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1989 Variety Recommendations : Soybeans

Cooperative Extension, South Dakota State University

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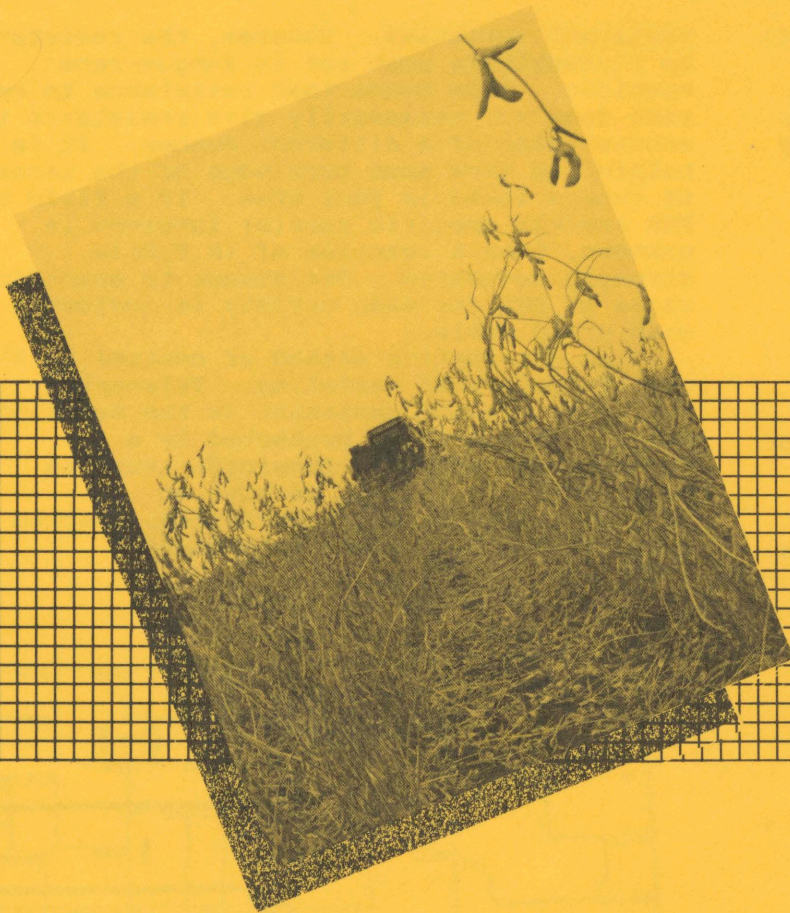


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EC 775

1989 variety recommendations (1988 crop performance results)

soybeans

Cooperative Extension Service • South Dakota State University • U.S. Department of Agriculture

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EC 775 c.2

1st level

1989 SOYBEAN VARIETY RECOMMENDATIONS

These recommendations are based on data and information obtained from the South Dakota Crop Performance Testing Program and other regional nurseries maintained by other land-grant colleges in the Midwest. Variety performance is dependent on genetics and environment. Environmental factors such as temperature, moisture, plant pests, soil fertility, soil type, and the farmer's management practices influence variety performance. Farmers should note that the performance of recommended varieties in response to environmental conditions is generally better than the performance of other varieties. However, the better performance of the recommended variety cannot be guaranteed due to complex variety-by-environmental interactions.

Phytophthora root rot (PRR) has become an important soybean disease in South Dakota. The disease can be controlled by the use of

resistant varieties. However, the resistance to Phytophthora root rot is fungus-race specific. This means that resistance to one race does not necessarily give resistance to another race of a different number. It is helpful to have some knowledge of the races of fungus found in your area. If a field has PRR and the specific race(s) involved is unknown, then a reaction of (R,R,R) is strongly suggested. Resistance to specific races of PRR for each variety is indicated in each yield table.

An alternative method of control is the use of "tolerant" varieties. Tolerant varieties are not resistant in the seedling stage. They must be protected by a Phytophthora specific fungicide (such as metalxyl). As of yet, we have no information as to which varieties, adapted to this region, have field tolerance.

| | |
|-------------------------------|-----------------------------|
| <u>Recommended*</u> | <u>Acceptable/Promising</u> |
| Variety (R1,R3,R4 reaction)** | Variety (R1,R3,R4 reaction) |

Maturity Group - 0

Arrowhead 8450 (R,X,X)
Dassel (R,R,R)
Dawson (R,S,S)
Glenwood (R,S,S)

Mustang M-1000 (R,X,X)
N. King B095 (S,S,S)
Sands SOI 059 (R,S,S)
Sigco 80 (R,X,X)
Simpson (R,S,S)

Maturity Group - I

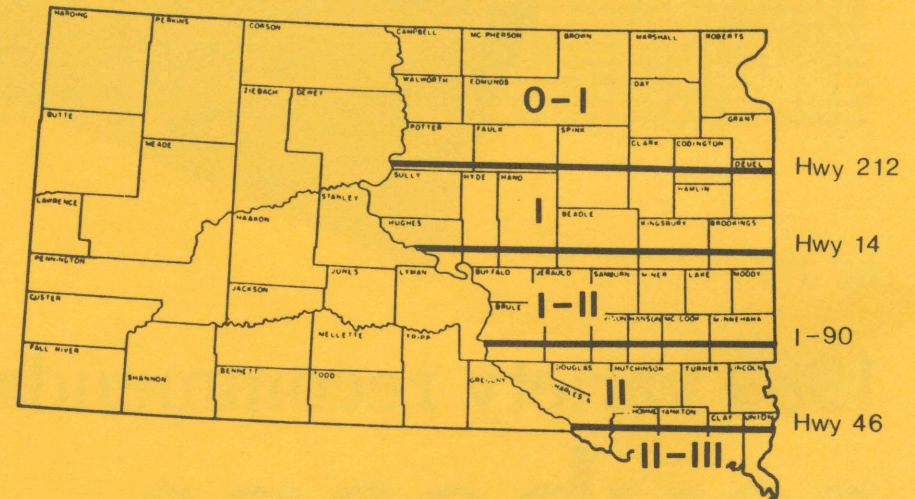
AgriPro AP1776 (R,S,S)
BSR 101 (R,S,S)
Hardin (R,S,S)
Hodgson 78 (R,S,S)
Sibley (R,S,S)
Weber 84 (R,S,S)

Hoegemeyer 150 (R,X,X)
N. King S 14-60 (S,S,S)
Sands SOI 142 (R,S,S)
SOI 166 (S,S,S)
Terra Runner III (R,X,X)

Maturity Group - II

Century 84 (R,R,R)
Corsoy 79 (R,R,S)

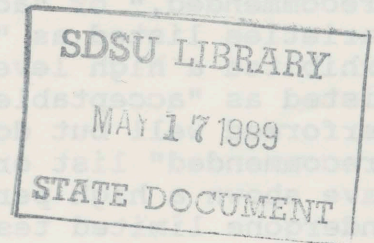
DeKalb CX226 (X,X,X)
DeKalb CX264 (X,X,X)
Elgin (S,S,S)
Golden Harvest H-1233 (S,S,S)
Lincoln LS7221 (X,X,X)
N. King S 23-03 (S,S,S)



* All recommended varieties are resistant to the race 1 of PRR
** Reaction of the variety to race 1 (R1), race 3 (R3), and race 4 (R4) of the *Phytophthora* root rot (PRR) disease. R = resistant, M = mixed, S = susceptible, X = data not available.

1988 SOUTH DAKOTA VARIETY CHARACTERISTICS
AND YIELD DATA - SOYBEANS

Robert G. Hall, Extension Agronomist - Crops
Joseph J. Bonnemann, Assistant Professor - Crop Testing
Paul D. Evenson, Statistician



Successful soybean production is greatly affected by variety selection for a given growing area. This publication contains variety recommendations, descriptions, and yield data for soybeans.

Important factors in variety selection include yield, maturity, plant height, lodging resistance, and Phytophthora root rot resistance (See SDSU Soybean Traits Evaluated--All Entries, page 3). In the case of public varieties, additional information is available which may aid farmers in variety selection. Such information includes relative maturity, emergence, shattering, and iron chlorosis scores (see Regional Soybean Traits Evaluated--Public Entries, page 3).

VARIETY RECOMMENDATIONS

Variety recommendations (inside cover) are made annually by the Plant Science Department Variety Recommendation Committee. Recommendations for a given variety may vary from one maturity zone to another. Maturity zones (see map) are based on day length. Soybean varieties are recommended on the basis of growing season, average rainfall, disease frequency, and farming practices that are common to a given maturity zone.

It is important to note that soybean

varieties are classified according to various maturity groups. Maturity grouping is greatly influenced by latitude. Consequently, maturity group-00 varieties are best suited to Canada and extreme northern regions of the U.S., while maturity group-0 to early group-III varieties are suited to South Dakota, and group-IV through group-VIII varieties are suited to Iowa, Nebraska, and southward to the Gulf States.

Note that for some maturity zones, there may be transition zones where varieties of two maturity groups may perform similarly. In most cases, an earlier maturity group may be seeded in a zone suited to a late maturity group. Generally, this is only practical where seeding has been delayed or some type of double cropping is used.

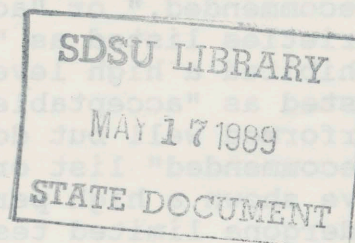
In many cases, farm location and management skills in one maturity zone resemble those in another zone. Therefore, farmers should regard this fact when considering these recommendations.

A variety, either public or private, must be evaluated according to the minimum requirements discussed in Recommendation Procedures (page 3) before it is eligible for recommendation.

Varieties are classified as

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The Variety Recommendations Committee consists of the Plant Science Department Head, Extension agronomists and plant pathologists, plant breeders, research agronomists and plant pathologists, and representatives from the State Seed Laboratory, Seed Certification Service, and the Foundation Seed Stocks Division.

The efforts of K.K. Kirby and L. Elder at Brookings in obtaining the soybean data and the comments regarding Phytophthora Root Rot races and race resistance and tolerance by Plant Science Department Plant Pathologists are gratefully acknowledged.

GENERAL TEST PROCEDURES

Recommendation Procedures: Recommendations at both public and private varieties are based on a minimum of 3 years and 5 location-years for variety, yield, moisture, and maturity. The variety characteristics of height, protein, oil content, disease reactions, and lodging are considered when information is available.

Test Procedures: Standard 30-inch row spacings are used at all locations. Adjustments in seeding rates, on a pure-live-seed basis, are made to attain a final population of 150,000 plants per acre for all varieties and locations. All test plots consist of 2-row plots, 13 feet long, with four replications. Varieties are inoculated and a granular herbicide is banded over the row behind the press wheel. Additional herbicides and fertilization are dependent on each farm cooperator. NOTE: The disease Rhizoctonia and drought stress resulted in a variable soybean stand ranging from 25 to 100% in both the dryland and irrigated tests at Redfield.

SDSU SOYBEAN TRAITS EVALUATED--ALL ENTRIES

Yield: Plots are harvested at 15% seed moisture or less and dried. Yields are calculated on a 13% moisture content basis and expressed in bushels per acre.

Maturity: Entries are considered mature when 95% of the pods have turned brown.

Height: Height is measured from the soil surface to the top node of the main stem.

Lodging Score: Scores at maturity are based on average erectness of the main stem of plants within variety and location. 1 = all plants erect, 2 = slight lodging, 3 = lodging at a 45 degree angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora: Resistance of entries to race 1 is supplied by the entrant (private) or obtained from the USDA Uniform Soybean Tests, Northern States (public). Entries were designated as R = all plants resistant, S = all plants susceptible, M = mixture of resistant and susceptible plants, and X = data not available.

REGIONAL SOYBEAN TRAITS--PUBLIC ENTRIES

Regional evaluations of public soybean variety characteristics are conducted annually and reported by USDA as the Uniform Soybean Test, Northern States (Table 1). Character evaluations and locations include maturity (Brookings, SD), emergence (Ames, IA), shattering (Manhattan, KS), and iron chlorosis (Rosemount - Group 0, Waseca - Group I and II, and Lamberton - Group III, MN). A discussion of these characteristic evaluations follows.

Maturity: Date when 95% of the pods have ripened. Maturity in days is reported as the number of days that a variety is earlier (-) or later (+) than Corsoy 79.

Emergence: Indicates the percentage of seeds which emerge after 12 days from a 4 1/2-inch depth in sand maintained at 77 F. Scores include 1 = more than 85% emerged, 2 = 70-84% emerged, 3 = 45-69% emerged, 4 = 20-44% emerged, and 5 = 0-19% emerged. A score of 4 or 5 indicates the variety exhibits

slow emergence. Such a score does not mean the variety will perform poorly. **Shattering:** Indicates the percent of the pods that are open 2 weeks after maturity. Scores include 1 = no shattering, 2 = 1-10% shattered, 3 = 11-25% shattered, 4 = 26-50% shattered, and 5 = over 50% shattered.

Iron Chlorosis: Susceptibility is evaluated on high pH soils and range from 1 = little or no yellowing to 3 = moderate yellowing to 5 = severe yellowing.

TABLE 1. SOME CHARACTERISTICS OF THE PUBLIC SOYBEAN VARIETIES INCLUDED IN THE 1986 SOUTH DAKOTA CROP PERFORMANCE TESTS (DATA OBTAINED FROM THE UNIFORM SOYBEAN TESTS - NORTHERN STATES)

| VARIETY | --MATURITY-- | | -----SCORE----- | | |
|-------------|--------------|-------|-----------------|-----------------|-------------------|
| | DAYS | GROUP | EMER- GENGE | SHATTER- ING | IRON CHLOROSIS |
| McCall | -24 | 00 | 1 | 1 | 2.8 |
| Ozzie | -15 | 0 | 5 | 1 | 2.6 |
| Evans | -14 | 0 | 1 | 2 | 2.8 |
| Dawson | -12 | 0 | 1 | 1 | 1.6 |
| Swift | -12 | 0 | 2 | 3 | 2.7 |
| Simpson | -11 | 0 | 1 | 2 | 2.8 |
| Glenwood | -11 | 0 | 2 | 1 | 3.0 |
| Dassel | -9 | 0 | 3 | 1 | 3.5 |
| Hodgson 78 | -6 | I | 5 | 2 | 2.4 |
| Sibley | -6 | I | 2 | 1 | 4.0 |
| Hardin | -3 | I | 1 | 1 | 3.8 |
| Lakota | -3 | I | 2 | 1 | 1.2 |
| BSR 101 | -2 | I | 1 | 2 | 3.2 |
| Weber | -2 | I | 2 | 1 | 2.2 |
| Weber 84 | -1 | I | 1 | 1 | 2.2 |
| Corsoy 79 | 0 | II | 1 | 2 | 4.4 |
| Elgin 87 | 0 | II | 5 | 1 | 4.0 |
| Elgin | 0 | II | 5 | 2 | 2.2 |
| BSR 201 | +1 | II | 3 | 2 | 4.8 |
| Wells II | +1 | II | 4 | 3 | 3.8 |
| Hack | +1 | II | 5 | 1 | 4.0 |
| Miami | +1 | II | 1 | 3 | 3.6 |
| Century 84 | +2 | II | 5 | 2 | 4.6 |
| Harcor | +2 | II | 1 | 3 | 5.0 |
| Platte | +2 | II | 5 | 2 | 4.0 |
| Preston | +2 | II | 2 | - | 4.0 |
| Hoyt** | +3 | II | 2 | 1 | 4.0 |
| Nebsoy | +3 | II | 1 | 3 | 4.0 |
| Beeson 80 | +5 | III | 5 | 2 | 1.0 |
| Century | +5 | II | 4 | 2 | 2.5 |
| Amcor | +6 | II | 1 | 3 | 4.0 |
| Gnome** | +7 | II | 1 | 1 | 3.6 |
| Fremont | +8 | III | 3 | 1 | 3.0 |
| Zane | +9 | III | 5 | 2 | 4.4 |
| Logan | +10 | III | 5 | 1 | 4.0 |
| Will | +10 | III | 5 | 1 | 4.0 |
| Mead | +12 | III | 5 | 3 | 4.5 |
| Pella | +12 | III | 3 | 1 | 3.4 |
| Winchester | +12 | III | 1 | 1 | 4.2 |
| Williams 82 | +12 | III | 2 | 1 | 4.2 |
| Cumberland | +13 | III | 4 | 1 | 4.5 |
| Sherman | +13 | III | 5 | 2 | 3.5 |
| Harper | +14 | III | 5 | 1 | 4.2 |
| Harper 87 | +14 | III | 5 | 1 | 4.0 |
| Chamberlain | +14 | III | 2 | 1 | 1.5 |
| Sparks | +15 | IV | 3 | 2 | --- |

*See description of evaluation methods.
**Indicates a semidwarf variety.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
ROBERT QUADE FARM (WILMOT), SEEDED MAY 26, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-----------------|-------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | MC CALL CK* | 00 | 96 | 24 | . | S*** | S | S | 17 | 28 |
| ----- | EVANS | 0 | 102 | 24 | . | R | S | S | 22 | 33 |
| ----- | OZZIE | 0 | 105 | 23 | . | R | S | S | 24 | 33 |
| ----- | SWIFT | 0 | 105 | 30 | . | S | S | S | 25 | 35 |
| SIGCO | 80 | 0 | 106 | 28 | . | R | X | X | 27 | . |
| INTERSTATE | IS546 | 0 | 105 | 27 | . | R | S | S | 28 | . |
| ----- | DASSEL | 0 | 110 | 26 | . | R | R | R | 29 | 35 |
| PIONEER | 9091 | 0 | 112 | 25 | . | S | X | X | 29 | . |
| NORTHRUP KING | B095 | 0 | 112 | 31 | . | S | S | S | 30 | 37 |
| INTERSTATE | IS598 (BL) | 0 | 113 | 30 | . | M | S | S | 31 | . |
| ----- | SIMPSON | 0 | 107 | 29 | . | R | S | S | 31 | 37 |
| ARROWHEAD | 8300 | 0 | 112 | 27 | . | S | X | X | 32 | . |
| STINE | 0980 | 0 | 112 | 25 | . | S | S | S | 32 | . |
| MUSTANG | M-1050 | 0 | 114 | 28 | . | X | X | X | 33 | . |
| ----- | GLENWOOD | 0 | 109 | 23 | . | R | S | S | 33 | 41 |
| MUSTANG | M-1000 | 0 | 114 | 31 | . | R | X | X | 33 | 40 |
| ASGROW | A0949 | 0 | 112 | 27 | . | R | R | S | 33 | 40 |
| ARROWHEAD | 8450 | 0 | 109 | 28 | . | R | X | X | 33 | 40 |
| INTERSTATE | IS715 | 0 | 112 | 28 | . | R | S | S | 34 | . |
| PIONEER | 9061 | 0 | 106 | 24 | . | R | X | X | 34 | . |
| ----- | SIBLEY CK | I | 112 | 29 | . | R | S | S | 35 | . |
| ----- | DAWSON | 0 | 105 | 26 | . | R | S | S | 38 | 40 |

MATURITY GROUP MEAN 30 37
MATURITY GROUP LSD (5%) 8 6

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
ROBERT QUADE FARM (WILMOT), SEEDED MAY 26, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-----------------|--------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| SEEDTEC | 410B (BL) | I | 114 | 23 | . | X*** | X | X | 26 | . |
| STINE | 1910 | I | 115 | 25 | . | S | S | S | 26 | . |
| NORTHRUP KING | B117 | I | 115 | 31 | . | S | S | S | 28 | . |
| INTERSTATE | IS758 (BL) | I | 116 | 26 | . | M | S | S | 28 | . |
| ARROWHEAD BRAND | 8550 | I | 115 | 24 | . | R | M | X | 28 | . |
| INTERSTATE | IS622 | I | 116 | 25 | . | S | S | S | 28 | . |
| SANDS | S01 142 | I | 116 | 25 | . | R | S | S | 29 | 39 |
| ----- | DAWSON CK* | O | 106 | 24 | . | R | S | S | 29 | . |
| ----- | LAKOTA | I | 116 | 34 | . | R | S | S | 30 | 38 |
| ----- | HODGSON 78 | I | 115 | 28 | . | R | S | S | 30 | 34 |
| MUSTANG | M-1120 | I | 117 | 28 | . | X | X | X | 30 | . |
| ARROWHEAD BRAND | 8600 | I | 117 | 28 | . | S | M | X | 30 | . |
| ----- | SIBLEY | I | 116 | 29 | . | R | S | S | 30 | 37 |
| ----- | BSR 101 | I | 118 | 30 | . | R | S | S | 31 | 35 |
| AGRIPRO | AP1650 | I | 116 | 25 | . | R | S | S | 31 | . |
| MUSTANG | M-1150 | I | 117 | 27 | . | X | X | X | 32 | . |
| AGRIPRO | AP1776 | I | 117 | 26 | . | R | S | S | 32 | 38 |
| MUSTANG | M-1180A (BL) | I | 117 | 28 | . | S | S | S | 32 | . |
| ----- | HARDIN | I | 116 | 27 | . | R | S | S | 32 | 37 |
| ----- | CORSOY 79 CK | II | 120 | 31 | . | R | R | S | 32 | 36 |
| ----- | WEBER 84 | I | 119 | 29 | . | R | S | S | 33 | 37 |
| DEKALB | CX117 | I | 115 | 24 | . | X | X | X | 34 | . |
| SEEDTEC | 1157 | I | 117 | 26 | . | X | X | X | 34 | . |

| | | | | | | | | | | |
|-------------------------|--|--|--|--|--|--|--|--|-----|-----|
| MATURITY GROUP MEAN | | | | | | | | | 30 | 37 |
| MATURITY GROUP LSD (5%) | | | | | | | | | #NS | #NS |

*BL = BLEND, CK = CHECK VARIETY.
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 #NS INDICATES THESE ARE NO SIGNIFICANT DIFFERENCES AMONG VARIETIES.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
NORTHEAST RESEARCH FARM (WATERTOWN), SEEDED MAY 19, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | EVANS | 0 | 105 | 21 | . | R | S | S | 12 | 33 |
| ----- | OZZIE | 0 | 107 | 19 | . | R | S | S | 14 | 33 |
| ----- | DASSEL | 0 | 109 | 20 | . | R | R | R | 17 | 32 |
| NORTHRUP KING | S 06-57 | 0 | 111 | 23 | . | R | R | S | 17 | . |
| INTERSTATE | IS546 | 0 | 109 | 21 | . | R | S | S | 17 | . |
| ----- | GLENWOOD | 0 | 110 | 18 | . | R | S | S | 18 | 37 |
| ----- | SWIFT | 0 | 109 | 22 | . | S | S | S | 18 | 36 |
| ARROWHEAD | 8300 | 0 | 111 | 23 | . | S | X | X | 18 | . |
| ----- | SIBLEY CK | 1 | 114 | 21 | . | R | S | S | 19 | . |
| PIONEER | 9091 | 0 | 110 | 20 | . | S | X | X | 19 | . |
| INTERSTATE | IS598 (BL) | 0 | 112 | 22 | . | M | S | S | 19 | . |
| ----- | DAWSON | 0 | 110 | 21 | . | R | S | S | 19 | 37 |
| INTERSTATE | IS715 | 0 | 114 | 21 | . | R | S | S | 20 | . |
| SCHWITTERS | SIoux | 0 | 112 | 22 | . | R | X | X | 21 | . |
| ----- | SIMPSON | 0 | 112 | 23 | . | R | S | S | 21 | 34 |
| ARROWHEAD | 8450 | 0 | 110 | 22 | . | R | X | X | 21 | 35 |
| NORTHRUP KING | B095 | 0 | 114 | 23 | . | S | S | S | 21 | 38 |
| MUSTANG | M-1050 | 0 | 115 | 22 | . | X | X | X | 22 | . |
| MUSTANG | M-1000 | 0 | 116 | 23 | . | R | X | X | 23 | 37 |
| Maturity Group Mean | | | | | | | | | 18 | 36 |
| Maturity Group LSD (5%) | | | | | | | | | 3 | #NS |

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|-----------------|--------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ARROWHEAD BRAND | EXP-555 | I | 114 | 19 | . | S*** | M | X | 17 | . |
| ----- | DAWSON CK* | O | 109 | 21 | . | R | S | S | 17 | . |
| SANDS | SO1 142 | I | 119 | 20 | . | R | S | S | 18 | 34 |
| ----- | BSR 101 | I | 120 | 24 | . | R | S | S | 18 | 31 |
| SEXAUER | EX 1050 | I | 118 | 22 | . | R | R | X | 19 | . |
| PIONEER | 9111 | I | 116 | 19 | . | S | X | X | 19 | . |
| SCHWITTERS | IROQUOIS | I | 115 | 23 | . | R | X | X | 19 | . |
| LINCOLN | EX LS7122 | I | 120 | 21 | . | R | X | X | 20 | . |
| ----- | HODGSON 78 | I | 115 | 22 | . | R | S | S | 20 | 33 |
| DEKALB | CX117 | I | 114 | 19 | . | X | X | X | 20 | . |
| MUSTANG | M-1150 | I | 114 | 21 | . | X | X | X | 20 | . |
| SCHWITTERS | CHEROKEE | I | 118 | 23 | . | S | X | X | 20 | . |
| INTERSTATE | IS622 | I | 118 | 24 | . | S | S | S | 20 | . |
| INTERSTATE | IS758 (BL) | I | 118 | 20 | . | M | S | S | 20 | . |
| SEEDTEC | 1157 | I | 119 | 21 | . | X | X | X | 21 | . |
| SEXAUER | SRF 101 | I | 115 | 21 | . | S | S | S | 21 | . |
| ARROWHEAD BRAND | 8600 | I | 115 | 22 | . | S | M | X | 21 | . |
| ARROWHEAD BRAND | 8550 | I | 115 | 21 | . | R | M | X | 22 | 36 |
| STINE | 1820 | I | 117 | 22 | . | S | S | S | 22 | . |
| SCHWITTERS | COMMANCHE | I | 120 | 21 | . | S | X | X | 22 | . |
| MUSTANG | M-1120 | I | 116 | 22 | . | X | X | X | 22 | . |
| ----- | LAKOTA | I | 115 | 26 | . | R | S | S | 22 | 34 |
| ----- | CORSOY 79 CK | I | 121 | 26 | . | R | R | S | 23 | 35 |
| STAR | 8815 | I | 118 | 22 | . | S | X | X | 23 | . |
| ----- | HARDIN | I | 119 | 24 | . | R | S | S | 23 | 33 |
| AGRI PRO | AP1776 | I | 114 | 21 | . | R | S | S | 23 | 35 |
| SEEDTEC | 620B (BL) | I | 120 | 25 | . | R | R | X | 23 | . |
| MUSTANG | M-1180A (BL) | I | 119 | 25 | . | S | S | S | 24 | . |
| AGRI PRO | AP1650 | I | 114 | 22 | . | R | S | S | 24 | . |
| ----- | WEBER 84 | I | 118 | 23 | . | R | S | S | 24 | 34 |
| HY-VIGOR | K-1980 (BL) | I | 117 | 26 | . | R | X | X | 24 | . |
| ----- | SIBLEY | I | 116 | 23 | . | R | S | S | 24 | 34 |
| PETERSON | FRS 119 | I | 124 | 23 | . | S | S | S | 26 | . |
| AGRI PRO | AP1989 | I | 116 | 22 | . | R | R | S | 28 | . |

MATURITY GROUP MEAN
MATURITY GROUP LSD (5%)

22 35
3 #NS

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

#NS INDICATES THESE ARE NO SIGNIFICANT DIFFERENCES AMONG VARIETIES.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF DRYLAND SOYBEAN VARIETIES AT THE JAMES VALLEY RESEARCH FARM (REDFIELD), SEEDED MAY 18, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | | |
|-------------------------|---------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------------------|-------|----|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 | |
| NORTHRUP KING | B095 | 0 | 115 | 26 | . | S*** | S | S | 10 | . | |
| ----- | EVANS | 0 | 110 | 24 | . | R | S | S | 14 | 26 | |
| ----- | MC CALL CK* | 00 | 104 | 28 | . | S | S | S | 14 | 24 | |
| ----- | SWIFT | 0 | 113 | 33 | . | S | S | S | 16 | 26 | |
| ----- | DASSEL | 0 | 115 | 27 | . | R | R | R | 17 | 28 | |
| ----- | OZZIE | 0 | 111 | 24 | . | R | S | S | 23 | 30 | |
| HY-VIGOR | EX-RHY-9 (BL) | 0 | 117 | 32 | . | X | X | X | 26 | . | |
| ----- | SIMPSON | 0 | 114 | 30 | . | R | S | S | 27 | 26 | |
| STAR | EX811 | 0 | 117 | 27 | . | X | X | X | 28 | . | |
| ----- | DAWSON | 0 | 113 | 31 | . | R | S | S | 29 | 29 | |
| ----- | GLENWOOD | 0 | 113 | 28 | . | R | S | S | 31 | 32 | |
| HY-VIGOR | K-148T | 0 | 115 | 34 | . | X | X | X | 32 | . | |
| ----- | SIBLEY CK | 1 | 119 | 35 | . | R | S | S | 33 | . | |
| ARROWHEAD | 8300 | 0 | 116 | 31 | . | S | X | X | 37 | . | |
| TERRA | EXP. 085 | 0 | 118 | 33 | . | R | X | X | 38 | . | |
| SANDS | S01 059 | 0 | 116 | 32 | . | R | S | S | 39 | 45 | |
| INTERSTATE | 1S546 | 0 | 115 | 34 | . | R | S | S | 40 | . | |
| INTERSTATE | 1S598 (BL) | 0 | 116 | 31 | . | M | S | S | 41 | . | |
| ARROWHEAD | 8450 | 0 | 117 | 35 | . | R | X | X | 42 | 47 | |
| SIGCO | 80 | 0 | 116 | 34 | . | R | X | X | 44 | 45 | |
| INTERSTATE | 1S715 | 0 | 119 | 35 | . | R | S | S | 44 | . | |
| Maturity Group Mean | | | | | | | | | (SEE YIELD REMARKS BELOW) | 30 | 33 |
| Maturity Group LSD (5%) | | | | | | | | | | 11 | 13 |

*BL = BLEND, CK = CHECK VARIETY. **1 = EXCELLENT, 5 = POOR.
 ***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELD REMARKS - SOYBEAN GROWERS SHOULD USE THE YIELD RESULTS AT THIS LOCATION WITH CAUTION. HIGH LSD VALUES RELATIVE TO THE MEAN YIELDS INDICATES THERE WAS A LARGE EXPERIMENTAL ERROR AS A RESULT OF PHYTOPHTHORA ROOT ROT IN 1986, AND RHIZOCTONIA, SHATTERING, AND DROUGHT STRESS IN 1988. FINAL PLANT STANDS RANGED FROM 25 TO 100% IN 1988.

YIELDS AND CHARACTERISTICS OF DRYLAND SOYBEAN VARIETIES AT THE JAMES VALLEY RESEARCH FARM (REDFIELD), SEEDED MAY 18, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|--------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | DAWSON CK* | 0 | 113 | 28 | . | R*** | S | S | 15 | . |
| ----- | SIBLEY | I | 119 | 29 | . | R | S | S | 20 | 33 |
| AGRI PRO | AP1650 | I | 119 | 35 | . | R | S | S | 20 | . |
| ----- | HARDIN | I | 122 | 38 | . | R | S | S | 25 | 28 |
| ----- | HODGSON 78 | I | 118 | 32 | . | R | S | S | 27 | 34 |
| AGRI PRO | AP1776 | I | 122 | 34 | . | R | S | S | 32 | 41 |
| DEKALB | CX117 | I | 115 | 31 | . | X | X | X | 33 | . |
| ----- | CORSOY 79 CK | II | 125 | 40 | . | R | R | S | 34 | 38 |
| TERRA | RUNNER III | I | 125 | 35 | . | S | X | X | 36 | 47 |
| HY-VIGOR | EX ROW-99 | I | 122 | 35 | . | R | X | X | 39 | . |
| ----- | WEBER 84 | I | 124 | 33 | . | R | S | S | 40 | 42 |
| ----- | LAKOTA | I | 121 | 41 | . | R | S | S | 41 | 42 |
| ARROWHEAD BRAND | 8600 | I | 123 | 36 | . | S | M | X | 41 | . |
| ARROWHEAD BRAND | 8550 | I | 121 | 38 | . | R | M | X | 41 | . |
| NORTHRUP KING | B117 | I | 120 | 36 | . | S | S | S | 42 | . |
| NORTHRUP KING | S 14-60 | I | 121 | 34 | . | S | S | S | 43 | 47 |
| SEEDTEC | 1157 | I | 126 | 32 | . | X | X | X | 44 | . |
| INTERSTATE | IS758 (BL) | I | 123 | 36 | . | M | S | S | 45 | . |
| PIONEER | 9181 | I | 124 | 32 | . | R | R | X | 47 | . |
| DEKALB | CX187 | I | 123 | 35 | . | X | X | X | 47 | . |
| TERRA | RUNNER | I | 126 | 40 | . | R | X | X | 47 | . |
| ----- | BSR 101 | I | 128 | 39 | . | R | S | S | 47 | 46 |
| INTERSTATE | IS622 | I | 123 | 36 | . | S | S | S | 48 | . |
| SANDS | SO1 166 | I | 122 | 38 | . | S | S | S | 49 | . |
| SEEDTEC | 620B (BL) | I | 125 | 39 | . | R | R | X | 50 | . |
| AGRI PRO | AP1989 | I | 125 | 40 | . | R | R | S | 52 | . |
| PIONEER | 9161 | I | 123 | 35 | . | S | X | X | 53 | . |
| STINE | 1910 | I | 124 | 35 | . | S | S | S | 55 | . |
| MATURITY GROUP MEAN | | | | | | (SEE YIELD REMARKS BELOW) | | | 40 | 40 |
| MATURITY GROUP LSD (5%) | | | | | | | | | 10 | 11 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELD REMARKS - SOYBEAN GROWERS SHOULD USE THE YIELD RESULTS AT THIS LOCATION WITH CAUTION. HIGH LSD VALUES RELATIVE TO THE MEAN YIELDS INDICATES THERE WAS A LARGE EXPERIMENTAL ERROR AS A RESULT OF PHYTOPHTHORA ROOT ROT IN 1986, AND RHIZOCTONIA, SHATTERING, AND DROUGHT STRESS IN 1988. FINAL PLANT STANDS RANGED FROM 25 TO 100% IN 1988.

YIELDS AND CHARACTERISTICS OF IRRIGATED SOYBEAN VARIETIES AT THE JAMES VALLEY RESEARCH FARM (REDFIELD), SEEDED MAY 18, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | | |
|-------------------------|---------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------------------|-------|----|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 | |
| NORTHRUP KING | B095 | 0 | 114 | 26 | . | S*** | S | S | 2 | . | |
| ----- | DAWSON | 0 | 111 | 24 | . | R | S | S | 5 | 19 | |
| ----- | MC CALL CK* | 00 | 105 | 22 | . | S | S | S | 6 | 20 | |
| ----- | SIMPSON | 0 | 111 | 25 | . | R | S | S | 14 | 22 | |
| ----- | EVANS | 0 | 108 | 25 | . | R | S | S | 15 | 27 | |
| ----- | GLENWOOD | 0 | 112 | 25 | . | R | S | S | 16 | 32 | |
| ----- | SWIFT | 0 | 111 | 26 | . | S | S | S | 17 | 27 | |
| ----- | OZZIE | 0 | 111 | 24 | . | R | S | S | 20 | 29 | |
| ----- | DASSEL | 0 | 116 | 25 | . | R | R | R | 22 | 37 | |
| STAR | EX811 | 0 | 119 | 28 | . | X | X | X | 23 | . | |
| ----- | SIBLEY CK | 1 | 117 | 31 | . | R | S | S | 30 | . | |
| ARROWHEAD | 8300 | 0 | 115 | 35 | . | S | X | X | 36 | . | |
| HY-VIGOR | K-148T | 0 | 115 | 33 | . | X | X | X | 36 | . | |
| HY-VIGOR | EX-RHY-9 (BL) | 0 | 119 | 29 | . | X | X | X | 39 | . | |
| INTERSTATE | IS598 (BL) | 0 | 115 | 28 | . | M | S | S | 43 | . | |
| INTERSTATE | IS715 | 0 | 119 | 34 | . | R | S | S | 47 | . | |
| ARROWHEAD | 8450 | 0 | 118 | 35 | . | R | X | X | 53 | 53 | |
| INTERSTATE | IS546 | 0 | 116 | 36 | . | R | S | S | 55 | . | |
| SIGCO | 80 | 0 | 116 | 36 | . | R | X | X | 56 | 54 | |
| SANDS | S01 059 | 0 | 117 | 35 | . | R | S | S | 57 | 51 | |
| TERRA | EXP. 085 | 0 | 117 | 39 | . | R | X | X | 58 | . | |
| Maturity Group Mean | | | | | | | | | (SEE YIELD REMARKS BELOW) | 31 | 34 |
| Maturity Group LSD (5%) | | | | | | | | | | 8 | 17 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

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YIELDS AND CHARACTERISTICS OF IRRIGATED SOYBEAN VARIETIES AT THE JAMES
VALLEY RESEARCH FARM (REDFIELD), SEEDED MAY 18, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | | |
|-------------------------|--------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|---------------------------|-------|----|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 | |
| ----- | DAWSON CK* | 0 | 111 | 24 | . | R*** | S | S | 11 | . | |
| AGRI PRO | AP1650 | I | 119 | 31 | . | R | S | S | 16 | . | |
| ----- | HARDIN | I | 120 | 28 | . | R | S | S | 23 | 30 | |
| DEKALB | CX117 | I | 116 | 25 | . | X | X | X | 24 | . | |
| ----- | SIBLEY | I | 119 | 29 | . | R | S | S | 26 | 30 | |
| ----- | HODGSON 78 | I | 120 | 32 | . | R | S | S | 28 | 31 | |
| ----- | LAKOTA | I | 121 | 37 | . | R | S | S | 30 | 33 | |
| TERRA | RUNNER III | I | 124 | 30 | . | S | X | X | 31 | 45 | |
| ARROWHEAD BRAND | 8550 | I | 121 | 35 | . | R | M | X | 34 | . | |
| INTERSTATE | IS622 | I | 121 | 36 | . | S | S | S | 35 | . | |
| AGRI PRO | AP1776 | I | 121 | 33 | . | R | S | S | 35 | 42 | |
| HY-VIGOR | EX ROW-99 | I | 118 | 35 | . | R | X | X | 36 | . | |
| ARROWHEAD BRAND | 8600 | I | 121 | 35 | . | S | M | X | 37 | . | |
| ----- | CORSOY 79 CK | II | 124 | 36 | . | R | R | S | 37 | 38 | |
| DEKALB | CX187 | I | 121 | 37 | . | X | X | X | 39 | . | |
| ----- | WEBER 84 | I | 123 | 34 | . | R | S | S | 40 | 39 | |
| SANDS | SOI 166 | I | 124 | 35 | . | S | S | S | 41 | . | |
| NORTHRUP KING | B117 | I | 121 | 38 | . | S | S | S | 43 | . | |
| TERRA | RUNNER | I | 126 | 40 | . | R | X | X | 46 | . | |
| INTERSTATE | IS758 (BL) | I | 122 | 31 | . | M | S | S | 46 | . | |
| ----- | BSR 101 | I | 128 | 40 | . | R | S | S | 48 | 43 | |
| SEEDTEC | 1157 | I | 124 | 32 | . | X | X | X | 49 | . | |
| NORTHRUP KING | S 14-60 | I | 122 | 34 | . | S | S | S | 50 | 52 | |
| PIONEER | 9181 | I | 125 | 33 | . | R | R | X | 52 | . | |
| AGRI PRO | AP1989 | I | 124 | 36 | . | R | R | S | 56 | . | |
| PIONEER | 9161 | I | 122 | 37 | . | S | X | X | 57 | . | |
| STINE | 1910 | I | 121 | 34 | . | S | S | S | 60 | . | |
| SEEDTEC | 620B (BL) | I | 128 | 39 | . | R | R | X | 62 | . | |
| Maturity Group Mean | | | | | | | | | (SEE YIELD REMARKS BELOW) | 39 | 39 |
| Maturity Group LSD (5%) | | | | | | | | | | 13 | 12 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

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YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
SDSU AGRONOMY FARM (BROOKINGS), SEEDED MAY 17, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | MC CALL CK* | 00 | 96 | 23 | . | S*** | S | S | 20 | 28 |
| ----- | EVANS | 0 | 102 | 21 | . | R | S | S | 27 | 41 |
| ----- | OZZIE | 0 | 104 | 20 | . | R | S | S | 28 | 41 |
| ----- | GLENWOOD | 0 | 106 | 22 | . | R | S | S | 30 | 44 |
| SCHWITTERS | SIOUX | 0 | 108 | 23 | . | R | X | X | 30 | . |
| ----- | SIMPSON | 0 | 107 | 22 | . | R | S | S | 31 | 41 |
| ARROWHEAD | 8450 | 0 | 110 | 24 | . | R | X | X | 31 | 47 |
| ----- | DASSEL | 0 | 108 | 22 | . | R | R | R | 32 | 45 |
| ARROWHEAD | 8300 | 0 | 107 | 24 | . | S | X | X | 33 | . |
| INTERSTATE | IS546 | 0 | 107 | 24 | . | R | S | S | 33 | . |
| INTERSTATE | IS598 (BL) | 0 | 110 | 25 | . | M | S | S | 34 | . |
| ----- | SWIFT | 0 | 106 | 27 | . | S | S | S | 34 | 42 |
| ASGROW | A0949 | 0 | 108 | 25 | . | R | R | S | 34 | 45 |
| TERRA | EXP. 085 | 0 | 107 | 24 | . | R | X | X | 34 | . |
| INTERSTATE | IS715 | 0 | 111 | 25 | . | R | S | S | 34 | . |
| DEKALB | CX096 | 0 | 107 | 25 | . | R | X | X | 34 | 49 |
| STINE | 0980 | 0 | 110 | 21 | . | S | S | S | 34 | . |
| ----- | DAWSON | 0 | 107 | 25 | . | R | S | S | 36 | 46 |
| ----- | SIBLEY CK | 1 | 113 | 26 | . | R | S | S | 36 | . |
| MUSTANG | M-1000 | 0 | 117 | 25 | . | R | X | X | 39 | . |
| ----- | | | | | | | | | | |
| MATURITY GROUP MEAN | | | | | | | | | 33 | 43 |
| MATURITY GROUP LSD (5%) | | | | | | | | | 4 | 6 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
SDSU AGRONOMY FARM (BROOKINGS), SEEDING MAY 17, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| SEXAUER | SRF 101 | I | 113 | 27 | . | S*** | S | S | 24 | . |
| STAR | 8815 | I | 112 | 24 | . | S | X | X | 24 | . |
| ----- | DAWSON CK* | 0 | 105 | 24 | . | R | S | S | 25 | . |
| SCHWITTERS | IROQUOIS | I | 116 | 25 | . | R | X | X | 26 | . |
| ARROWHEAD BRAND | 8550 | I | 116 | 26 | . | R | M | X | 26 | 44 |
| LINCOLN | EX LS7122 | I | 117 | 26 | . | R | X | X | 26 | . |
| LATHAM | EX120 | I | 117 | 25 | . | S | X | X | 27 | . |
| DEKALB | CX117 | I | 113 | 24 | . | X | X | X | 28 | . |
| PRAIRIE BRAND | PB171 | I | 114 | 26 | . | S | S | S | 28 | . |
| SEXAUER | EX 1050 | I | 118 | 33 | . | R | R | X | 29 | . |
| INTERSTATE | IS758 (BL) | I | 117 | 28 | . | M | S | S | 29 | . |
| ASGROW | A1525 | I | 114 | 26 | . | R | S | S | 29 | 41 |
| NORTHROP KING | S 15-50 | I | 118 | 32 | . | R | R | S | 30 | 42 |
| SANDS | S01 166 | I | 117 | 26 | . | S | S | S | 30 | 46 |
| ----- | HARDIN | I | 116 | 27 | . | R | S | S | 30 | 40 |
| MUSTANG | M-1120 | I | 114 | 29 | . | X | X | X | 30 | . |
| STINE | 1820 | I | 118 | 25 | . | S | S | S | 30 | . |
| SIGCO | 92 | I | 115 | 26 | . | S | X | X | 30 | . |
| GOLDEN HARVEST | H-1170 (BL) | I | 117 | 28 | . | S | S | S | 30 | 44 |
| DEKALB | CX187 | I | 116 | 27 | . | X | X | X | 31 | . |
| LATHAM | 301 (BL) | I | 118 | 29 | . | M | M | M | 31 | 45 |
| ----- | BSR 101 | I | 120 | 30 | . | R | S | S | 31 | 40 |
| INTERSTATE | IS622 | I | 117 | 25 | . | S | S | S | 31 | 45 |
| PIONEER | 9161 | I | 117 | 26 | . | S | X | X | 31 | . |
| TERRA | RUNNER III | I | 116 | 28 | . | S | X | X | 32 | 47 |
| TERRA | RUNNER | I | 119 | 30 | . | R | X | X | 32 | . |
| PROFISEED | PS1730 | I | 116 | 30 | . | X | X | X | 32 | . |
| SANDS | EX 195 | I | 117 | 27 | . | S | S | S | 33 | . |
| PRAIRIE BRAND | PB181 | I | 119 | 25 | . | X | X | X | 33 | . |
| LATHAM | 200 | I | 114 | 27 | . | S | X | X | 33 | 47 |
| Maturity Group Mean | | | | | | | | | 33 | 46 |
| Maturity Group LSD (5%) | | | | | | | | | 9 | 6 |

(CONTINUED)

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE SDSU AGRONOMY FARM (BROOKINGS), SEEDED MAY 17, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|--------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ARROWHEAD BRAND | 8600 | I | 116 | 27 | . | S | M | X | 34 | . |
| HY-VIGOR | ROWKING (BL) | I | 119 | 33 | . | R | X | X | 34 | . |
| SCHWITTERS | CHEROKEE | I | 116 | 27 | . | S | X | X | 34 | . |
| SANDS | S01 175 | I | 118 | 28 | . | S | S | S | 34 | . |
| SEEDTEC | 620B (BL) | I | 120 | 27 | . | R | R | X | 35 | . |
| PROFISEED | PS1130 | I | 118 | 27 | . | X | X | X | 35 | . |
| PIONEER | 9181 | I | 118 | 27 | . | R | R | X | 35 | . |
| PROFISEED | PS2198 | I | 116 | 30 | . | X | X | X | 35 | . |
| SEEDTEC | 1157 | I | 118 | 26 | . | X | X | X | 35 | . |
| ARROWHEAD BRAND | 8650 | I | 118 | 29 | . | R | M | X | 35 | 46 |
| ----- | LAKOTA | I | 117 | 35 | . | R | S | S | 36 | 45 |
| PETERSON | FRS 119 | I | 121 | 27 | . | S | S | S | 36 | . |
| ----- | CORSOY 79 CK | II | 120 | 35 | . | R | R | S | 36 | 46 |
| ASGROW | A1937 | I | 119 | 30 | . | R | S | S | 36 | 46 |
| HY-VIGOR | EX K198(T) | I | 121 | 33 | . | R | X | X | 36 | . |
| ----- | SIBLEY | I | 113 | 30 | . | R | S | S | 37 | 45 |
| ----- | HODGSON 78 | I | 114 | 32 | . | R | S | S | 37 | 43 |
| AGRIPRO | AP1989 | I | 118 | 29 | . | R | R | S | 39 | . |
| ----- | WEBER 84 | I | 118 | 31 | . | R | S | S | 39 | 45 |
| SCHWITTERS | COMMANCHE | I | 120 | 35 | . | S | X | X | 40 | . |
| AGRIPRO | AP1776 | I | 118 | 32 | . | R | S | S | 41 | 46 |
| HOEGEMEYER | 150 | I | 120 | 38 | . | R | X | X | 41 | 50 |
| NORTHRUP KING | S 14-60 | I | 117 | 31 | . | S | S | S | 46 | 51 |
| MUSTANG | M-1150 | I | 118 | 34 | . | X | X | X | 49 | . |
| Maturity Group Mean | | | | | | | | | 33 | 46 |
| Maturity Group LSD (5%) | | | | | | | | | 9 | 6 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
SDSU AGRONOMY FARM (BROOKINGS), SEEDED MAY 17, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| DIAMOND | D150 | II | 114 | 27 | . | S*** | S | S | 33 | . |
| ----- | HARCOR | II | 121 | 31 | . | R | S | S | 34 | 41 |
| ----- | CORSOY 79 | II | 119 | 31 | . | R | R | S | 35 | 41 |
| ----- | MEAD CK* | III | 132 | 33 | . | M | M | X | 35 | 41 |
| ----- | BSR 201 | II | 125 | 30 | . | R | S | S | 35 | 42 |
| ----- | SIBLEY CK | I | 112 | 27 | . | R | S | S | 36 | . |
| ----- | MIAMI | II | 122 | 32 | . | R | R | R | 37 | 41 |
| ----- | HOYT S-D | II | 124 | 25 | . | R | S | S | 37 | 46 |
| ----- | PLATTE | II | 123 | 35 | . | R | X | X | 37 | 42 |
| ----- | CENTURY 84 | II | 124 | 33 | . | R | R | R | 37 | 43 |
| ----- | WELLS II | II | 122 | 33 | . | R | R | S | 38 | 41 |
| ----- | BEESON 80 | II | 125 | 33 | . | R | R | S | 38 | 41 |
| ----- | PRESTON | II | 123 | 31 | . | R | S | S | 38 | 45 |
| LATHAM | 561 (BL) | II | 123 | 31 | . | S | X | X | 38 | 46 |
| HY-VIGOR | K-218T (BL) | II | 122 | 32 | . | M | X | X | 39 | . |
| MUSTANG | EXP. 13 | II | 123 | 31 | . | X | X | X | 39 | 47 |
| SANDS | SOI 285 | II | 120 | 31 | . | S | S | S | 39 | . |
| DAHLGREN | DS-3220 | II | 119 | 30 | . | S | S | S | 39 | . |
| ----- | ELGIN 87 | II | 123 | 29 | . | R | R | R | 40 | . |
| MUSTANG | M-1280 (BL) | II | 124 | 29 | . | S | S | S | 40 | . |
| GOLDEN HARVEST | H-1233 | II | 124 | 31 | . | S | S | S | 40 | 47 |
| DIAMOND | D200 | II | 118 | 32 | . | S | S | S | 40 | . |
| DAHLGREN | DS-3285 | II | 124 | 34 | . | S | S | S | 41 | . |
| ----- | NEBSOY | II | 125 | 33 | . | R | X | X | 41 | 44 |
| AGRI PRO | AP2021 | II | 121 | 28 | . | R | S | S | 41 | 46 |
| HOEGEMEYER | 237 | II | 124 | 31 | . | S | X | X | 41 | . |
| NORTHROP KING | S 23-03 | II | 121 | 32 | . | S | S | S | 41 | 49 |
| ----- | ELGIN | II | 123 | 29 | . | S | S | S | 41 | 47 |
| MUSTANG | M-1225 | II | 122 | 30 | . | S | S | S | 41 | . |
| LATHAM | 401 (BL) | II | 123 | 31 | . | M | X | X | 42 | . |
| ----- | HACK | II | 123 | 29 | . | R | S | R | 42 | 47 |
| SANDS | SOI EX 8821 | II | 122 | 34 | . | S | S | S | 43 | . |
| PROFISEED | PS1152 | II | 123 | 30 | . | X | X | X | 44 | . |
| ASGROW | A2234 | II | 123 | 27 | . | R | R | R | 44 | . |
| Maturity Group Mean | | | | | | | | | 39 | 44 |
| Maturity Group LSD (5%) | | | | | | | | | 6 | 4 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES IN THE LATE-SEEDED TRIAL AT THE SDSU AGRONOMY FARM (BROOKINGS), SEEDED JUNE 15, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | MAPLE PREST | 00 | 86 | 28 | . | R*** | S | S | 15 | 10 |
| ----- | MAPLE AMBER | 00 | 90 | 29 | . | R | R | R | 27 | 18 |
| ----- | CLAY | 00 | 94 | 28 | . | S | S | S | 35 | 26 |
| ----- | MCCALL CK* | 00 | 94 | 30 | . | S | S | S | 35 | 25 |
| ----- | SIMPSON | 0 | 97 | 33 | . | R | S | S | 36 | 25 |
| ----- | SWIFT | 0 | 97 | 36 | 3 | S | S | S | 36 | 29 |
| ----- | EVANS CK | 0 | 97 | 32 | . | R | S | S | 36 | 27 |
| ----- | OZZIE | 0 | 96 | 30 | . | R | S | S | 39 | 27 |
| ----- | GLENWOOD | 0 | 99 | 32 | . | R | S | S | 41 | 32 |
| ----- | DASSEL | 0 | 100 | 29 | . | R | R | R | 41 | 29 |
| ----- | DAWSON | 0 | 98 | 33 | . | R | S | S | 42 | 30 |
| Maturity Group Mean | | | | | | | | | 35 | 25 |
| Maturity Group LSD (5%) | | | | | | | | | 4 | 5 |

*BL = BLEND, CK = CHECK VARIETY.
 ***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE TOM AND LEE WINTERSTEEN FARM (SIOUX FALLS), SEEDED MAY 12, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|--------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | HODGSON 78 | I | 120 | 34 | . | R*** | S | S | 42 | 45 |
| ----- | DAWSON CK* | O | 113 | 34 | . | R | S | S | 43 | . |
| ----- | LAKOTA | I | 121 | 34 | . | R | S | S | 43 | 52 |
| ARROWHEAD BRAND | 8550 | I | 121 | 31 | . | R | M | X | 43 | . |
| MUSTANG | M-1140 | I | 125 | 35 | . | X | X | X | 45 | . |
| MUSTANG | M-1180A (BL) | I | 122 | 35 | . | S | S | S | 46 | . |
| ----- | WEBER 84 | I | 123 | 39 | . | R | S | S | 47 | 49 |
| GOLDEN HARVEST | H-1170 (BL) | I | 124 | 36 | . | S | S | S | 47 | . |
| ----- | SIBLEY | I | 121 | 37 | . | R | S | S | 48 | 53 |
| PRAIRIE BRAND | PB171 | I | 122 | 37 | . | S | S | S | 48 | . |
| PETERSON | FRS 119 | I | 124 | 33 | . | S | S | S | 48 | . |
| LINCOLN | EX LS7122 | I | 123 | 36 | . | R | X | X | 49 | . |
| TERRA | RUNNER III | I | 123 | 36 | . | S | X | X | 49 | . |
| S-BRAND | S-41D | I | 124 | 33 | . | X | X | X | 49 | . |
| NORTHRUP KING | S 15-50 | I | 125 | 44 | . | R | R | S | 49 | 52 |
| CENEX/LOL | EXP 18 | I | 122 | 36 | . | R | X | X | 49 | . |
| ----- | HARDIN | I | 124 | 43 | . | R | S | S | 49 | 54 |
| AGRI PRO | AP1776 | I | 121 | 38 | . | R | S | S | 49 | . |
| ----- | CORSOY 79 CK | II | 126 | 44 | . | R | R | S | 49 | 56 |
| INTERSTATE | IS622 | I | 123 | 37 | . | S | S | S | 50 | . |
| S-BRAND | S-38A | I | 122 | 34 | . | X | X | X | 50 | 58 |
| SANDS | S01 175 | I | 123 | 32 | . | S | S | S | 50 | . |
| HY-VIGOR | E-98 | I | 123 | 40 | . | R | X | X | 51 | . |
| ASGROW | A1937 | I | 125 | 41 | . | R | S | S | 51 | 56 |
| AGRI PRO | AP1989 | I | 126 | 40 | . | R | R | S | 51 | . |
| SANDS | S01 166 | I | 123 | 37 | . | S | S | S | 52 | 60 |
| NORTHRUP KING | S 14-60 | I | 124 | 36 | . | S | S | S | 52 | . |
| MUSTANG | M-1150 | I | 122 | 36 | . | X | X | X | 52 | . |
| HOEGEMEYER | 150 | I | 124 | 41 | . | R | X | X | 52 | 57 |
| SIGCO | 92 | I | 123 | 38 | . | S | X | X | 54 | . |
| Maturity Group Mean | | | | | | | | | 50 | 54 |
| Maturity Group LSD (5%) | | | | | | | | | 8 | 8 |

(CONTINUED)

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE TOM AND LEE WINTERSTEEN FARM (SIOUX FALLS), SEEDED MAY 12, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|--------------------------------------|-------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| GENEX/LOL ARROWHEAD BRAND | L1700 | I | 125 | 38 | . | M | M | M | 55 | . |
| | 8650 | I | 125 | 45 | . | R | M | X | 55 | . |
| | BSR 101 | I | 127 | 42 | . | R | S | S | 55 | 51 |
| | S-40F | I | 124 | 37 | . | X | X | X | 55 | . |
| | HILLCREST 3 | I | 123 | 39 | . | R | R | R | 55 | . |
| BRODALE ARROWHEAD BRAND DEKALB | HILLCREST 3 | I | 123 | 37 | . | S | S | S | 56 | . |
| | 8600 | I | 123 | 36 | . | S | M | X | 57 | . |
| | CX187 | I | 123 | 39 | . | X | X | X | 58 | . |
| Maturity Group Mean | | | | | | | | | 50 | 54 |
| Maturity Group LSD (5%) | | | | | | | | | 8 | 8 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE TOM AND
LEE WINTERSTEEN FARM (SIOUX FALLS), SEEDED MAY 12, 1988.

(CONTINUED)

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | SIBLEY CK# | I | 119 | 32 | . | R*** | S | S | 40 | . |
| SEXAUER | SX 1090 | II | 131 | 41 | . | R | R | X | 41 | . |
| ----- | MEAD CK | III | 136 | 44 | . | M | M | X | 42 | 49 |
| SANDS | SOI 267 | II | 129 | 39 | . | R | R | R | 42 | . |
| ----- | HARCOR | II | 127 | 39 | . | R | S | S | 43 | 49 |
| AGRI PRO | AP2190 | II | 126 | 34 | . | R | S | S | 43 | . |
| ----- | MIAMI | II | 129 | 39 | . | R | R | R | 45 | 49 |
| ----- | PLATTE | II | 130 | 40 | . | R | X | X | 45 | 47 |
| ----- | WELLS II | II | 129 | 39 | . | R | R | S | 45 | 48 |
| MUSTANG | M-1325 | II | 127 | 34 | . | S | S | S | 45 | . |
| SEXAUER | SX 1080 | II | 130 | 41 | . | R | R | X | 46 | . |
| ----- | CENTURY 84 | II | 132 | 36 | . | R | R | R | 46 | 49 |
| MUSTANG | EXP. 13 | II | 130 | 38 | . | X | X | X | 47 | . |
| PIONEER | 9202 | II | 126 | 32 | . | S | X | X | 48 | . |
| HY-VIGOR | K-218T (BL) | II | 130 | 36 | . | M | X | X | 48 | . |
| ----- | HOYT S-D | II | 131 | 29 | . | R | S | S | 48 | 53 |
| MUSTANG | M-1225 | II | 127 | 35 | . | S | S | S | 49 | . |
| SEEDTEC | 701 | II | 125 | 43 | . | X | X | X | 49 | . |
| ----- | CORSOY 79 | II | 127 | 45 | . | R | R | S | 49 | 53 |
| S-BRAND | S-43K | II | 132 | 41 | . | X | X | X | 49 | . |
| ----- | NEBSOY | II | 132 | 37 | . | R | X | X | 49 | 49 |
| ----- | ELGIN 87 | II | 131 | 38 | . | R | R | R | 49 | . |
| ATLAS | EX210 | II | 128 | 37 | . | X | X | X | 50 | . |
| AGRI PRO | AP2021 | II | 127 | 38 | . | R | S | S | 50 | 56 |
| ----- | BEESON 80 | II | 132 | 41 | . | R | R | S | 50 | 50 |
| BRODALE | HILLCREST 5 | II | 132 | 41 | . | S | S | S | 50 | . |
| ----- | BSR 201 | II | 133 | 36 | . | R | S | S | 51 | 54 |
| PIONEER | 9251 | II | 133 | 42 | . | R | X | X | 51 | . |
| ----- | PRESTON | II | 132 | 42 | . | R | S | S | 51 | 52 |
| S-BRAND | S-42G (BL) | II | 129 | 37 | . | X | X | X | 51 | . |
| Maturity Group Mean | | | | | | | | | 50 | 53 |
| Maturity Group LSD (5%) | | | | | | | | | 6 | 6 |

(CONTINUED)

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE TOM AND LEE WINTERSTEEN FARM (SIOUX FALLS), SEEDED MAY 12, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| SANDS | S01 EX 8821 | II | 132 | 40 | . | S | S | S | 52 | . |
| ----- | ELGIN | II | 130 | 32 | . | S | S | S | 52 | 56 |
| SEEDTEC | 1269 | II | 133 | 38 | . | X | X | X | 52 | . |
| AGRI PRO | AP2324 | II | 132 | 38 | . | S | S | S | 52 | . |
| STINE | 2940 | II | 129 | 34 | . | X | X | X | 52 | . |
| LINCOLN | LS7221 | II | 132 | 40 | . | X | X | X | 52 | 55 |
| DAHLGREN | DS-3220 | II | 130 | 37 | . | S | S | S | 52 | . |
| ASGROW | A2234 | II | 127 | 37 | . | R | R | R | 52 | . |
| NORTHRUP KING | S 23-03 | II | 131 | 42 | . | S | S | S | 52 | 59 |
| ASGROW | A2943 | II | 135 | 37 | . | R | S | S | 52 | . |
| S-BRAND | S-43G | II | 130 | 36 | . | X | X | X | 53 | . |
| GOLDEN HARVEST | H-1233 | II | 131 | 38 | . | S | S | S | 53 | 55 |
| DAHLGREN | DS-3285 | II | 132 | 39 | . | S | S | S | 53 | . |
| ----- | HACK | II | 131 | 40 | . | R | S | R | 54 | 53 |
| STAR | EX 8828 | II | 133 | 35 | . | S | S | S | 54 | . |
| SANDS | S01 285 | II | 129 | 37 | . | S | S | S | 54 | . |
| DEKALB | CX264 | II | 130 | 41 | . | X | X | X | 55 | 59 |
| BRODALE | HILLCREST 4 | II | 130 | 39 | . | S | S | S | 55 | . |
| TERRA | MEDALIST | II | 133 | 40 | . | X | X | X | 55 | . |
| TERRA | JAVELIN | II | 132 | 36 | . | X | X | X | 55 | . |
| HOEGEMEYER | 237 | II | 133 | 39 | . | S | X | X | 59 | . |
| Maturity Group Mean | | | | | | | | | 50 | 53 |
| Maturity Group LSD (5%) | | | | | | | | | 6 | 6 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

#NS INDICATES THESE ARE NO SIGNIFICANT DIFFERENCES AMONG VARIETIES.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
GORDON BROCKMUELLER FARM (FREEMAN), SEEDED MAY 12, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|--------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | DAWSON CK | 0 | 107 | 18 | . | R*** | S | S | 11 | . |
| ARROWHEAD BRAND | 8600 | I | 117 | 19 | . | S | M | X | 17 | . |
| MUSTANG | M-1150 | I | 118 | 18 | . | X | X | X | 17 | . |
| ----- | HODGSON 78 | I | 117 | 20 | . | R | S | S | 19 | 27 |
| S-BRAND | S-38A | I | 117 | 19 | . | X | X | X | 19 | 29 |
| ----- | SIBLEY | I | 116 | 21 | . | R | S | S | 19 | 30 |
| TERRA | RUNNER III | I | 119 | 19 | . | S | X | X | 21 | . |
| AGRI PRO | AP1776 | I | 118 | 18 | . | R | S | S | 22 | . |
| ----- | HARDIN | I | 118 | 23 | . | R | S | S | 22 | 29 |
| HY-VIGOR | ROWKING (BL) | I | 120 | 22 | . | R | X | X | 22 | . |
| ----- | BSR 101 | I | 121 | 23 | . | R | S | S | 23 | 31 |
| SANDS | EX 195 | I | 121 | 20 | . | S | S | S | 23 | . |
| HY-VIGOR | 905-T (BL) | I | 122 | 23 | . | R | X | X | 23 | . |
| ----- | LAKOTA | I | 118 | 23 | . | R | S | S | 23 | 30 |
| ----- | CORSOY 79 CK | II | 121 | 23 | . | R | R | S | 23 | 33 |
| STAR | EX 821 | I | 119 | 19 | . | S | X | X | 24 | . |
| SANDS | S01 136 | I | 119 | 21 | . | R | S | S | 24 | 33 |
| STAR | 8819 | I | 119 | 20 | . | S | X | X | 24 | . |
| MUSTANG | M-1140 | I | 120 | 21 | . | X | X | X | 24 | . |
| ----- | WEBER 84 | I | 119 | 18 | . | R | S | S | 24 | 31 |
| RIVERSIDE | 1405 | I | 121 | 22 | . | R | X | X | 24 | . |
| S-BRAND | S-41D | I | 119 | 19 | . | X | X | X | 25 | . |
| STAR | 8820 | I | 120 | 17 | . | S | X | X | 25 | . |
| AGRI PRO | AP1989 | I | 120 | 22 | . | R | R | S | 25 | . |
| ARROWHEAD BRAND | 8650 | I | 120 | 21 | . | R | M | X | 25 | 32 |
| Maturity Group Mean | | | | | | | | | 22 | 30 |
| Maturity Group LSD (5%) | | | | | | | | | 3 | 3 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
GORDON BROCKMUELLER FARM (FREEMAN), SEEDING MAY 12, 1988.

(CONTINUED)

| -----BRAND----- | --VARIETY-- | Maturity GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | SIBLEY CK | I | 116 | 19 | . | R*** | S | S | 21 | . |
| ----- | HACK | II | 123 | 17 | . | R | S | R | 21 | 28 |
| MUSTANG | M-1220A | II | 122 | 18 | . | X | X | X | 22 | 31 |
| SEXAUER | SX 1080 | II | 122 | 18 | . | R | R | X | 22 | . |
| DAHLGREN | DS-3220 | II | 121 | 20 | . | S | S | S | 22 | . |
| DEKALB | CX226 | II | 124 | 16 | . | X | X | X | 22 | 32 |
| MUSTANG | M-1225 | II | 126 | 19 | . | S | S | S | 23 | 33 |
| NORTHRUP KING | B236 | II | 124 | 19 | . | R | S | S | 23 | . |
| S-BRAND | S-45J (BL)* | II | 124 | 19 | . | X | X | X | 23 | . |
| ----- | HARCOR | II | 122 | 21 | . | R | S | S | 23 | 31 |
| TERRA | MEDALIST | II | 122 | 19 | . | X | X | X | 23 | . |
| STINE | 2930 | II | 122 | 16 | . | S | S | S | 23 | . |
| NORTHRUP KING | S 23-03 | II | 123 | 20 | . | S | S | S | 23 | . |
| ----- | NEBSOY | II | 124 | 19 | . | R | X | X | 23 | 29 |
| S-BRAND | S-43G | II | 123 | 18 | . | X | X | X | 23 | . |
| ----- | MIAMI | II | 123 | 22 | . | R | R | R | 23 | 29 |
| TERRA | JAVELIN | II | 122 | 19 | . | X | X | X | 23 | . |
| AGRI PRO | AP2021 | II | 122 | 19 | . | R | S | S | 24 | . |
| ----- | CORSOY 79 | II | 121 | 22 | . | R | R | S | 24 | 30 |
| AGRI PRO | AP2190 | II | 124 | 20 | . | R | S | S | 24 | . |
| SANDS | S01 205-1 | II | 125 | 19 | . | S | S | S | 24 | . |
| SANDS | S01 277 | II | 122 | 19 | . | S | S | S | 24 | . |
| HY-VIGOR | EX 3-903-K | II | 122 | 18 | . | X | X | X | 24 | . |
| SANDS | S01 268 | II | 123 | 19 | . | S | S | S | 24 | . |
| ----- | WELLS II | II | 123 | 21 | . | R | R | S | 24 | 28 |
| AGRI PRO | AP2324 | II | 124 | 20 | . | S | S | S | 24 | . |
| S-BRAND | S-43K | II | 122 | 21 | . | X | X | X | 24 | . |
| MUSTANG | EXP. 13 | II | 123 | 20 | . | X | X | X | 24 | 32 |
| ----- | CENTURY 84 | II | 125 | 19 | . | R | R | R | 25 | 30 |
| HOEGEMEYER | 281 | II | 123 | 19 | . | S | X | X | 25 | . |
| Maturity Group Mean | | | | | | | | | 24 | 31 |
| Maturity Group LSD (5%) | | | | | | | | | 3 | #NS |

(CONTINUED)

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE GORDON BROCKMUELLER FARM (FREEMAN), SEEDED MAY 12, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | PLATTE | II | 125 | 20 | . | R | X | X | 25 | 28 |
| ----- | ELGIN | II | 124 | 18 | . | S | S | S | 25 | 32 |
| LINCOLN | LS7221 | II | 125 | 19 | . | X | X | X | 25 | 33 |
| DEKALB | CX264 | II | 123 | 19 | . | X | X | X | 25 | 34 |
| ----- | BSR 201 | II | 125 | 21 | . | R | S | S | 25 | 29 |
| PIONEER | 9251 | II | 123 | 21 | . | R | X | X | 25 | . |
| ----- | HOYT S-D | II | 123 | 16 | . | R | S | S | 26 | 29 |
| SEXAUER | SX 1090 | II | 124 | 19 | . | R | R | X | 26 | . |
| RIVERSIDE | 303C | II | 123 | 21 | . | R | X | X | 26 | . |
| DAHLGREN | DS-3285 | II | 125 | 19 | . | S | S | S | 26 | . |
| STAR | 8829 | II | 123 | 20 | . | S | S | S | 26 | . |
| ----- | PRESTON | II | 124 | 20 | . | R | S | S | 26 | 30 |
| PIONEER | 9272 | II | 126 | 20 | . | S | X | X | 26 | . |
| NORTHROP KING | S 27-10 | II | 124 | 21 | . | R | R | S | 26 | . |
| ----- | BEESON 80 | II | 126 | 22 | . | R | R | S | 27 | 30 |
| ----- | ELGIN 87 | II | 124 | 19 | . | R | R | R | 27 | . |
| HOEGEMEYER | 237 | II | 125 | 19 | . | S | X | X | 28 | . |
| ----- | MEAD CK | III | 128 | 21 | . | M | M | X | 30 | 31 |
| Maturity Group Mean | | | | | | | | | 24 | 31 |
| Maturity Group LSD (5%) | | | | | | | | | 3 | #NS |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

#NS INDICATES THESE ARE NO SIGNIFICANT DIFFERENCES AMONG VARIETIES.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
SOUTHEAST RESEARCH FARM (BERESFORD), SEEDED MAY 16, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|---------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| PRAIRIE BRAND | PB171 | I | 115 | 21 | . | S*** | S | S | 23 | . |
| ----- | DAWSON | O | 106 | 22 | . | R | S | S | 24 | . |
| MUSTANG | M-1150 | I | 115 | 23 | . | X | X | X | 27 | . |
| MUSTANG | M-1180A (BL)* | I | 116 | 23 | . | S | S | S | 27 | . |
| ----- | HODGSON 78 | I | 115 | 24 | . | R | S | S | 27 | 41 |
| OPROFISEED | PS2198 | I | 116 | 22 | . | X | X | X | 27 | . |
| ----- | SIBLEY | I | 113 | 23 | . | R | S | S | 27 | 43 |
| ----- | HARDIN | I | 113 | 25 | . | R | S | S | 28 | 40 |
| HY-VIGOR | ROWKING (BL) | I | 117 | 27 | . | R | X | X | 29 | . |
| AGRI PRO | AP1776 | I | 116 | 24 | . | R | S | S | 29 | 46 |
| ----- | WEBER 84 | I | 116 | 21 | . | R | S | S | 30 | 44 |
| ----- | LAKOTA | I | 114 | 27 | . | R | S | S | 30 | 42 |
| FONTANELLE | 3850 | I | 115 | 24 | . | M | M | M | 30 | . |
| ----- | CORSOY 79 | II | 118 | 26 | . | R | R | S | 30 | 46 |
| AGRI PRO | AP1989 | I | 116 | 24 | . | R | R | S | 31 | . |
| OHY-VIGOR | K-2180 (BL) | I | 120 | 26 | . | X | X | X | 31 | . |
| PROFISEED | PS1755 | I | 118 | 23 | . | X | X | X | 33 | . |
| ----- | BSR 101 | I | 117 | 26 | . | R | S | S | 33 | 43 |
| PROFISEED | PS1130 | I | 118 | 23 | . | X | X | X | 33 | . |
| CURRY | CBS-175 | I | 118 | 25 | . | X | X | X | 34 | . |
| OMUSTANG | M-1140 | I | 118 | 22 | . | X | X | X | 34 | . |
| RIVERSIDE | 1405 | I | 118 | 23 | . | R | X | X | 34 | . |
| FONTANELLE | 3914 | I | 121 | 24 | . | M | M | M | 39 | . |
| Maturity Group Mean | | | | | | | | | 30 | 43 |
| Maturity Group LSD (5%) | | | | | | | | | 5 | #NS |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

#NS INDICATES THESE ARE NO SIGNIFICANT DIFFERENCES AMONG VARIETIES.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
SOUTHEAST RESEARCH FARM (BERESFORD), SEEDED MAY 16, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| DIAMOND | D150 | II | 111 | 23 | . | S*** | S | S | 25 | . |
| CURRY | CBS-202 | II | 116 | 23 | . | X | X | X | 29 | . |
| ----- | CORSOY 79 | II | 118 | 24 | . | R | R | S | 30 | 45 |
| ----- | SIBLEY CK* | I | 113 | 25 | . | R | S | S | 30 | . |
| ----- | HARCOR | II | 119 | 29 | . | R | S | S | 31 | 45 |
| ----- | MIAMI | II | 120 | 27 | . | R | R | R | 32 | 43 |
| LATHAM | 650 | II | 120 | 23 | . | S | X | X | 33 | 49 |
| ----- | ELGIN | II | 120 | 20 | . | S | S | S | 33 | 48 |
| FONTANELLE | 4309 | II | 124 | 24 | . | M | M | M | 33 | . |
| AGRIPRO | AP2021 | II | 121 | 24 | . | R | S | S | 33 | . |
| ----- | HOYT S-D | II | 123 | 18 | . | R | S | S | 34 | 46 |
| NORTHRUP KING | B236 | II | 121 | 25 | . | R | S | S | 34 | 48 |
| GOLDEN HARVEST | H-1233 | II | 124 | 24 | . | S | S | S | 34 | 48 |
| MUSTANG | M-1220A | II | 117 | 26 | . | X | X | X | 34 | 49 |
| ----- | NEBSOY | II | 121 | 27 | . | R | X | X | 34 | 44 |
| ----- | HACK | II | 121 | 23 | . | R | S | R | 35 | 47 |
| DAHLGREN | DS-3220 | II | 117 | 25 | . | S | S | S | 35 | . |
| STAR | 8826 | II | 121 | 25 | . | S | S | S | 35 | . |
| GOLDEN HARVEST | X261 | II | 119 | 26 | . | S | S | S | 35 | . |
| ----- | MEAD CK* | III | 127 | 25 | . | M | M | X | 35 | 46 |
| NORTHRUP KING | S 23-03 | II | 118 | 28 | . | S | S | S | 35 | 51 |
| HOEGEMEYER | 281 | II | 118 | 25 | . | S | X | X | 35 | . |
| CURRY | CBS-270 | II | 118 | 23 | . | X | X | X | 35 | . |
| AGRIPRO | AP2190 | II | 122 | 26 | . | R | S | S | 35 | 48 |
| MUSTANG | EXP. 13 | II | 119 | 25 | . | X | X | X | 35 | 49 |
| MUSTANG | M-1225 | II | 121 | 25 | . | S | S | S | 35 | 49 |
| DIAMOND | D200 | II | 119 | 27 | . | S | S | S | 36 | . |
| ----- | WELLS II | II | 119 | 27 | . | R | R | S | 36 | 45 |
| ----- | BSR 201 | II | 121 | 28 | . | R | S | S | 36 | 46 |
| MC CURDY | 260B (BL) | II | 121 | 25 | . | M | X | X | 36 | 49 |
| Maturity Group Mean | | | | | | | | | 36 | 48 |
| Maturity Group LSD (5%) | | | | | | | | | 5 | 5 |

(CONTINUED)

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
SOUTHEAST RESEARCH FARM (BERESFORD), SEEDED MAY 16, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| NORTHRUP KING | S 27-10 | II | 118 | 25 | . | R | R | S | 36 | 50 |
| DAHLGREN | DS-3285 | II | 124 | 29 | . | S | S | S | 36 | . |
| STINE | 2750 | II | 124 | 22 | . | S | S | S | 36 | 52 |
| SANDS | S01 268 | II | 122 | 26 | . | S | S | S | 36 | . |
| LATHAM | 770 | II | 121 | 24 | . | R | X | X | 36 | . |
| PIONEER | 9251 | II | 120 | 24 | . | R | X | X | 37 | . |
| ----- | BEESON 80 | II | 122 | 26 | . | R | R | S | 37 | 42 |
| PRAIRIE BRAND | PB275 (BL) | II | 123 | 23 | . | M | M | M | 37 | . |
| ----- | CENTURY 84 | II | 122 | 23 | . | R | R | R | 37 | 46 |
| PIONEER | 9272 | II | 125 | 24 | . | S | X | X | 38 | . |
| PROFISEED | PS1152 | II | 123 | 26 | . | X | X | X | 38 | . |
| SANDS | S01 277 | II | 118 | 26 | . | S | S | S | 38 | . |
| ----- | PRESTON | II | 123 | 26 | . | R | S | S | 38 | 48 |
| ----- | ELGIN 87 | II | 121 | 24 | . | R | R | R | 38 | . |
| HY-VIGOR | EX 3-903-K | II | 118 | 27 | . | X | X | X | 38 | . |
| RIVERSIDE | 303C | II | 119 | 27 | . | R | X | X | 39 | . |
| ----- | PLATTE | II | 123 | 28 | . | R | X | X | 39 | 47 |
| DEKALB | CX264 | II | 123 | 24 | . | X | X | X | 39 | 50 |
| STAR | 8829 | II | 120 | 26 | . | S | S | S | 39 | . |
| S-BRAND | S-45D+ | II | 118 | 27 | . | X | X | X | 40 | . |
| S-BRAND | S-45J (BL) | II | 123 | 24 | . | X | X | X | 40 | . |
| DIAMOND | D201 | II | 118 | 26 | . | M | M | M | 40 | 49 |
| GOLDEN HARVEST | X277 | II | 117 | 24 | . | S | S | S | 40 | . |
| AGRIPRO | AP2324 | II | 123 | 26 | . | S | S | S | 41 | . |
| DEKALB | CX226 | II | 119 | 23 | . | X | X | X | 41 | 55 |
| S-BRAND | S-46G (BL) | II | 119 | 26 | . | X | X | X | 41 | . |
| HOEGEMEYER | 237 | II | 120 | 24 | . | S | X | X | 41 | . |
| SANDS | S01 287 | II | 123 | 25 | . | S | S | S | 43 | . |
| Maturity Group Mean | | | | | | | | | 36 | 48 |
| Maturity Group LSD (5%) | | | | | | | | | 5 | 5 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
CURRY SEED FARM (ELK POINT), SEEDED MAY 16, 1988.

| BRAND | VARIETY | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | PHYTOPHTHORA (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|--------------|----------------|-------------------------|-----------------|-----------------|-------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| | DAWSON CK* | 0 | 102 | 35 | 2** | R*** | S | S | 26 | . |
| | SIBLEY | I | 111 | 36 | . | R | S | S | 27 | 39 |
| | HODGSON 78 | I | 111 | 39 | . | R | S | S | 27 | 32 |
| | BSR 101 | I | 117 | 37 | . | R | S | S | 27 | 38 |
| | WEBER 84 | I | 114 | 38 | . | R | S | S | 28 | 32 |
| MUSTANG | M-1150 | I | 114 | 36 | . | X | X | X | 29 | . |
| | LAKOTA | I | 113 | 43 | 2 | R | S | S | 29 | 38 |
| TERRA | RUNNER III | I | 114 | 35 | . | S | X | X | 30 | . |
| FONTANELLE | 3850 | I | 112 | 37 | . | M | M | M | 31 | . |
| STAR | EX 821 | I | 114 | 37 | . | S | X | X | 31 | . |
| | HARDIN | I | 111 | 43 | 2 | R | S | S | 31 | 29 |
| STAR | 8820 | I | 117 | 35 | . | S | X | X | 32 | . |
| | CORSOY 79 CK | II | 116 | 42 | 2 | R | R | S | 32 | 41 |
| FONTANELLE | 3914 | I | 120 | 33 | . | M | M | M | 33 | . |
| CURRY | CBS-175 | I | 112 | 41 | . | X | X | X | 34 | . |
| AGRI PRO | AP1989 | I | 113 | 37 | . | R | R | S | 34 | . |
| MATURITY GROUP MEAN | | | | | | | | | 30 | 35 |
| MATURITY GROUP LSD (5%) | | | | | | | | | 4 | #NS |

*BL = BLEND, CK = CHECK VARIETY. **1 = EXCELLENT, 5 = POOR.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

#NS INDICATES THESE ARE NO SIGNIFICANT DIFFERENCES AMONG VARIETIES.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
CURRY SEED FARM (ELK POINT), SEEDED MAY 16, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|-------------|----------------|-------------------------|-----------------|-----------------|--------------------------------------|--------|--------|---------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | HOYT S-D | II | 118 | 18 | . | R*** | S | S | 22 | 34 |
| ----- | SIBLEY CK* | I | 108 | 37 | 2** | R | S | S | 25 | . |
| MUSTANG | M-1325 | III | 118 | 34 | . | S | S | S | 27 | . |
| ----- | ELGIN | II | 120 | 32 | 1 | S | S | S | 28 | 40 |
| ----- | HARCOR | II | 114 | 44 | . | R | S | S | 30 | 37 |
| ----- | MIAMI | II | 115 | 41 | 2 | R | R | R | 30 | 38 |
| SANDS | SOI 266 | III | 115 | 32 | . | R | S | S | 30 | . |
| MUSTANG | EXP. 13 | III | 118 | 37 | . | X | X | X | 31 | 45 |
| ----- | WELLS II | II | 117 | 39 | . | R | R | S | 31 | 38 |
| AGRI PRO | AP2190 | II | 115 | 35 | 2 | R | S | S | 31 | . |
| ----- | MEAD CK | III | 127 | 36 | . | M | M | X | 32 | 45 |
| SEEDTEC | 701 | II | 111 | 43 | 2 | X | X | X | 32 | . |
| STAR | EX 8828 | III | 121 | 31 | . | S | S | S | 32 | . |
| CURRY | CBS-202 | III | 116 | 36 | . | X | X | X | 32 | . |
| ----- | CORSOY 79 | II | 115 | 48 | 2 | R | R | S | 33 | 36 |
| ----- | BSR 201 | II | 119 | 40 | 2 | R | S | S | 33 | 38 |
| GOLDEN HARVEST | H-1233 | II | 117 | 38 | . | S | S | S | 33 | . |
| ----- | ELGIN 87 | II | 118 | 35 | . | R | R | R | 34 | . |
| FONTANELLE | 4309 | II | 121 | 32 | . | M | M | M | 34 | . |
| ----- | PRESTON | II | 119 | 37 | . | R | S | S | 34 | 37 |
| ----- | PLATTE | II | 120 | 41 | . | R | X | X | 34 | 41 |
| ----- | BEESON 80 | II | 121 | 39 | . | R | R | S | 35 | 42 |
| S-BRAND | S-45D+ | II | 119 | 37 | . | X | X | X | 35 | 51 |
| DAHLGREN | DS-3220 | II | 117 | 32 | . | S | S | S | 35 | . |
| S-BRAND | S-45J (BL) | II | 119 | 37 | . | X | X | X | 36 | . |
| PRAIRIE BRAND | PB275 (BL) | II | 118 | 38 | . | M | M | M | 36 | . |
| ASGROW | A2943 | II | 127 | 38 | . | R | S | S | 36 | 47 |
| ----- | NEBSOY | II | 120 | 37 | 2 | R | X | X | 36 | 34 |
| PIONEER | 9272 | II | 119 | 37 | . | S | X | X | 36 | . |
| S-BRAND | S-46G (BL) | II | 118 | 38 | . | X | X | X | 36 | . |
| Maturity Group Mean | | | | | | | | | 36 | 40 |
| Maturity Group LSD (5%) | | | | | | | | | 5 | #NS |

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 2-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

(CONTINUED)

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
CURRY SEED FARM (ELK POINT), SEEDED MAY 16, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|--------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| HY-VIGOR | 10-40 (BL) | II | 125 | 44 | . | R | X | X | 37 | . |
| AGRI PRO | AP2021 | II | 118 | 35 | . | R | S | S | 37 | . |
| LATHAM | 851 (BL) | II | 117 | 36 | 2 | M | X | X | 37 | 41 |
| ----- | HACK | II | 119 | 38 | . | R | S | R | 37 | 38 |
| SEEDTEC | 1269 | II | 124 | 35 | . | X | X | X | 37 | . |
| AGRI PRO | AP2324 | II | 117 | 39 | . | S | S | S | 37 | . |
| KRUGER | KB244 (BL) | II | 123 | 36 | . | S | S | S | 38 | . |
| DIAMOND | D201 | II | 118 | 41 | . | M | M | M | 38 | 50 |
| SANDS | S01 268 | II | 118 | 40 | . | S | S | S | 38 | . |
| DAHLGREN | DS-3285 | II | 122 | 38 | . | S | S | S | 38 | . |
| LATHAM | 920 | II | 122 | 32 | . | R | X | X | 38 | . |
| LATHAM | 650 | II | 117 | 37 | . | S | X | X | 39 | 40 |
| CURRY | CBS-270 | II | 117 | 39 | . | X | X | X | 39 | . |
| GOLDEN HARVEST | X277 | II | 117 | 39 | 2 | S | S | S | 39 | . |
| ----- | CENTURY 84 | II | 121 | 37 | . | R | R | R | 39 | 42 |
| TERRA | JAVELIN | II | 121 | 38 | . | X | X | X | 39 | . |
| STINE | 2770 | II | 119 | 37 | . | S | S | S | 41 | 50 |
| DIAMOND | D225B (BL) | II | 122 | 37 | . | S | S | S | 41 | . |
| GOLDEN HARVEST | H-1285 | II | 123 | 39 | . | S | S | S | 41 | . |
| ASGROW | A2234 | II | 117 | 38 | . | R | R | R | 41 | . |
| HY-VIGOR | EX 3-903-K | II | 120 | 37 | . | X | X | X | 42 | . |
| KRUGER | KB254++ (BL) | II | 120 | 38 | . | S | S | S | 42 | . |
| TERRA | MEDALIST | II | 120 | 40 | . | X | X | X | 43 | . |
| PRAIRIE BRAND | PB272 | II | 120 | 39 | . | S | S | S | 43 | . |
| DIAMOND | D210 | II | 116 | 38 | . | S | S | S | 44 | . |
| KRUGER | K2162 | II | 119 | 37 | . | S | S | S | 45 | . |
| MATURITY GROUP MEAN | | | | | | | | | 36 | 40 |
| MATURITY GROUP LSD (5%) | | | | | | | | | 5 | #NS |

*BL = BLEND, CK = CHECK VARIETY. **1 = EXCELLENT, 5 = POOR.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

#NS INDICATES THESE ARE NO SIGNIFICANT DIFFERENCES AMONG VARIETIES.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

YIELDS AND CHARACTERISTICS OF SOYBEAN VARIETIES GROWN AT THE
CURRY SEED FARM (ELK POINT), SEEDED MAY 16, 1988.

| -----BRAND----- | --VARIETY-- | MATURITY GROUP | DAYS TO MATURITY (1988) | HEIGHT (INCHES) | LODGING (SCORE) | -----PHYTOPHTHORA----- (REACTION) | | | YIELD (BU/AC) | |
|-------------------------|--------------|-------------------|-------------------------------|--------------------|--------------------|--------------------------------------|--------|--------|------------------|-------|
| | | | | | | RACE 1 | RACE 3 | RACE 4 | 88 | 86-88 |
| ----- | HOBBIT 87 | III | 129 | 19 | . | R*** | R | R | 26 | . |
| ----- | ZANE | III | 130 | 39 | . | S | S | S | 27 | 35 |
| ----- | CHAMBERLAIN | III | 129 | 39 | . | R | X | S | 28 | 44 |
| ----- | SPARKS CK* | IV | 132 | 49 | . | R | S | S | 31 | 39 |
| ----- | WILLIAMS 82 | III | 132 | 41 | . | R | R | R | 33 | 41 |
| ----- | CORSOY 79 CK | II | 112 | 43 | . | R | R | S | 35 | 34 |
| ----- | PELLA 86 | III | 129 | 40 | . | R | R | R | 35 | 47 |
| STAR | EX 831 | III | 124 | 38 | . | S | S | S | 35 | . |
| ----- | MEAD | III | 128 | 36 | . | M | M | X | 36 | 36 |
| SANDS | SOI 353 | III | 123 | 40 | . | S | S | S | 38 | 48 |
| SANDS | EXP 382 | III | 121 | 42 | . | S | S | S | 39 | . |
| ----- | FREMONT | III | 125 | 40 | . | S | M | S | 39 | 43 |
| ----- | LOGAN | III | 126 | 47 | . | M | S | S | 40 | 45 |
| ----- | RESNIK | III | 128 | 38 | . | R | R | R | 41 | 49 |
| GOLDEN HARVEST | X 308 | III | 122 | 39 | . | S | S | S | 42 | . |
| KRUGER | KB367+ (BL) | III | 128 | 40 | . | S | S | S | 43 | . |
| SANDS | EXP 385 | III | 127 | 41 | . | S | S | S | 47 | . |
| Maturity Group Mean | | | | | | | | | 36 | 42 |
| Maturity Group LSD (5%) | | | | | | | | | 5 | 8 |

*BL = BLEND, CK = CHECK VARIETY.

***R = RESISTANT, M = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE, X = DATA NOT AVAILABLE.

NOTE - THE TOP YIELDING GROUP WITHIN EACH COLUMN OF 1- AND 3-YR AVERAGES CAN BE DETERMINED BY SUBTRACTING THE LSD VALUE FROM THE YIELD VALUE OF THAT VARIETY WITH THE HIGHEST NUMERICAL YIELD. WITHIN A COLUMN ALL VARIETIES WITH A YIELD GREATER THAN THE DETERMINED VALUE WILL BE IN THE TOP YIELDING GROUP.

ADDITIONAL VARIETY COMMENTS

Century: Slow emergence; fair resistance to iron chlorosis; adapted to southeastern counties.

Corsoy 79: Susceptible to lodging and highly susceptible to iron chlorosis; best adapted to the James River Valley and east-central and southeastern counties.

Dassel: Moderately susceptible to iron chlorosis; average rate of emergence; resistant to R1 race of Phytophthora root rot.

Elgin: Slow emergence; fair iron chlorosis resistance; adapted to east-central and southeastern counties.

Elgin 87: Slow emergence; moderately susceptible to iron chlorosis; improved phytophthora rot resistance compared to Elgin.

Evans: Quick emergence; moderately susceptible to iron chlorosis; best adapted to northeastern and east-central counties.

Glenwood: Good shattering resistance; good emergence; moderately susceptible to iron chlorosis; resistant to some races of phytophthora root rot.

Harcor: Susceptible to iron chlorosis; prone to shattering; best adapted to the James River Valley and east-central and southeastern counties.

Hardin: Moderately susceptible to iron chlorosis, good shattering resistance, best adapted to northeastern and east-central counties.

Harper 87: Slow emergence; good shattering resistance; susceptible to iron chlorosis; improved phytophthora root rot resistance compared to Harper.

Hodgson 78: Slow emergence; fair resistance to iron chlorosis; best adapted to northeastern and east-central counties.

Hoyt: A semidwarf; good shattering resistance; highly susceptible to iron chlorosis; resistant to R1 race of phytophthora root rot.

Lakota: Susceptible to lodging; good resistance to iron chlorosis and shattering; best adapted to northeastern and east-central counties.

Nebsoy: Good emergence; moderately susceptible to shattering; high susceptibility to iron chlorosis; adapted to east-central and southeastern counties.

Sibley: Good resistance to R1, R3, and R4 races of phytophthora root rot; shatter resistant; high susceptibility to iron chlorosis.

Simpson: Quick emergence; moderately susceptible to iron chlorosis; best adapted to northeastern and east-central counties.

Swift: Moderately susceptible to shattering; best adapted to northeastern and east-central counties.

Weber: Good shattering resistance; fair resistance to iron chlorosis; best adapted to northeastern and east-central counties.

Weber 84: Quick emergence; good shattering resistance; good phytophthora Race 1 resistance; fair resistance to iron chlorosis; adaptation is similar to Weber.

Wells II: Slow emergence; moderately susceptible to iron chlorosis; prone to shattering; best adapted to upper James River Valley and east-central and northeastern counties.