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DECEMBER 1981 NEBRASKA COOPERATIVE EXTENSION SERVICE–E.C. 82-104

NEBRASKA SOYBEAN PERFORMANCE TESTS 1981

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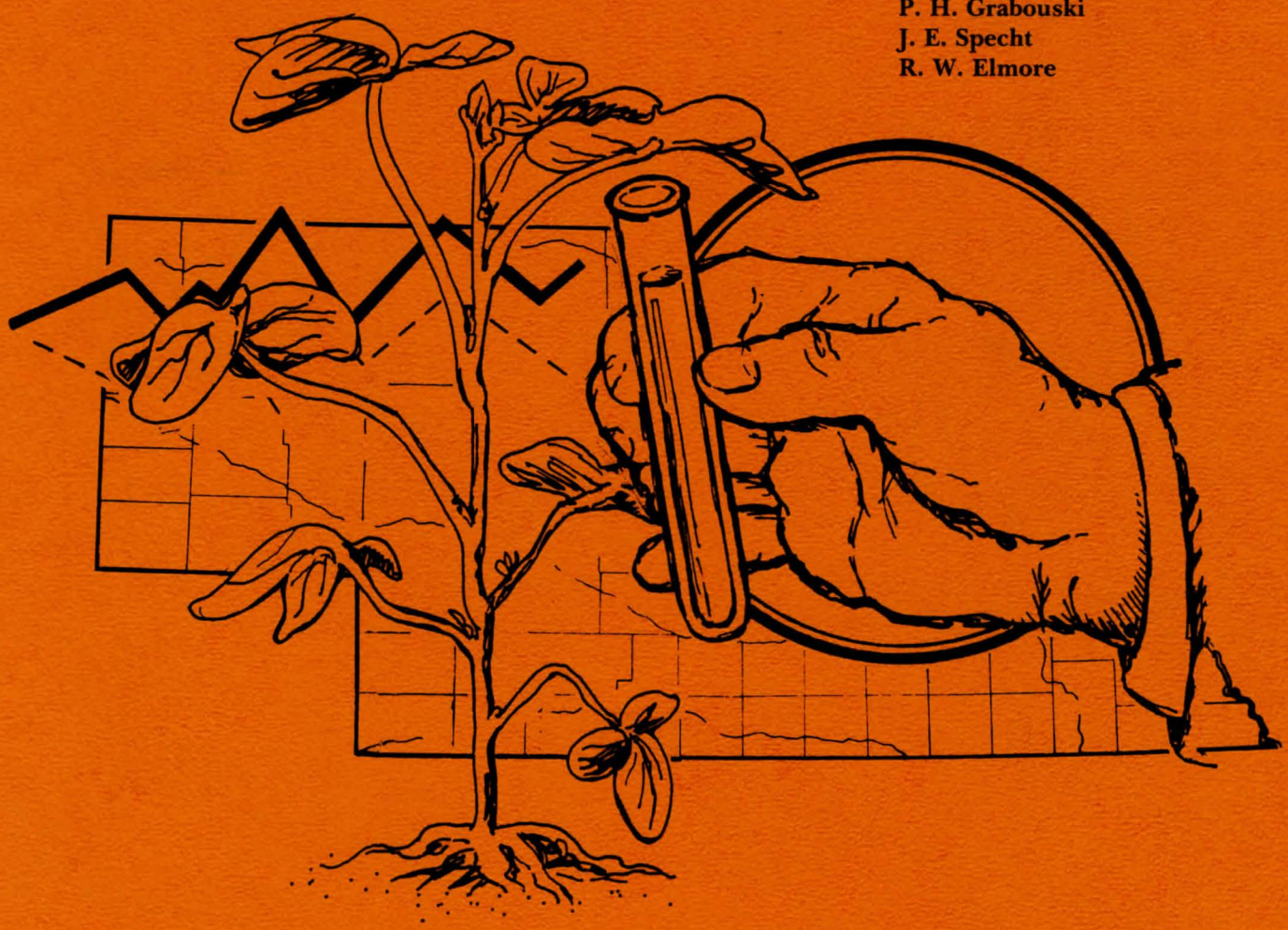

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EXTENSION CIRCULAR 81-104

December 1981

FOREWORD

This circular is a progress report of soybean performance trials conducted by the variety evaluation and soybean breeding projects of the Agricultural Experiment Station. Cooperating were the Agronomy Department and the Northeast, South Central and North Platte Stations. Conduct of experiments and publication of results is a joint effort of the Agricultural Experiment Station and the Cooperative Extension Service.

Acknowledgment is made to station personnel, county extension agents and farmer cooperators who assisted in conduct of these tests. Tests were supported in part by fees collected from entrants. A grant from the Nebraska Soybean Development Utilization and Marketing Board enabled purchase of planting and harvest equipment necessary for conduct of East Central and Southeast trials.

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NEBRASKA SOYBEAN PRODUCTION

The following data were obtained from Nebraska Agricultural Statistics. In 1940, 13,000 acres of soybeans were also 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 (1)
1950	50 (20)	24.0 (1614)	1,200 (30)
1955	180 (73)	10.5 (706)	1,890 (48)
1956	146 (59)	11.5 (773)	1,679 (43)
1957	142 (58)	26.0 (1749)	3,692 (94)
1958	206 (83)	29.0 (1951)	5,974 (152)
1959	146 (59)	24.0 (1614)	3,504 (89)
1960	164 (66)	28.0 (1883)	4,592 (117)
1961	292 (118)	25.5 (1715)	7,446 (189)
1962	310 (126)	27.0 (1816)	8,370 (213)
1963	356 (144)	28.5 (1917)	10,146 (258)
1964	523 (212)	22.0 (1480)	11,506 (292)
1965	696 (282)	23.5 (1581)	16,356 (415)
1966	745 (302)	29.5 (1984)	21,978 (558)
1967	782 (317)	22.5 (1513)	17,595 (447)
1968	782 (317)	23.5 (1581)	18,377 (467)
1969	766 (310)	33.5 (2253)	25,661 (652)
1970	812 (329)	22.0 (1480)	17,864 (454)
1971	609 (247)	25.0 (1682)	15,225 (387)
1972	746 (302)	33.0 (2220)	24,618 (625)
1973	1,210 (490)	30.0 (2018)	36,300 (922)
1974	1,190 (482)	24.0 (1614)	28,560 (725)
1975	1,200 (486)	27.0 (1816)	32,400 (823)
1976	980 (397)	20.0 (1345)	19,600 (498)
1977	1,130 (458)	36.0 (2421)	40,680 (1033)
1978	1,250 (506)	34.0 (2287)	42,500 (1080)
1979	1,610 (652)	34.0 (2287)	54,740 (1390)
1980	1,770 (717)	30.0 (2018)	53,100 (1349)
1981 1/	2,100 (851)	39.0 (2623)	81,900 (2080)

1/ November 1 estimate.

NEBRASKA SOYBEAN PERFORMANCE TESTS 1981

The November 1 estimated soybean yield for Nebraska was 39.0 bushels from 2.1 million harvested acres. Both represent new records for the state.

Data were obtained from the twelve soybean performance trial locations shown in Table 1. Experiment Station released and/or experimental varieties were included at all locations. In addition, Northeast, East Central and Southeast trials included privately developed varieties and/or blends. This is the first year these entries have been included in tests.

PROCEDURE

Privately developed entries were selected by the seed producer. At each location, entries were divided into early and late for convenience in handling. Three varieties were included in both early and late trials. Yields were calculated as a percentage of the average of these entries. These percentages, not bushel yields, should be used for comparisons of early and late entries at a location.

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

Trials were grown in four-row plots 20 to 30 feet long. Plots were replicated four times in a randomized complete block design. A planting rate of 9 seeds per foot in 30-inch rows (156,800 seeds per acre) was used unless a higher or lower rate was requested by the entrant. At harvest, two rows 10 to 25 feet long were threshed for yield.

Harvest yields were corrected to 13% moisture. Plots were rated mature when 95% of the pods had turned brown. Lodging scores are based on a 1 to 5 scale where 1 = all plants erect and 5 = all plants flat. Height was measured before harvest.

Seed quality and grams per 100 seeds data were obtained at some locations. Seed quality is rated on a 1 to 5 scale with 1 = best and 5 = poorest. Grams per 100 seeds is an indication of seed size. Varieties differ in seed size. Small seed size for a given location is an indication of stress at some time during the growing period. Seeds per pound = 453.6 x 100 ÷ grams per 100 seeds.

Metric equivalents and conversions are as follows:

1 centimeter	=	0.394 inches	cm	=	inches x 2.54
1 hectare	=	2.471 acres	ha	=	acres x 0.405
1 kilogram	=	2.205 pounds	kg	=	pounds x 0.454
1 hectoliter	=	2.838 bushels	hl	=	bushels x 0.352

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

Table 1. Locations, cooperators and planting and harvest dates. Nebraska soybean performance tests. 1981.

Test	County	Cooperator	Planted	Harvested
Northeast irrigated sandy	Stanton	Jack Grevson, Madison	May 15	Oct. 27
Northeast early entries	Dixon	Northeast Station, Concord	May 22	Oct. 7
Northeast late entries	Dixon	Northeast Station, Concord	May 22	Oct. 8
East Central early entries	Dodge	Virgil Wagner, Hooper	June 6	Sept. 29
East Central late entries	Dodge	Virgil Wagner, Hooper	June 6	Oct. 22
Mead nonirrigated	Saunders	Mead Field Laboratory	May 28	Oct. 1, 21
Mead irrigated	Saunders	Mead Field Laboratory	May 28	Oct. 1, 21
Lincoln nonirrigated	Lancaster	Lincoln Agronomy Farm	May 11	Oct. 27
Southeast early entries	Nemaha	Fred Gauchat Jr., Brock	May 27	Oct. 7
Southeast late entries	Nemaha	Fred Gauchat Jr., Brock	May 27	Oct. 8
South Central irrigated	Clay	South Central Station	May 29	Oct. 1, 8
Southwest irrigated	Perkins	Ted Tietjen, Grant	June 10	Oct. 6

Table 2. Entrants. Nebraska soybean performance tests. 1981.

Brand	Entrant	Address
-----	Agricultural Experiment Station	Lincoln, NE 68583
ACCO Paymaster	ACCO Paymaster Seed	Belmond, IA 50421
Agripro	North American Plant Breeders	Ames, IA 50010
Asgrow	Asgrow Seed Company	Kalamazoo, MI 49001
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044
Funk Seeds	Funk Seeds International	Bloomington, IL 61701
GSA	Growers Seed Association	Lubbock, TX 79408
Hill Seed	Hill Seed Company	Jewell, IA 50130
Hoegemeyer	Hoegemeyer Hybrids	Hooper, NE 68031
Horizon	Horizon Seeds Inc.	Lincoln, NE 68521
Hy-Vigor	Hy-Vigor Seeds	Paullina, IA 51046
Jacobsen	Jacobsen Hybrid Corn Company	Lake View, IA 51450
Land O'Lakes	Land O'Lakes, Inc.	Webster City, IA 50595
McCurdy	McCurdy Seed Company	Fremont, IA 52561
Merschman	Merschman Seed & Fert., Inc.	West Point, IA 52656
Midwest Oilseeds	Midwest Oilseeds, Inc.	Adel, IA 50003
Migro	North American Plant Breeders	Mission, KS 66201
Northrup King	Northrup King Company	Norfolk, NE 68701
Pfizer Genetics	Pfizer Genetics	Doniphan, NE 68832
ProfiSeed	ProfiSeed, Inc.	Hampton, IA 50441
S Brand	Schechinger Seed Company	Harlan, IA 51537
Schettler	Schettler Seeds, Inc.	Carroll, IA 51401
SRF	Soybean Research Foundation	Mason City, IL 62664
Stine	Stine Seed Farm Inc.	Adel, IA 50003
Stock Seed	Stock Seed Farms, Inc.	Murdock, NE 68407
Tri Valley	Tri Valley Seed	Omaha, NE 68137
VR Seeds	VR Seeds Inc.	Brownsburg, IN 46112
WilsonBlend	Wilson Hybrids Inc.	Harlan, IA 51537
Younkerman	Younkerman Seed Company	Council Bluffs, IA 51501

Table 3. Entries. Nebraska soybean performance tests. 1981.

Brand	Entries 1/
-----	Amcor (P), Amsoy 71 (P), Beeson 80 (P), Century (P), Corsoy 79 (P), Cumberland (P), Cutler 71 (P), Elf (P), Gnome (P), Hardin (P), Hobbit (P), Lakota (P), Lawrence (P), Mead (P), Nebsoy (P), Oakland (P), Pella (P), Sprite (P), Troy (P), Union (P), Weber (P), Wells II (P), Will (P), Williams (P), Williams 79 (P), Woodworth (P), U-56355 (P), Exp. 81-4 (P), Exp. 81-5 (P), Exp. 81-6 (P).
ACCO Paymaster	201 (Bl), 251 (P), 351 (P), 401 (P).
Agripro	AP20 (P), AP35 (P), AP200 (P), AP230 (P), AP250 (P), AP350 (P), 25 (P), 27 (P).
Asgrow	A2575 (P), A2656 (P), A2680 (P), A2858 (P), A3127 (P), A3860 (P), A4268 (P).
Fontanelle	4747 (P), 5454 (P), 5656 (P), 6161 (P), 6262 (P).
Funk Seeds	G-3236 (P), G-3340 (P), G-3443 (P), 12042 (P).
GSA	GSA 400 (P), GSA 495 (P), GSA 350 (Bl), GSA 450 (Bl).
Hill Seed	HS 2000 (Bl), HS 2500 (Bl), HS 3750 (P).
Hoegemeyer	205 (P), 384 (P).
Horizon	42 (P), 52 (P).
Hy-Vigor	Rowtunda (P), 606 (Bl), 903 (Bl), 907-H (Bl), 909-A (Bl),
Jacobsen	822 (P), 823 (P).
Land O'Lakes	GO-41 (Bl), GO-42 (Bl), LL-4104 (P), LL-4105 (P), LL-4204 (P), LL-4205 (P), Max (P).
McCurdy	ML3 (Bl), 94+ (Bl), 101+ (Bl), 102+ (Bl), 109+ (Bl), 308+ (Bl), 500A (Bl).
Mershman	Cheyenne (P), Cleveland (P), Kennedy (P), Navaho III (P), Richmond (P), Shawnee II (P), Truman (P), Washington V (P).
Midwest Oilseeds	2100A (P), 2210 (P), 2260 (P), 2290 (P), 3200 (P), 3250 (P).
Migro	HP-20-20 (P), HP2530 (P), HP3700 (P), HP4800 (P).
Northrup King	Multivar 80 Brand (Bl), S 1474 (P), S 1492 (P), S 24-59 (Bl), S 2596 (P), S 32-67 Brand (Bl), S 39-19 Brand (Bl), S 40-44 (P).
Pfizer Genetics	CX275 (P), CX290 (P), CX 380 (P), EC1001 (P).
ProfiSeed	PS 1138, PS 1280.
S Brand	S43 (P), S46b (Bl), S47b (P), S51 (P), S52a (Bl), S56 (Bl).
Schettler	Liberty II (P), TC 204A (P), TC 300 (Bl), TC 310 (P), TC 325 (P).
SRF	Matsoy (P), 200 (P), 250 (P), 350p (P).
Stine	2050 (P), 2100 (P), 4800 (P).
Stock Seed	Exp-108 (P), SS-462 (P), SS 793 (P).
Tri Valley	Astro (Bl), Astro II (Bl), Blazer (P), Bradley (Bl), Bronco (Bl), Bronco II (P), Charger (P), Charger II (Bl), Charger III (P), Citation (P), Dart (P), TV-26 (Bl).
VR Seeds	Baron (Bl), Boss (P), Burr (P), Classic I (P), Delta (P), Duke (P), VR 3393 (P).
WilsonBlend	2505 (Bl), 2710 (Bl), 2720 (Bl), 3130 (Bl), 3340 (Bl), 3550 (Bl), 3860 (Bl).
Younkerman	Ambassador (Bl), Bobcat (P), Bobcat II (P), Cutlass (Bl), Cougar (Bl), Dasher (P), VP-3 (P), YSC 24 (Bl), YSC 31 (Bl), YSC 41 (Bl).

1/ Letters in ( ) indicate ; (P) pure line, (Bl) blend. These are not part of variety name.

PERFORMANCE

Entries are listed in tables in order of increasing maturity from earliest to latest. In Southeast Nebraska, a rainy period in mid-September resulted in no maturity progress during that time. Early entries in that area matured about a week ahead of usual. Late entries were near normal in date of maturity.

Performance of entries can not be measured with absolute accuracy because of variations in moisture, soil fertility and other factors. For this reason small yield differences have little significance. Differences required for significance are shown in each table at the 5% and 25% levels. This means that differences this great would be expected through chance alone in 1 of 20 or 1 of 4 trials, respectively.

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

Since 1981 was the first season privately developed entries were included in these trials, no long-time yield data are available. Two-, three- and four-year yield data, where available, are shown for Experiment Station varieties.

Northeast

Results of a trial on sandy land in Stanton County are shown in Table 4. This was sprinkler irrigated Valentine fine sandy loam.

The 1981 data from the Northeast Station are shown in Tables 5 and 7 for early and late entries, respectively. The growing season was generally favorable causing excess vegetative growth. Rain storms with wind lodged plants badly. Light frost on September 17 probably caused little damage. In the late test, there was a significant negative correlation between yield and maturity. Period-of-years data from this location are included in Tables 6 and 8.

East Central

Data from Dodge County are shown in Tables 9 and 10. Planting was slightly delayed. The season was generally dry in this locality. Plants were short with no lodging. In the late test, there was a highly significant negative correlation between yield and maturity.

Mead

Irrigated and nonirrigated variety test data for 1981 are shown in Tables 11 and 13 respectively. The irrigated trial was irrigated only once as later rains were adequate. Yields without irrigation were slightly higher than those under irrigation. Period-of-years data are shown in Tables 12 and 14.

Lincoln

Excellent yields were obtained on the Agronomy Farm (Table 15). Three-year average yields at this location were in the 50-bushel range (Table 16).

Southeast

The trial in Nemaha County also was divided into early and late entries (Tables 17 and 19). Four-year yield and other data are shown in Tables 18 and 20. Summer moisture was more than adequate. Plants grew tall and were badly lodged by storms. Lodging was most severe on the later-maturing entries. There was a highly significant negative correlation between yield and maturity in the late test.

South Central irrigated

Good yields were obtained at the South Central Station (Table 21). Four year yield data are included in Table 22. Seed size has consistently been large at this location.

Southwest irrigated

This trial was under sprinkler irrigation near Grant (Table 23). Planting was delayed. Plants grew short with no lodging. Seed size was small. One additional irrigation probably would have increased yields. Three-year data from this general area are shown in Table 24.

Table 4. Northeast irrigated soybean performance. Sandy soil. Stanton County. 1981.

Entry	Yield bu/A	Lodging score	Height inches
Weber	54.1	3.0	44
Nebsoy	54.7	1.8	43
Amsoy 71	63.4	2.8	50
Century	57.4	1.9	44
Mead	61.5	1.5	41
Will	63.9	1.8	36
Pella	61.7	1.9	48
Woodworth	56.9	2.8	47
Cumberland	55.1	2.4	47
Oakland	55.3	2.0	49
Dif. req. for sig. 5%	7.3	0.4	N.S.
25%	4.1	0.2	N.S.

TABLE 5. NORTHEAST SOYBEAN PERFORMANCE. DIXON COUNTY. EARLY ENTRIES. 1981.

BRAND	ENTRY	YIELD BU/A	YIELD %	MATURE DATE	LODGING SCORE	HEIGHT INCHES
-----	LAKOTA	53.4	103	9-15	3.3	39
YOUNKERMAN	AMBASSADOR	54.6	105	9-17	3.9	40
MIGRO	HP-20-20	53.3	103	9-18	2.3	38
-----	HARDIN	47.4	91	9-19	4.1	35
ACCO PAYMASTER	251	46.5	90	9-21	2.1	35
MERSCHMAN	NAVAHO III	48.7	94	9-21	1.9	41
-----	CORSOY 79	57.8	111	9-22	3.1	41
-----	WEBER	52.0	100	9-22	3.0	39
AGRIPRO	AP200	50.2	97	9-22	2.3	38
ASGROW	A2575	53.0	102	9-22	1.9	41
ASGROW	A2656	53.4	103	9-22	3.3	43
HILL SEED	HS 2000	53.7	104	9-22	2.8	39
HY-VIGOR	ROWTUNDA	51.1	99	9-22	3.6	38
HY-VIGOR	907-H	47.2	91	9-22	3.8	39
MC CURDY	94+	43.2	83	9-22	2.6	36
STINE	2100	50.4	97	9-22	2.3	38
-----	WELLS II	45.2	87	9-23	2.4	40
ACCO PAYMASTER	201	51.3	99	9-23	2.3	41
ASGROW	A2680	51.7	100	9-23	3.6	37
FUNK SEEDS	G-3236	47.7	92	9-23	3.4	40
FUNK SEEDS	12042	47.0	91	9-23	3.4	41
HORIZON	42	56.5	109	9-23	2.0	38
HY-VIGOR	606	49.4	95	9-23	3.1	42
MC CURDY	102+	51.0	98	9-23	3.1	41
MIDWEST OILSEEDS	2100A	56.8	110	9-23	1.6	39
MIGRO	HP-2530	53.6	103	9-23	2.8	38
NORTHRUP KING	S 1492	53.2	103	9-23	2.4	37
NORTHRUP KING	S 24-59	55.4	107	9-23	2.1	39
PROFISEED	PS 1138	52.6	101	9-23	2.9	42
PROFISEED	PS 1280	53.6	103	9-23	3.0	41
TRI VALLEY	ASTRO	51.2	99	9-23	2.5	39
TRI VALLEY	ASTRO II	52.2	101	9-23	2.4	37
TRI VALLEY	BLAZER	47.8	92	9-23	3.3	40
YOUNKERMAN	BOBCAT	54.4	105	9-23	2.0	40
-----	CENTURY	57.2	110	9-24	2.0	41
GSA	350	49.8	96	9-24	2.6	41
HY-VIGOR	903	43.6	84	9-24	3.0	42
-----	AMSOY 71	46.4	89	9-25	3.4	43
MC CURDY	101+	47.7	92	9-25	3.1	40
FONTANELLE	4747	53.3	103	9-26	2.1	40
PFIZER GENETICS	CX275	50.8	98	9-26	3.0	41
GSA	450	50.8	98	9-29	2.5	45
AVERAGE ALL ENTRIES		51.1	---	22.5	2.8	39.6
DIF. REQ. FOR SIG.	5%	5.6	---	----	0.6	3.6
	25%	3.3	---	----	0.4	2.1

Yield in bushels per acre and % of average yield of Amsoy 71, Century and Weber. The % should be used to make yield comparisons with entries in the late test in this area.

Table 6. Northeast soybean performance. Dixon County. Early entries. 1978-1981.

Entry	Yield bu/A	Yield %	Mature date	Lodging score	Height inches
	Two-year average				
Hardin	52.9	99	9-17	2.6	34
Corsoy 79	57.1	107	9-19	2.1	37
Weber	55.6	104	9-19	2.0	33
Wells II	45.5	85	9-21	1.7	36
Century	55.1	104	9-24	1.5	35
Amsoy 71	49.0	92	9-24	2.5	40
Dif. req. for sig. 5%	N.S.	---	4.2	N.S.	N.S.
25%	5.3	---	2.1	N.S.	N.S.
	Three-year average				
Corsoy 79	59.5	105	9-21	2.1	39
Weber	58.3	103	9-22	1.9	34
Wells II	49.3	87	9-23	1.6	37
Century	58.0	102	9-26	1.3	37
Amsoy 71	53.7	95	9-27	2.3	43
Dif. req. for sig. 5%	5.3	---	3.2	0.5	3.4
25%	2.9	---	1.7	0.3	1.8
	Four-year average				
Wells II	48.8	---	9-23	1.6	38
Amsoy 71	52.2	---	9-26	2.3	43
Dif. req. for sig. 5%	N.S.	---	2.2	0.4	N.S.
25%	2.1	---	1.0	0.2	2.2

% yield based on average of Amsoy 71, Century and Weber. This should be used to make yield comparisons with entries in the early test in this area.

TABLE 7. NORTHEAST SOYBEAN PERFORMANCE. DIXON COUNTY. LATE ENTRIES. 1981.

BRAND	ENTRY	YIELD BU/A	YIELD %	MATURE DATE	LODGING SCORE	HEIGHT INCHES
-----	WEBER	48.9	104	9-21	2.9	37
MIDWEST OILSEEDS	2210	53.9	115	9-21	1.8	40
-----	NEBSOY	42.8	91	9-22	2.9	38
NORTHRUP KING	S 2596	53.2	113	9-22	1.3	37
-----	U-56355	46.0	98	9-23	2.1	39
AGRIPRO	AP230	53.1	113	9-23	1.9	38
-----	BEESON 80	47.8	102	9-24	2.5	40
-----	CENTURY	52.4	112	9-24	2.0	40
HY-VIGOR	909-A	45.3	97	9-24	2.6	42
JACOBSEN	822	54.6	116	9-24	1.5	38
MIGRO	HP-2530	48.5	103	9-24	2.5	39
S BRAND	S43	52.2	111	9-24	2.1	39
-----	AMSOY 71	39.5	84	9-25	2.9	40
NORTHRUP KING	S 1474	40.5	86	9-25	4.0	42
WILSONBLEND	2710	47.5	101	9-25	2.0	39
AGRIPRO	AP20	43.9	94	9-26	2.4	39
SCHETTLER	TC 204A	53.0	113	9-26	2.8	38
TRI VALLEY	BRONCO	52.2	111	9-26	2.5	40
-----	MEAD	48.4	103	9-27	2.0	37
MERSCHMAN	CHEYENNE	48.2	103	9-27	2.6	39
MERSCHMAN	SHAWNEE II	50.9	108	9-27	2.0	39
ASGROW	A2858	46.8	100	9-28	3.1	34
HOEGEMEYER	205	51.6	110	9-28	2.5	39
PFIZER GENETICS	CX290	43.7	93	9-28	2.9	43
S BRAND	S46B	59.7	127	9-28	2.0	38
S BRAND	S47B	53.3	114	9-28	2.1	41
SRF	200	39.1	83	9-28	2.5	41
SRF	250	46.9	100	9-28	1.9	42
STINE	2050	53.7	114	9-28	2.5	40
TRI VALLEY	TV-26	52.1	111	9-28	2.5	40
-----	GNOME	47.0	100	9-29	2.1	24
GSA	GSA 400	49.7	106	9-29	2.5	37
WILSONBLEND	2505	47.7	102	9-29	3.0	38
-----	AMCOR	43.1	92	9-30	3.3	41
-----	WILL	43.3	92	9-30	2.0	41
ASGROW	A3127	50.4	107	9-30	2.0	36
SCHETTLER	LIBERTY II	39.3	84	9-30	2.5	43
WILSONBLEND	2720	50.5	108	9-30	2.1	42
YOUNKERMAN	BOBCAT II	51.8	110	9-30	2.5	39
YOUNKERMAN	VP-3	50.6	108	9-30	2.1	39
-----	PELLA	50.6	108	10- 2	2.0	42
-----	WOODWORTH	48.8	104	10- 2	2.3	43
HORIZON	52	43.2	92	10- 2	2.8	42
MC CURDY	109+	44.5	95	10- 3	2.4	43
MIGRO	HP-3700	44.4	95	10- 3	2.1	42
NORTHRUP KING	S 32-67 BRAND	47.6	101	10- 3	2.5	40
TRI VALLEY	CHARGER	43.8	93	10- 3	2.6	40
FONTANELLE	5656	48.2	103	10- 4	2.8	45
MC CURDY	ML3	42.5	91	10- 4	2.4	44
YOUNKERMAN	CUTLASS	49.6	106	10- 4	2.1	42
ACCO PAYMASTER	351	48.6	104	10- 5	2.0	42
GSA	GSA 495	39.3	84	10- 6	2.6	43
AVERAGE ALL ENTRIES		48.0	---	28.1	2.4	39.7
DIF. REQ. FOR SIG.	5%	6.3	---	----	0.5	3.2
	25%	3.7	---	----	0.3	1.9

Yield in bushels per acre and % of average yield of Amsoy 71, Century and Weber. The % should be used to make yield comparison with entries in the early test in this area.

Table 8. Northeast soybean performance. Dixon County. Late entries. 1978-1981.

Entry	Yield bu/A	Yield %	Mature date	Lodging score	Height inches
	Two-year average				
Weber	54.0	106	9-18	2.0	32
Nebsoy	48.1	95	9-24	2.0	34
U-56355	50.4	99	9-24	1.6	37
Century	52.7	104	9-24	1.5	35
Amsoy 71	45.6	90	9-24	2.2	39
Beeson 80	49.6	98	9-25	1.8	37
Mead	50.5	99	9-26	1.5	34
Gnome	44.0	87	9-27	1.6	23
Amcor	52.3	103	9-27	2.6	39
Will	48.5	96	9-28	1.8	36
Pella	53.2	105	9-28	1.5	38
Dif. req. for sig. 5%	N.S.	---	N.S.	N.S.	4.7
25%	N.S.	---	3.1	0.3	2.6
	Three-year average				
Weber	57.3	104	9-22	1.9	34
Nebsoy	52.5	95	9-26	1.8	35
U-56355	55.8	101	9-26	1.5	38
Century	56.4	102	9-26	1.3	36
Amsoy 71	51.4	93	9-27	2.1	42
Beeson 80	53.0	96	9-27	2.0	38
Mead	58.4	106	9-28	1.3	35
Gnome	50.1	91	9-28	1.4	23
Will	54.1	98	9-30	1.6	37
Pella	60.8	110	9-30	1.5	39
Dif. req. for sig. 5%	N.S.	---	3.7	0.5	3.2
25%	3.9	---	2.1	0.3	1.8
	Four-year average				
Nebsoy	51.7	---	9-26	1.8	37
Amsoy 71	50.5	---	9-26	2.2	42
Dif. req. for sig. 5%	N.S.	---	N.S.	N.S.	5.2
25%	N.S.	---	N.S.	0.2	2.3

% yield based on average of Amsoy 71, Century and Weber. This should be used to make yield comparisons with entries in the early test in this area.

TABLE 9. EAST CENTRAL SOYBEAN PERFORMANCE. DODGE COUNTY. EARLY ENTRIES. 1981.

BRAND	ENTRY	YIELD BU/A	YIELD %	MATURE DATE	LODGING SCORE	HEIGHT INCHES
-----	WEBER	41.3	96	9-10	1.0	31
HY-VIGOR	ROWTUNDA	38.9	91	9-12	1.0	34
-----	WELLS II	42.8	100	9-13	1.0	35
FUNK SEEDS	12042	43.4	101	9-13	1.3	33
TRI VALLEY	BLAZER	41.7	97	9-13	1.0	35
-----	CORSOY 79	43.5	101	9-14	1.0	35
MC CURDY	102+	42.8	100	9-14	1.0	37
NORTHRUP KING	S 1492	44.3	103	9-14	1.0	34
-----	NEBSOY	40.1	93	9-15	1.0	30
ASGROW	A2680	44.1	103	9-15	1.0	33
-----	AMSOY 71	40.9	95	9-16	1.0	41
-----	U-56355	44.4	103	9-16	1.0	34
AGRIPRO	AP230	42.8	100	9-16	1.0	32
ASGROW	A2656	43.3	101	9-16	1.0	35
HORIZON	42	41.6	97	9-16	1.0	32
LAND O' LAKES	GO-42	44.3	103	9-16	1.0	35
MC CURDY	101+	44.4	103	9-16	1.0	39
MERSCHMAN	SHAWNEE II	45.1	105	9-16	1.0	34
NORTHRUP KING	S 2596	45.9	107	9-16	1.0	30
VR SEEDS	DUKE	37.3	87	9-16	1.0	35
YOUNKERMAN	BOBCAT	44.5	104	9-16	1.0	34
AGRIPRO	AP20	41.7	97	9-17	1.0	34
MIGRO	HP-2530	42.5	99	9-17	1.0	33
NORTHRUP KING	S 1474	45.2	105	9-17	1.0	36
-----	AMCOR	44.5	104	9-18	1.5	42
-----	BEESON 80	40.0	93	9-18	1.0	35
HOEGEMEYER	205	47.1	110	9-18	1.0	35
JACOBSEN	823	45.2	105	9-18	1.0	35
WILSONBLEND	2505	48.4	113	9-18	1.0	34
YOUNKERMAN	BOBCAT II	48.7	114	9-18	1.0	35
-----	CENTURY	43.5	101	9-19	1.0	32
FUNK SEEDS	G-3236	44.6	104	9-19	1.0	34
HILL SEED	HS 2500	44.3	103	9-19	1.0	33
MERSCHMAN	CHEYENNE	44.8	104	9-19	1.0	34
MIDWEST OILSEEDS	2260	37.7	88	9-19	1.0	34
SRF	250	45.7	107	9-19	1.0	33
STINE	2050	47.3	110	9-19	1.0	34
TRI VALLEY	BRONCO	47.6	111	9-19	1.0	36
YOUNKERMAN	YSC 24	47.0	110	9-19	1.0	35
ASGROW	A2858	43.2	101	9-20	1.0	33
TRI VALLEY	BRADLEY	47.8	111	9-20	1.0	35
-----	GNOME	40.0	93	9-21	1.0	27
STOCK SEED	SS-462	45.6	106	9-21	1.0	33
PFIZER GENETICS	CX290	43.0	100	9-21	1.0	39
VR SEEDS	BURR	37.9	88	9-21	1.0	35
WILSONBLEND	2720	41.6	97	9-21	1.0	33
HORIZON	52	43.6	102	9-22	1.0	37
-----	MEAD	41.5	97	9-23	1.0	33
GSA	450	44.4	103	9-23	1.0	39
-----	WOODWORTH	43.7	102	9-24	1.0	40
ACCO PAYMASTER	351	41.3	96	9-24	1.0	38
FONTANELLE	5656	43.6	102	9-24	1.0	40
-----	WILLIAMS 79	39.5	92	9-25	1.0	41
MIGRO	HP-3700	39.8	93	9-25	1.5	39
AVERAGE ALL ENTRIES		43.3	---	18.0	1.0	34.9
DIF. REQ. FOR SIG.	5%	5.6	---	1.8	0.2	2.9
	25%	3.3	---	1.1	0.1	1.7

Yield in bushels per acre and % of average yield of Century, Mead and Woodworth. The % yield should be used to make yield comparisons with entries in the early test in this area.

TABLE 10. EAST CENTRAL SOYBEAN PERFORMANCE. DODGE COUNTY. LATE ENTRIES. 1981.

BRAND	ENTRY	YIELD BU/A	YIELD %	MATURE DATE	LODGING SCORE	HEIGHT INCHES
MIGRO	HP-2530	43.4	103	9-19	1.0	33
LAND O' LAKES	LL-4205	47.9	114	9-20	1.0	36
-----	CENTURY	42.8	102	9-21	1.0	33
GSA	GSA 400	42.0	100	9-21	1.0	31
LAND O' LAKES	LL-4105	44.2	105	9-21	1.0	34
LAND O' LAKES	LL-4204	44.7	106	9-21	1.0	35
S BRAND	S47B	45.3	108	9-21	1.0	36
FUNK SEEDS	G-3340	42.1	100	9-22	1.0	39
S BRAND	S52A	49.3	117	9-22	1.0	36
SCHETTLER	LIBERTY II	44.7	106	9-22	1.0	38
VR SEEDS	BOSS	42.7	101	9-22	1.0	38
WILSONBLEND	3550	42.4	101	9-22	1.0	36
STOCK SEED	EXP-10B	45.8	109	9-23	1.0	41
-----	PELLA	43.6	104	9-23	1.0	37
STOCK SEED	SS-793	44.0	105	9-23	1.0	34
AGRIPRO	AP250	45.0	107	9-23	1.0	39
MERSCHMAN	WASHINGTON V	44.4	105	9-23	1.0	38
S BRAND	S56	43.2	103	9-23	1.0	35
TRI VALLEY	CHARGER	45.2	107	9-23	1.0	39
VR SEEDS	CLASSIC I	41.7	99	9-23	1.0	41
WILSONBLEND	3130	45.8	109	9-23	1.0	37
YOUNKERMAN	CUTLASS	46.7	111	9-23	1.0	37
-----	MEAD	43.7	104	9-24	1.0	33
-----	WILL	43.5	103	9-24	1.0	37
-----	WOODWORTH	39.8	95	9-24	1.0	37
AGRIPRO	25	40.6	96	9-24	1.0	36
AGRIPRO	27	44.5	106	9-24	1.0	39
ASGROW	A3127	47.8	114	9-24	1.0	35
FONTANELLE	6161	46.4	110	9-24	1.0	36
HOEGEMEYER	384	47.1	112	9-24	1.1	40
MERSCHMAN	TRUMAN	46.6	111	9-24	1.0	34
NORTHRUP KING	S 32-67 BRAND	43.3	103	9-24	1.0	37
TRI VALLEY	BRONCO II	46.7	111	9-24	1.0	40
WILSONBLEND	3340	48.5	115	9-24	1.0	37
YOUNKERMAN	COUGAR	46.5	110	9-24	1.0	38
YOUNKERMAN	VP-3	44.4	105	9-24	1.0	35
-----	CUMBERLAND	42.4	101	9-25	1.0	38
-----	HOBBIT	43.1	102	9-25	1.0	30
-----	SPRITE	44.0	105	9-25	1.0	27
MC CURDY	308+	41.8	99	9-25	1.1	44
MIDWEST OILSEEDS	2290	43.7	104	9-25	1.1	42
MIDWEST OILSEEDS	3200	44.0	105	9-25	1.0	38
SCHETTLER	TC 300	44.3	105	9-25	1.0	38
SRF	MATSOY	45.3	108	9-25	1.0	41
STINE	3010	44.8	106	9-25	1.0	36
ACCO PAYMASTER	401	38.1	90	9-26	1.0	38
MC CURDY	ML3	41.5	99	9-26	1.1	44
MC CURDY	109+	40.8	97	9-27	1.3	42
-----	OAKLAND	41.7	99	9-28	1.0	40
NORTHRUP KING	S 40-44	36.6	87	9-28	1.0	37
PFIZER GENETICS	CX380	40.6	96	9-28	1.0	39
-----	WILLIAMS	38.4	91	9-29	1.0	39
-----	WILLIAMS 79	40.5	96	9-29	1.0	40
ASGROW	A3659	43.3	103	9-29	1.0	33
MIGRO	HP-3700	42.4	101	9-29	1.0	39
TRI VALLEY	CHARGER III	38.7	92	9-29	1.0	39
-----	ELF	42.2	100	9-30	1.0	29
ASGROW	A3860	40.1	95	9-30	1.0	37
GSA	GSA 495	41.8	99	9-30	1.0	43
AVERAGE ALL ENTRIES		43.5	---	24.5	1.0	37.1
DIF. REQ. FOR SIG.	5%	3.9	---	1.8	N.S.	3.2
	25%	2.3	---	1.0	N.S.	1.9

Yield in bushels per acre and % of Century, Mead and Woodworth. The % yield should be used to make yield comparisons with entries in the early test in this area.

Table 11. Mead irrigated soybean performance. Saunders County. 1981.

Entry	Yield bu/A	Mature date	Lodging score	Height inches	Seed quality	Grams 100 seeds
Weber	54.8	9-13	2.1	37	1.5	14.8
Wells II	55.0	9-16	1.4	40	2.3	17.7
Corsoy 79	51.8	9-16	2.5	45	2.0	16.3
Nebsoy	55.1	9-18	1.5	39	2.4	18.4
U-56355	55.7	9-19	1.8	42	2.3	16.6
Amsoy 71	51.3	9-19	2.5	49	2.1	17.1
Century	56.7	9-19	1.8	41	2.0	19.0
Beeson 80	49.1	9-20	2.8	42	2.1	19.0
Amcor	47.6	9-23	3.3	51	2.4	15.9
Mead	48.5	9-27	1.6	37	2.1	16.5
Pella	45.0	9-28	2.4	45	2.0	19.4
Will	50.8	9-29	2.4	36	1.9	18.2
Woodworth	44.6	9-29	2.9	44	2.0	16.0
Oakland	46.7	10-1	2.4	44	2.0	18.3
Hobbit	68.6	10-1	1.0	21	1.5	20.0
Sprite	57.0	10-2	1.0	21	1.5	20.8
Cumberland	47.1	10-3	2.5	42	2.5	18.6
Williams 79	47.7	10-3	3.0	45	2.0	18.4
Williams 82	43.3	10-3	3.0	47	1.9	17.7
Williams	44.4	10-4	2.6	45	2.0	17.6
Elf	60.1	10-5	1.0	22	1.4	18.7
Dif. req. sig. 5%	5.0	1.6	0.4	3.1	0.3	1.1
25%	2.9	0.9	0.3	1.8	0.2	0.6

Table 12. Mead irrigated soybean performance. Saunders County. 1978-1981.

Entry	Grain yield, bu/A							1979-1981 average				
	1978	1979	1980	1981	1980-81 average	1979-81 average	1978-81 average	Mature date	Lodging score	Height inches	Seed quality	Grams 100 seeds
Weber	----	----	----	54.8	----	----	----	----	---	--	---	----
Wells II	45.8	34.5	54.2	55.0	54.6	47.9	47.4	9-23	1.3	35	2.7	17.7
Corsoy 79	----	33.0	53.6	51.8	52.7	46.1	----	9-24	2.2	38	2.3	15.9
Nebsoy	45.3	34.0	51.2	55.1	53.2	46.8	46.4	9-25	1.3	33	2.9	17.8
U-56355	----	39.1	61.4	55.7	58.6	52.1	----	9-26	1.4	36	2.6	16.1
Amsoy 71	40.0	34.5	48.5	51.3	49.9	44.8	43.6	9-26	2.0	42	2.8	16.6
Century	----	32.9	57.2	56.7	57.0	48.9	----	9-26	1.4	34	2.6	17.9
Beeson 80	----	36.2	51.7	49.1	50.4	45.7	----	9-26	1.9	35	2.9	18.6
Amcor	----	34.7	49.2	47.6	48.4	43.8	----	9-29	2.3	43	2.7	15.9
Mead	44.8	38.5	56.4	48.5	52.5	47.8	47.1	10-1	1.4	33	2.5	15.5
Woodworth	44.8	40.7	48.8	44.6	46.7	44.7	44.7	10-2	2.0	39	2.2	15.0
Pella	----	43.3	50.7	45.0	47.9	46.3	----	10-2	1.6	38	2.5	18.3
Hobbit	----	48.9	65.4	68.6	67.0	61.0	----	10-3	1.0	22	1.7	18.4
Will	45.5	40.5	53.9	50.8	52.4	48.4	47.7	10-4	1.8	34	2.4	16.7
Oakland	41.2	46.0	50.2	46.7	48.5	47.6	46.0	10-4	1.8	39	2.3	17.5
Sprite	----	44.7	65.9	57.0	61.5	55.9	----	10-4	1.0	22	1.7	19.5
Cumberland	46.0	35.6	54.9	47.1	51.0	45.9	45.9	10-5	1.8	36	2.9	17.9
Williams 79	41.8	41.1	45.7	47.7	46.7	44.8	44.1	10-6	2.2	40	2.4	16.7
Williams 82	----	----	----	43.3	----	----	----	----	---	--	---	----
Elf	51.7	47.8	62.5	60.1	61.3	56.8	55.5	10-6	1.0	22	1.6	18.1
Williams	41.0	41.3	46.0	44.4	45.2	43.9	43.2	10-7	1.9	40	2.3	16.6
Dif. sig. 5%	4.4	5.6	5.6	5.0	6.0	7.1	5.0	3.5	0.6	4.8	0.3	0.7
25%	----	----	----	2.9	3.4	4.1	2.9	2.0	0.4	2.8	0.2	0.4

Table 13. Mead nonirrigated soybean performance. Saunders County. 1981.

Entry	Yield bu/A	Mature date	Lodging score	Height inches	Seed quality	Grams 100 seeds
Weber	51.0	9-11	2.4	36	1.5	14.6
Corsoy 79	53.3	9-14	3.0	40	1.9	16.3
Wells II	55.4	9-14	1.6	39	2.1	17.7
Nebsoy	54.3	9-16	1.9	37	2.3	19.2
Century	60.0	9-17	2.0	40	3.4	19.7
U-56355	56.7	9-17	1.8	41	2.0	17.0
Amsoy 71	50.7	9-18	2.9	49	2.0	17.6
Beeson 80	54.5	9-19	2.4	38	2.1	19.1
Amcor	53.0	9-24	3.5	48	2.3	16.5
Mead	50.8	9-26	1.5	37	2.0	16.5
Pella	55.5	9-27	2.5	41	1.6	21.3
Will	53.7	9-28	2.4	34	1.6	18.7
Woodworth	49.0	9-29	3.0	42	1.8	16.0
Hobbit	72.6	9-30	1.0	23	1.1	19.3
Sprite	67.6	9-30	1.0	21	1.1	20.2
Oakland	54.0	10-1	2.4	43	2.0	18.7
Cumberland	53.6	10-1	2.9	42	2.3	19.7
Williams 79	49.7	10-3	3.5	45	2.1	18.4
Williams	49.3	10-4	2.5	46	1.9	17.8
Williams 82	53.0	10-4	3.3	46	1.8	18.0
Elf	63.3	10-5	1.0	22	1.3	18.7
Dif. req. sig. 5%	4.9	2.0	0.5	3.3	0.7	1.1
25%	2.8	1.2	0.3	1.9	0.4	0.6

Table 14. Mead nonirrigated soybean performance. Saunders County. 1978-1981.

Entry	Grain yield, bu/A							1979-1981 average				
	1978	1979	1980	1981	1980-81 average	1979-81 average	1978-81 average	Mature date	Lodging score	Height inches	Seed quality	Grams 100 seeds
Weber	----	----	----	51.0	----	----	----	----	---	--	---	----
Corsoy 79	----	36.9	44.5	53.3	48.9	44.9	----	9-21	2.3	36	2.3	16.1
Wells II	38.2	29.9	39.5	55.4	47.5	41.6	40.8	9-21	1.3	33	2.7	17.7
Nebsoy	37.9	33.9	44.1	54.3	49.2	44.1	42.6	9-22	1.5	32	2.9	18.4
Century	----	33.4	48.6	60.0	54.3	47.3	----	9-23	1.5	31	2.9	19.5
U-56355	----	40.7	47.1	56.7	51.9	48.2	----	9-23	1.5	34	2.4	17.3
Amsoy 71	33.5	35.5	43.8	50.7	47.3	43.3	40.9	9-23	1.9	37	2.5	17.7
Beeson 80	----	35.5	49.9	54.5	52.2	46.6	----	9-24	1.8	32	2.7	19.9
Amcor	----	40.4	41.5	53.0	47.3	45.0	----	9-26	2.6	39	2.3	16.5
Mead	38.7	38.6	47.8	50.8	49.3	45.7	44.0	9-28	1.2	29	2.5	15.8
Woodworth	34.0	40.3	48.1	49.0	48.6	45.8	42.9	9-29	1.8	35	2.0	15.2
Pella	----	42.0	51.2	55.5	53.4	49.6	----	9-30	1.6	33	2.1	19.7
Will	35.9	38.6	51.2	53.7	52.5	47.8	44.9	9-30	1.5	30	2.0	17.4
Sprite	----	46.6	51.2	67.6	59.4	55.1	----	10-1	1.0	21	1.5	19.5
Hobbit	----	46.8	55.0	72.6	63.8	58.1	----	10-2	1.0	23	1.5	18.3
Oakland	34.5	39.8	45.0	54.0	49.5	46.3	43.3	10-2	1.7	35	2.4	18.3
Cumberland	38.9	34.6	48.8	53.6	51.2	45.7	44.0	10-2	1.7	32	2.6	18.6
Williams 79	36.1	36.5	48.4	49.7	49.1	44.9	42.7	10-3	2.1	35	2.2	17.2
Elf	33.3	43.1	52.2	63.3	57.8	52.9	48.0	10-3	1.0	23	1.6	17.3
Williams	34.3	36.8	53.0	49.3	51.1	46.4	43.4	10-4	1.6	35	2.2	16.5
Williams 82	----	----	----	53.0	----	----	----	----	---	--	---	----
Dif. sig. 5%	3.3	5.2	6.9	4.9	4.8	5.9	5.7	3.9	0.7	5.4	0.4	1.7
25%	----	----	----	2.8	2.8	3.4	3.3	2.2	0.4	3.2	0.2	1.0

Table 15. Lincoln nonirrigated soybean performance. Lancaster County. 1981.

Entry	Yield bu/A	Mature date	Lodging score	Height inches	Seed quality	Grams 100 seeds
Weber	63.5	9-13	2.0	34	2.0	16.2
Corsoy 79	60.8	9-14	3.3	40	2.8	17.6
Wells II	56.8	9-15	1.4	39	2.6	17.5
Nebsoy	59.5	9-16	1.6	36	3.1	18.7
U-56355	67.2	9-18	1.6	40	2.8	17.5
Century	64.4	9-21	1.9	37	2.4	19.5
Beeson 80	58.5	9-22	2.5	39	2.8	20.9
Amsoy 71	57.9	9-22	2.6	43	3.4	18.1
Amcor	61.4	9-24	3.9	44	2.8	18.2
Mead	66.6	9-24	2.0	39	2.3	17.8
Will	63.4	9-25	1.6	30	2.3	19.1
Hobbit	62.8	9-26	1.0	19	2.0	20.2
Pella	66.0	9-26	2.0	45	2.6	20.6
Woodworth	62.3	9-27	2.0	42	2.3	17.4
Oakland	64.2	9-29	2.0	39	2.9	19.9
Sprite	62.6	9-29	1.0	18	1.8	21.3
Cumberland	66.5	9-30	2.0	39	3.0	19.8
Williams 79	61.0	10-1	2.1	45	2.4	19.1
Elf	70.2	10-1	1.0	21	2.0	19.7
Williams 82	58.9	10-1	2.0	47	2.3	17.9
Williams	56.5	10-2	2.0	46	2.4	18.9
Dif. sig. 5%	7.0	1.7	0.5	3.3	0.4	1.0
25%	4.1	1.0	0.3	1.9	0.2	0.6

Table 16. Lincoln nonirrigated soybean performance. Lancaster County. 1979-1981.

Entry	Grain yield, bu/A					1979-1981 average				
	1979	1980	1981	1980-81 average	1979-81 average	Mature date	Lodging score	Height inches	Seed quality	Grams 100 seeds
Weber	----	----	63.5	----	----	----	---	--	---	----
Corsoy 79	41.8	37.4	60.8	49.1	46.7	9-16	2.8	36	2.5	17.4
Wells II	38.6	46.2	56.8	51.5	47.2	9-17	1.5	36	3.1	18.3
Nebsoy	43.9	41.6	59.5	50.6	48.3	9-18	1.7	33	3.2	19.5
U-56355	51.8	47.1	67.2	57.2	55.4	9-20	1.3	36	2.7	17.7
Century	46.8	47.6	64.4	56.0	52.9	9-22	1.6	33	2.4	19.8
Beeson 80	38.7	42.4	58.5	50.5	46.5	9-21	2.1	34	3.0	20.8
Amsoy 71	39.5	43.2	57.9	50.6	46.9	9-21	2.4	41	2.8	17.9
Amcor	36.4	38.4	61.4	49.9	45.4	9-23	2.9	39	2.7	18.1
Mead	53.9	40.8	66.6	53.7	53.8	9-25	1.5	31	2.6	17.5
Will	48.0	46.5	63.4	55.0	52.6	9-25	1.3	29	2.1	18.2
Pella	44.7	47.7	66.0	56.9	52.8	9-26	1.6	37	2.7	20.1
Woodworth	45.0	41.5	62.3	51.9	49.6	9-26	1.6	39	2.1	16.3
Hobbit	52.0	48.6	62.8	55.7	54.5	9-27	1.0	19	1.8	18.8
Oakland	44.5	38.9	64.2	51.6	49.2	9-27	1.5	36	2.7	19.6
Sprite	47.0	41.3	62.6	52.0	50.3	9-28	1.0	18	1.7	20.5
Cumberland	40.6	39.7	66.4	53.1	48.9	9-29	1.8	34	2.8	19.1
Williams 79	42.2	44.7	61.0	52.9	49.3	9-29	1.8	39	2.1	18.1
Elf	40.6	39.2	70.2	54.7	50.0	9-29	1.0	19	1.9	18.7
Williams 82	----	----	58.9	----	----	----	---	--	---	----
Williams	43.1	42.4	56.5	49.5	47.3	9-30	1.5	38	2.2	18.1
Dif. sig. 5%	9.4	N.S.	7.0	N.S.	6.0	2.8	0.5	3.8	0.4	1.2
25%	----	N.S.	4.1	N.S.	3.5	1.6	0.3	2.2	0.3	0.7

TABLE 17. SOUTHEAST SOYBEAN PERFORMANCE. NEMAHA COUNTY. EARLY ENTRIES. 1981.

BRAND	ENTRY	YIELD BU/A	YIELD %	MATURE DATE	LODGING SCORE	HEIGHT INCHES
-----	NEBSOY	48.5	99	9-14	2.0	43
MC CURDY	102+	51.3	104	9-14	3.3	48
-----	CENTURY	50.5	103	9-16	3.3	45
MIGRO	HP-2530	51.6	105	9-16	3.0	47
SRF	250	54.2	110	9-16	2.8	48
GSA	GSA 400	54.7	111	9-18	3.3	44
-----	MEAD	50.6	103	9-19	2.5	43
------	PELLA	51.6	105	9-19	3.0	47
STOCK SEED	SS-462	48.7	99	9-19	3.0	45
AGRIPRO	AP250	46.6	95	9-19	3.5	49
S BRAND	S52A	53.1	108	9-19	3.3	46
STOCK SEED	EXP-10B	53.4	109	9-20	4.0	49
-----	WOODWORTH	47.0	96	9-20	3.0	49
AGRIPRO	25	49.4	100	9-20	3.8	48
FUNK SEEDS	G-3340	53.2	108	9-20	4.3	48
HOEGEMEYER	384	53.7	109	9-20	4.0	47
HORIZON	52	53.9	110	9-20	3.0	49
LAND O' LAKES	MAX	50.1	102	9-20	4.0	46
MERSCHMAN	WASHINGTON V	47.3	96	9-20	3.8	48
S BRAND	S51	51.5	105	9-20	4.0	46
STINE	3010	52.9	108	9-20	3.5	48
TRI VALLEY	CHARGER	56.7	115	9-20	3.8	48
TRI VALLEY	CHARGER II	53.6	109	9-20	3.5	47
WILSONBLEND	3130	49.7	101	9-20	3.8	46
WILSONBLEND	3340	51.1	104	9-20	3.8	46
YOUNKERMAN	VP-3	51.5	105	9-20	3.0	48
-----	HOBBIT	56.5	115	9-21	1.8	28
-----	SPRITE	51.6	105	9-21	1.0	25
ASGROW	A3127	57.7	117	9-21	2.5	44
FONTANELLE	5454	54.5	111	9-21	3.0	49
LAND O' LAKES	LL-4104	51.6	105	9-21	4.3	47
MC CURDY	109+	47.4	96	9-21	3.5	51
MERSCHMAN	KENNEDY	53.4	109	9-21	3.5	48
MERSCHMAN	TRUMAN	52.2	106	9-21	2.8	49
S BRAND	S56	52.5	107	9-21	2.8	46
TRI VALLEY	CITATION	54.6	111	9-21	3.8	49
YOUNKERMAN	CUTLASS	55.1	112	9-21	3.3	46
YOUNKERMAN	YSC 31	51.1	104	9-21	4.0	49
-----	OAKLAND	47.2	96	9-22	3.5	47
-----	WILL	49.5	101	9-22	3.3	42
ACCO PAYMASTER	401	44.6	91	9-22	3.5	49
NORTHRUP KING	MULTIVAR 80 BRAND	47.3	96	9-22	3.0	52
-----	CUMBERLAND	51.5	105	9-23	3.3	47
-----	WILLIAMS 79	48.9	99	9-23	3.8	50
AGRIPRO	AP35	49.3	100	9-23	4.3	48
HILL SEED	HS 3750	45.8	93	9-23	4.3	50
LAND O' LAKES	GO-41	52.0	106	9-23	3.8	50
MIGRO	HP-3700	49.7	101	9-23	4.0	50
PFIZER GENETICS	CX380	49.9	101	9-23	3.3	48
VR SEEDS	BARON	48.0	98	9-23	3.8	51
VR SEEDS	VR 3393	47.7	97	9-23	3.8	52
MIDWEST OILSEEDS	3250	47.8	97	9-24	4.0	60
AVERAGE ALL ENTRIES		51.0	---	20.4	3.4	47.0
DIF. REQ. FOR SIG.	5%	5.0	---	1.0	0.6	3.1
	25%	3.0	---	0.6	0.4	1.8

Yield in bushels per acre and % of average yield of Pella, Williams 79 and Woodworth. The % yield should be used to make yield comparisons with entries in the late test in this area.

Table 18. Southeast soybean performance. Nemaha County. Early entries. 1978-1981.

Early	Yield bu/A	Yield %	Lodging score	Height inches	Grams 100 seeds
	Two-year average				
Nebsoy	37.8	95	1.5	38	13.5
Century	38.5	97	2.2	37	14.2
Mead	39.7	100	1.8	36	12.8
Pella	39.7	100	2.0	42	15.5
Woodworth	39.7	100	2.1	44	13.5
Hobbit	43.6	110	1.4	25	13.8
Sprite	39.0	98	1.0	22	16.0
Oakland	39.5	100	2.3	42	18.0
Will	43.0	108	2.2	36	14.3
Cumberland	40.5	102	2.2	41	17.1
Williams 79	39.6	100	2.4	43	15.9
Dif. req. for sig. 5%	N.S.	---	N.S.	4.0	1.1
25%	N.S.	---	N.S.	2.2	0.6
	Three-year average				
Nebsoy	37.8	89	1.6	36	14.9
Century	42.4	100	2.2	39	15.8
Mead	42.3	100	1.8	36	13.7
Pella	42.5	101	2.0	41	16.5
Woodworth	43.6	103	2.4	43	14.4
Oakland	41.5	98	2.3	41	17.8
Will	44.9	106	2.2	37	15.2
Cumberland	45.8	108	2.3	41	18.0
Williams 79	40.7	96	2.8	43	16.2
Dif. req. for sig. 5%	N.S.	---	0.6	2.3	1.7
25%	N.S.	---	0.3	1.3	0.9
	Four-year average				
Nebsoy	40.9	---	1.7	38	15.4
Mead	44.2	---	1.7	38	13.6
Woodworth	45.1	---	2.4	43	14.0
Oakland	43.3	---	2.4	42	17.3
Cumberland	47.1	---	2.4	42	17.7
Williams 79	41.8	---	2.5	45	15.9
Dif. req. for sig. 5%	N.S.	---	0.6	1.8	1.6
25%	2.8	---	0.4	1.0	0.9

% yield based on average of Pella, Williams 79 and Woodworth. This should be used to make yield comparisons with entries in the late test in this area.
Seed weight data from 1978, 1979, 1980 only.

TABLE 19. SOUTHEAST SOYBEAN PERFORMANCE. NEMAHA COUNTY. LATE ENTRIES. 1981.

BRAND	ENTRY	YIELD BU/A	YIELD %	MATURE DATE	LODGING SCORE	HEIGHT INCHES
-----	EXP. 81-5	53.5	107	9-17	2.8	45
------	PELLA	53.3	106	9-19	3.0	50
STOCK SEED	SS-793	52.8	105	9-21	3.3	46
FONTANELLE	6262	50.2	100	9-21	3.8	60
MC CURDY	ML3	49.3	98	9-21	3.8	51
SCHETTLER	TC 310	52.1	104	9-21	3.3	51
WILSONBLEND	3550	52.9	105	9-21	3.8	50
-----	EXP. 81-6	49.3	98	9-22	4.0	48
-----	WOODWORTH	49.8	99	9-22	3.8	52
WILSONBLEND	3860	55.5	111	9-22	3.0	50
-----	CUTLER 71	48.5	97	9-25	3.0	52
ASGROW	A3659	52.9	105	9-25	2.5	45
MIGRO	HP-3700	52.7	105	9-25	3.5	51
NORTHRUP KING	S 40-44	47.8	95	9-25	2.5	48
SRF	350P	49.2	98	9-25	3.8	50
YOUNKERMAN	YSC 41	53.6	107	9-25	3.5	48
-----	ELF	54.2	108	9-26	1.0	27
-----	WILLIAMS 79	47.4	94	9-26	3.8	50
ASGROW	A3860	45.1	90	9-26	3.3	46
-----	TROY	49.1	98	9-27	4.0	57
-----	WILLIAMS	46.4	92	9-27	3.0	53
AGRIPRO	AP350	50.9	101	9-27	4.0	57
FUNK SEEDS	G-3443	40.1	80	9-27	4.0	54
GSA	GSA 495	51.0	102	9-27	3.0	56
MC CURDY	500A	50.3	100	9-27	4.0	57
NORTHRUP KING	S 39-19 BRAND	50.5	101	9-27	3.3	49
SCHETTLER	TC 325	51.5	103	9-27	3.8	54
TRI VALLEY	CHARGER III	48.9	97	9-27	4.3	51
-----	EXP. 81-4	47.2	94	9-28	3.8	52
-----	LAWRENCE	43.5	87	9-28	3.0	51
MERSCHMAN	CLEVELAND	48.9	97	9-28	4.0	47
-----	UNION	47.8	95	9-29	4.3	59
TRI VALLEY	DART	45.8	91	9-29	4.0	54
YOUNKERMAN	DASHER	44.4	89	9-29	4.0	53
MERSCHMAN	RICHMOND	44.6	89	9-30	4.0	54
PFIZER GENETICS	EC1001	46.2	92	9-30	4.0	55
MIGRO	HP-4800	48.3	96	10- 1	4.0	43
STINE	4800	41.7	83	10- 1	4.0	53
ASGROW	A4268	49.1	98	10- 2	3.5	48
VR SEEDS	DELTA	39.0	78	10- 2	4.0	54
AVERAGE ALL ENTRIES		48.9	---	25.9	3.5	50.8
DIF. REQ. FOR SIG.	5%	5.2	---	1.5	0.5	4.3
	25%	3.1	---	0.9	0.3	2.5

Yield in bushels per acre and % of average yield of Pella, Williams 79, and Woodworth. The % yield should be used to make yield comparisons with entries in the early test in this area.

Table 20. Southeast soybean performance. Nemaha County. Late entries. 1978-1981.

Entry	Yield bu/A	Yield %	Lodging score	Height inches	Grams 100 seeds
	Two-year average				
Exp. 81-5	40.8	101	1.9	39	14.1
Pella	40.6	101	2.0	43	15.5
Woodworth	41.1	102	2.5	44	13.5
Elf	43.2	107	1.0	24	13.9
Williams 79	38.9	97	2.4	43	15.9
Williams	39.6	99	2.0	45	16.0
Exp. 81-4	38.8	97	2.4	44	15.6
Union	39.8	99	2.9	50	16.2
Dif. req. for sig. 5%	N.S.	---	N.S.	4.8	1.1
25%	N.S.	---	N.S.	2.5	0.6
	Three-year average				
Pella	43.1	101	2.0	42	16.5
Woodworth	44.5	104	2.6	43	14.4
Elf	46.2	108	1.3	24	14.3
Williams 79	40.2	94	2.8	43	16.2
Williams	41.9	98	2.6	45	16.1
Exp. 81-4	40.4	95	2.4	43	15.5
Dif. req. for sig. 5%	N.S.	---	N.S.	4.0	N.S.
25%	2.5	---	0.7	2.2	0.7
	Four-year average				
Woodworth	45.8	---	2.6	44	14.0
Elf	46.2	---	1.2	24	14.2
Williams 79	41.6	---	2.5	45	15.9
Williams	42.2	---	2.7	46	15.7
Dif. req. for sig. 5%	3.7	---	1.0	3.7	0.9
25%	2.0	---	0.6	2.0	0.5

% yield based on average of Pella, Williams 79 and Woodworth. This should be used to make yield comparisons with entries in the early test in this area.

Seed weight data from 1978, 1979, 1980 only.

Table 21. South Central irrigated soybean performance. Clay County. 1981.

Entry	Yield bu/A	Mature date	Lodging score	Height inches	Seed quality	Grams 100 seeds
Weber	51.3	9-15	2.5	34	1	16.2
Corsoy 79	55.5	9-16	2.5	38	1	17.2
Wells II	51.2	9-19	1.0	35	1	17.5
Nebsoy	53.0	9-20	1.5	36	1	19.7
Amsoy 71	50.8	9-21	1.5	41	1	17.6
U-56355	52.9	9-21	1.0	35	1	17.5
Beeson 80	44.9	9-24	2.0	36	1	19.4
Amcor	51.1	9-25	3.0	40	1	16.1
Century	51.3	9-26	1.5	35	1	18.2
Mead	57.4	9-28	1.0	31	1	19.3
Will	51.9	9-28	1.3	26	1	21.2
Sprite	49.0	9-29	1.0	20	1	22.9
Hobbit	56.6	9-29	1.0	20	1	21.1
Cumberland	50.3	9-30	1.3	36	1	21.0
Pella	54.7	9-30	3.0	40	1	23.2
Elf	51.5	10-1	1.0	22	1	21.6
Oakland	53.8	10-2	3.0	38	1	19.7
Woodworth	59.3	10-2	2.0	39	1	21.0
Williams 82	60.3	10-2	2.5	37	1	21.5
Williams	56.7	10-3	2.3	39	1	21.0
Williams 79	56.4	10-3	2.5	39	1	20.7
Dif. sig. 5%	N.S.	3.1	0.9	4.3	--	1.9
25%	4.8	1.8	0.5	2.5	--	1.1

Table 22. South Central irrigated soybean performance. 1978-1981.

Entry	Grain yield, bu/A							1979-1981 average			
	1978	1979	1980	1981	1980-81 average	1979-81 average	1978-81 average	Mature date	Lodging score	Height inches	Grams 100 seeds
Weber	----	----	----	51.3	----	----	----	----	---	--	----
Corsoy 79	----	51.7	52.4	55.5	54.0	53.2	----	9-15	1.7	37	16.3
Wells II	----	48.2	49.5	51.2	50.4	49.6	----	9-18	1.0	34	17.0
Amsoy 71	44.2	47.9	40.4	50.8	45.6	46.4	45.8	9-20	1.2	39	17.0
U-56355	----	----	----	52.9	----	----	----	----	---	--	----
Beeson 80	----	60.4	51.3	44.9	48.1	52.2	----	9-21	1.4	33	19.0
Amcor	----	----	44.5	51.1	47.8	----	----	----	---	--	----
Nebsoy	47.5	55.8	52.2	53.0	52.6	53.7	52.1	9-22	1.2	34	18.6
Century	----	63.6	55.9	51.3	53.6	56.9	----	9-23	1.2	32	18.0
Mead	----	----	51.8	57.4	54.6	----	----	----	---	--	----
Will	----	60.1	52.0	51.9	52.0	54.7	----	9-27	1.1	29	18.0
Sprite	----	----	34.6	49.0	41.8	----	----	----	---	--	----
Hobbit	----	----	----	56.6	----	----	----	----	---	--	----
Cumberland	48.5	58.4	54.3	50.3	52.3	54.3	52.9	9-28	1.1	35	18.9
Pella	----	69.2	56.1	54.7	55.4	60.0	----	9-28	1.7	36	20.6
Woodworth	49.6	62.5	48.4	59.3	53.9	56.7	55.0	9-28	1.5	37	17.1
Williams 82	----	----	----	60.3	----	----	----	----	---	--	----
Oakland	55.8	67.0	50.1	53.8	52.0	57.0	56.7	9-29	1.7	36	18.9
Williams	49.6	61.2	47.0	56.7	51.9	55.0	53.6	9-29	1.5	37	18.1
Williams 79	----	60.0	45.7	56.4	51.1	54.0	----	9-29	1.6	38	17.8
Elf	44.7	51.2	29.4	51.5	40.5	44.0	44.2	9-30	1.0	19	18.5
Dif. sig. 5%	N.S.	6.4	5.8	N.S.	N.S.	8.4	6.4	3.3	N.S.	4.5	2.0
25%	N.S.	3.7	3.4	N.S.	N.S.	4.8	3.6	1.8	N.S.	2.5	1.1

1978-1979 Fillmore, Clay (2 tests) Counties, 1980-1981 Clay County.

Table 23. Southwest irrigated soybean performance. Perkins County. 1981.

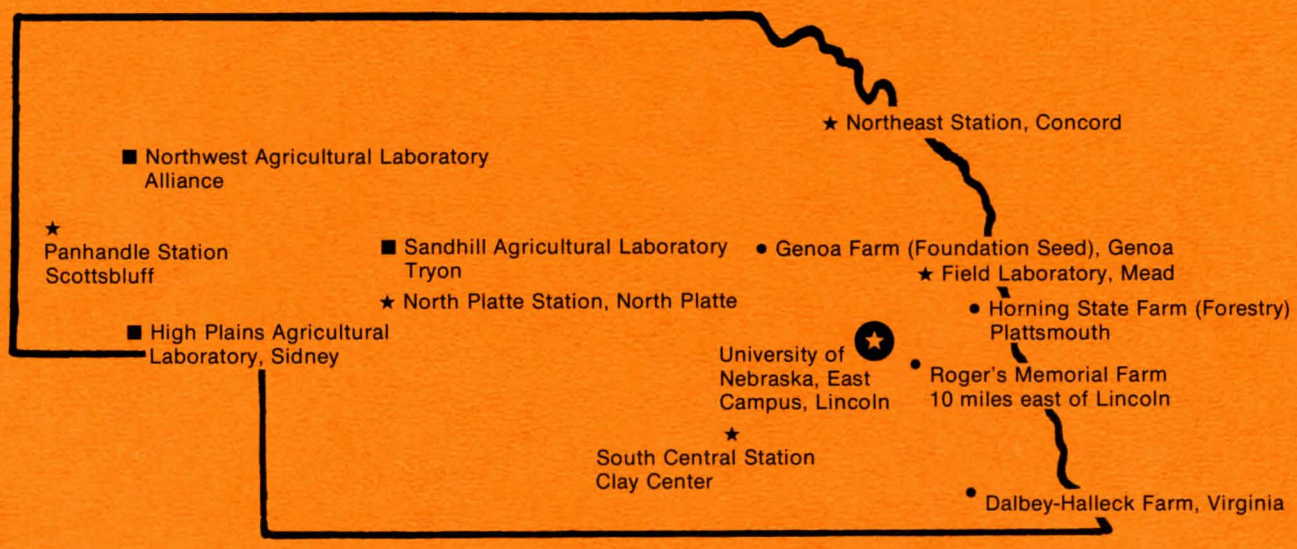
Entry	Yield bu/A	Height inches	Grams 100 seeds	Pounds/ bushel
Weber	41.1	30	10.9	52.5
Corsoy 79	42.0	30	12.8	52.3
Wells II	41.7	33	12.0	52.0
Amsoy 71	36.7	31	11.6	53.5
U-56355	40.6	32	11.5	53.5
Beeson 80	36.6	32	14.5	53.2
Nebsoy	40.3	30	12.9	53.1
Century	40.4	34	13.4	52.1
Mead	41.1	30	12.0	52.9
Will	37.0	31	13.1	54.0
Dif. req. sig. 5%	N.S.	2.7	1.0	2.1
25%	N.S.	1.5	0.6	1.2

Table 24. Southwest irrigated soybean performance. 1979-1981.

Entry	Grain yield, bu/A					1979-81 average	
	1979	1980	1981	1980-81 average	1979-81 average	Height inches	Grams 100 seeds
Weber	54.6	52.3	41.1	46.7	49.3	36	12.5
Corsoy 79	----	----	42.0	----	----	--	----
Wells II 1/	52.8	45.9	41.7	43.8	46.8	39	14.4
Amsoy 71	45.2	36.9	36.7	36.8	39.6	44	15.3
U-56355	----	----	40.6	----	----	--	----
Beeson 80	----	----	36.6	----	----	--	----
Nebsoy	50.3	43.3	40.3	41.8	44.6	35	15.7
Century	----	----	40.4	----	----	--	----
Mead	----	53.9	41.1	47.5	----	--	----
Will	----	----	37.0	----	----	--	----
Dif. sig. 5%	5.1	9.1	N.S.	N.S.	4.7	N.S.	1.6
25%	2.9	5.2	N.S.	5.2	2.4	3.4	0.8

1/ Wells in 1979-1980.
1979 Dawson County, 1980 McPherson County.

Agricultural Research for All of Nebraska



The agricultural research division of the Institute of Agriculture and Natural Resources is the Nebraska Agricultural Experiment Station. The Experiment Station relies on its research centers and field laboratories to provide applied knowledge for development of Nebraska's largest industry—agriculture. In addition, many Nebraska farmers cooperate by furnishing land and other facilities for research projects. This provides information from areas not well represented by stations.

The Cooperative Extension Service transmits data to users through District and County Extension Offices. Area and County Extension Agents are available to provide additional interpretation and more specific recommendations.

Nebraska is a large state and has great variation due to topography and the continental type of climate. The elevation ranges from 1,000 feet to near a mile high in the northwest portion of the state, rainfall varies from 14 to 40 inches per year, and the soil types vary from sands to heavy clays. The research program thus is broad in subject matter and geography, resulting in the need for various stations and satellite locations.

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