	HOOVER II	58	2.1	34	2630	35.8	18.0	377.58
ATLAS S BRAND	S46J	58	1.0	29	2710	36.3	18.2	383.38
-----	HAMILTON	57	2.1	34	2370	35.8	18.6	375.63
MC CUBBIN	3088	57	1.8	35	2530	34.6	18.4	364.23
-----	FREMONT	57	1.3	33	2620	35.5	18.9	375.63
-----	BURLISON	56	1.5	32	2440	37.3	17.8	374.08
ATLAS	370	56	2.0	33	2830	36.0	18.0	366.80
-----	U85-74089	55	1.9	34	3150	36.6	18.1	364.65
MC CUBBIN	3590	54	2.3	34	2760	36.5	17.7	355.32
HORIZON	53	53	1.6	34	2930	36.1	17.7	346.09
-----	CHAPMAN	51	1.5	33	2390	35.7	18.8	337.11
-----	EDISON	50	1.3	30	3240	36.0	18.0	328.00
-----	RESNIK	50	1.6	33	3190	36.4	17.7	328.50
Average all entries		57	1.8	34	2700	35.7	18.3	373.35
Dif. Req. for Sig.	5%	NS	0.6	3	390	0.7	0.7	NS
	25%	5	0.4	2	230	0.4	0.4	NS

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 11A. Southwest Irrigated Soybeans. Furnas County. 1990

Brand	Variety	Yield bu/a	Height inches	Bushel weight	Protein %	Oil %	EPV $/a
ARROW SEED	AS2090	69	44	54.7	34.6	19.1	447.12
-----	HOBBIT 87	66	30	55.8	34.0	19.4	423.72
OHLDE	3000	64	47	53.9	35.4	18.3	416.64
JACOBSEN	J972	64	43	55.3	34.3	18.7	408.96
-----	KENWOOD	63	41	54.8	35.0	18.8	409.50
TRI VALLEY	CHARGER 91	63	46	54.6	35.1	18.7	410.13
HORIZON	2600	62	39	57.3	35.9	18.7	410.44
NORTHRUP KING	S 25-15	62	38	55.5	36.4	18.6	412.92
MC CUBBIN	TAYLOR	61	46	54.2	35.3	18.6	397.72
FONTANELLE	5319	61	48	54.3	34.3	18.8	390.40
FONTANELLE	5889	60	53	54.6	34.6	19.0	388.80
MC CUBBIN	3590	60	46	56.4	36.4	18.1	396.60
HORIZON	53	60	46	55.9	35.4	18.5	391.20
STINE	3000	60	46	55.0	35.3	18.5	391.20
OHLDE	EX500	60	44	54.3	35.8	18.8	396.60
ARROW SEED	AS2675	59	41	55.1	34.7	18.5	378.78
STINE	3170	59	56	54.1	34.8	18.9	382.91
ATLAS S BRAND	S57A	59	43	57.3	35.8	18.4	387.63
-----	CHAPMAN	59	42	55.1	35.7	19.5	394.12
STAR1	EXPRESS	58	53	55.9	35.6	18.9	382.80
DAHLGREN	D-3330	58	50	54.3	35.8	18.6	382.22
DEKALB Plant Gen	CX291	58	48	53.4	34.7	19.4	379.32
-----	U86-62062	57	31	54.8	38.4	17.7	387.60
-----	FLYER	57	45	55.3	36.4	18.3	378.48
-----	U85-74089	57	47	58.3	35.8	18.2	372.78
-----	RESNIK	57	41	55.3	36.7	18.2	379.62
-----	FREMONT	56	47	54.8	35.5	19.0	369.60
-----	HAMILTON	56	43	55.4	35.0	18.8	364.00
DAHLGREN	D-3272	56	44	55.0	36.1	18.4	370.16
MERSHMAN	ROOSEVELT	56	48	54.8	35.3	19.0	367.92
-----	EDISON	56	40	54.4	35.8	18.3	367.36
MERSHMAN	WASHINGTON VI	56	49	54.5	36.2	18.0	368.48
WILSON BLEND	2404	56	44	54.4	35.5	18.8	367.92
OHLDE	EX800	55	39	56.2	36.4	18.5	366.30
-----	BURLISON	55	44	54.3	37.2	17.4	364.65
-----	CENTURY 84	55	45	54.7	37.5	17.6	367.95
MERSHMAN	EISENHOWER II	55	49	51.7	35.9	18.8	364.65
-----	PELLA 86	54	47	55.0	35.0	19.1	352.62
-----	ZANE	53	46	55.1	35.7	18.7	348.74
-----	KUNITZ	49	55	55.6	36.3	18.6	325.85
-----	WINCHESTER	49	51	56.0	35.9	18.4	322.42
-----	WILLIAMS 82	46	55	53.7	35.9	18.6	303.60
Average all entries		58	45	54.9	35.6	18.6	381.06
Dif. Req for Sig.	5%	8	10	2.5	1.0	0.5	NS
	25%	4	6	1.5	0.6	0.3	NS

EPV=ESTIMATED PROCESSED VALUE PER ACRE BASED ON PRICE OF OIL AND PROTEIN

Table 11B. Southwest Irrigated Soybeans
All Maturity Classes. 1989 - 1990.

Brand	Variety	Yield bu/a	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
				2 YEAR AVERAGE			
JACOBSEN	J972	55.7	2780	56	34.6	18.5	304.40
OHLDE	3000	54.8	2830	56	35.1	18.5	294.20
-----	HOBBIT 87	54.3	3020	57	34.3	19.1	277.80
STINE	3000	51.7	2840	56	35.5	18.6	283.00
-----	HAMILTON	49.3	2930	56	35.8	18.7	282.40
-----	RESNIK	49.2	3030	56	36.0	18.4	271.40
ARROW SEED	AS2675	49.2	2630	56	35.1	18.6	258.80
-----	FLYER	48.4	3280	56	36.3	18.3	263.00
MERSHMAN	EISENHOWER II	48.4	3000	55	35.8	18.6	274.20
-----	U85-74089	48.4	3240	58	35.9	18.2	262.60
MERSHMAN	WASHINGTON VI	48.0	3090	56	35.6	18.2	256.60
-----	PELLA 86	46.7	2570	56	35.2	18.9	257.40
-----	FREMONT	45.4	2780	56	35.7	19.0	229.40
-----	ZANE	44.8	2550	56	35.6	18.7	243.80
-----	WINCHESTER	40.6	2720	57	36.5	18.3	219.00
-----	WILLIAMS 82	40.5	3000	55	35.9	18.6	227.40
Average all entries		48.4	2890	56	35.5	18.6	262.80
Dif. Req. for Sig.	5%	2.0	NS	NS	NS	0.2	NS
	25%	1.2	NS	0.4	0.3	0.1	NS

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF PROTEIN AND OIL

Table 12A. West Central Irrigated Soybean Test. Lincoln County. 1990

Brand	Variety	Yield bu/a	Lodging score	Height inches	Bushel weight	Protein %	Oil %	EPV $/a
DEKALB Plant Gen	CX259	52	32.5	38	55.4	36.1	17.5	338.52
HORIZON	2600	51	15.0	37	58.2	36.1	17.2	329.97
-----	KENWOOD	51	20.0	39	56.6	35.7	17.6	329.46
MERSHMAN	WASHINGTON VI	50	22.5	45	52.8	36.2	17.3	325.00
-----	U86-62062	50	20.0	31	56.7	38.7	16.8	337.50
OHLDE	EX800	49	0.0	34	55.7	35.9	17.3	315.56
-----	U87-63041	48	20.0	35	53.6	35.7	17.9	311.52
OHLDE	3000	48	12.0	41	53.4	35.4	17.6	307.68
MC CUBBIN	TAHOE	47	10.0	38	53.9	34.5	18.5	300.33
-----	CENTURY 84	47	10.0	40	55.0	37.6	17.0	311.61
-----	PELLA 86	47	32.5	43	56.8	36.0	17.2	303.15
-----	HACK	47	40.0	41	56.2	35.7	17.2	300.33
-----	U85-74089	46	12.5	44	56.6	36.3	17.0	297.62
-----	HAMILTON	46	40.0	40	53.3	36.7	16.6	297.62
MERSHMAN	ROOSEVELT	46	55.0	47	49.3	36.3	17.4	299.92
OHLDE	EX500	46	10.0	41	53.3	36.9	16.6	299.46
-----	RESNIK	45	25.0	38	54.1	36.9	16.9	293.85
MC CUBBIN	TAYLOR	45	70.0	42	54.8	36.0	17.3	290.70
MERSHMAN	EISENHOWER II	45	32.0	44	52.0	36.4	18.5	299.25
-----	BURLISON	44	33.3	39	50.1	37.4	16.6	289.08
HORIZON	25	44	35.0	36	54.7	35.6	18.1	286.44
ATLAS S BRAND	S46J	43	16.7	34	56.7	37.5	16.6	282.51
ATLAS	280	43	0.0	34	59.2	36.5	17.5	282.08
-----	EDISON	41	13.3	37	55.5	36.6	16.9	266.91
-----	CHAPMAN	38	20.0	39	54.2	36.6	18.0	251.56
Average all entries		46	26.6	39	54.9	36.4	17.3	299.46
Dif. Req. for Sig.	5%	NS	22.8	3	4.8	1.1	NS	NS
	25%	4	13.4	2	2.8	0.6	NS	25.93

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 13A. North Central Irrigated Soybean Performance Test.
Brown County. 1990

Brand	Variety	Yield bu/a	Lodging score	Height inches	Bushel weight	Protein %	Oil %	EPV $/a
ATLAS S BRAND	S43G	54	0	31	60.1	34.7	18.0	342.90
KAUP SEED	KS 2850	50	0	35	59.5	34.7	18.0	317.50
OHLDE	3000	50	10	36	57.4	34.1	17.8	312.00
MERSHMAN	MOHAWK	50	0	33	59.6	35.8	18.0	325.50
OHLDE	EX500	48	0	34	55.3	34.4	18.1	303.36
NORTHRUP KING	S 25-15	48	10	33	60.0	35.6	18.2	312.96
-----	KENWOOD	47	10	35	59.2	34.9	18.1	300.80
-----	HACK	44	0	35	61.5	33.9	18.1	275.00
MERSHMAN	UTE	44	0	31	59.9	34.5	18.5	281.60
STINE	2840	44	0	34	60.1	34.3	18.8	281.60
ATLAS S BRAND	S44D	44	0	34	59.8	34.4	18.5	280.72
-----	RESNIK	43	0	34	54.8	35.8	17.7	278.64
MIDWEST OILSEEDS	2230	43	0	36	59.1	34.7	18.3	274.34
OHLDE	EX800	42	0	30	61.2	35.6	18.0	272.58
-----	CHAPMAN	41	0	32	59.4	35.1	18.5	266.09
KAUP SEED	KS 2690	41	10	33	58.3	35.0	18.1	263.22
DEKALB Plant	GenCX259	41	10	33	59.3	33.6	18.6	256.66
-----	PELLA 86	40	0	37	59.0	34.7	18.2	255.20
-----	CENTURY 84	39	10	34	57.7	36.5	17.2	254.67
NORTHRUP KING	S 20-26	38	0	35	58.6	35.1	17.9	243.58
-----	U87-63041	38	10	32	58.0	34.8	18.5	244.34
MC CUBBIN	TAHOE	37	10	32	59.2	33.7	19.1	234.58
-----	BURLISON	37	0	31	58.5	36.4	17.3	240.87
Average all entries		43	3	33	59.0	34.9	18.1	275.20
Dif. Req. for Sig.	5%	5	5	2	2.0	1.1	1.3	46.00
	25%	3	3	1	1.2	0.6	0.7	27.14

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 13B. North Central Soybean Performance Tests.
All Maturity Classes. 1989 - 1990.

Brand	Variety	Yield bu/a	Lodging score	Seeds/ pound	Bushel weight	Protein %	Oil %	EPV $/a
				2 YEAR AVERAGE				
KAUP SEED	KS 2850	46.8	0	3190	59	35.8	17.6	285.80
-----	KENWOOD	46.4	10	3170	58	35.1	18.2	293.80
ATLAS S BRAND	S44D	44.7	0	2920	59	34.8	18.4	294.40
-----	HACK	43.2	0	2930	61	34.4	18.3	277.00
KAUP SEED	KS 2690	41.4	10	3230	58	35.0	18.1	269.60
-----	CENTURY 8	37.3	10	3060	58	36.2	17.5	232.40
-----	BURLISON	35.6	0	2930	58	36.3	17.6	220.80
Average all entries		42.2	4	3060	58	35.3	17.9	267.60
Dif. Req. for Sig	5%	2.3	NS	NS	0.7	NS	NS	NS
	25%	1.3	NS	NS	0.4	0.4	0.2	NS

EPV = ESTIMATED PROCESSED VALUE BASED ON PRICE OF PROTEIN AND OIL

Table 14A. West Central Soybean Irrigation Test.
Lincoln Co. 1990

		Average	Limited Irrigation		Full Irrigation	
Brand	Entry	Yield bu/a	Yield bu/a	Seeds/ pound	Yield bu/a	Seeds/ pound
----	Corsoy79	59.9	64.3	2850	55.5	2875
Golden Harvest	1233	59.9	56.5	3115	63.3	2787
Northrup King	23-03	58.2	59.0	2793	57.3	2713
Golden Harvest	1285	57.2	55.0	3173	59.3	3027
Asgrow Seed	2187	56.4	58.7	2907	54.0	2955
DeKalb Pfizer	CX283	56.3	56.3	3047	56.3	2967
Seeds of Iowa	266	56.0	59.0	2965	53.0	2817
Arrow Seed	2610	55.9	56.5	3040	55.3	3047
Lynks Seed	8165	55.1	52.5	2613	57.7	2490
Hoegemeyer	205	55.0	56.5	3283	53.5	2953
Jacques	103	55.0	54.5	2907	55.5	2763
----	Elgin	55.0	52.7	2887	57.3	2563
Horizon	H21	54.9	54.0	3280	55.7	3075
Hill Seed	2700	54.2	53.7	3157	54.7	3103
Stine	2770	53.9	55.3	3833	52.5	3327
----	Hack	53.7	50.0	3207	57.3	2740
Arrow Seed	2675	53.3	54.3	3015	52.3	2553
Lynks Seed	5255	53.3	55.3	3253	51.3	2927
S Brand	46F	52.9	54.0	3825	51.7	3473
Northrup King	27-10	52.6	53.5	3440	51.7	2937
Seeds of Iowa	268	52.4	54.0	3665	50.7	3517
----	Hoyt	51.8	52.5	3495	51.0	3330
Horizon	H29	51.5	53.7	2723	49.3	2505
Stine	2940	51.0	51.3	3267	50.7	3190
Fontanelle	4545	49.8	51.3	3323	48.3	3045
----	BSR101	49.0	51.3	3045	46.7	3007
NC+	2D90	47.4	45.0	3290	49.7	3017
Asgrow Seed	2543	43.5	44.5	2913	42.5	2593
Averages All Entries		53.7	54.1	3154	53.4	2939
Dif.Req. for Sig.	5%	NA	9.3	255	8.3	266
	25%	NA	5.4	148	4.9	155

Table 14B. West Central Soybean Irrigation Tests.
Lincoln County. 1987 - 1990.

		Average	Limited Irrigation		Full Irrigation	
Brand	Variety	Yield bu/a	Yield bu/a	Seeds/ pound	Yield bu/a	Seed/ pound
		2 - Year Average				
----	Corsoy 79	55.7	56.0	2839	55.4	2883
DeKalb Pfizer	CX283	54.8	53.7	2875	55.9	3035
Horizon	H21	53.4	52.2	3034	54.6	3109
Hoegemeyer	205	53.4	53.3	3101	53.5	3027
Golden Harvest	1233	53.3	50.4	3033	56.2	2971
Golden Harvest	1285	53.3	52.0	3043	54.5	3091
Northrup King	23-03	53.0	52.9	2809	53.1	2826
Arrow Seed	2675	52.7	53.5	2721	51.9	2679
Arrow Seed	2610	51.9	51.2	2907	52.6	3090
----	Elgin	51.8	49.0	2837	54.5	2719
Horizon	H29	51.6	53.3	2566	49.8	2635
Hill Seed	2700	51.2	50.4	3084	51.9	3136
Seeds of Iowa	268	51.0	50.2	3431	51.8	3466
Asgrow Seed	2187	50.9	50.3	2859	51.4	2956
Lynks Seed	5255	50.7	52.4	3066	49.0	3024
Lynks Seed	8165	50.5	50.0	2521	51.0	2587
S Brand	46F	49.9	49.3	3563	50.4	3501
----	Hack	49.8	48.6	2863	51.0	2756
Jacques	103	49.2	46.9	2793	51.4	2783
Seeds of Iowa	266	48.8	49.2	2963	48.4	2969
----	BSR101	48.2	48.2	2907	48.1	2984
Stine	2770	48.0	49.5	3574	46.5	3450
NC+	2D90	47.6	47.4	3085	47.8	3079
----	Hoyt	47.3	48.9	3365	45.6	3474
Stine	2940	47.1	46.6	3157	47.6	3323
Fontanelle	4545	46.5	47.7	3132	45.3	3169
Northrup King	27-10	45.8	44.2	3290	47.3	3127
Asgrow Seed	2543	42.8	43.2	2776	42.4	2755
Average All Entries		50.3	50.0	3007	50.7	3022
Dif.Req. for Sig.	5%	NA	5.7	162	6.0	159
	25%	NA	3.3	95	3.5	92
		3 - Year Average				
Golden Harvest	1285	55.7	54.5	2884	56.9	2934
Dekalb Pfizer	CX283	55.3	54.4	2749	56.1	2883
Horizon	H21	55.1	53.6	2892	56.5	2934
Arrow Seed	2675	55.0	54.0	2603	56.0	2540

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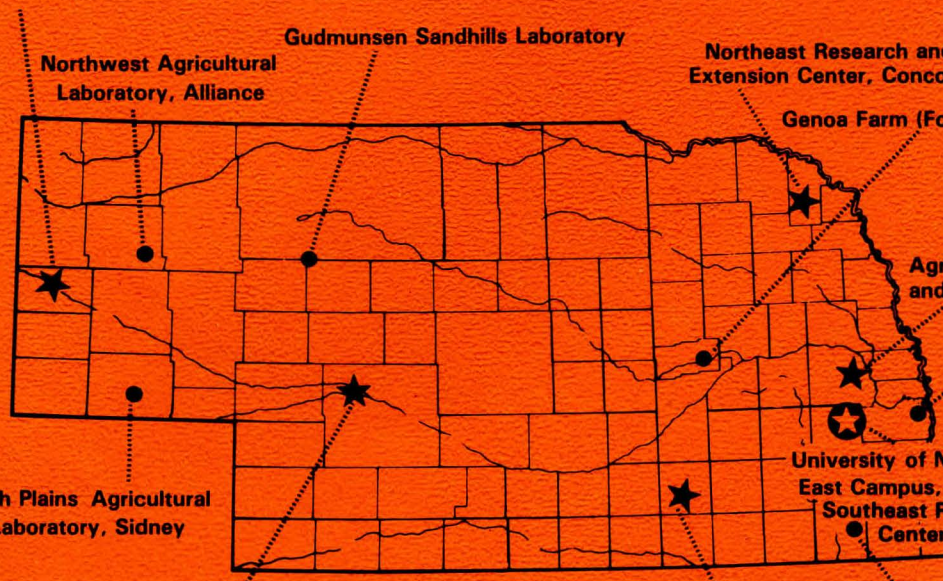
Table 14B. West Central Soybean Irrigation Tests. Lincoln County. 1987 - 1990. PAGE 2.

		Average	Limited Irrigation		Full Irrigation	
Brand	Variety	Yield bu/a	Yield bu/a	Seeds/ pound	Yield bu/a	Seed/ pound
Hoegemeyer	205	55.0	54.9	2919	55.0	2862
Hill Seed	2700	54.2	53.4	2915	54.9	2925
----	Corsoy79	53.8	54.3	2867	53.2	2831
----	Elgin	53.8	51.5	2693	56.0	2613
Horizon	H29	53.3	53.2	2472	53.3	2509
Seeds of Iowa	268	53.2	53.8	3207	52.6	3251
Asgrow Seed	2187	53.0	52.3	2756	53.7	2803
Northrup King	23-03	52.1	53.7	2750	50.5	2777
NC+	2D90	52.1	51.4	2929	52.7	2898
---	Hack	52.0	50.1	2720	53.9	2635
S Brand	46F	52.0	51.5	3336	52.5	3267
Stine	2770	52.0	53.2	3372	50.7	3290
Arrow Seed	2610	51.9	51.6	2851	52.1	2913
Jacques	103	51.4	49.2	2671	53.5	2637
Lynks Seed	8165	51.2	49.7	2523	52.7	2557
Seeds of Iowa	266	51.0	50.7	2801	51.2	2799
----	BSR101	49.6	48.5	2733	50.7	2791
Fontanelle	4545	49.4	50.9	2971	47.8	2978
----	Hoyt	49.2	49.6	3276	48.7	3395
Average All Entries		52.6	52.1	2866	53.1	2870
Dif.Req. for Sig.	5%	NA	3.9	111	4.2	109
	25%	NA	2.3	65	2.4	63
			4-Year Average			
Golden Harvest	1285	58.6	56.6	2937	60.5	2921
DeKalb Pfizer	CX283	56.4	54.3	2857	58.5	2855
----	Elgin	55.6	52.1	2775	59.0	2647
----	Corsoy79	55.0	54.1	2941	55.9	2858
Hoegemeyer	205	54.7	53.9	2955	55.4	2858
Asgrow Seed	2187	53.9	51.5	2847	56.2	2771
Northrup King	23-03	53.4	53.7	2803	53.0	2766
Jacques	103	52.7	49.9	2729	55.5	2620
Arrow Seed	2610	52.1	51.3	2912	52.8	2905
Lynks Seed	8165	51.7	49.5	2620	53.9	2597
----	BSR101	50.9	47.7	2794	54.1	2753
Average All Entries		54.0	52.2	2834	55.9	2777
Dif.Req. for Sig.	5%	NA	3.6	83	3.5	84
	25%	NA	2.1	48	2.0	49

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.