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NEBRASKA COOPERATIVE EXTENSION SERVICE—E.C. 81-104

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PERFORMANCE OF SOYBEAN VARIETIES IN NEBRASKA 1980

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Leo E. Lucas, Director

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FOREWORD

This circular is a progress report of soybean variety 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 others who assisted in the conduct of these tests. Special acknowledgment is made to Eldo Coulter for furnishing land and caring for the Nemaha County trial.

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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/]	1,780 (721)	28.0 (1883)	49,840 (1266)

[1/] Nov. 1 estimate. January estimate was 1,770,000 acres (717 000 hectares), 30 bushels per acre (2018 kg/ha) and 53,100,000 bushels (1 349 000 metric tons).

Table 1. Characteristics of soybean varieites in recent Nebraska tests.

Variety	1/ Maturity	Lodging resistance	Emergence score 2/	Color				Phytophora 3/ rating	Seeds per lb (kg) 4/
				Flower	Pubescence	Pod	Hilum		
Weber	-9	Good	Good	White	Tawny	Brown	Black	S	---- ----
Hardin	-10	Good	Good	Purple	Gray	Brown	Yellow	H	---- ----
Wells	-7	Good	Fair	Purple	Gray	Brown	Imp. black 5/	R	2430 (5360)
Wells II	-8	Good	Poor	Purple	Gray	Brown	Imp. black 5/	R+	2470 (5450)
Corsoy	-7	Fair	Good	Purple	Gray	Brown	Yellow	S	2640 (5820)
Corsoy 79	-7	Fair	Good	Purple	Gray	Brown	Yellow	R+	2700 (5950)
Harcor	-7	Fair	Good	Purple	Gray	Brown	Yellow	R	2800 (6170)
Amsoy 71	-5	Fair	Poor	Purple	Gray	Tan	Yellow	R	2530 (5580)
Nebsoy	-4	Excellent	Good	White	Gray	Brown	Buff	R	2380 (5250)
Beeson	-4	Good	Poor	Purple	Gray	Brown	Imp. black 5/	R	2230 (4920)
Beeson 80	-3	Good	Poor	Purple	Gray	Brown	Imp. black 5/	R+	2150 (4740)
Century	-3	Good	Poor	Purple	Tawny	Brown	Black	R	2290 (5050)
Gnome	-2	Excellent	Good	Purple	Brown	Tan	Black	S	2530 (5580)
Ancor	-2	Fair	Good	Purple	Gray	Brown	Yellow	R	2640 (5820)
U-16276	-1	Excellent	Poor	Purple	Tan	Brown	Black	H	2790 (6150)
Woodworth	0	Good	Poor	White	Tawny	Tan	Black	T	2980 (6570)
Pella	0	Good	Fair	Purple	Tawny	Tan	Black	R	2330 (5140)
Cumberland	+1	Good	Good	Purple	Gray	Brown	Imp. black 5/	S	2470 (5450)
Will	0	Excellent	Poor	White	Brown	Tan	Black	T	2640 (5820)
Wayne	0	Fair	Good	White	Tawny	Brown	Black	T	---- ----
Sprite	0	Excellent	Good	White	Tan	Tan	Black	S	2300 (5070)
Oakland	+1	Good	Fair	Purple	Gray	Brown	Imp. black 5/	R	2430 (5360)
Calland	+3	Fair	Good	Purple	Tawny	Brown	Black	R	---- ----
Williams 79	+4	Good	Poor	White	Brown	Tan	Black	R+	2680 (5910)
Williams	+4	Good	Poor	White	Tawny	Tan	Lt. black	T	2710 (5980)
Elf	+4	Excellent	Good	Purple	Brown	Tan	Black	S	2600 (5730)
BSR 302	+4	Fair	Good	Purple	Tan	Brown	Black	H	2670 (5890)
Union	+5	Good	Fair	White	Brown	Tan	Black	R	2670 (5890)
Culter 71	+6	Good	Poor	Purple	Tawny	Brown	Black	R	---- ----
DeSoto	+7	Good	Good	Purple	Tan	Brown	Black	S	---- ----

1/ Approximate days earlier - or later + than Woodworth, varies with season and location.
2/ Ability to emerge under stress conditions.
3/ S = susceptible, R = resistant to Races 1 & 2; R+ = resistant to Races 1,2,3,6,7,8,9; T = tolerant in field; H = heterozygous segregating.
4/ Varies greatly with season and location. Data shown are 1980 averages of irrigated and nonirrigated tests at the Mead Field Laboratory and the nonirrigated test at the Lincoln Agronomy Farm.
5/ Black with brown ring around edge.

Experiment Station soybean breeders are continuing to release new varieties. Wells II, Cumberland, Oakland, Elf, and Union were tested as named varieties in these trials beginning in 1978. Weber, Corsoy 79, Beeson 80, Century, Gnome, Amcor, Pella, Will and Williams 79 were tested as named varieties for the first time in 1979. Hardin, U-36276, Sprite, BSR 302 and DeSoto were added to the 1980 trials.

Yield summaries for some of the newer varieties follow. Most of the trials were at the Mead Field Laboratory and include narrow and wide row tests. Maturity is the number of days from planting to physiological maturity. Variety comparisons are valid only within groups. Figures in parentheses indicate the number of trials within each group. Irrigated and nonirrigated trials are not directly comparable.

Variety	Yield bu/A (kg/ha) Nonirrigated	Yield bu/A (kg/ha) Irrigated	Maturity days	Lodging score	Height inches
	(8)	(9)			
Corsoy	43.3 (2910)	45.6(3070)	121	1.8	34
Corsoy 79	46.3 (3110)	48.2(3240)	122	1.8	36
	(7)	(7)			
Beeson	45.8 (3080)	46.9(3150)	125	1.5	35
Beeson 80	43.7 (2940)	50.1(3370)	124	1.5	35
	(10)	(10)			
Wells	41.6 (2800)	44.0(2960)	121	1.3	34
Wells II	42.6 (2870)	47.1(3170)	120	1.2	34
	(8)	(11)			
Williams	42.2 (2840)	49.2(3310)	131	1.6	37
Williams 79	42.0 (2820)	48.0(3230)	130	1.6	37
	(6)	(7)			
Pella	45.1 (3030)	55.9(3760)	129	1.3	34
Will	45.0 (3030)	52.8(3550)	129	1.2	31
Woodworth	43.6 (2930)	51.8(3480)	129	1.4	35
Cumberland	43.3 (2910)	51.2(3440)	130	1.4	32
Oakland	41.4 (2780)	53.2(3580)	130	1.3	34
	(7)	(8)			
Gnome	39.4 (2650)	52.6(3540)	126	1.0	20
Sprite	44.1 (2970)	57.1(3840)	131	1.0	21
Elf	44.4 (2990)	54.0(3630)	132	1.0	21
	(8)	(9)			
Corsoy 79	46.3 (3110)	48.2(3240)	121	1.8	36
Wells II	42.0 (2820)	47.2(3170)	122	1.2	33
Beeson 80	44.7 (3010)	52.4(3520)	125	1.5	33
Nebsoy	45.2 (3040)	49.4(3320)	126	1.3	32
Century	47.5 (3190)	52.3(3520)	126	1.2	31

U-36276 is an experimental entry from the Nebraska Experiment Station. This strain has been in widespread trials for several years. It is a Group III variety which matures one day earlier than Woodworth and stands much better. It has consistently yielded more than Woodworth in Nebraska tests.

Seed of some of the newer releases may not be generally available for farm planting in 1981.

Suggested soybean varieties for Nebraska are shown in Table 2. Newly released varieties may be added to the list when adequate information becomes available. Varieties are listed in order of approximate maturity. Nebraska trials include only varieties of Experiment Station origin. Many privately developed varieties are being marketed.

Table 2. Suggested soybean varieties for Nebraska. Experiment Station releases.

Southeast	South Central	Central and Southwest*	East Central	Northeast
Nebsoy	Wells II	Wells II	Wells II	Weber
Woodworth	Corsoy 79	Corsoy 79	Corsoy 79	Wells II
Will	Amsoy 71	Amsoy 71	Amsoy 71	Corsoy 79
Pella	Nebsoy	Nebsoy	Nebsoy	Amsoy 71
Cumberland	Beeson 80	Beeson 80	Beeson 80	Nebsoy
Oakland	Century	Century	Century	Beeson 80
Williams	Woodworth	Woodworth	Woodworth	Century
Williams 79	Will	Will	Will	
Elf**	Pella	Pella	Pella	
	Cumberland	Cumberland	Cumberland	
	Oakland	Oakland	Oakland	
	Williams		Williams	
	Williams 79		Williams 79	
	Elf**		Elf**	

* Primarily on irrigated land.
** Primarily on irrigated land and/or high production environments and narrow rows.

SOYBEAN DATA

Soybean variety trials were conducted in 6 areas of Nebraska as follows:

1. Northeast
2. Mead Field Laboratory, Saunders County
3. Agricultural Experiment Station, Lancaster County
4. Nemaha County
5. South Central Station, Clay County Irrigated
6. Southwest, McPherson County Irrigated

Experiments at the Mead Field Laboratory were with and without irrigation. Other locations were nonirrigated except where noted.

Testing Procedure

Soybeans were planted in 4-row plots replicated 4 times. Rates of 8-10 beans per foot of row were used. This produces good stands under favorable conditions for emergence. Seeding rates for the varieties Elf, Gnome and Sprite were increased 50%. Row spacing varied with location and years. Recent row spacings have generally been 30 inches (76 cm).

Yields were calculated in bushels per acre at 60 pounds per bushel and 13% grain moisture. Yielding ability of different varieties cannot be measured with absolute accuracy because of variations in soil fertility, moisture and other factors. For this reason small differences in yield have little significance. Yield differences required for significance are shown in each of the data tables. Unless the difference in yield of two varieties is greater than this difference, little confidence can be placed in the superiority of one over the other in that particular test. These differences are shown at the 5% level, meaning that differences as large or larger could be expected through chance alone in 1 of 20 trials.

In many trials, varietal performance over years has been inconsistent. Early-maturing varieties were favored in some seasons and later-maturing ones in others. Variety yield differences in period-of-years averages are often nonsignificant. Since significant yield differences were obtained in individual tests, this indicates that relative varietal performance was not the same in all years included.

Northeast

Good yields were produced at the Northeast Station (Table 3). This trial was no-till planted. Several varieties had poor stands resulting from planting too deep. Frost on September 17 stopped growth. This favored earlier-maturing varieties.

Six-year yield data are shown in Table 4. Nebsoy, Corsoy and Amsoy 71 had equivalent three- and four-year average yields.

Southeast - Mead

Results of variety experiments in Saunders County are reported in Tables 5 and 6. Under dryland conditions, many varieties had equivalent yield records. Earlier varieties were lowest in yield. Excellent yields were produced under irrigation. The semidwarf varieties Sprite, Elf and Gnome were most productive under these conditions.

Irrigated and nonirrigated trial data since 1976 are included in Tables 7 and 8. Under nonirrigated conditions, variety yield differences generally were nonsignificant. Many varieties had equal yield performance. Under irrigation, variety yield differences were greater. However, relative variety performance over years was not consistent.

Southeast - Lancaster County

Data for 1980 and yield data for 1979-1980 at the Agronomy Farm are shown in Table 9. Yield levels were similar both years. Varietal yield differences were nonsignificant.

Southeast - Nemaha County

This trial was on the same field as the 1979 plot. Severe moisture stress in late July, August and September caused low yields. Varietal yield differences were not great. Will, Williams, Woodworth and Elf were highest in yield.

Period-of-years data from Nemaha County are shown in Table 11. The 1974-1980 period was one of large seasonal weather differences. Under these conditions, relative varietal performance also varied and differences in yield generally were nonsignificant in two-, three- and four-year averages.

South Central - Irrigated

Varietal yield differences were large in the 1980 test in Clay County. Pella, Century and Cumberland were highest in yield (Table 12). Lodging was not a problem.

Results of trials since 1976 are shown in Table 13. Pella, Century and Oakland were highest in two-year average yields. Oakland, Cumberland and Woodworth were most productive in 1978-1980 trials. Recent years have not favored early maturing varieties such as Amsoy 71 nor later strains such as Elf.

Southwest Irrigated

The 1980 trial was at the Sandhills Agricultural Laboratory under irrigation. Yields were good (Table 14). Long-time yield data from the general area around North Platte give an indication of the potential of soybeans as a crop.

THE METRIC SYSTEM

The United States is committed to changing to the metric system of weights and measures. This conversion will take time and there will be some confusion until the metric system becomes more familiar. Measurement data in this circular are given in commonly used U.S. units followed by the metric units in parentheses ( ).

Among the equivalents are:

1 millimeter	(mm)	= 0.0394	inches
1 centimeter	(cm)	= 0.394	inches
1 hectare	(ha)	= 2.471	acres
1 kilogram	(kg)	= 2.205	pounds
1 metric ton	(t)	= 2,204.6	pounds

Conversion factors used in this circular were as follows:

mm	= inches x 0.254
cm	= inches x 2.54
ha	= acres x 0.405
kg	= pounds x 0.454
kg/ha	= bu/A x 67.26 (60# bu)

Table 3. Dixon County soybean variety test. Nonirrigated. 1980.

Variety	Yield bu/A (kg/ha)	Mature date	Lodging score	Height in (cm)	Seed quality	Grams 100 seeds
Weber	59.1 (3980)	9-15	1.0	26 (66)	1.5	14.9
Hardin	58.3 (3920)	9-15	1.0	33 (84)	2.0	16.7
Wells II	45.7 (3070)	9-18	1.0	32 (81)	2.0	16.6
Corsoy	54.8 (3690)	9-16	1.3	32 (81)	2.0	16.1
Corsoy 79	56.3 (3790)	9-16	1.0	33 (84)	2.0	16.1
Amsoy 71	51.6 (3470)	9-23	1.5	37 (94)	2.0	15.4
Nebsoy	53.4 (3590)	9-25	1.0	29 (74)	2.3	17.6
Beeson 80	51.3 (3450)	9-25	1.0	33 (84)	2.0	17.8
Century	52.9 (3560)	9-23	1.0	29 (74)	1.9	17.2
U-36276	52.5 (3530)	9-25	1.0	30 (76)	1.8	14.9
Gnome	40.9 (2750)	9-24	1.0	21 (53)	1.6	16.9
Amcor	61.5 (4140)	9-23	1.8	36 (91)	1.9	16.4
Dif. sig.	6.4 (430)	----	0.4	3.2 (8)	0.3	1.1

Cooperator: Northeast Station
Planted: May 22, 30-inch (76 cm) rows
Harvested: October 3

Frost Sept. 17 stopped growth. Maturity estimated. Beeson, Harcor, and Woodworth were included but had poor stands, apparently caused by planting too deep.

Table 4. Northeast District soybean variety tests. Nonirrigated Dixon County. 1975-1980. No 1974 data.

Variety	Grain yield, bu/A (kg/ha)									1977-80 average		
	1975	1976	1977	1978	1979	1980	1979-80 average	1978-80 average	1977-80 average	Mature date	Lodging score	Height in (cm)
Weber	----	----	----	----	63.9 (2860)	59.1 (3980)	61.5 (4140)	----	----	9-23	1.4	32 (81)
Hardin	----	----	----	----	----	58.3 (3920)	----	----	----	----	---	--
Wells	35.6 (2390)	21.7 (1460)	52.8 (3550)	48.7 (3280)	58.0 (3900)	----	----	----	----	----	---	--
Wells II	----	----	48.2 (3240)	47.2 (3170)	57.0 (3830)	45.7 (3070)	51.4 (3460)	50.0 (3360)	49.5 (3330)	9-24	1.3	36 (91)
Corsoy	40.7 (2740)	24.8 (1670)	47.9 (3220)	51.2 (2440)	61.9 (4160)	54.8 (3690)	58.4 (3930)	56.0 (3770)	54.0 (3630)	9-22	2.1	36 (91)
Corsoy 79	----	----	----	----	64.5 (4340)	56.3 (3790)	60.4 (4060)	----	----	9-21	1.7	38 (97)
Harcor	35.7 (2400)	23.2 (1560)	49.5 (3330)	50.1 (3370)	48.8 (3950)	----	----	----	----	----	---	--
Amsoy 71	36.8 (2480)	20.2 (1360)	50.9 (3420)	47.7 (3210)	63.1 (4240)	51.6 (3470)	57.4 (3860)	54.1 (3640)	53.3 (3580)	9-28	1.8	43 (109)
Nebsoy	----	26.4 (1780)	54.0 (3630)	49.3 (3320)	61.2 (4120)	53.4 (3590)	57.3 (3850)	54.6 (3670)	54.5 (3670)	9-29	1.3	34 (86)
Beeson	39.3 (2640)	19.4 (1300)	43.8 (3950)	47.7 (3210)	58.7 (3950)	----	----	----	----	----	---	--
Beeson 80	----	----	----	----	60.0 (4040)	51.3 (3450)	55.7 (3750)	----	----	9-29	1.8	37 (94)
Century	----	----	----	----	63.9 (4300)	52.9 (3560)	58.4 (3930)	----	----	9-28	1.0	35 (89)
Goose	----	----	----	----	62.5 (4200)	40.9 (2750)	51.7 (3480)	----	----	9-28	1.0	23 (58)
Amsoc	----	----	----	----	----	61.5 (4140)	----	----	----	----	---	--
U-36276	----	----	----	----	74.2 (4990)	52.5 (3530)	63.4 (4260)	----	----	9-28	1.0	35 (89)
Wayne	29.9 (2010)	21.1 (1420)	48.5 (3260)	42.1 (2830)	----	----	----	----	----	----	---	--
Woodworth	29.4 (1980)	19.5 (1310)	50.4 (3390)	48.0 (3230)	66.9 (4500)	----	----	----	----	----	---	--
Will	----	----	----	----	65.3 (4390)	53.7 (3610)	59.5 (4000)	----	----	9-30	1.5	36 (91)
Polla	----	----	----	----	75.9 (5110)	55.8 (3750)	65.9 (4430)	----	----	9-29	1.3	37 (94)
Dif. sig.	5.8 (390)	4.4 (296)	N.S.	5.5 (370)	5.6 (377)	6.4 (430)	N.S.	3.5 (235)	3.5 (235)	4.0	N.S.	3.5 (9)

Table 5. Saunders County soybean variety test. Nonirrigated. 1980.

Variety	Yield bu/A (kg/ha)	Mature date	Lodging score	Height inches (cm)	Seed quality	Grams 100 seeds
Wells	40.4 (2720)	9-24	1.6	29 (74)	2.9	20.0
Wells II	39.5 (2660)	9-23	1.4	31 (79)	2.8	20.3
Corsoy	45.4 (3050)	9-23	2.5	33 (84)	2.5	17.9
Corsoy 79	44.5 (2990)	9-23	2.5	35 (89)	2.5	17.7
Harcor	45.1 (3030)	9-24	2.9	34 (86)	2.6	17.1
Amsoy 71	43.8 (2950)	9-24	1.9	32 (81)	2.6	19.8
Nebsoy	44.1 (2970)	9-25	1.5	27 (69)	2.9	19.6
Beeson	49.9 (3560)	9-25	1.9	30 (76)	3.1	21.8
Beeson 80	49.9 (3560)	9-25	2.0	29 (74)	3.1	22.7
Century	48.6 (3270)	9-24	1.4	26 (66)	2.6	21.3
Gnome	51.1 (3440)	9-26	1.1	21 (53)	1.6	18.3
Amcor	41.5 (2790)	9-27	3.1	37 (94)	2.3	17.7
U-36276	47.8 (3220)	9-28	1.0	26 (66)	2.5	16.1
Woodworth	48.1 (3240)	9-28	1.3	34 (86)	2.0	15.3
Will	51.2 (3440)	9-29	1.0	30 (76)	2.0	17.4
Fella	51.2 (3440)	9-29	1.4	31 (79)	2.1	20.5
Cumberland	48.8 (3280)	9-31	1.3	30 (76)	2.5	19.2
Sprite	51.2 (3440)	9-30	1.1	21 (53)	1.6	20.6
Oakland	45.0 (3030)	9-29	1.4	32 (81)	2.3	19.2
Williams	53.0 (3560)	10-2	1.3	34 (86)	2.0	16.0
Williams 79	48.4 (3260)	10-2	1.6	33 (84)	2.0	17.2
Elf	52.2 (3510)	9-30	1.0	22 (56)	1.6	16.9
BSR-302	46.7 (3140)	9-29	2.8	37 (94)	2.0	16.6
Union	44.3 (2780)	10-3	2.0	40 (102)	2.0	16.6
Dif. req. sig.	6.9 (464)	2.2	0.4	4.9 (12)	0.4	1.2

Cooperator: Mead Field Laboratory.
Planted: May 27. 30-inch (76 cm) rows.

Table 6. Saunders County soybean variety test. Irrigated. 1980.

Variety	Yield bu/A (kg/ha)	Mature date	Lodging score	Height inches (cm)	Seed quality	Grams 100 seeds
Wells	53.8 (3620)	9-25	1.5	38 (97)	3.3	16.9
Wells II	54.2 (3650)	9-24	1.4	38 (97)	2.5	16.7
Corsoy	52.0 (3500)	9-25	2.5	40 (102)	2.8	15.9
Corsoy 79	53.6 (3610)	9-25	2.9	40 (102)	2.4	15.9
Harcor	52.5 (3530)	9-27	3.0	41 (104)	2.9	15.2
Amsoy 71	48.5 (3260)	9-27	2.3	45 (114)	3.1	16.4
Nebsoy	51.2 (3440)	9-26	1.4	33 (84)	3.3	18.2
Beeson	54.4 (3660)	9-26	1.6	39 (99)	3.0	18.5
Beeson 80	51.7 (3480)	9-26	1.8	38 (97)	3.3	18.6
Century	57.2 (3850)	9-25	1.5	34 (86)	2.8	17.6
Gnome	59.1 (3980)	9-29	1.0	20 (51)	1.6	17.6
Amcor	49.2 (3310)	10-1	2.6	44 (112)	2.9	16.0
U-36276	56.4 (3790)	10-1	1.5	34 (86)	2.6	15.3
Woodworth	48.8 (3280)	10-2	1.8	41 (104)	2.1	14.7
Will	53.9 (3630)	10-3	1.5	36 (91)	2.5	16.6
Pella	50.7 (3410)	9-30	1.4	40 (102)	2.5	17.8
Cumberland	54.9 (3690)	10-3	1.6	39 (99)	2.9	18.0
Sprite	65.9 (4430)	10-2	1.0	22 (56)	1.5	18.8
Oakland	50.2 (3380)	10-2	1.5	42 (107)	2.3	17.3
Williams	46.0 (3090)	10-4	1.6	43 (109)	2.3	16.1
Williams 79	45.7 (3070)	10-3	2.1	42 (107)	2.3	16.0
Elf	62.5 (4200)	10-3	1.0	22 (56)	1.5	18.0
BSR 302	47.1 (3170)	10-4	2.6	47 (119)	2.4	17.1
Union	41.1 (2760)	10-8	2.6	47 (119)	2.3	17.0
Dif. req. sig.	5.6 (377)	1.6	0.4	3.1 (8)	0.5	1.1

Cooperator: Mead Field Laboratory.
Planted: May 27. 30-inch (76 cm) rows.

Table 7. Saunders County soybean variety tests. Semiirrigated. 1976-1980.

Variety	Grain yield, bu/A (kg/ha)								1979-80 average				
	1976	1977	1978	1979	1980	1979-80 average	1978-80 average	1977-80 average	Mature date	Lodging score	Height in (cm)	Seed quality	Grams 100 seeds
Wells	25.1 (1690)	26.4 (1780)	36.6 (2460)	33.9 (2280)	40.4 (2720)	37.2 (2500)	37.0 (2490)	34.3 (2310)	9-23	1.3	29 (74)	3.2	17.8
Wells II	----	----	38.2 (2570)	29.9 (2010)	39.5 (2660)	34.7 (2330)	33.9 (2410)	----	9-23	1.2	30 (76)	3.4	17.7
Corsoy	28.7 (1930)	24.0 (1610)	38.8 (2610)	34.8 (2340)	43.4 (3050)	40.1 (2700)	39.7 (2670)	35.8 (2410)	9-24	1.9	32 (81)	2.4	18.6
Corsoy 79	----	----	----	36.9 (2480)	44.5 (2990)	40.7 (2740)	----	----	9-24	2.0	34 (86)	2.6	16.0
Hersor	25.7 (1730)	29.2 (1960)	40.2 (2700)	39.5 (2660)	45.1 (3030)	42.3 (2850)	41.6 (2800)	38.3 (2590)	9-25	2.0	33 (84)	2.6	15.7
Amsoy 71	24.1 (1620)	31.2 (2100)	33.5 (2250)	33.5 (2280)	43.8 (2950)	39.7 (2670)	37.6 (2530)	36.0 (2420)	9-26	1.5	32 (81)	2.8	17.8
Nebsoy	23.4 (1570)	29.2 (1960)	37.9 (2550)	33.9 (2280)	44.1 (2970)	39.0 (2620)	38.9 (2600)	36.3 (2440)	9-26	1.3	30 (76)	3.2	18.0
Beeson	20.2 (1360)	33.8 (2260)	34.7 (2330)	38.2 (2570)	49.9 (3360)	44.1 (2970)	40.9 (2750)	39.1 (2630)	9-26	1.5	32 (81)	3.2	19.7
Beeson 80	----	----	----	33.3 (2390)	49.9 (3360)	42.7 (2870)	----	----	9-26	1.5	29 (74)	3.1	20.3
Century		----		33.4 (2250)	48.6 (3270)	41.0 (2760)	----	----	9-26	1.3	27 (69)	2.6	19.4
Gnome		----		34.4 (2310)	51.1 (3440)	42.8 (2880)		----	9-26	1.1	23 (58)	1.8	18.9
Amsoy		----		40.4 (2720)	41.5 (2790)	41.0 (2760)		----	9-27	2.2	35 (89)	2.4	16.6
U-36276	----		38.7 (2600)	38.6 (2600)	47.8 (3220)	43.2 (2910)	41.7 (2800)	----	9-30	1.0	25 (64)	2.7	13.4
Woodworth	16.1 (1080)	37.5 (2520)	34.0 (2290)	40.3 (2710)	48.1 (3240)	44.2 (2970)	40.8 (2740)	40.0 (2690)	9-30	1.2	31 (79)	2.2	14.8
Will	----	----	35.9 (2410)	38.6 (2600)	51.2 (3440)	44.9 (3020)	41.9 (2820)	----	10-1	1.0	28 (71)	2.2	16.7
Pella		----	----	42.0 (2820)	51.2 (3440)	46.6 (3130)	----	----	10-1	1.2	29 (74)	1.4	18.9
Cumberland		33.4 (2280)	38.9 (2620)	34.6 (2330)	48.8 (3280)	41.7 (2800)	40.8 (2740)	39.4 (2650)	10-3	1.2	28 (71)	2.7	18.1
Sprite	----	----	----	46.6 (3130)	51.2 (3440)	48.9 (3290)	----	----	10-1	1.1	21 (53)	1.8	19.2
Oakland	----	32.3 (2170)	34.3 (2320)	39.8 (2680)	45.0 (3030)	42.4 (2850)	39.8 (2680)	37.9 (2550)	10-3	1.4	31 (79)	2.6	18.2
Williams	17.8 (1200)	33.7 (2270)	34.3 (2310)	36.8 (2480)	53.0 (3560)	44.9 (3020)	41.4 (2780)	39.3 (2640)	10-4	1.2	30 (76)	2.3	15.9
Williams 79	----		36.1 (2430)	36.3 (2430)	48.4 (3260)	42.3 (2860)	40.3 (2710)		10-4	1.5	30 (76)	2.3	16.7
Elf		33.2 (2370)	33.3 (2240)	43.1 (2900)	52.2 (3510)	47.7 (3210)	42.9 (2890)	41.0 (2760)	10-3	1.0	23 (58)	1.8	16.6
BSR 302	----	----	----	----	46.7 (3140)	----	----	----	----	---	--	---	----
Union	----	39.1 (2630)	32.3 (2170)	----	44.3 (2980)		----	----	----	---	--	---	
Dif. req. sig.	3.0 (336)	6.5 (437)	3.3 (222)	5.2 (350)	6.9 (464)	5.9 (397)	N.S.	N.S.	2.5	N.S.	5.0 (13)	0.3	2.1

Tests at Mead Field Laboratory.

Table 8. Saunders County soybean variety tests. Irrigated. 1976-1980.

Variety	Grain yield, bu/A (kg/ha)								1979-80 average				
	1976	1977	1978	1979	1980	1979-80 average	1978-80 average	1977-80 average	Mature date	Lodging score	Height in (cm)	Seed quality	Grams 100 seeds
Wells	38.2 (2570)	42.7 (2870)	42.7 (2870)	34.8 (2340)	53.8 (3620)	44.3 (2980)	43.8 (2950)	43.5	9-28	1.3	33 (84)	3.2	18.7
Wells II	----	----	45.8 (3080)	34.5 (2320)	54.2 (3650)	44.4 (2990)	44.8 (3010)		9-27	1.2	33 (84)	3.0	18.4
Corsoy	43.6 (2930)	41.2 (2910)	47.7 (3210)	29.3 (1970)	52.0 (3500)	40.7 (2740)	43.0 (2890)	43.1 (2900)	9-27	1.8	35 (89)	2.8	16.0
Corsoy 79	----	----	----	33.0 (2220)	53.6 (3610)	43.3 (2910)	----	----	9-28	2.1	35 (89)	2.3	15.7
Harosoy	39.7 (2670)	42.3 (2840)	47.1 (3170)	33.0 (2220)	52.5 (3530)	42.8 (2880)	44.2 (2970)	43.7 (2940)	9-28	2.1	36 (91)	2.8	15.2
Amsoy 71	32.9 (2210)	43.1 (2900)	40.0 (2690)	34.3 (2320)	48.5 (3260)	41.5 (2790)	41.0 (2760)	41.5 (2790)	9-29	1.7	39 (99)	3.1	16.4
Nebsoy	----	49.4 (3320)	45.3 (3050)	34.0 (2290)	51.2 (3440)	42.6 (2870)	43.5 (2930)	45.0 (3030)	9-29	1.3	30 (76)	3.2	17.6
Beeson	35.2 (2370)	46.8 (3150)	38.1 (2560)	37.6 (2530)	54.4 (3660)	46.0 (3090)	43.4 (2920)	44.2 (2970)	9-29	1.3	34 (86)	3.2	18.7
Beeson 80	----	----	----	36.2 (2430)	51.7 (3480)	44.0 (2960)	----	----	9-30	1.4	32 (81)	3.4	18.4
Century	----	----	----	32.9 (2210)	57.2 (3850)	45.1 (3030)	----	----	9-29	1.3	31 (79)	2.9	17.3
Cnome	----	----	----	44.1 (2970)	59.1 (3980)	51.6 (3470)	----	----	10-1	1.0	20 (51)	1.8	17.0
Amsoy				34.7 (2330)	49.2 (3310)	42.0 (2820)	----	----	10-2	1.9	39 (99)	2.9	15.9
V-36276	----	----	44.8 (3010)	38.5 (2590)	56.4 (3790)	47.5 (3190)	46.6 (3130)	----	10-3	1.3	31 (79)	2.7	15.1
Woodworth	39.1 (2630)	45.7 (3070)	44.8 (3010)	40.7 (2740)	48.8 (3280)	44.8 (3010)	44.8 (3010)	43.0 (3030)	10-4	1.8	36 (91)	2.3	14.6
Will	----	----	45.3 (3060)	40.3 (2720)	53.9 (3630)	47.2 (3170)	46.6 (3130)	----	10-7	1.5	33 (84)	2.7	16.0
Pella			----	43.3 (2910)	50.7 (3410)	47.0 (3160)	----		10-5	1.2	35 (89)	2.8	17.8
Cumberland		51.5 (3460)	46.0 (3090)	35.6 (2390)	54.9 (3690)	45.3 (3050)	45.5 (3060)	47.0 (3160)	10-6	1.5	34 (86)	1.2	17.1
Sprite		----	----	44.7 (3010)	65.9 (4430)	55.3 (3720)	----	----	10-3	1.0	23 (58)	1.8	18.9
Oakland		45.0 (3030)	41.2 (2770)	46.0 (3090)	50.2 (3380)	48.1 (3240)	43.8 (3080)	43.6 (3070)	10-3	1.5	36 (91)	2.5	17.2
Williams	34.0 (2290)	42.7 (2870)	41.0 (2760)	41.3 (2780)	46.0 (3090)	43.7 (2940)	42.8 (2880)	42.8 (2880)	10-9	1.6	38 (97)	2.5	16.1
Williams 79			41.8 (2810)	41.1 (2760)	45.7 (3070)	43.4 (2920)	42.9 (2890)	----	10-8	1.8	38 (97)	2.6	18.0
Elf	----	41.9 (2820)	51.7 (3480)	47.8 (3220)	62.5 (4200)	55.2 (3710)	54.0 (3630)	51.8 (3430)	10-7	1.0	22 (56)	1.8	17.8
BSR 302	----	----	----	----	47.1 (3170)	----	----			----	----	----	----
Union		43.2 (2910)	37.6 (2530)	----	41.1 (2760)	----	----	----	----	----	----	----	----
Dif. req. sig.	5.3 (356)	5.2 (350)	4.4 (296)	5.6 (377)	5.6 (377)	N.S.	N.S.	N.S.	3.2	N.S.	5.7 (14)	0.4	0.6

Tests at Mead Field Laboratory.

Table 9. Lancaster County soybean variety test. Nonirrigated. 1979-1980.

Variety	1980						1979-80 average
	Yield bu/A (kg/ha)	Mature date	Lodging score	Height inches (cm)	Seed quality	Grams 100 seeds	Yield bu/A (kg/ha)
Wells	42.2 (2840)	9-20	1.8	31 (79)	3.1	18.0	37.5 (2520)
Wells II	46.2 (3110)	9-18	1.6	32 (81)	3.0	18.2	42.4 (2850)
Corsoy	37.6 (2530)	9-16	2.6	32 (81)	2.5	17.8	35.2 (2370)
Corsoy 79	37.4 (2520)	9-16	2.5	31 (79)	2.4	16.8	39.6 (2660)
Harcor	41.4 (2780)	9-18	2.8	34 (86)	3.0	16.3	41.9 (2820)
Amsoy 71	43.2 (2910)	9-22	2.4	36 (91)	2.1	17.7	41.4 (2780)
Nebsoy	41.6 (2800)	9-19	1.6	29 (74)	3.3	19.4	42.8 (2880)
Beeson	44.6 (3000)	9-22	2.0	33 (84)	3.0	20.6	46.9 (3150)
Beeson 80	42.4 (2850)	9-22	1.8	29 (74)	3.3	21.9	40.6 (2730)
Century	47.6 (3200)	9-23	1.5	29 (74)	2.4	20.6	47.2 (3170)
Gnome	42.0 (2820)	9-24	1.0	16 (41)	2.0	17.9	40.6 (2730)
Amcor	38.4 (2580)	9-22	2.8	32 (81)	2.4	17.9	37.4 (2520)
U-36276	40.8 (2740)	9-25	1.1	24 (61)	2.9	17.3	47.4 (3190)
Woodworth	41.5 (2790)	9-27	1.5	36 (91)	1.8	15.7	43.3 (2910)
Will	46.5 (3130)	9-25	1.0	28 (71)	1.8	17.6	47.3 (3180)
Pella	47.7 (3210)	9-25	1.3	30 (76)	2.5	20.2	46.2 (3110)
Cumberland	39.7 (2670)	9-28	1.5	30 (76)	2.6	17.9	40.2 (2700)
Sprite	41.3 (2780)	9-28	1.0	17 (43)	1.5	19.8	44.2 (2970)
Oakland	38.9 (2620)	9-27	1.1	32 (81)	2.8	19.6	41.7 (2800)
Williams	42.4 (2850)	9-28	1.0	31 (79)	2.0	18.1	42.8 (2880)
Williams 79	44.7 (3010)	9-29	1.4	36 (91)	2.0	17.6	43.5 (2930)
Kif	39.2 (2640)	9-25	1.0	17 (43)	1.6	17.5	39.9 (2680)
BSR-302	42.9 (2890)	9-28	2.3	39 (99)	2.1	17.3	----
Union	42.6 (2870)	9-30	1.5	35 (89)	2.3	17.4	----
Dif. req. sig.	N.S.	1.9	0.6	8.1 (21)	0.6	1.6	N.S.

Cooperator: Lincoln Agronomy Farm.
Planted: May 20. 30 inch (76 cm) rows.

Table 10. Nemaha County soybean variety test. 1980.

Variety	Yield bu/A (kg/ha)	Lodging score	Height inches (cm)	Grams 100 seeds
Amsoy 71	26.4 (1780)	1.0	37 (94)	12.5
Nebsoy	27.1 (1820)	1.0	32 (81)	13.5
Century	26.4 (1780)	1.0	32 (81)	14.2
U-36276	28.8 (1940)	1.0	29 (74)	12.8
Woodworth	32.3 (2170)	1.1	36 (91)	13.5
Will	36.4 (2450)	1.0	30 (76)	14.3
Pella	27.8 (1870)	1.0	36 (91)	15.5
Cumberland	29.5 (1980)	1.0	35 (89)	17.1
Sprite	26.3 (1770)	1.0	19 (48)	16.0
Oakland	31.8 (2140)	1.0	36 (91)	18.0
Williams	32.8 (2210)	1.0	37 (94)	16.0
Williams 79	30.3 (2040)	1.0	36 (91)	15.9
Elf	32.3 (2170)	1.0	20 (51)	13.9
BSR 302	29.6 (1990)	1.3	38 (97)	14.3
Union	31.8 (2140)	1.4	40 (102)	16.2
Desoto	31.1 (2090)	1.0	38 (97)	16.0
Dif. req. sig.	3.4 (229)	0.2	2.5 (6)	1.1

Cooperator: Eldo Coulter, Auburn
Planted: May 15. 30-inch (76 cm) rows.
Harvested: Sept. 29. All mature.

Table 11. Southeast District soybean variety tests. Nemaha County. 1974-1980. No 1977 data.

Variety	Grain yield, bu/A (kg/ha)									1979-80 average		
	1974	1975	1976	1978	1979	1980	1979-80 average	1978-80 average	1976-80 average	Lodging score	Height in (cm)	Grams 100 seeds
Amsoy 71	38.7 (2600)	26.2 (1760)	36.8 (2480)	46.6 (3130)	40.4 (2720)	26.4 (1780)	33.4 (2250)	37.8 (2540)	37.6 (2530)	2.2	42 (107)	14.5
Nebsoy	----	----	44.5 (2990)	49.9 (3360)	37.9 (2550)	27.1 (1820)	32.5 (2190)	38.3 (2580)	39.9 (2680)	1.4	33 (84)	14.9
Century	----	----	----	----	50.4 (2390)	26.4 (1780)	38.4 (2580)	----	----	1.7	36 (91)	15.8
U-36276	----	----	----	49.9 (3350)	47.6 (3200)	28.8 (1940)	38.2 (2570)	42.1 (2830)	----	1.4	33 (84)	13.7
Woodworth	46.0 (3090)	32.1 (2160)	36.6 (2460)	49.4 (3320)	51.5 (3460)	32.3 (2170)	41.9 (2820)	44.4 (2990)	42.5 (2860)	2.1	39 (99)	14.4
Will	----	----	----	----	48.7 (3280)	36.4 (2450)	42.6 (2870)	----	----	1.7	35 (89)	15.2
Pella	----	----	----	----	48.2 (3240)	27.8 (1870)	38.0 (2560)	----	----	1.5	39 (99)	16.5
Cumberland	----	----	----	51.0 (3430)	56.4 (3790)	29.5 (1980)	43.0 (2890)	45.6 (3070)	----	1.8	38 (97)	18.0
Sprite	----	----	----	----	----	26.3 (1770)	----	----	----	---	--	----
Oakland	----	----	----	48.5 (3260)	45.5 (3060)	31.8 (2140)	38.7 (2600)	41.9 (2820)	----	1.8	38 (97)	17.8
Calland	44.1 (2970)	27.2 (1830)	32.4 (2180)	42.5 (2860)	----	----	----	----	----	---	--	----
Williams	46.4 (3120)	33.1 (2230)	33.2 (2230)	42.9 (2890)	46.5 (3130)	32.8 (2210)	39.7 (2670)	40.7 (2740)	38.9 (2620)	2.4	41 (104)	16.1
Williams 79	----	----	----	45.6 (3070)	43.0 (2890)	30.3 (2040)	36.7 (2470)	39.6 (2660)	----	2.3	40 (102)	14.3
Elf	----	----	----	46.4 (3120)	52.0 (3500)	32.3 (2170)	42.2 (2840)	43.6 (2930)	----	1.4	23 (58)	16.1
BSR 302	----	----	----	----	----	29.6 (1970)	----	----	----	---	--	----
Cutler 71	44.2 (2970)	36.8 (2480)	32.9 (2210)	41.5 (2790)	----	----	----	----	----		--	----
Union	----	----	----	----	----	31.8 (2140)	----	41.4 (2780)	----	1.8	42 (107)	16.2
Desoto	----	----	----	43.7 (2940)	49.5 (3330)	31.1 (2090)	40.3 (2710)	----	----	---	--	----
Dif. req. sig.	5.0 (336)	9.2 (619)	3.9 (262)	5.7 (383)	6.5 (437)	3.4 (229)	N.S.	N.S.	N.S.	N.S.	3.4 (9)	1.9

Table 12. Clay County soybean variety test. Irrigated. 1980.

Variety	Yield bu/A (kg/ha)	Mature date	Lodging score	Height inches (cm)	Seed quality	Grams 100 seeds
Wells	23.7 (1590)	9-15	1.0	32 (81)	1	16.0
Wells II	49.5 (3330)	9-12	1.0	36 (91)	1	15.5
Corsoy	46.5 (3130)	9-10	1.0	38 (97)	1	13.8
Corsoy 79	52.4 (3520)	9-9	1.0	39 (99)	1	14.8
Harcor	39.7 (2670)	9-13	1.3	42 (107)	1	14.3
Amsoy 71	40.4 (2720)	9-13	1.0	42 (107)	1	15.5
Nebsoy	52.2 (3510)	9-13	1.0	36 (91)	1	16.3
Beeson	42.3 (2850)	9-16	1.0	37 (94)	1	15.3
Beeson 80	51.3 (3450)	9-12	1.0	35 (89)	1	17.5
Century	55.9 (3760)	9-14	1.0	33 (84)	1	16.0
Gnome	33.8 (2270)	9-22	1.0	18 (46)	1	15.3
Amcor	44.5 (2990)	9-16	1.3	43 (109)	1	14.5
U-36276	51.8 (3480)	9-21	1.0	34 (86)	1	13.5
Woodworth	48.4 (3260)	9-21	1.0	39 (99)	1	13.8
Will	52.0 (3500)	9-21	1.0	32 (81)	1	14.8
Pella	56.1 (3770)	9-20	1.0	37 (94)	1	17.5
Cumberland	54.3 (3650)	9-22	1.0	38 (97)	1	15.8
Sprite	34.6 (2330)	9-23	1.0	17 (43)	1	16.0
Oakland	50.1 (3370)	9-21	1.0	37 (94)	1	16.3
Williams	47.0 (3160)	9-19	1.0	39 (99)	1	14.8
Williams 79	45.7 (3070)	9-22	1.0	41 (104)	1	14.3
Elf	29.4 (1980)	9-24	1.0	16 (41)	1	16.0
BSR 302	45.5 (3060)	9-21	1.0	44 (112)	1	15.0
Dif. req. sig.	5.8 (390)	3.3	0.1	4.6 (12)	-	1.8

Cooperator: South Central Station.
Planted: May 22, 30-inch (76 cm) rows. Furrow irrigated.

Table 13. South Central District soybean variety tests. Irrigated. 1976-1980.

Variety	Grain yield, bu/A (kg/ha)								1979-80 average			
	1976	1977	1978	1979	1980	1979-80 average	1978-80 average	1977-80 average	Mature date	Lodging score	Height in (cm)	Grams 100 seeds
Wells	50.1 (3370)	48.7 (3280)	47.8 (3220)	47.7 (3210)	23.7 (1590)	35.7 (2400)	39.7 (2670)	42.0 (2810)	9-19	1.1	31 (79)	17.2
Wells II	----	----	----	48.2 (3240)	49.5 (3330)	48.9 (3280)	----	----	9-18	1.1	33 (84)	16.8
Corsoy	34.3 (2310)	50.9 (3420)	43.0 (2890)	46.2 (3110)	46.5 (3130)	46.4 (3120)	45.2 (3040)	46.7 (3140)	9-15	1.2	35 (89)	13.5
Corsoy 79	----	----	----	51.7 (3480)	52.4 (3520)	52.1 (3500)	----		9-15	1.3	37 (94)	13.8
Harcor	39.8 (2680)	55.7 (3750)	43.5 (2930)	48.7 (3280)	39.7 (2670)	44.2 (2970)	44.0 (2960)	46.9 (3150)	9-18	1.5	38 (97)	15.7
Amsoy 71	44.1 (2970)	58.5 (3930)	44.2 (2970)	47.9 (3220)	40.4 (2720)	44.2 (2970)	44.2 (2920)	47.8 (3220)	9-19	1.1	39 (99)	16.7
Bebeny	----	----	47.5 (3190)	55.8 (3750)	52.2 (3510)	54.0 (3630)	51.8 (3480)	----	9-23	1.1	33 (84)	18.1
Beeson	50.5 (3400)	47.8 (3220)	39.9 (2680)	55.0 (3700)	42.3 (2850)	48.7 (3280)	45.7 (3070)	46.1 (3110)	9-22	1.2	35 (89)	17.7
Beeson 80	----	----	----	60.4 (4060)	51.3 (3450)	55.9 (3760)	----		9-20	1.2	32 (81)	18.9
Century		----		63.6 (4280)	55.9 (3760)	59.8 (4020)		----	9-22	1.0	31 (79)	17.9
Omaha	----	----	----		33.8 (2270)		----	----		----	--	
Amcor		----		----	44.5 (2990)	----		----	----	----	--	----
U-36276	----		----		31.8 (2460)		----		----	----	--	----
Woodworth	56.7 (3810)	66.7 (4480)	49.8 (3340)	62.5 (4200)	48.4 (3260)	55.3 (3730)	53.5 (3600)	56.8 (3820)	9-27	1.2	36 (91)	15.2
Will	----	----	----	60.1 (4040)	52.0 (3500)	56.1 (3770)	----	----	9-27	1.1	31 (79)	16.5
Felix	----	----	----	69.2 (4650)	56.1 (3770)	62.7 (4220)	----		9-27	1.1	35 (89)	19.3
Cumberland			48.5 (3260)	58.4 (3930)	54.3 (3650)	56.4 (3790)	53.7 (3610)	----	9-27	1.1	34 (86)	17.9
Sprite			----	----	34.6 (2330)	----	----	----	----	----	--	
Oakland	----		55.8 (3750)	67.0 (4510)	50.1 (3370)	58.6 (3940)	57.6 (3870)	----	9-28	1.1	35 (89)	18.4
Williams	48.3 (3250)	59.9 (4030)	49.6 (3340)	61.2 (4120)	47.0 (3160)	54.1 (3640)	52.6 (3540)	54.4 (3660)	9-27	1.2	37 (94)	16.7
Williams 79	----	----		60.0 (4040)	43.7 (3070)	52.9 (3560)			9-28	1.2	38 (97)	16.4
Elf			44.7 (3010)	51.2 (3440)	29.4 (1980)	40.3 (2710)	41.8 (2810)	----	9-30	1.0	18 (46)	17.0
Dif. req. sig.	9.6 (646)	8.1 (545)	N.S.	6.4 (430)	5.8 (390)	10.5 (706)	8.9 (599)	7.3 (491)	7.8	N.S.	4.2 (11)	1.2

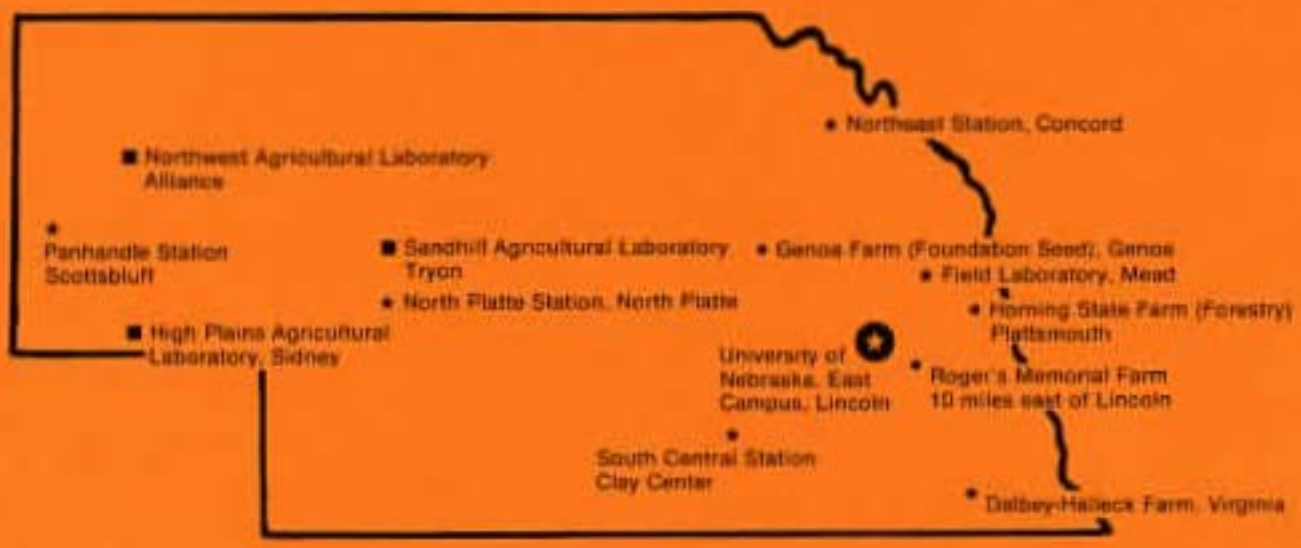
1976- Clay County, 1977 Fillmore County; 1978-1979 Fillmore, Clay (2 tests) Counties, 1980 Clay County.

Table 14. Southwest District soybean variety tests. Irrigated. 1971-1980. No data 1972, 1973, 1976, 1978.

Variety	Grain yield, bu/A (kg/ha)									1980	
	1971	1974	1975	1977	1979	1980	1979-80 average	1977-80 average	1975-80 average	Height in (cm)	Grams 100 seeds
Weber	----	----	----	----	54.6 (3670)	52.3 (3520)	53.5 (3600)	----	----	33 (84)	13.9
Wells	----	36.4 (2450)	44.2 (2970)	46.9 (3150)	52.8 (3550)	45.9 (3090)	49.4 (3320)	48.5 (3260)	47.5 (3190)	37 (94)	16.7
Corsoy	45.2 (3110)	42.2 (2840)	46.4 (3120)	39.6 (2660)	48.4 (3260)	----	----	----	----	--	----
Harcor	----	----	48.3 (3250)	54.3 (3650)	48.5 (3260)	48.3 (3250)	48.4 (3260)	50.4 (3390)	49.9 (3360)	38 (97)	15.6
Amsoy 71	48.6 (3270)	39.7 (2670)	46.3 (3110)	53.0 (3560)	45.2 (3040)	36.9 (2480)	41.1 (2760)	45.0 (3030)	45.4 (3050)	44 (112)	17.9
Nebsoy	----	----	----	----	50.3 (3380)	43.3 (2910)	46.8 (3150)	----	----	33 (84)	18.3
Beeson	49.7 (3340)	35.4 (2380)	45.1 (3030)	48.5 (3260)	42.1 (2830)	----	----	----	----	--	----
Gnome	----	----	----	----	----	50.4 (3390)	----	----	----	27 (69)	15.4
U-36276	----	----	----	----	----	53.9 (3630)	----	----	----	37 (94)	15.3
Wayne	37.7 (2540)	35.3 (2370)	37.9 (2550)	48.6 (3270)	----	----	----	----	----	--	----
Woodworth	----	34.8 (2340)	39.6 (2660)	51.7 (3480)	42.8 (2880)	41.7 (2800)	42.3 (2850)	45.4 (3050)	44.0 (2960)	36 (91)	14.9
Dif. sig.	N.S.	4.4 (296)	5.9 (397)	7.1 (478)	5.1 (434)	9.1 (610)	6.4 (430)	N.S.	N.S.	2.6 (7)	0.7

1971 Lincoln County; 1974 Frontier County; 1975 Dawson County; 1977 Lincoln County; 1979 Dawson County; 1980 McPherson County.

Agricultural Research for All of Nebraska



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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.

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