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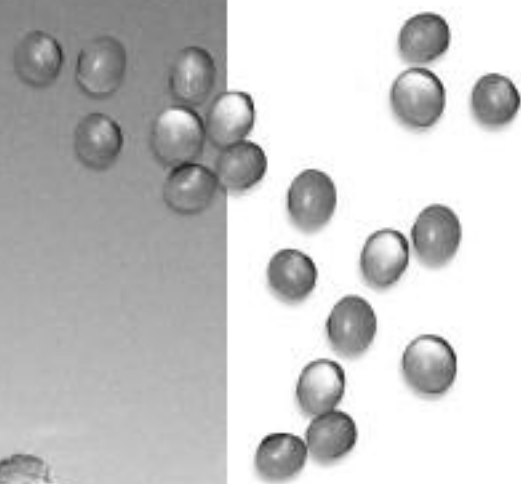
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EC 775
Revised
Annually

Soybeans

2004 Crop Performance Results



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

This report is available on the World-Wide-Web at <http://plantsci.sdstate.edu/varietytrials/vartrial.html>

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EC 775—Precision Planted Soybeans 2004 Crop Performance Results is available electronically on the internet

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Soybeans

2004 South Dakota Precision Planted Soybean Variety Performance Trials

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Table A – Traits of some public soybean varieties.

Table B – Gene race resistance to *Phytophthora* root rot.

Table C – Roundup Ready™ entries with yield table numbers.

Table D – Non-Roundup Ready™ entries with yield table numbers.

Table E – Seed company (brand name), mailing addresses (after yield tables).

Successful soybean production is greatly affected by variety selection for a given growing area. This publication reports the agronomic performance of entries in the 2004 South Dakota performance trials for conventional or non-Roundup Ready™ and Roundup Ready™ soybean varieties. Important factors in variety selection include yield, maturity, plant height, lodging resistance, and *Phytophthora* root rot resistance. In the case of public varieties, additional information including emergence, shattering, and iron chlorosis scores (Table A) are available.

Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and are therefore greatly impacted by latitude. Consequently, maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. Groups III through VIII are suited to Iowa and Nebraska and southward into Texas.

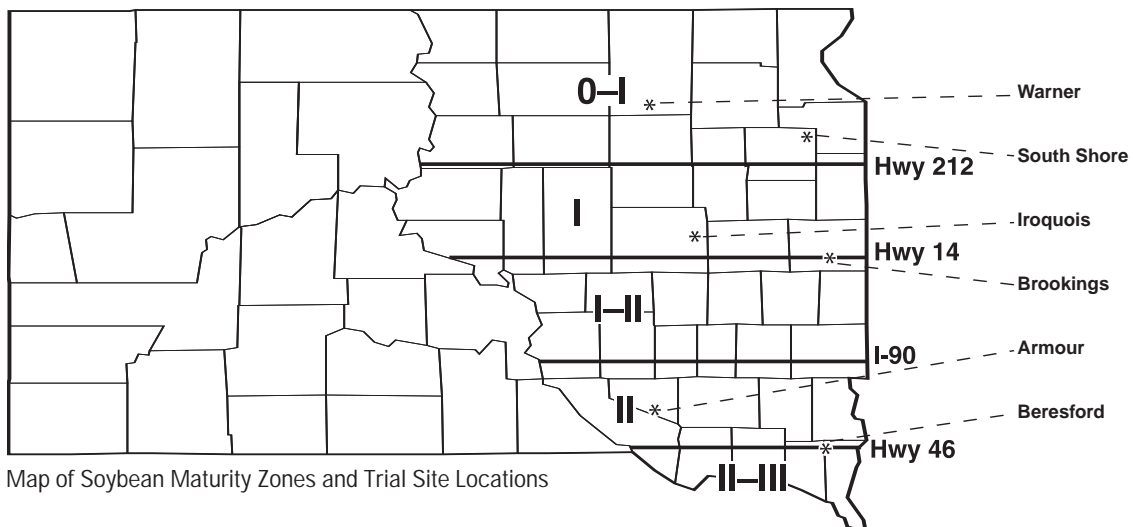
These soybean performance trial results are reported according to the prevalent maturity zones in South Dakota (see map). The Roundup-Ready™ soybean variety trials are conducted in the following test zones at these locations: Northern test zone: Maturity group-0 and -I trials at South Shore and Warner; Central test zone: Maturity group-0, -I,

and -II trials at Brookings and Iroquois; Southern test zone: Maturity group-I and -II trials at Beresford and Armour.

Conventional soybean variety trials are only conducted on the following SDSU-affiliated research farms and locations: NE Research Farm, South Shore, Maturity group-0 and -I trials; Plant Science Research Farm, Brookings, Maturity group-0, -I, -II trials; and the South Dakota Agricultural Experiment Station (SDAES) Farm, Beresford, Maturity group -I and -II trials.

Note there are transition areas where varieties of two maturity groups may perform similarly. In such cases other mitigating factors like rainfall and/or elevation may moderate the effect of latitude on maturity. In most cases, an earlier maturity group may be seeded in a zone suited to a later maturity group. Generally, this is only practical if seeding is delayed, when reseeding follows hail, or if double cropping.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. However, the resistance to *Phytophthora* root rot is fungus-race specific. This means resistance to one race does not necessarily impart resistance to other races. Knowledge of the races of PRR fungus prevalent in your area is helpful. If you suspect a field has PRR and the specific race(s) involved is unknown, then select varieties



having genes that impart a wide range of race resistance (Table B). Specific race resistance to PRR for a given variety, as reported by the entering seed company, is indicated in Table C.

An alternative method of control is the use of "tolerant varieties." Tolerant varieties are not resistant to PRR in the seedling stage. Therefore, a *Phytophthora*-specific fungicide must be applied to protect them. Presently, we have no information on the field tolerance of varieties adapted to this region. Therefore, field tolerance ratings are not given in this publication.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded. In addition, inoculation of seed with the appropriate nitrogen-fixing bacterium is a good fundamental practice. Inoculation must be practiced if soybeans are seeded in soils not previously cropped with soybeans. Even on soils previously cropped to soybeans, there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested at a given location. In addition, 2-year averages are included where varieties have been tested for 2 years. Yields, test averages, and least significant difference (Lsd) values are printed at the bottom of each yield column for each location and are rounded off to the nearest bushel.

The Lsd value can be used to determine whether varieties differ in yield potential. For example, assume variety A yields 30 bushels, variety B yields 25 bushels, and the calculated Lsd value is 4 bushels. The yield difference between varieties A and B is 5 bushels per acre. Since the yield difference of 5 bushels is greater than the test Lsd value of 4 bushels, the yield of variety A (30 bushels) is significantly higher than the yield of variety B (25 bushels). In contrast, if variety A yielded 28 bushels and variety B yielded 25 bushels, the yield difference would be 3 bushels per acre. In this case, both varieties would have a similar yield because their yield difference of 3 bushels is less than the test Lsd value of 4 bushels per acre.

Use Lsd values to identify the best-yielding varieties. The Lsd value indicated at the bottom of each yield column is used to calculate the **minimum top yield value**. For example, if the highest yield within a column is 50 bushels and the LSD value for that yield column is 5 bushels, then the minimum top yield value equals 45 bushels ($50 - 5 = 45$). Within a yield column, varieties with yields equal to or higher than this minimum top-yield value are the best yielding varieties. Entries in all tables are sorted from highest to lowest values according to the variable(s) listed in the Brand/Variety column of each performance table. **Note: Entries tested for 2 years may also have a top yield group value in the 2004 yield column.**

Participating companies pick the locations where their entries are tested. Entries are placed into either maturity group-0, -I, or -II test trials, and the company selects the appropriate maturity group trial for its entries at each location. Generally, each company has one or more maturity group checks for the varieties it markets. However, there are no standard regional or national check varieties for maturity. Consequently, a late group-I variety from one company may be similar in maturity to an early group-I variety from another company because they use different check varieties for maturity.

As a result, **this testing program can not guarantee that all entries are placed in the proper maturity trial**. In some trials, borderline entries with maturity group ratings at or near the arbitrary breaks between the late group-0s and early group-Is and between the late group-Is and early-group-IIs may crossover at a given location.

When evaluating the performance of any entry in a given trial it is strongly suggested that you also note the reported maturity of the entry. Since all entries at a given location are seeded the same day, you can compare the relative difference in maturity (days after maturity) between varieties. If the maturity rating for an entry in a group-I test is similar to the rating for a variety in the group-II test at the same test location, then you might conclude they are similar in maturity regardless of their company maturity rating.

Use caution when comparing the maturity rating of a given variety from one location to the rating obtained at other locations. Should early-season soil moisture and soil temperature values differ greatly, then maturity ratings may differ between locations; therefore, maturity comparisons of a variety over many locations may be misleading.

The efforts of G. Piechowski, Brookings, J. Smolik and A. Heuer, NE Research Farm, South Shore, and R. Berg and staff, SE Research Farm, Beresford, in obtaining the data are gratefully acknowledged. The comments regarding *Phytophthora* root rot race resistance and tolerance by Marty Draper, Extension plant pathologist, are appreciated.

The assistance and cooperation of our farmer co-operators Allen and Inel Ryckman, Warner, Mark and Cletus Wiechmann, Armour, and S.D. and Kirk Aughenbaugh, Iroquois, are especially acknowledged.

Protein and Oil Content

The protein and oil values reported are for the 2004 cropping season. At all locations, one sub-sample from each replication (3 sub-samples total) of every variety in each trial was combined and a sample was then tested for protein and oil. The analysis was conducted using a FOSS TECATOR Model Infratec 1229 grain analyzer calibrated using company software. Samples of known protein and oil that had been tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory were then used to verify the software calibration. All protein and oil values are adjusted to a 13% moisture basis.

General Test Procedures

The general test procedures outlined below apply to both conventional non-Roundup Ready™ and Roundup Ready™ soybean entries with one exception: Weed control in the Roundup Ready™ test consisted of an application of Roundup Ultra™ (32 oz/A) when weeds were 4-5 inches tall followed by the same application again 21 days later. In non-Roundup Ready™ test trials, pre-emergence herbicides consisted of banded Lasso II™ at South Shore and Brookings; and no pre-emergence herbicide at Beresford. In addition, a post-emergence tank mix of Pursuit/Flexstar™ for broadleaves and Select™ for grasses was applied at Beresford. At South Shore and Brookings post-emergence control consisted of a light cultivation. Chemicals were applied according to label instructions.

Test procedures: A row spacing of 30 inches was used at all locations. The seeding rate was 165,000 seeds per acre for all varieties and locations.

Test plots were 4-row plots, 20 feet long, with three replications at all locations. Soybean inoculation was accomplished by applying Nitragin™ brand Soybean Soil Implant down the seed tube, according to label instructions and rates, during seeding. Seeding at all locations was accomplished using a Monosem precision row crop planter. The use of this planter this year resulted in very uniform seed spacing within the seed row. The center two rows of each plot were harvested for yield.

Yield: Plots were harvested at 15% seed moisture or less. Yields were calculated on a 13% moisture content basis and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine.

Reporting variety maturity: Variety maturity is reported as “days to maturity” or DTM. Entries are mature when 95% of the pods have turned brown. Each maturity value is obtained by determining the average number of days from seeding to maturity for two replicates and expressing as DTM. If the DTM value is missing the entry did not reach maturity before the first killing frost and no value is given.

Height: 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 each variety. 1 = all plants erect, 2 = slight lodging, 3 = lodging at a 45 degree angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora: The gene resistance traits of entries to the many *Phytophthora* races was supplied by the participating seed company (proprietary entries) or obtained from the USDA, Uniform Soybean Tests, Northern States (public entries). A key to *Phytophthora* gene resistance and the race resistance of each gene is indicated in Table B. The race resistances of entries are listed either in Table C (Roundup Ready™) or Table D (non-Roundup Ready™). Presently, races 1, 3, and 4 are the most common races in South Dakota.

Soybean Traits of Public Entries

Evaluations of public soybean variety characteristics conducted by regional universities and USDA are reported in Table A. Evaluations and locations include emergence (Ames, Iowa), shattering (Manhattan, Kan.), and iron chlorosis (Rosemount, Minn. - Group 0, Waseca, Minn. - Groups I and II). A discussion of these evaluations follows:

Emergence: Scores are related to hypocotyl elongation and are measured following emergence after 12 days from a 4 1/2-inch depth in sand maintained at 77° F (a critical temperature for differentiating strains). Scores include 1 = 95% or more emerged, 2 = 91-94% emerged, 3 = 85-90% emerged, 4 = 76-84% emerged, and 5 = less than 76% emerged.

A score of 4 or 5 indicates the variety exhibits slow emergence. It does not mean the variety is inferior.

Shattering: Indicates percentage of pods that had opened and shattered 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: Varieties are evaluated on high pH soils, and scores range from 1 = little or no yellowing, 3 = moderate yellowing, to 5 = severe yellowing.

ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

Note: Yields are reported as 2004 averages or 2-yr averages (2003-04).

NORTHERN TEST ZONE

SOUTH SHORE- Northeast Research Farm
WARNER- No-till, Allen & Inel Ryckman Farm
(cooperators)

South Shore, Group-0 (Tables 1a & 1b): The 2004 and 2-year test yield averages were **39 and 30 bushels** per acre, respectively (Table 1a). Varieties had to average 39 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 30 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 6 bushels in 2004 and 4 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **33.5%, 16.7%, and 1**, respectively (Table 1b).

Lodging score averages among the varieties were not significantly different from one another.

Warner, Group-0 (Tables 1a & 1b): The 2004 and 2-year test yield averages were **46 and 47 bushels** per acre, respectively (Table 1a). Varieties had to average 48 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 45 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and 5 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **34.1%, 17.3%, and 1**, respectively (Table 1b). Lodging score averages among the varieties were not significantly different from one another.

Northern test zone, Group-0 (Tables 1a & 1b): The 2004 and 2-year test yield averages in the Northern zone were **43 (57 entries) and 39 (19 entries) bushels** per acre, respectively (Table 1a). Varieties had to average 45 bushels or higher to be in the top yield group for 2004. Variety yield averages had to differ by 4 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **33.9%, 17.0%, and 1**, respectively (Table 1b). Lodging score averages among the varieties were not significantly different from one another.

South Shore, Group-I (Tables 2a & 2b): The 2004 and 2-year test yield averages were **41 and 30 bushels** per acre, respectively (Table 2a). Varieties had to average 43 bushels or higher to be in the top yield group for 2004. The 2-year yield averages among varieties did not differ significantly. Therefore, the variety with the lowest 2-year yield of 29 bushels was still in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 to be significantly different, while for 2 years there was no yield difference among the varieties. The 2004 protein, oil, and lodging score test averages were **32.2, 17.2%, and 1**, respectively (Table 2b). Although lodging score averages among the varieties were significant they were almost negligible because the Lsd value was almost zero. Lodging score averages had to be 1 to qualify for the top performance group.

Warner, Group-I (Tables 2a & 2b): The 2004 and 2-year test yield averages were **47 and 44 bushels** per acre, respectively (Table 2a). Varieties had to average 49 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 43 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 6 bushels in 2004 for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.5%, 17.7%, and 1**, respectively (Table 2b). Lodging score averages among the varieties were not significantly different from one another.

Northern test zone, Group-I (Tables 2a & 2b): The 2004 and 2-year test yield averages in the Northern zone were **45 (70 entries) and 38 (14 entries) bushels** per acre, respectively (Table 2a). Varieties had to average 47 bushels or higher to be in the top yield group for 2004. Variety yield averages had to differ by 4 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.3%, 17.5%, and 1**, respectively (Table 1b). Lodging score averages among the varieties were not significantly different from one another.

CENTRAL TEST ZONE

BROOKINGS– Plant Science Research Farm
IROQUOIS– No-till, Augenbaugh Farm (cooperator)

Note: Test trials for maturity groups-0, -I, and -II were seeded at both Brookings and Iroquois. However, a custom

combine operator mistakenly harvested all three test trials at Iroquois and took them to the elevator. Therefore, these Central test zone results only include the Brookings trials.

Brookings, Group-0 (Tables 3a & 3b): The 2004 and 2-year test yield averages were **46 and 43 bushels** per acre, respectively (Table 3a). Varieties had to average 47 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 44 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **35.9%, 16.4%, and 2**, respectively (Table 3b). Lodging score averages had to be 2 or less to be in the top performance group.

Iroquois, Group-0 (Tables 3a & 3b): Plots not harvested in 2004.

Central test zone, Group-0 (Tables 3a & 3b): Results not reported because only one location in the test zone was harvested.

Brookings, Group-I (Tables 4a & 4b): The 2004 and 2-year test yield averages were **46 and 45 bushels** per acre, respectively (Table 4a). Varieties had to average 49 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 45 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and 5 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **35.3%, 16.5%, and 2**, respectively (Table 4b). Lodging score averages had to be 2 or less to be in the top performance group. In addition, lodging scores had to differ by 1 in order to be significantly different from one another.

Iroquois, Group-I (Tables 4a & 4b): Plots not harvested in 2004.

Central test zone, Group-I (Tables 4a & 4b): Results not reported because only one location in the test zone was harvested.

Brookings, Group-II (Tables 5a & 5b): The 2004 and 2-year test yield averages were **47 and 48 bushels** per acre, respectively (Table 4a). Varieties had to average 52 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 46 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 3 bushels in 2004 and 6 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **35.3%, 16.5%, and 3**, respectively (Table 5b). Lodging score averages had to be 2 or less to be in the top performance group. In addition, lodging scores had to differ by 1 in order to be significantly different from one another.

Iroquois, Group-II (Tables 4a & 4b): Plots not harvested in 2004.

Central test zone, Group-II (Tables 4a & 4b): Results not reported because only one location in the test zone was harvested.

SOUTHERN TEST ZONE

BERESFORD– South Dakota Agricultural Experiment Station Farm
ARMOUR- No-till, Mark & Cletus Wiechmann Farm (cooperator)

Beresford, Group-I (Tables 6a & 6b): The 2004 and 2-year test yield averages were **61 and 56 bushels** per acre, respectively (Table 6a). Varieties had to average 67 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 55 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 and 6 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.2%, 17.8%, and 2**, respectively (Table 6b). Lodging score averages had to be 2 or less to be in the top performance group. In addition, lodging scores had to differ by 1 in order to be significantly different from one another.

Armour, Group-I (Tables 6a & 6b): The 2004 and 2-year test yield averages were **37 and 29 bushels** per acre, respectively (Table 6a). Varieties had to average 37 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 28 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 and 4 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **31.7%, 19.6%, and 1**, respectively (Table 6b). There was no lodging observed in this trial for 2004.

Southern test zone, Group-I (Tables 6a & 6b): The 2004 and 2-year test yield averages in the Southern zone were **50 (22 entries) and 42 (6 entries) bushels** per acre, respectively (Table 6a). Varieties had to average 52 bushels or higher to be in the top yield group for 2004. Variety yield averages had to differ by 4 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **31.7%, 18.7%, and 1**, respectively (Table 6b). Although lodging

score averages among the varieties were significant, they were almost negligible because the Lsd value was almost zero. Lodging score averages had to be 1 to qualify for the top performance group.

Beresford, Group-II (Tables 7a & 7b): The 2004 and 2-year test yield averages were **64 and 57 bushels** per acre, respectively (Table 7a). Varieties had to average 68 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 54 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 and 8 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.9%, 17.2%, and 2**, respectively (Table 7b). Lodging score averages had to be 2 or less to be in the top performance group. In addition, lodging scores had to differ by 1 in order to be significantly different from one another.

Armour, Group-II (Tables 7a & 7b): The 2004 and 2-year test yield averages were **39 and 34 bushels** per acre, respectively (Table 7a). Varieties had to average 40 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 33 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 6 bushels in 2004 and 4 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **30.7%, 20.0%, and 1**, respectively (Table 7b). Lodging score averages had to be 2 or less to be in the top performance group. There was no lodging observed in this trial for 2004.

Southern test zone, Group-II (Tables 7a & 7b): The 2004 and 2-year test yield averages in the Southern zone were **53 (72 entries) and 46 (20 entries) bushels** per acre, respectively (Table 7a). Varieties had to average 54 bushels or higher to be in the top yield group for 2004. Variety yield averages had to differ by 4 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages (72 entries) were **31.8%, 18.6%, and 1**, respectively (Table 7b). Although lodging score averages among the varieties were significant they were almost negligible because the Lsd value was almost zero. Lodging score averages had to be 1 to qualify for the top performance group; therefore, varieties with lodging score averages of 2 or higher were significantly more prone to lodge.

NON-ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

Note: Yields are reported as 2004 averages or 2-year averages (2003-04).

SOUTH SHORE– Northeast Research Farm
BROOKINGS– Plant Science Research Farm
BERESFORD– South Dakota Agricultural Experiment Station Farm

South Shore, Group-0 (Tables 8a & 8b): The 2004 and 2-year test yield averages were **25 and 24 bushels** per acre, respectively (Table 8a). Varieties had to average 25 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 24 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 3 bushels in 2004 and for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **35.1%, 16.2%, and 1**, respectively (Table 8b). Lodging score averages among the varieties were not significantly different from one another.

South Shore, Group-I (Tables 8a & 8b): The 2004 and 2-year test yield averages were **29 and 25 bushels** per acre, respectively (Table 8a). Varieties had to average 34 bushels or higher to be in the top yield group for 2004. In this trial, only two varieties have been tested for 2 years and they were not significantly different in yield. Variety yield averages had to differ by 3 bushels or more in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **34.4%, 16.7%, and 1**, respectively (Table 8b). Lodging score averages among the varieties tested were not significantly different from one another.

Brookings, Group-0 (Tables 9a & 9b): The 2004 and 2-year test yield averages were **44 and 39 bushels** per acre, respectively (Table 9a). Varieties had to average 43 bushels or higher to be in the top yield group for 2004. There was no significant difference in yield among the six entries tested in 2004. Variety yield averages had to differ by 7 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **36.4%, 15.9%, and 1**, respectively (Table 9b). Lodging score averages among the varieties were not significantly different from one another.

Brookings, Group-I (Tables 9a & 9b): The 2004 and 2-year test yield averages were **49 and 42 bushels** per acre, respectively (Table 9a). Varieties had to average 53 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 41 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and 6 bushels for 2 years to be significantly

different. The 2004 protein, oil, and lodging score test averages were **35.8%, 16.4%, and 1**, respectively (Table 9b). Lodging score averages among the varieties were not significantly different from one another.

Brookings, Group-II (Tables 9a & 9b): The 2004 and 2-year test yield averages were **47 and 42 bushels** per acre, respectively (Table 9a). Varieties had to average 49 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 40 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and 5 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **36.4%, 15.9%, and 1**, respectively (Table 9b). Although lodging score averages among the varieties were significant they were almost negligible because the Lsd value was almost zero. Lodging score averages had to be 1 to qualify for the top performance group.

Beresford, Group-I (Tables 10a & 10b): The 2004 and 2-year test yield averages were **59 and 55 bushels** per acre, respectively (Table 10a). Varieties had to average 64 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 52 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 and 9 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **33.1%, 17.1%, and 2**, respectively (Table 10b). Lodging score averages had to be 2 or lower to qualify for the top performance group; therefore, varieties with lodging score averages of 3 or higher were significantly more prone to lodge.

Beresford, Group-II (Tables 10a & 10b): The 2004 and 2-year test yield averages were **62 and 55 bushels** per acre, respectively (Table 10a). Varieties had to average 63 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 52 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 7 bushels in 2004 and 8 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.9%, 17.1%, and 3**, respectively (Table 10b). Lodging score averages had to be 2 or lower to qualify for the top performance group; therefore, varieties with lodging score averages of 3 or higher were significantly more prone to lodge.

Table A. Traits of some public soybean varieties.

Variety	Emergence	Shattering	Iron Chlorosis
Hendricks	1	1	1.7
MN0901	3	2	3.7
Spink	1	1	2.4
Stride	1	1	3.7
Surge	1	1	2.7
Turner SCN	1	2	3.0
SDG 1081RR*	1	1	2.5
SDG 1091RR*	1	1	2.7

* Indicates Roundup Ready variety.

Emergence: 1=> 95%, 2= 91-94%, 3= 85-90%, 4= 76-84%, and 5=< 75%.

Shattering: 1= none, 2= 1-10%, 3= 11-25%, 4= 26-50%, and 5> 50%.

Iron Chlorosis: 1= little or no yellowing, 3= moderate yellowing, and 5= severe yellowing.

See additional comments in evaluation methods.

Table B. Genes for race resistance to *Phytophthora* root rot.

Source	Gene	Race resistance
Williams	rps1	None
Mukden	Rps1 (Rps1a)	1-2, 10-11, 13, 15-18, 24
Sanga	Rps1b	1, 3-9, 13-15, 18, 21-22
Mack	Rps1c	1-3, 6-11, 13, 15, 17, 21, 23-24
Kingwa	Rps1k	1-11, 13-15, 17-18, 21-22, 24
CNS2	Rps2	1-5, 9-20
PI171442	Rps3	1-5, 8-9, 11, 13-14, 16, 18, 23, 25
PI86050	Rps4	1-4, 10, 12-16, 18-21, 25
PI91160	Rps5	1-5, 8-9, 11-14, 18, 20, 25
Altona	Rps6	1-4, 10, 12, 14-16, 18-21, 25
Harosoy	Rps7	16, 18, 19
Archer	Rps1k, Rps6	1-22, 24-25
Keller	Rps1c, Rps3	1-10, 13-18, 22-25
Winchester	Rps1b, Rps3	1-9, 13-16, 18, 21-23, 25
	Unknown	Unknown
	Not reported	Not reported by seed source

Table C. 2004 Roundup Ready soybean entries by brand/variety, yield table number(s), and Phytophthora root rot race resistance.

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
ASGROW/AG0801	1,3	0	Not Reported
ASGROW/AG1001	1,3	0	Not Reported
ASGROW/AG1401	2,4	I	Not Reported
ASGROW/AG1603	2,4,6	I	Not Reported
ASGROW/AG1903	2,4,6	I	Not Reported
ASGROW/AG2107	7	II	Not Reported
ASGROW/AG2203	5,7	II	Not Reported
ASGROW/AG2302	7	II	Not Reported
ASGROW/AG2403	5,7	II	Not Reported
ASGROW/AG2801	7	II	Not Reported
BIO GENE/BG0913RR	1,3	0	Not Reported
BIO GENE/BG100RR	1,3	0	Not Reported
BIO GENE/BG150RR	2,4	I	1-3,6-11,13,15,17,21,23-24
COYOTE/4523RR	5,7	II	1-11,13-15,17-18,21-22,24
COYOTE/4527RR	7	II	1-11,13-15,17-18,21-22,24
COYOTE/4719RR	4,6	I	1-11,13-15,17-18,21-22,24
COYOTE/9524RR	7	II	1-11,13-15,17-18,21-22,24
COYOTE/EX325RR	7	II	No Resistance
DAIRYLAND/DSR-040/RR	1	0	No Resistance
DAIRYLAND/DSR-050/RR	1,3	0	No Resistance
DAIRYLAND/DSR-091/RR	1	0	No Resistance
DAIRYLAND/DSR-130/RR	2	I	No Resistance
DAIRYLAND/DSR-155/RR	4	I	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-184/RR	4	I	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-199/RR	4	I	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-234/RR	5,7	II	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-2500/RR	7	II	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-277/RR	7	II	1-11,13-15,17-18,21-22,24
DAIRYLAND/DST08-000/RR	1,3	0	No Resistance
DAIRYLAND/DST13-000/RR	2,4	I	No Resistance
DAIRYLAND/DST15-000/RR	2,4	I	No Resistance
DAIRYLAND/DST20-000/RR	5	II	1-11,13-15,17-18,21-22,24
DEKALB/DKB07-52	1,3	0	Not Reported
DEKALB/DKB19-52	2,4,6	I	Not Reported
DEKALB/DKB22-52	5,7	II	Not Reported
DEKALB/DKB25-51	7	II	Not Reported
DYNA-GRO/DG 31B08	1,3	0	1-11,13-15,17-18,21-22,24
DYNA-GRO/DG 31C15	2,4	I	No Resistance
DYNA-GRO/DG 32F12	2,4	I	No Resistance
DYNA-GRO/DG 32Y09	1,3	0	1-3,6-11,13,15,17,21,23-24
DYNA-GRO/DG 33R09	1,3	0	1-11,13-15,17-18,21-22,24
DYNA-GRO/DG 34R12	2,4	I	No Resistance
DYNA-GRO/DG 37A10	1,3	0	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
EXCEL/8020RR	1	0	Not Reported
EXCEL/8055RR	1	0	Not Reported
EXCEL/8151RR	2,4	I	Not Reported
EXCEL/8160RR	2,4	I	Not Reported
EXCEL/8192RR	4	I	1-11,13-15,17-18,21-22,24
EXCEL/8194RR	4	I	Not Reported
EXCEL/8211NRR	5	II	Not Reported
EXCEL/8236NRR	7	II	1-11,13-15,17-18,21-22,24
FARM ADVANTAGE/7192	4	I	No Resistance
FARM ADVANTAGE/7205	5	II	1-2,10-11,13,15-18,24
FARM ADVANTAGE/7254N	7	II	1-2,10-11,13,15-18,24
FARM ADVANTAGE/7264	7	II	1-11,13-15,17-18,21-22,24
GOLD COUNTRY/2509RR	1	0	No Resistance
GOLD COUNTRY/3512RR	2,4	I	1-3,6-11,13,15,17,21,23-24
GOLD COUNTRY/6016RR	2,4	I	1-3,6-11,13,15,17,21,23-24
GOLD COUNTRY/6117RR	2,4	I	No Resistance
GOLD COUNTRY/6221RR	5,7	II	1-11,13-15,17-18,21-22,24
GOLD COUNTRY/EXP-318RR	4,6	I	No Resistance
GOLD COUNTRY/EXP-325RR	7	II	No Resistance
JACOBSEN/J642R	2	I	Not Reported
JACOBSEN/J647R	2	I	Not Reported
JACOBSEN/J730NR	5,7	II	Not Reported
JACOBSEN/J733R	5,7	II	Not Reported
JACOBSEN/J744NR	7	II	Not Reported
JACOBSEN/J828R	7	II	Not Reported
KALTENBERG/KB153RR	6,6	I	No Resistance
KALTENBERG/KB203RR	7	II	No Resistance
KALTENBERG/KB245RR	7	II	1-2,10-11,13,15-18,24
KALTENBERG/KB275RR	7	II	1-3,6-11,13,15,17,21,23-24
KELTGEN AGVENTURE/AV 10J8RR	2	I	Not Reported
KRUGER/090RR	1,3	0	Not Reported
KRUGER/098RR	1,3	0	No Resistance
KRUGER/099+RR	1,3	0	No Resistance
KRUGER/101RR	1,3	0	1-11,13-15,17-18,21-22,24
KRUGER/125RR	2,4	I	1-11,13-15,17-18,21-22,24
KRUGER/149+RR	2,4	I	1-11,13-15,17-18,21-22,24
KRUGER/155+RR	4,6	I	No Resistance
KRUGER/191RR	2,4,6	I	1-11,13-15,17-18,21-22,24
KRUGER/192RR	2,4,6	I	No Resistance
KRUGER/195+RR/SCN	2	I	1-11,13-15,17-18,21-22,24
KRUGER/200RR	5,7	II	1-2,10-11,13,15-18,24
KRUGER/211+RR	2,4,6	I	1-11,13-15,17-18,21-22,24
KRUGER/223+RR	2,4,6	I	1-11,13-15,17-18,21-22,24
KRUGER/223RR	2,4,6	I	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
KRUGER/233+RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/252RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/268+RR	5,7	II	No Resistance
KRUGER/270RR	7	II	No Resistance
KRUGER/273RR	7	II	1-3,6-11,13,15,17,21,23-24
KRUGER/277+RR/SCN	7	II	Not Reported
KRUGER/289+RR	7	II	1-11,13-15,17-18,21-22,24
KRUGER/EXP089RR	1,3	0	Unknown
KRUGER/EXP152RR	2	I	No Resistance
KRUGER/EXP167RR	2,4	I	Unknown
KRUGER/EXP234RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/EXP257RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/EXP268RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/EXP287RR	7	II	1-11,13-15,17-18,21-22,24
LATHAM/497RR	7	II	1-5,9-20
LATHAM/738RR	7	II	1-11,13-15,17-18,21-22,24
LATHAM/EXP-E1230R	2	I	No Resistance
LATHAM/EXP-E1330R	2	I	No Resistance
LATHAM/EXP-E1635R	4	I	1-11,13-15,17-18,21-22,24
LATHAM/EXP-E1936R	4,6	I	No Resistance
LATHAM/EXP-E2450R	7	II	1-11,13-15,17-18,21-22,24
LATHAM/EXP-E2635R	7	II	1-3,6-11,13,15,17,21,23-24
LATHAM/EXP-E2646R	7	II	No Resistance
LATHAM/L2136R	5,7	II	No Resistance
LATHAM/L2857R	7	II	1-11,13-15,17-18,21-22,24
LATHAM/L2900R	7	II	No Resistance
MALLARD/EXP RR0914	1	0	1-11,13-15,17-18,21-22,24
MALLARD/EXP RR1111	2	I	No Resistance
MALLARD/EXP RR1314	2	I	1-3,6-11,13,15,17,21,23-24
MALLARD/EXP RR1512	2	I	1-11,13-15,17-18,21-22,24
MALLARD/EXP RR2411	7	II	No Resistance
MUSTANG/E-1852NRR	4	I	1-2,10-11,13,15-18,24
MUSTANG/M-053RR	1	0	No Resistance
MUSTANG/M-055RR	1	0	No Resistance
MUSTANG/M-075RR	1	0	1-2,10-11,13,15-18,24
MUSTANG/M-083RR	1,3	0	No Resistance
MUSTANG/M-092RR	1	0	No Resistance
MUSTANG/M-094RR	1,3	0	No Resistance
MUSTANG/M-095RR	1,3	0	No Resistance
MUSTANG/M-115RR	2,4	I	1-3,6-11,13,15,17,21,23-24
MUSTANG/M-124RR	2,4	I	No Resistance
MUSTANG/M-151RR	2,4	I	1-3,6-11,13,15,17,21,23-24
MUSTANG/M-153RR	2,4	I	No Resistance
MUSTANG/M-155RR	2,4	I	1-11,13-15,17-18,21-22,24
MUSTANG/M-174RR	2,4	I	1-11,13-15,17-18,21-22,24
MUSTANG/M-194NRR	4	I	1-11,13-15,17-18,21-22,24
MUSTANG/M-201RR	5,7	II	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
MUSTANG/M-203RR	5,7	II	No Resistance
MUSTANG/M-223RR	5,7	II	No Resistance
MUSTANG/M-243RR	7	II	1-11,13-15,17-18,21-22,24
MUSTANG/M-255RR	7	II	No Resistance
MUSTANG/M-264RR	7	II	1-11,13-15,17-18,21-22,24
MUSTANG/M-284RR	7	II	1-11,13-15,17-18,21-22,24
NK BRAND/S14-A7	2,4	I	1-3,6-11,13,15,17,21,23-24
NK BRAND/S17-P9	2,4	I	1-3,6-11,13,15,17,21,23-24
NK BRAND/S19-R5	4,6	I	1-2,10-11,13,15-18,24
NK BRAND/S27-T7	7	II	No Resistance
NORTHSTAR/NS 0509RR	1	0	1-11,13-15,17-18,21-22,24
NORTHSTAR/NS 0517RR	1	0	No Resistance
NORTHSTAR/NS 0609RR	1	0	1-3,6-11,13,15,17,21,23-24
NORTHSTAR/NS 0805RR	1	0	1-11,13-15,17-18,21-22,24
NORTHSTAR/NS 0923RR	3	0	No Resistance
NORTHSTAR/NS 0954RR	1,3	0	No Resistance
NORTHSTAR/NS 1019RR	2,4	I	1-11,13-15,17-18,21-22,24
NORTHSTAR/NS 1407RR	2,4	I	No Resistance
NORTHSTAR/NS 1409RR	2,4	I	1-11,13-15,17-18,21-22,24
NORTHSTAR/NS 1624RR	4	I	1-3,6-11,13,15,17,21,23-24
NORTHSTAR/NS 1710RR	4	I	Unknown
NORTHSTAR/NS 2009RR	5	II	1-11,13-15,17-18,21-22,24
NUTECH/NT-0606RR	1	0	No Resistance
NUTECH/NT-0676+RR	1	0	1-2,10-11,13,15-18,24
NUTECH/NT-0711ARR	1	0	Not Reported
NUTECH/NT-0811RR	3	0	No Resistance
NUTECH/NT-0848RR	1,3	0	Not Reported
NUTECH/NT-0889RR	1,3	0	No Resistance
NUTECH/NT-0999RR	1,3	0	1-11,13-15,17-18,21-22,24
NUTECH/NT-1010RR	2,4	I	1-2,10-11,13,15-18,24
NUTECH/NT-1901RR	6	I	Not Reported
NUTECH/NT-1909RR	2,4,6	I	No Resistance
NUTECH/NT-2002RR	2,4,6	I	1-11,13-15,17-18,21-22,24
NUTECH/NT-2202RR	2,4,6	I	1-11,13-15,17-18,21-22,24
NUTECH/NT-2404RR	5,7	II	1-11,13-15,17-18,21-22,24
NUTECH/NT-2505RR	7	II	No Resistance
NUTECH/NT-2550RR	7	II	1-11,13-15,17-18,21-22,24
NUTECH/NT-2707RR	7	II	1-3,6-11,13,15,17,21,23-24
NUTECH/NT-2790+RR	7	II	1-2,10-11,13,15-18,24
PETERSON/EXP 1.2RR	2,4	I	No Resistance
PETERSON/PFS 0410RR	2,4	I	1-11,13-15,17-18,21-22,24
PETERSON/PFS 0415RR	2,4	I	No Resistance
PETERSON/PFS 0511RR	2,4	I	No Resistance
PRAIRIE BR./PB-0812RR	1	0	Not Reported
PRAIRIE BR./PB-0923RR	1,3	0	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
PRAIRIE BR./PB-0954RR	1,3	0	Not Reported
PRAIRIE BR./PB-1043RR	1	0	Not Reported
PRAIRIE BR./PB-1063RR	1	0	Not Reported
PRAIRIE BR./PB-1254RR	2	I	Not Reported
PRAIRIE BR./PB-1294RR	2,4	I	1-3,6-11,13,15,17,21,23-24
PRAIRIE BR./PB-1354RR	2	I	Not Reported
PRAIRIE BR./PB-1552RR	2,4	I	Not Reported
PRAIRIE BR./PB-1620RR	2,4	I	1-3,6-11,13,15,17,21,23-24
PRAIRIE BR./PB-1634RR	2,4	I	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-1754RR	2,4,6	I	Not Reported
PRAIRIE BR./PB-1914RR	2,4,6	I	Not Reported
PRAIRIE BR./PB-1921RR	4	I	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-1954RR	2,4,6	I	Not Reported
PRAIRIE BR./PB-2112RR	4,6	I	Not Reported
PRAIRIE BR./PB-2141RR	5,7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2243RR	5,7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2343RR	5,7	II	Not Reported
PRAIRIE BR./PB-2374RR	5,7	II	Not Reported
PRAIRIE BR./PB-2421RR	5,7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2443RR	7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2474RR	5,7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2534RR	5,7	II	Not Reported
PRAIRIE BR./PB-2643RR	7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2934RR	7	II	1-3,6-11,13,15,17,21,23-24
PUBLIC/MN-0904RR	1,3	0	1-11,13-15,17-18,21-22,24
PUBLIC/MN-1803RR	2,4,6	I	Not Reported
PUBLIC/SD00-1018R	2,6	I	Not Reported
PUBLIC/SD00-1037R	1,3	0	Not Reported
PUBLIC/SD00-1251R	1,3	0	Not Reported
PUBLIC/SD00-1258R	1,3	0	Not Reported
PUBLIC/SD00-236R	2,4,6	I	Not Reported
PUBLIC/SD01-1071R	3	0	Not Reported
PUBLIC/SD01-1075R	2,4,6	I	Not Reported
PUBLIC/SD01-1094R	2,4,6	I	Not Reported
PUBLIC/SD01-1120R	4,6	I	Not Reported
PUBLIC/SD01-1135R	5,7	II	Not Reported
PUBLIC/SD01-1200R	3	0	Not Reported
PUBLIC/SD01-1253R	1	0	Not Reported
PUBLIC/SD01-1780R	1	0	Not Reported
PUBLIC/SD01-1792R	2,4,6	I	Not Reported
PUBLIC/SD01-187R	1,3	0	Not Reported
PUBLIC/SD01-2469R	5,7	II	Not Reported
PUBLIC/SD01-2475R	1,3	0	Not Reported
PUBLIC/SD01-2493R	5,7	II	Not Reported
PUBLIC/SD01-2509R	5,7	II	Not Reported
PUBLIC/SD01-2736R	1,3	0	Not Reported
PUBLIC/SD01-2961R	5,7	II	Not Reported
PUBLIC/SD01-3219R	2,4,6	I	Not Reported
PUBLIC/SD01-3387R	4,6,6	I	Not Reported

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
PUBLIC/SD01-3402R	2,6	I	Not Reported
PUBLIC/SD01-3603R	5,7	II	Not Reported
PUBLIC/SD01-5R	5,7	II	Not Reported
PUBLIC/SD01-67R	2,4,6	I	Not Reported
PUBLIC/SD01-76R	5,7	II	Not Reported
PUBLIC/SD1091RR-4	1,3	0	Not Reported
PUBLIC/SD93-1233T	1,3	0	Not Reported
PUBLIC/SD93-828R	5,7	II	Not Reported
PUBLIC/SD96-170RR-28L	2,4,6	I	Not Reported
PUBLIC/SDX00-022R-23	2,4,6	I	Not Reported
PUBLIC/SDX00-022R-53	2,4	I	Not Reported
PUBLIC/SDX00-024R-14	2,4,6	I	Not Reported
PUBLIC/SDX00-051R-23	5,7	II	Not Reported
PUBLIC/SDX00-053R-46	2,4,6	I	Not Reported
PUBLIC/SDX00R-014-50	5,7	II	Not Reported
PUBLIC/SDX00R-015-4	5,7	II	Not Reported
PUBLIC/SDX00R-022-66	4,6	I	Not Reported
PUBLIC/SDX00R-029-3	2,6	I	Not Reported
PUBLIC/SDX00R-030-16	5,7	II	Not Reported
PUBLIC/SDX00R-035-12	2,4	I	Not Reported
PUBLIC/SDX00R-035-24	3	0	Not Reported
PUBLIC/SDX00R-035-39	1,3	0	Not Reported
PUBLIC/SDX00R-035-42	4,6	I	Not Reported
PUBLIC/SDX00R-035-59	2,4,6	I	Not Reported
PUBLIC/SDX00R-039-42	5,7	II	Not Reported
RENK/RS159RR	4	I	1-3,6-11,13,15,17,21,23-24
RENK/RS199RR	4	I	1-11,13-15,17-18,21-22,24
RENK/RS223RR	5,7	II	1-11,13-15,17-18,21-22,24
RENK/RS234RR	7	II	Not Reported
RENK/RS244NRR	7	II	1-2,10-11,13,15-18,24
RENK/RS253RR	7	II	Not Reported
SANDS/EXP 0969RR	1,3	0	1-11,13-15,17-18,21-22,24
SANDS/EXP 1766RR	2,4	I	1-2,10-11,13,15-18,24
SANDS/EXP 2669RR	7	II	1-3,6-11,13,15,17,21,23-24
SANDS/SOI 0661RR	1,3	0	No Resistance
SANDS/SOI 0931RR	1,3	0	1-2,10-11,13,15-18,24
SANDS/SOI 1261RR	2,4	I	1-3,6-11,13,15,17,21,23-24
SANDS/SOI 1540RR	2,4	I	No Resistance
SANDS/SOI 2143RR	5,7	II	1-11,13-15,17-18,21-22,24
SANDS/SOI 2151NRR	7	II	1-11,13-15,17-18,21-22,24
SANDS/SOI 2169RR	5,7	II	1-2,10-11,13,15-18,24
SANDS/SOI 226RR	7	II	No Resistance
SANDS/SOI 2642NRR	7	II	1-2,10-11,13,15-18,24
SANDS/SOI 2754RR	7	II	1-11,13-15,17-18,21-22,24
SANDS/SOI 2872RR	7	II	1-3,6-11,13,15,17,21,23-24
SEEDS 2000/2090RR	1	0	No Resistance
SEEDS 2000/2130RR	2	I	Unknown

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
SODAK GENETICS/SD1081RR	1,3	0	1-2,10-11,13,15-18,24
SODAK GENETICS/SD1091RR	1,3	0	1-2,10-11,13,15-18,24
SODAK GENETICS/SD1151RR	2,4,6	I	Not Reported
STINE/S0504-4	1	0	1-2,10-11,13,15-18,24
STINE/S0900-4	1	0	No Resistance
STINE/S0906-4	1,3	0	1-11,13-15,17-18,21-22,24
STINE/S0943-4	2,4	I	1-11,13-15,17-18,21-22,24
STINE/S0992-4	2	I	No Resistance
STINE/S1300-4	2,4	I	No Resistance
STINE/S1586-4	2,4	I	1-2,10-11,13,15-18,24
STINE/S1918-4	2,4,6	I	No Resistance
STINE/S2103-4	7	II	1-11,13-15,17-18,21-22,24
STINE/S2116-4	5,7	II	1-11,13-15,17-18,21-22,24
STINE/S2403-4	7	II	1-11,13-15,17-18,21-22,24
STINE/S2404-4	7	II	No Resistance
STINE/S2783-4	7	II	1-11,13-15,17-18,21-22,24
TECH. DIRECT/TD-055RR	1	0	No Resistance
TECH. DIRECT/TD-077RR	1	0	1-2,10-11,13,15-18,24
TECH. DIRECT/TD-099RR	1,3	0	No Resistance
TECH. DIRECT/TD-199RR	2,4,6	I	1-11,13-15,17-18,21-22,24
TECH. DIRECT/TD-202RR	2,4,6	I	1-11,13-15,17-18,21-22,24
TECH. DIRECT/TD-233RR	7	II	1-11,13-15,17-18,21-22,24
TECH. DIRECT/TD-255RR	7	II	No Resistance
TECH. DIRECT/TD-262RR	7	II	1-3,6-11,13,15,17,21,23-24
TECH. DIRECT/TD-266RR	7	II	1-2,10-11,13,15-18,24
THOMPSON/T-0889+RR	1,3	0	No Resistance
THOMPSON/T-1212RR/SCN	4	I	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-1444RR	2	I	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-1577RR	2	I	No Resistance
THOMPSON/T-1818RR/SCN	2,4	I	1-2,10-11,13,15-18,24
THOMPSON/T-1901RR	2,4	I	Not Reported
THOMPSON/T-2121RR/SCN	7	II	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-2121RR/SCN	2	I	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-2343RR	5,7	II	1-11,13-15,17-18,21-22,24
THOMPSON/T-2404+RR	7	II	1-11,13-15,17-18,21-22,24
THOMPSON/T-2422RR	7	II	1-11,13-15,17-18,21-22,24
THOMPSON/T-2505+RR	7	II	No Resistance
THOMPSON/T-2707+RR	7	II	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-2790+RR	7	II	1-2,10-11,13,15-18,24
THOMPSON/T-7193RR/SCN	2,4	I	1-11,13-15,17-18,21-22,24
THOMPSON/T-7205RR	2,4,6	I	1-11,13-15,17-18,21-22,24
THOMPSON/T-7214RR	4,6	I	No Resistance
THOMPSON/T-7234ARR	5,7	II	1-11,13-15,17-18,21-22,24
THOMPSON/T-7234RR	2,4,6	I	1-11,13-15,17-18,21-22,24
THUNDER/2209RR	1	0	1-11,13-15,17-18,21-22,24
THUNDER/2413NRR	4	I	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
TOP FARM/6102RR	1,3	0	Not Reported
TOP FARM/6144RR	4	I	Not Reported
TOP FARM/6174RR	4	I	Not Reported
TOP FARM/E34104RR	5,5,7	II	Not Reported
TOP FARM/E34412RR	5,7	II	Not Reported
TOP FARM/E34514RR	4	I	Not Reported
TOP FARM/E34520RR	5,7	II	Not Reported
TOP FARM/E34714RR	4,6	I	Not Reported
TOP FARM/E34904RR	4,6	I	Not Reported
TOP FARM/E3M245RR	5,7	II	Not Reported
TOP FARM/E3M278RR	5,7	II	Not Reported
TOP FARM/E3M321RR	4,6	I	Not Reported
WENSMAN/W 2062RR	1	0	Not Reported
WENSMAN/W 2090RR	1	0	Not Reported
WENSMAN/W 2103RR	1	0	1-11,13-15,17-18,21-22,24
WENSMAN/W 2121RR	2	I	1-3,6-11,13,15,17,21,23-24
WENSMAN/W 2144RR	2,4	I	1-11,13-15,17-18,21-22,24
WENSMAN/W 2163RR	4	I	1-2,10-11,13,15-18,24
WENSMAN/W 2211RR	5	II	1-11,13-15,17-18,21-22,24
WENSMAN/W 2400RR	5	II	1-11,13-15,17-18,21-22,24
ZILLER/BT 7145R	2,4	I	1-2,10-11,13,15-18,24
ZILLER/BT 7150R	4	I	1-3,6-11,13,15,17,21,23-24
ZILLER/BT 7193R	4,6	I	1-2,10-11,13,15-18,24
ZILLER/BT 7215R	7	II	1-11,13-15,17-18,21-22,24
ZILLER/EXP33513R	2	I	1-2,10-11,13,15-18,24
ZILLER/EXP44310R	2	I	1-2,10-11,13,15-18,24

Table 1a. Roundup Ready maturity group-0 soybean variety yield averages- northern South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2004	Bu/Acre 2-Yr
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr		
NUTECH/NT-0999RR	126	45	.	52	.	49	.
PRAIRIE BR./PB-0954RR	128	44	.	51	.	48	.
KRUGER/101RR	128	42	31	51	49	47	40
GOLD COUNTRY/2509RR	126	43	.	50	.	47	.
DYNA-GRO/DG 33R09	126	44	.	49	.	47	.
WENSMAN/W 2103RR	126	44	32	49	47	47	40
MUSTANG/M-094RR	127	44	33	48	49	46	41
MUSTANG/M-095RR	127	43	.	48	.	46	.
KRUGER/098RR	126	42	30	50	50	46	40
KRUGER/090RR	126	42	.	49	.	46	.
PRAIRIE BR./PB-0923RR	126	40	30	51	50	46	40
DYNA-GRO/DG 37A10	126	41	.	51	.	46	.
NORTHSTAR/NS 0954RR	127	45	34	46	45	46	40
NUTECH/NT-0889RR	126	43	.	47	.	45	.
TECH. DIRECT/TD-099RR	127	43	.	46	.	45	.
THOMPSON/T-0889+RR	126	42	.	47	.	45	.
MUSTANG/M-092RR	127	39	31	48	46	44	39
MALLARD/EXP RR0914	125	40	.	47	.	44	.
NUTECH/NT-0676+RR	125	41	.	46	.	44	.
NUTECH/NT-0711ARR	129	42	.	45	.	44	.
KRUGER/EXP089RR	126	44	.	43	.	44	.
PRAIRIE BR./PB-1063RR	126	38	29	49	48	44	39
SEEDS 2000/2090RR	127	40	.	48	.	44	.
BIO GENE/BG0913RR	127	40	.	48	.	44	.
MUSTANG/M-075RR	124	40	.	45	.	43	.
NUTECH/NT-0606RR	122	41	.	45	.	43	.
TECH. DIRECT/TD-077RR	124	41	.	45	.	43	.
STINE/S0900-4	127	41	.	45	.	43	.
PRAIRIE BR./PB-1043RR	130	40	30	46	46	43	38
DYNA-GRO/DG 32Y09	123	39	.	46	.	43	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 1a. Roundup Ready maturity group-0 soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2004	Bu/Acre 2-Yr
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr		
WENSMAN/W 2090RR	126	36	.	49	.	43	.
NORTHSTAR/NS 0609RR	125	41	.	44	.	43	.
ASGROW/AG0801	124	38	29	45	47	42	38
ASGROW/AG1001	125	39	.	44	.	42	.
MUSTANG/M-083RR	125	38	31	46	46	42	39
DEKALB/DKB07-52	121	38	30	45	46	42	38
NUTECH/NT-0848RR	126	42	.	42	.	42	.
KRUGER/099+RR	126	40	32	44	48	42	40
PRAIRIE BR./PB-0812RR	126	39	30	45	45	42	38
NORTHSTAR/NS 0517RR	122	40	.	44	.	42	.
SODAK GENETICS/SD1091RR	126	38	28	45	46	42	37
MUSTANG/M-055RR	124	37	.	45	.	41	.
TECH. DIRECT/TD-055RR	122	40	.	42	.	41	.
WENSMAN/W 2062RR	122	37	29	44	47	41	38
PUBLIC/SD01-1253R	123	37	.	45	.	41	.
PUBLIC/SD1091RR-4	129	37	.	44	.	41	.
PUBLIC/MN-0904RR	126	36	28	45	47	41	38
MUSTANG/M-053RR	121	37	31	42	45	40	38
PUBLIC/SDX00R-035-39	127	39	.	41	.	40	.
DYNA-GRO/DG 31B08	123	33	.	45	.	39	.
BIO GENE/BG100RR	128	38	.	39	.	39	.
PUBLIC/SD01-187R	128	34	.	43	.	39	.
THUNDER/2209RR	126	35	.	41	.	38	.
STINE/S0906-4	128	34	.	41	.	38	.
SODAK GENETICS/SD1081RR	126	36	28	39	43	38	36
PUBLIC/SD01-2736R	126	35	.	41	.	38	.
PUBLIC/SD01-1780R	127	33	.	35	.	34	.
SANDS/SOI 0931RR	126	40	31	.	.	.	.
SANDS/EXP 0969RR	129	44	.	.	.	.	.
SANDS/SOI 0661RR	126	35	.	.	.	.	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 1a. Roundup Ready maturity group-0 soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2004	Bu/Acre 2-Yr
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr		
DAIRYLAND/DSR-040/RR	126	39	30	.	.	.	.
DAIRYLAND/DSR-050/RR	122	.	.	48	49	.	.
DAIRYLAND/DST08-000/RR	130	36	.	.	.	.	.
DAIRYLAND/DSR-091/RR	124	.	.	42	.	.	.
TOP FARM/6102RR	126	36	29	.	.	.	.
STINE/S0504-4	123	.	.	44	.	.	.
NORTHSTAR/NS 0509RR	123	34	.	.	.	.	.
NORTHSTAR/NS 0805RR	127	34	.	.	.	.	.
EXCEL/8055RR	122	.	.	48	49	.	.
EXCEL/8020RR	118	.	.	42	.	.	.
PUBLIC/SD01-2475R	131	41	.	.	.	.	.
PUBLIC/SD00-1037R	131	36	30	.	.	.	.
PUBLIC/SD00-1251R	130	35	27	.	.	.	.
PUBLIC/SD00-1258R	133	37	27	.	.	.	.
PUBLIC/SD93-1233T	130	38	30	.	.	.	.
Test avg.:	126	39	30	46	47	43	39
High value:	133	45	34	52	50	49	41
# Lsd (.05):		6	4	4	5	4	.
## TPG-value:		39	30	48	45	45	.
@ Coef. Var.:		9	10	6	7	8	.
No. Entries:		70	26	62	21	57	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.
Lsd,(.05)= amount values in a column must differ to be significantly different.
TPG-value= minimum value to qualify for top performance group.
@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 1b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004.

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
SODAK GENETICS/SD1091RR	126	36.3	16.0	1	36.8	16.9	1	36.6	16.5	1
NORTHSTAR/NS 0609RR	125	35.4	15.9	1	36.2	16.3	1	35.8	16.1	1
PUBLIC/SD01-1253R	123	35.9	15.2	1	35.2	16.5	1	35.6	15.9	1
PUBLIC/SD01-1780R	127	35.4	15.7	1	35.1	16.7	1	35.3	16.2	1
MUSTANG/M-094RR	127	34.9	16.0	1	35.2	16.6	1	35.1	16.3	1
KRUGER/099+RR	126	34.6	17.0	1	35.5	16.9	1	35.1	17.0	1
PUBLIC/SD1091RR-4	129	34.8	16.2	2	35.3	17.0	1	35.1	16.6	1
NORTHSTAR/NS 0954RR	127	34.4	17.0	1	35.5	17.0	1	35.0	17.0	1
SEEDS 2000/2090RR	127	34.6	16.4	1	35.2	16.7	1	34.9	16.6	1
BIO GENE/BG0913RR	127	34.3	16.6	1	35.3	16.5	1	34.8	16.6	1
DEKALB/DKB07-52	121	34.3	16.3	1	35.2	17.1	1	34.8	16.7	1
PRAIRIE BR./PB-1063RR	126	34.4	16.3	1	35.0	16.9	1	34.7	16.6	1
NUTECH/NT-0606RR	122	34.3	16.4	1	35.0	17.0	1	34.7	16.7	1
PUBLIC/MN-0904RR	126	34.3	16.9	1	35.0	17.3	1	34.7	17.1	1
MUSTANG/M-083RR	125	34.3	17.0	1	34.9	17.5	1	34.6	17.3	1
MUSTANG/M-092RR	127	34.4	16.3	1	34.8	17.3	1	34.6	16.8	1
KRUGER/090RR	126	34.4	16.0	1	34.7	16.6	1	34.6	16.3	1
WENSMAN/W 2062RR	122	34.6	16.2	1	34.4	17.0	1	34.5	16.6	1
NORTHSTAR/NS 0517RR	122	34.3	16.4	1	34.7	17.2	1	34.5	16.8	1
PUBLIC/SD01-187R	128	33.6	17.0	1	35.1	17.3	1	34.4	17.2	1
NUTECH/NT-0848RR	126	33.8	16.8	1	34.9	17.3	1	34.3	17.1	1
MUSTANG/M-053RR	121	33.6	16.9	1	35.0	17.2	1	34.3	17.1	1
PRAIRIE BR./PB-0812RR	126	33.8	16.9	1	34.8	17.6	1	34.3	17.3	1
TECH. DIRECT/TD-055RR	122	34.0	16.7	1	34.3	17.1	1	34.2	16.9	1
KRUGER/EXP089RR	126	33.9	16.6	1	34.3	17.1	1	34.1	16.9	1
STINE/S0906-4	128	33.4	16.9	1	34.7	17.4	1	34.1	17.2	1
THUNDER/2209RR	126	34.0	17.1	1	33.9	17.5	1	34.0	17.3	1
NUTECH/NT-0711ARR	129	33.6	16.4	1	34.2	16.9	1	33.9	16.7	1
TECH. DIRECT/TD-077RR	124	33.9	16.2	1	33.8	17.1	1	33.8	16.7	1
MUSTANG/M-075RR	124	33.9	16.2	1	33.7	17.3	1	33.8	16.8	1

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 1b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
MUSTANG/M-055RR	124	33.3	16.5	1	34.1	17.0	1	33.7	16.8	1
WENSMAN/W 2103RR	126	33.2	16.8	1	34.0	17.2	1	33.6	17.0	1
NUTECH/NT-0676+RR	125	33.8	16.2	1	33.4	17.1	1	33.6	16.7	1
PRAIRIE BR./PB-0923RR	126	32.6	17.0	1	34.2	17.3	1	33.4	17.2	1
PRAIRIE BR./PB-1043RR	130	33.0	17.6	1	33.7	18.0	1	33.4	17.8	1
NUTECH/NT-0999RR	126	32.9	16.9	1	33.8	17.2	1	33.3	17.1	1
KRUGER/101RR	128	32.9	17.0	1	33.8	17.2	1	33.3	17.1	1
ASGROW/AG1001	125	33.2	16.8	1	33.2	17.7	1	33.2	17.3	1
DYNA-GRO/DG 37A10	126	32.8	16.9	1	33.6	17.3	1	33.2	17.1	1
PRAIRIE BR./PB-0954RR	128	32.7	17.4	1	33.6	17.8	1	33.2	17.6	1
GOLD COUNTRY/2509RR	126	32.8	17.3	1	33.5	17.8	1	33.2	17.6	1
BIO GENE/BG100RR	128	33.0	17.0	1	33.2	17.6	1	33.1	17.3	1
KRUGER/098RR	126	32.8	17.1	1	33.3	17.8	1	33.1	17.5	1
PUBLIC/SD01-2736R	126	33.4	17.2	1	32.6	18.5	1	33.0	17.9	1
SODAK GENETICS/SD1081RR	126	32.7	17.2	1	33.1	18.2	1	32.9	17.7	1
NUTECH/NT-0889RR	126	32.8	17.5	1	33.0	17.8	1	32.9	17.7	1
MUSTANG/M-095RR	127	32.5	17.2	1	33.2	17.7	1	32.9	17.5	1
TECH. DIRECT/TD-099RR	127	32.5	17.1	1	33.2	18.0	1	32.9	17.6	1
MALLARD/EXP RR0914	125	32.3	16.3	1	33.4	17.2	1	32.8	16.8	1
STINE/S0900-4	127	32.5	17.7	1	33.1	18.0	1	32.8	17.9	1
THOMPSON/T-0889+RR	126	32.4	17.4	1	33.2	18.0	1	32.8	17.7	1
WENSMAN/W 2090RR	126	32.3	17.2	1	33.2	17.8	1	32.8	17.5	1
DYNA-GRO/DG 33R09	126	32.9	16.3	1	32.5	16.8	1	32.7	16.6	1
DYNA-GRO/DG 32Y09	123	32.5	17.1	1	32.7	18.0	1	32.6	17.6	1
DYNA-GRO/DG 31B08	123	32.1	17.4	1	32.9	17.7	1	32.5	17.6	1
PUBLIC/SDX00R-035-39	127	31.9	17.6	1	31.9	18.8	1	31.9	18.2	1
ASGROW/AG0801	124	32.5	16.4	1	31.1	17.5	1	31.8	17.0	1
SANDS/SOI 0931RR	126	33.2	16.8	1	.	.	.	.	.	.
SANDS/EXP 0969RR	129	32.1	16.7	1	.	.	.	.	.	.
SANDS/SOI 0661RR	126	35.3	16.2	1	.	.	.	.	.	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 1b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
DAIRYLAND/DSR-040/RR	126	33.3	17.0	1	.	.	.	.	.	.
DAIRYLAND/DSR-050/RR	122	.	.	.	33.3	17.5	1	.	.	.
DAIRYLAND/DST08-000/RR	130	33.0	17.1	1	.	.	.	.	.	.
DAIRYLAND/DSR-091/RR	124	.	.	.	34.9	17.1	1	.	.	.
TOP FARM/6102RR	126	33.7	16.9	1	.	.	.	.	.	.
STINE/S0504-4	123	.	.	.	33.3	17.0	1	.	.	.
NORTHSTAR/NS 0509RR	123	33.7	17.0	1	.	.	.	.	.	.
NORTHSTAR/NS 0805RR	127	31.9	17.3	1	.	.	.	.	.	.
EXCEL/8055RR	122	.	.	.	33.3	17.5	1	.	.	.
EXCEL/8020RR	118	.	.	.	34.1	16.9	1	.	.	.
PUBLIC/SD01-2475R	131	31.8	17.2	1	.	.	.	.	.	.
PUBLIC/SD00-1037R	131	31.6	17.0	1	.	.	.	.	.	.
PUBLIC/SD00-1251R	130	34.3	16.7	1	.	.	.	.	.	.
PUBLIC/SD00-1258R	133	34.1	16.2	1	.	.	.	.	.	.
PUBLIC/SD93-1233T	130	34.7	16.2	1	.	.	.	.	.	.
Test avg.:	126	33.5	16.7	1	34.1	17.3	1	33.9	17.0	1
High value:	133	36.3	17.7	2	36.8	18.8	1	36.6	18.2	1
# Lsd(.05):				NS			NS			NS
## TPG-value:				1			1			1
@ Coef. Var.:				19			0			7
No. Entries:		70	70	70	62	62	62	57	57	57

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant(NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 2a. Roundup Ready maturity group-I soybean variety yield averages- northern South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KRUGER/223RR	132	46	32	55	49	51	41
KRUGER/223+RR	.	47	34	52	49	50	42
NUTECH/NT-2202RR	.	44	.	53	.	49	.
KRUGER/192RR	131	45	.	53	.	49	.
STINE/S1918-4	132	46	.	52	.	49	.
STINE/S1300-4	130	46	.	51	.	49	.
PRAIRIE BR./PB-1754RR	131	44	.	53	.	49	.
ASGROW/AG1903	.	45	.	50	.	48	.
NUTECH/NT-1909RR	130	46	.	49	.	48	.
TECH. DIRECT/TD-202RR	.	44	.	52	.	48	.
KRUGER/191RR	.	48	.	48	.	48	.
KRUGER/211+RR	135	43	32	52	48	48	40
KRUGER/195+RR/SCN	130	43	.	52	.	48	.
PRAIRIE BR./PB-1954RR	130	45	.	51	.	48	.
THOMPSON/T-7234RR	131	45	.	51	.	48	.
NUTECH/NT-2002RR	.	47	.	46	.	47	.
STINE/S0943-4	127	43	31	51	46	47	39
PRAIRIE BR./PB-1914RR	130	44	.	50	.	47	.
PETERSON/PFS 0410RR	127	43	31	50	48	47	40
MUSTANG/M-151RR	129	41	30	50	45	46	38
NUTECH/NT-1010RR	126	45	.	46	.	46	.
THOMPSON/T-7205RR	129	44	.	47	.	46	.
THOMPSON/T-7193RR/SCN	.	40	.	51	.	46	.
NORTHSTAR/NS 1019RR	126	43	.	49	.	46	.
PETERSON/PFS 0511RR	129	44	.	48	.	46	.
MUSTANG/M-153RR	131	42	30	47	45	45	38
MUSTANG/M-124RR	128	40	29	49	43	45	36
MUSTANG/M-115RR	127	42	.	48	.	45	.
NK BRAND/S17-P9	133	40	.	50	.	45	.
MALLARD/EXP RR1314	128	41	.	49	.	45	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 2a. Roundup Ready maturity group-I soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
MALLARD/EXP RR1512	134	42	.	47	.	45	.
TECH. DIRECT/TD-199RR	132	41	.	49	.	45	.
KRUGER/EXP167RR	131	42	.	48	.	45	.
PRAIRIE BR./PB-1620RR	130	42	32	47	47	45	40
PRAIRIE BR./PB-1294RR	129	41	.	48	.	45	.
WENSMAN/W 2121RR	129	41	.	48	.	45	.
THOMPSON/T-1444RR	126	41	.	48	.	45	.
SEEDS 2000/2130RR	128	41	.	48	.	45	.
ASGROW/AG1401	127	41	31	46	.	44	.
ASGROW/AG1603	129	42	.	45	.	44	.
MUSTANG/M-155RR	130	41	.	46	.	44	.
KRUGER/149+RR	132	41	.	46	.	44	.
GOLD COUNTRY/3512RR	129	39	.	48	.	44	.
PRAIRIE BR./PB-1552RR	131	42	30	45	44	44	37
DYNA-GRO/DG 34R12	133	43	.	45	.	44	.
THOMPSON/T-1901RR	.	37	.	50	.	44	.
PETERSON/PFS 0415RR	129	39	.	49	.	44	.
NK BRAND/S14-A7	126	39	.	47	.	43	.
KRUGER/EXP152RR	129	38	.	47	.	43	.
DAIRYLAND/DST13-000/RR	128	37	.	48	.	43	.
STINE/S1586-4	132	42	.	43	.	43	.
PRAIRIE BR./PB-1254RR	127	38	.	47	.	43	.
JACOBSEN/J642R	127	41	.	45	.	43	.
WENSMAN/W 2144RR	131	36	.	49	.	43	.
THOMPSON/T-1577RR	130	38	.	48	.	43	.
SODAK GENETICS/SD1151RR	127	41	30	45	43	43	37
KRUGER/125RR	125	40	.	44	.	42	.
STINE/S0992-4	126	39	.	45	.	42	.
DYNA-GRO/DG 31C15RR	133	39	28	45	44	42	36
PETERSON/EXP 1.2RR	125	39	.	44	.	42	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 2a. Roundup Ready maturity group-I soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
MALLARD/EXP RR1111	126	37	.	44	.	41	.
GOLD COUNTRY/6016RR	128	37	29	45	41	41	35
DAIRYLAND/DST15-000/RR	129	37	.	45	.	41	.
KELTGEN AGVENTURE/AV 10	126	36	.	44	.	40	.
PRAIRIE BR./PB-1354RR	129	38	.	41	.	40	.
PRAIRIE BR./PB-1634RR	131	34	.	45	.	40	.
DYNA-GRO/DG 32F12	127	37	.	43	.	40	.
THOMPSON/T-1818RR/SCN	.	36	.	44	.	40	.
THOMPSON/T-2121RR/SCN	.	37	.	43	.	40	.
PUBLIC/MN-1803RR	135	38	28	42	39	40	34
MUSTANG/M-174RR	.	37	29	.	.	.	.
DEKALB/DKB19-52	.	.	.	44	43	.	.
SANDS/SOI 1540RR	134	43	.	.	.	.	.
SANDS/SOI 1261RR	134	44	.	.	.	.	.
SANDS/EXP 1766RR	.	43	.	.	.	.	.
PUBLIC/SDX00-022R-23	130	35	.	.	.	.	.
PUBLIC/SDX00-022R-53	132	43	.	.	.	.	.
PUBLIC/SDX00-024R-14	.	.	.	40	.	.	.
LATHAM/EXP-E1230R	132	36	.	.	.	.	.
LATHAM/EXP-E1330R	134	41	.	.	.	.	.
GOLD COUNTRY/6117RR	.	25	.	.	.	.	.
DAIRYLAND/DSR-130/RR	128	.	.	46	.	.	.
PUBLIC/SDX00-053R-46	134	39	.	.	.	.	.
ZILLER/EXP44310R	130	38	.	.	.	.	.
ZILLER/EXP33513R	134	42	.	.	.	.	.
ZILLER/BT 7145R	131	41	.	.	.	.	.
JACOBSEN/J647R	133	39	.	.	.	.	.
NORTHSTAR/NS 1407RR	126	.	.	44	42	.	.
NORTHSTAR/NS 1409RR	132	39	.	.	.	.	.
BIO GENE/BG150RR	134	41	.	.	.	.	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 2a. Roundup Ready maturity group-I soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
EXCEL/8151RR	132	39	.	.	.	.	.
EXCEL/8160RR	135	38	.	.	.	.	.
PUBLIC/SDX00R-035-12	.	30	.	.	.	.	.
PUBLIC/SDX00R-035-59	134	37	.	.	.	.	.
PUBLIC/SD01-3219R	127	.	.	42	.	.	.
PUBLIC/SD01-67R	132	.	.	44	.	.	.
PUBLIC/SD96-170RR-28L	124	.	.	48	.	.	.
PUBLIC/SD01-1075R	127	.	.	44	.	.	.
PUBLIC/SD01-1094R	.	.	.	42	.	.	.
PUBLIC/SD01-1792R	130	36	.	.	.	.	.
PUBLIC/SD01-3402R	124	.	.	41	.	.	.
PUBLIC/SD00-1018R	122	.	.	41	38	.	.
PUBLIC/SD00-236R	130	39	29	.	.	.	.
PUBLIC/SDX00R-029-3	.	.	.	43	.	.	.
Test avg.:	130	41	30	47	44	45	38
High value:	135	48	34	55	49	51	42
# Lsd (.05):		5	NS	6	6	4	.
## TPG-value:		43	29	49	43	47	.
@ Coef. Var.:		8	10	7	9	6	.
No. Entries:		92	17	82	17	70	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant(NS), NS is indicated.

TPG-value= minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 2b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004.

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
THOMPSON/T-1818RR/SCN	.	33.9	16.8	1	35.3	16.9	1	34.6	16.9	1
KRUGER/125RR	125	34.5	16.7	1	33.8	17.6	1	34.2	17.2	1
PRAIRIE BR./PB-1354RR	129	34.3	16.8	1	34.0	17.1	1	34.2	17.0	1
MALLARD/EXP RR1111	126	34.1	17.1	1	33.9	17.6	1	34.0	17.4	1
DYNA-GRO/DG 32F12	127	34.1	16.7	1	33.8	17.5	1	34.0	17.1	1
KELTGEN AGVENTURE/AV 10	126	33.3	17.4	1	34.2	17.1	1	33.8	17.3	1
JACOBSEN/J642R	127	33.6	16.9	1	33.9	17.1	1	33.8	17.0	1
THOMPSON/T-1901RR	.	34.0	16.6	1	33.5	17.1	1	33.8	16.9	1
PETERSON/EXP 1.2RR	125	33.5	17.1	1	33.7	17.5	1	33.6	17.3	1
MUSTANG/M-155RR	130	33.5	16.6	2	33.6	17.5	1	33.6	17.1	1
MALLARD/EXP RR1512	134	33.3	16.9	1	33.8	17.5	1	33.6	17.2	1
PRAIRIE BR./PB-1754RR	131	33.3	16.9	1	33.8	17.0	1	33.6	17.0	1
SODAK GENETICS/SD1151RR	127	34.0	16.8	1	33.0	17.3	1	33.5	17.1	1
KRUGER/149+RR	132	33.2	16.9	1	33.6	17.3	1	33.4	17.1	1
THOMPSON/T-2121RR/SCN	.	33.3	17.0	1	33.4	17.8	1	33.3	17.4	1
DAIRYLAND/DST15-000/RR	129	33.0	17.2	1	33.6	17.2	1	33.3	17.2	1
PETERSON/PFS 0410RR	127	32.9	16.8	1	33.5	17.4	1	33.2	17.1	1
PRAIRIE BR./PB-1634RR	131	32.1	17.4	1	34.1	17.4	1	33.1	17.4	1
WENSMAN/W 2144RR	131	32.6	17.2	1	33.6	17.4	1	33.1	17.3	1
KRUGER/EXP152RR	129	33.0	17.1	1	33.0	17.7	1	33.0	17.4	1
ASGROW/AG1603	129	32.4	17.5	1	33.5	17.6	1	33.0	17.6	1
STINE/S0992-4	126	32.7	17.3	1	33.2	18.0	1	33.0	17.7	1
THOMPSON/T-1577RR	130	32.7	17.1	1	33.2	17.6	1	33.0	17.4	1
MUSTANG/M-124RR	128	32.6	18.0	1	33.2	17.7	1	32.9	17.9	1
DYNA-GRO/DG 34R12	133	32.5	17.4	1	33.3	17.9	1	32.9	17.7	1
STINE/S0943-4	127	32.4	16.9	1	33.3	17.3	1	32.8	17.1	1
ASGROW/AG1903	.	33.3	16.3	1	32.3	17.2	1	32.8	16.8	1
PUBLIC/MN-1803RR	135	32.6	17.1	2	32.8	17.9	1	32.7	17.5	1
DAIRYLAND/DST13-000/RR	128	32.2	17.6	1	33.0	17.7	1	32.6	17.7	1
STINE/S1300-4	130	32.2	17.5	1	32.7	18.0	1	32.5	17.8	1

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 2b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
NORTHSTAR/NS 1019RR	126	31.9	16.8	1	33.0	17.2	1	32.5	17.0	1
TECH. DIRECT/TD-202RR	.	32.1	17.6	2	32.7	17.9	1	32.4	17.8	1
KRUGER/192RR	131	32.2	17.4	1	32.5	18.1	1	32.4	17.8	1
THOMPSON/T-1444RR	126	32.5	16.8	1	32.2	17.0	1	32.4	16.9	1
NUTECH/NT-1010RR	126	32.2	17.8	1	32.4	17.9	1	32.3	17.9	1
STINE/S1918-4	132	32.2	17.6	1	32.3	17.9	1	32.3	17.8	1
PRAIRIE BR./PB-1954RR	130	32.6	17.0	1	31.9	17.8	1	32.3	17.4	1
NK BRAND/S14-A7	126	32.2	17.3	1	32.2	17.8	1	32.2	17.6	1
NUTECH/NT-2202RR	.	31.8	17.6	1	32.3	18.2	1	32.1	17.9	1
ASGROW/AG1401	127	32.1	17.5	1	31.9	18.1	1	32.0	17.8	1
PRAIRIE BR./PB-1254RR	127	31.2	18.0	1	32.8	18.0	1	32.0	18.0	1
THOMPSON/T-7234RR	131	32.0	17.7	1	32.0	18.2	1	32.0	18.0	1
NUTECH/NT-1909RR	130	32.1	17.7	1	31.8	18.4	1	32.0	18.1	1
KRUGER/211+RR	135	31.7	17.7	1	32.2	18.1	1	32.0	17.9	1
PRAIRIE BR./PB-1914RR	130	31.5	17.8	1	32.4	18.3	1	32.0	18.1	1
MUSTANG/M-153RR	131	31.0	17.5	1	32.6	17.2	1	31.8	17.4	1
NUTECH/NT-2002RR	.	31.8	17.6	1	31.5	18.5	1	31.7	18.1	1
KRUGER/191RR	.	32.0	17.3	1	31.3	18.1	1	31.7	17.7	1
STINE/S1586-4	132	31.6	16.9	1	31.5	17.7	1	31.6	17.3	1
PRAIRIE BR./PB-1552RR	131	31.0	16.9	1	32.0	17.7	1	31.5	17.3	1
KRUGER/223RR	132	31.4	17.8	1	31.5	18.6	1	31.5	18.2	1
KRUGER/223+RR	.	31.3	17.5	1	31.5	18.4	1	31.4	18.0	1
DYNA-GRO/DG 31C15RR	133	30.8	17.3	1	32.0	17.5	1	31.4	17.4	1
SEEDS 2000/2130RR	128	30.5	17.4	1	32.3	17.6	1	31.4	17.5	1
KRUGER/EXP167RR	131	30.8	17.4	1	31.8	18.0	1	31.3	17.7	1
THOMPSON/T-7193RR/SCN	.	31.1	18.5	1	31.5	18.7	1	31.3	18.6	1
THOMPSON/T-7205RR	129	30.8	18.0	1	31.6	18.4	1	31.2	18.2	1
KRUGER/195+RR/SCN	130	30.9	18.3	1	31.5	18.7	1	31.2	18.5	1
TECH. DIRECT/TD-199RR	132	30.7	17.3	1	31.6	18.2	1	31.2	17.8	1
PRAIRIE BR./PB-1620RR	130	30.9	17.1	1	31.2	17.5	1	31.1	17.3	1

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 2b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
NK BRAND/S17-P9	133	30.9	16.9	1	31.0	17.5	1	31.0	17.2	1
MUSTANG/M-151RR	129	30.6	17.0	1	31.2	17.4	1	30.9	17.2	1
WENSMAN/W 2121RR	129	30.6	17.0	1	31.1	17.3	1	30.9	17.2	1
PETERSON/PFS 0415RR	129	30.5	17.3	1	31.2	17.2	1	30.9	17.3	1
PETERSON/PFS 0511RR	129	31.1	16.9	1	30.5	17.7	1	30.8	17.3	1
MALLARD/EXP RR1314	128	30.6	16.7	1	30.9	17.4	1	30.8	17.1	1
MUSTANG/M-115RR	127	30.5	17.1	1	30.6	17.6	1	30.6	17.4	1
GOLD COUNTRY/6016RR	128	30.4	17.2	1	30.7	17.7	1	30.6	17.5	1
PRAIRIE BR./PB-1294RR	129	29.7	17.3	1	31.0	17.5	1	30.4	17.4	1
GOLD COUNTRY/3512RR	129	30.2	17.4	1	30.4	17.8	1	30.3	17.6	1
MUSTANG/M-174RR	.	33.3	16.6	1	.	.	.	.	.	.
DEKALB/DKB19-52	.	.	.	.	31.6	18.3	1	.	.	.
SANDS/SOI 1540RR	134	32.4	16.8	1	.	.	.	.	.	.
SANDS/SOI 1261RR	134	32.1	16.2	1	.	.	.	.	.	.
SANDS/EXP 1766RR	.	33.7	16.6	1	.	.	.	.	.	.
PUBLIC/SDX00-022R-23	130	33.5	16.8	1	.	.	.	.	.	.
PUBLIC/SDX00-022R-53	132	33.1	17.2	1	.	.	.	.	.	.
PUBLIC/SDX00-024R-14	.	.	.	.	32.2	17.6	1	.	.	.
LATHAM/EXP-E1230R	132	33.6	17.1	1	.	.	.	.	.	.
LATHAM/EXP-E1330R	134	30.5	17.1	1	.	.	.	.	.	.
GOLD COUNTRY/6117RR	.	35.5	16.1	1	.	.	.	.	.	.
DAIRYLAND/DSR-130/RR	128	.	.	.	33.0	17.0	1	.	.	.
PUBLIC/SDX00-053R-46	134	31.8	17.6	2	.	.	.	.	.	.
ZILLER/EXP44310R	130	33.7	17.0	1	.	.	.	.	.	.
ZILLER/EXP33513R	134	30.2	17.1	1	.	.	.	.	.	.
ZILLER/BT 7145R	131	32.2	17.5	1	.	.	.	.	.	.
JACOBSEN/J647R	133	31.6	17.4	1	.	.	.	.	.	.
NORTHSTAR/NS 1407RR	126	.	.	.	32.6	17.8	1	.	.	.
NORTHSTAR/NS 1409RR	132	32.2	17.0	1	.	.	.	.	.	.
BIO GENE/BG150RR	134	30.5	16.9	1	.	.	.	.	.	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 2b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
EXCEL/8151RR	132	33.9	16.7	1	.	.	.	.	.	.
EXCEL/8160RR	135	31.7	17.2	1	.	.	.	.	.	.
PUBLIC/SDX00R-035-12	.	31.8	16.6	2	.	.	.	.	.	.
PUBLIC/SDX00R-035-59	134	33.5	16.9	1	.	.	.	.	.	.
PUBLIC/SD01-3219R	127	.	.	.	31.8	17.3	1	.	.	.
PUBLIC/SD01-67R	132	.	.	.	35.1	18.1	1	.	.	.
PUBLIC/SD96-170RR-28L	124	.	.	.	32.8	17.9	1	.	.	.
PUBLIC/SD01-1075R	127	.	.	.	32.9	18.3	1	.	.	.
PUBLIC/SD01-1094R	.	.	.	.	32.6	18.4	1	.	.	.
PUBLIC/SD01-1792R	130	34.2	16.4	1	.	.	.	.	.	.
PUBLIC/SD01-3402R	124	.	.	.	36.4	16.0	1	.	.	.
PUBLIC/SD00-1018R	122	.	.	.	31.3	18.2	1	.	.	.
PUBLIC/SD00-236R	130	34.6	16.9	1	.	.	.	.	.	.
PUBLIC/SDX00R-029-3	.	.	.	.	32.5	18.4	1	.	.	.
Test avg.:	130	32.2	17.2	1	32.5	17.7	1	32.3	17.5	1
High value:	135	35.5	18.5	2	36.4	18.7	1	34.6	18.6	1
# Lsd(.05):				0			NS			NS
## TPG-value:				1			1			1
@ Coef.Var.:				28			11			20
No. Entries:		92	92	92	82	82	82	70	70	70

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 3a. Roundup Ready maturity group-0 soybean variety yield averages- central South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
MUSTANG/M-094RR	121	51	46
NUTECH/NT-0999RR	120	51	.
KRUGER/090RR	118	51	.
NORTHSTAR/NS 0954RR	118	51	47
KRUGER/101RR	119	50	48
THOMPSON/T-0889+RR	118	50	.
MUSTANG/M-083RR	119	49	46
TECH. DIRECT/TD-099RR	122	49	.
DYNA-GRO/DG 37A10	118	49	.
MUSTANG/M-095RR	119	48	.
NUTECH/NT-0889RR	118	48	.
BIO GENE/BG0913RR	119	48	.
ASGROW/AG1001	120	47	.
SANDS/EXP 0969RR	118	47	.
NUTECH/NT-0811RR	119	47	.
KRUGER/098RR	119	47	45
PUBLIC/SDX00R-035-24	119	47	.
DEKALB/DKB07-52	112	46	44
KRUGER/099+RR	117	46	43
TOP FARM/6102RR	116	46	44
DYNA-GRO/DG 33R09	115	46	.
PUBLIC/SD01-2475R	120	46	.
SANDS/SOI 0931RR	117	45	43
NUTECH/NT-0848RR	117	45	.
DYNA-GRO/DG 32Y09	115	45	.
BIO GENE/BG100RR	118	45	.
PUBLIC/MN-0904RR	117	45	42
ASGROW/AG0801	114	44	.
DYNA-GRO/DG 31B08	115	44	.
PUBLIC/SDX00R-035-39	119	43	.

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 3a. Roundup Ready maturity group-0 soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
PUBLIC/SD01-1200R	117	43	.
PUBLIC/SD00-1258R	121	43	39
DAIRYLAND/DST08-000/RR	118	42	.
SODAK GENETICS/SD1081RR	117	42	41
SODAK GENETICS/SD1091RR	115	42	39
PUBLIC/SD93-1233T	116	42	40
PUBLIC/SD01-1071R	118	41	.
PUBLIC/SD1091RR-4	121	40	.
PUBLIC/SD00-1251R	119	40	38
PUBLIC/SD00-1037R	120	38	37
SANDS/SOI 0661RR	116	37	.
Test avg.:	118	46	43
High value:	122	51	48
# Lsd (.05):		4	4
## TPG-value:		47	44
@ Coef. Var.:		5	6
No. Entries:		42	16

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.
Lsd,(.05)= amount values in a column must differ to be significantly different.
TPG-value= minimum value to qualify for top performance group.
@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 3b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004.

Brand/Variety (By protein)	DTM*	---- Central Location ---- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
PUBLIC/SD00-1251R	119	38.5	15.4	3
PUBLIC/SD93-1233T	116	38.2	15.3	2
SODAK GENETICS/SD1091RR	115	38.1	15.8	2
PUBLIC/SD01-1071R	118	38.0	15.3	2
PUBLIC/SD1091RR-4	121	37.3	15.9	3
MUSTANG/M-094RR	121	37.1	15.7	2
KRUGER/099+RR	117	37.1	16.3	2
NUTECH/NT-0811RR	119	37.0	16.2	2
SANDS/SOI 0661RR	116	36.9	16.4	2
BIO GENE/BG0913RR	119	36.9	15.6	2
PUBLIC/MN-0904RR	117	36.8	16.4	2
MUSTANG/M-083RR	119	36.7	16.5	2
KRUGER/090RR	118	36.7	15.5	1
NORTHSTAR/NS 0954RR	118	36.7	16.4	2
PUBLIC/SD00-1258R	121	36.7	15.7	2
SANDS/SOI 0931RR	117	36.1	16.3	2
DEKALB/DKB07-52	112	35.8	16.5	2
NUTECH/NT-0999RR	120	35.7	16.3	2
PUBLIC/SD01-1200R	117	35.7	16.7	2
TOP FARM/6102RR	116	35.6	16.5	1
THOMPSON/T-0889+RR	118	35.6	16.7	3
NUTECH/NT-0848RR	117	35.5	16.6	2
TECH. DIRECT/TD-099RR	122	35.5	16.9	3
KRUGER/101RR	119	35.5	16.5	2
DYNA-GRO/DG 37A10	118	35.4	16.6	2
MUSTANG/M-095RR	119	35.2	17.0	3
NUTECH/NT-0889RR	118	35.2	16.6	2
KRUGER/098RR	119	35.2	16.7	2
DYNA-GRO/DG 32Y09	115	35.2	16.5	2
BIO GENE/BG100RR	118	35.1	16.6	3

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 3b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	---- Central Location ---- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
ASGROW/AG1001	120	34.9	16.4	2
DYNA-GRO/DG 31B08	115	34.9	17.1	2
SODAK GENETICS/SD1081RR	117	34.9	17.0	1
PUBLIC/SD00-1037R	120	34.8	16.5	3
SANDS/EXP 0969RR	118	34.7	16.5	2
DAIRYLAND/DST08-000/RR	118	34.7	17.1	2
PUBLIC/SDX00R-035-24	119	34.7	16.3	3
PUBLIC/SD01-2475R	120	34.6	16.5	3
ASGROW/AG0801	114	34.5	16.2	2
DYNA-GRO/DG 33R09	115	34.5	16.2	2
PUBLIC/SDX00R-035-39	119	33.7	17.2	2
Test avg.:	118	35.9	16.4	2
High value:	122	38.5	17.2	3
* Lsd(.05):				1
## TPG-value:				2
### Coef.Var.:				24
No. Entries:		41	41	41

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 4a. Roundup Ready maturity group-I soybean variety yield averages- central South Dakota locations, 2003-2004.

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
NK BRAND/S19-R5	.	53	.
NORTHSTAR/NS 1019RR	120	53	.
SANDS/EXP 1766RR	.	52	.
KRUGER/191RR	.	51	.
KRUGER/192RR	.	51	.
LATHAM/EXP-E1936R	.	51	.
TOP FARM/E34904RR	.	51	.
PETERSON/PFS 0410RR	119	51	49
MUSTANG/M-153RR	123	50	46
MUSTANG/M-124RR	120	50	47
KRUGER/223+RR	.	50	50
KRUGER/223RR	.	50	48
TOP FARM/E34714RR	.	50	.
PRAIRIE BR./PB-1914RR	.	50	.
THOMPSON/T-7214RR	.	50	.
THOMPSON/T-7193RR/SCN	.	50	.
COYOTE/4719RR	.	49	.
MUSTANG/M-194NRR	.	49	44
NK BRAND/S14-A7	118	49	.
FARM ADVANTAGE/7192	.	49	.
THUNDER/2413NRR	120	49	.
TECH. DIRECT/TD-199RR	.	49	.
PRAIRIE BR./PB-1754RR	.	49	.
PRAIRIE BR./PB-1954RR	.	49	.
NORTHSTAR/NS 1407RR	.	49	46
ASGROW/AG1903	122	48	.
SANDS/SOI 1540RR	.	48	.
NUTECH/NT-2002RR	.	48	.
TOP FARM/6174RR	.	48	.
PRAIRIE BR./PB-1552RR	.	48	48

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 4a. Roundup Ready maturity group-I soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
PRAIRIE BR./PB-2112RR	.	48	46
WENSMAN/W 2163RR	.	48	.
ASGROW/AG1603	.	47	.
MUSTANG/M-115RR	123	47	.
NUTECH/NT-1909RR	.	47	.
KRUGER/155+RR	122	47	.
KRUGER/EXP167RR	.	47	.
STINE/S1918-4	.	47	47
PRAIRIE BR./PB-1921RR	.	47	46
DYNA-GRO/DG 31C15RR	.	47	47
DYNA-GRO/DG 34R12	.	47	.
ZILLER/BT 7145R	123	47	.
THOMPSON/T-7234RR	.	47	.
PETERSON/EXP 1.2RR	119	47	.
ASGROW/AG1401	.	46	.
NUTECH/NT-1010RR	118	46	.
NUTECH/NT-2202RR	.	46	.
TECH. DIRECT/TD-202RR	.	46	.
KRUGER/211+RR	.	46	46
DAIRYLAND/DST13-000/RR	119	46	.
TOP FARM/E3M321RR	.	46	.
NORTHSTAR/NS 1710RR	123	46	.
PETERSON/PFS 0415RR	.	46	.
PUBLIC/SD96-170RR-28L	121	46	.
NK BRAND/S17-P9	.	45	.
KRUGER/125RR	120	45	.
TOP FARM/6144RR	121	45	.
WENSMAN/W 2144RR	.	45	.
THOMPSON/T-7205RR	.	45	46
THOMPSON/T-1212RR/SCN	.	45	.

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 4a. Roundup Ready maturity group-I soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
THOMPSON/T-1901RR	.	45	.
NORTHSTAR/NS 1409RR	121	45	.
SODAK GENETICS/SD1151RR	121	45	42
MUSTANG/M-174RR	.	44	44
MUSTANG/E-1852NRR	.	44	.
SANDS/SOI 1261RR	122	44	.
LATHAM/EXP-E1635R	.	44	.
DAIRYLAND/DSR-155/RR	122	44	44
DAIRYLAND/DSR-199/RR	.	44	44
DAIRYLAND/DST15-000/RR	.	44	.
TOP FARM/E34514RR	.	44	.
DYNA-GRO/DG 32F12	120	44	.
EXCEL/8160RR	.	44	.
PUBLIC/SDX00R-035-59	123	44	.
PUBLIC/MN-1803RR	.	44	41
MUSTANG/M-151RR	122	43	42
MUSTANG/M-155RR	.	43	.
DAIRYLAND/DSR-184/RR	.	43	.
PUBLIC/SDX00-053R-46	.	43	.
BIO GENE/BG150RR	120	43	.
EXCEL/8192RR	.	43	.
EXCEL/8194RR	.	43	.
PRAIRIE BR./PB-1294RR	.	42	.
PRAIRIE BR./PB-1634RR	120	42	.
ZILLER/BT 7150R	.	42	45
ZILLER/BT 7193R	.	42	43
RENK/RS199RR	.	42	40
EXCEL/8151RR	.	42	.
PETERSON/PFS 0511RR	.	42	.
PUBLIC/SDX00R-022-66	119	42	.

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 4a. Roundup Ready maturity group-I soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By 2004 yield)	Central Location 2003-04 Yield Averages		
	Brookings		
	DTM*	Bu/Acre 2004	Bu/Acre 2-Yr
PRAIRIE BR./PB-1620RR	.	41	40
RENK/RS159RR	.	41	.
PUBLIC/SD00-236R	122	41	39
THOMPSON/T-1818RR/SCN	.	40	.
PUBLIC/SD01-1120R	.	40	.
PUBLIC/SDX00-022R-53	119	39	.
PUBLIC/SD01-1792R	119	39	.
PUBLIC/SDX00-022R-23	119	38	.
PUBLIC/SD01-3387R	120	38	.
Test avg.:	121	46	45
High value:	123	53	50
# Lsd (.05):		4	5
## TPG-value:		49	45
### Coef.Var.:		6	7
No. Entries:		99	25

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different.

TPG-value= minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 4b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004.

Brand/Variety (By protein)	DTM*	--- Central Location --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
THOMPSON/T-1818RR/SCN	.	38.0	15.5	3
DAIRYLAND/DSR-155/RR	122	37.7	16.6	3
MUSTANG/E-1852NRR	.	37.6	15.9	3
DAIRYLAND/DSR-199/RR	.	37.6	15.9	3
ZILLER/BT 7193R	.	37.5	16.2	3
PUBLIC/MN-1803RR	.	37.5	15.6	3
PUBLIC/SD01-1792R	119	37.4	15.7	2
PUBLIC/SD00-236R	122	37.4	16.3	3
KRUGER/125RR	120	37.1	16.1	2
PRAIRIE BR./PB-1634RR	120	37.1	16.0	2
PETERSON/EXP 1.2RR	119	36.9	16.4	3
SODAK GENETICS/SD1151RR	121	36.9	16.0	3
PUBLIC/SDX00-022R-23	119	36.8	16.1	2
PRAIRIE BR./PB-1754RR	.	36.8	15.8	2
PUBLIC/SD01-3387R	120	36.8	15.9	2
DYNA-GRO/DG 32F12	120	36.7	16.2	2
TOP FARM/E34514RR	.	36.6	16.3	3
RENK/RS199RR	.	36.6	16.3	3
MUSTANG/M-124RR	120	36.5	16.5	2
MUSTANG/M-174RR	.	36.5	15.8	2
SANDS/EXP 1766RR	.	36.5	16.0	2
LATHAM/EXP-E1635R	.	36.5	16.3	3
WENSMAN/W 2144RR	.	36.5	16.1	2
WENSMAN/W 2163RR	.	36.5	15.7	2
ASGROW/AG1603	.	36.4	16.0	2
EXCEL/8151RR	.	36.4	16.0	1
PUBLIC/SDX00R-035-59	123	36.4	16.1	3
THOMPSON/T-1901RR	.	36.3	16.0	3
MUSTANG/M-155RR	.	36.2	16.0	3
DAIRYLAND/DST13-000/RR	119	36.0	16.6	2

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 4b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	--- Central Location --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
EXCEL/8192RR	.	36.0	16.0	2
EXCEL/8194RR	.	35.9	16.9	2
PUBLIC/SDX00-022R-53	119	35.8	16.1	3
DYNA-GRO/DG 34R12	.	35.8	16.9	2
EXCEL/8160RR	.	35.8	16.5	3
PETERSON/PFS 0410RR	119	35.7	16.5	2
NORTHSTAR/NS 1409RR	121	35.6	16.3	2
TOP FARM/E34714RR	.	35.5	16.8	2
NORTHSTAR/NS 1019RR	120	35.4	16.7	2
PUBLIC/SD96-170RR-28L	121	35.4	16.5	3
KRUGER/155+RR	122	35.3	16.7	1
TOP FARM/6144RR	121	35.3	16.6	2
PUBLIC/SD01-1120R	.	35.3	17.2	3
PUBLIC/SDX00R-022-66	119	35.0	16.7	3
MUSTANG/M-151RR	122	34.9	15.9	3
NUTECH/NT-1010RR	118	34.9	17.2	2
NUTECH/NT-2202RR	.	34.9	16.8	2
KRUGER/211+RR	.	34.9	16.9	2
KRUGER/223RR	.	34.9	16.3	1
TOP FARM/E3M321RR	.	34.9	17.3	2
THOMPSON/T-7234RR	.	34.9	17.3	1
NORTHSTAR/NS 1407RR	.	34.9	16.9	2
NORTHSTAR/NS 1710RR	123	34.9	16.3	3
NK BRAND/S14-A7	118	34.8	16.8	1
SANDS/SOI 1540RR	.	34.8	16.2	2
THUNDER/2413NRR	120	34.8	16.5	2
TOP FARM/E34904RR	.	34.8	17.0	2
PRAIRIE BR./PB-1552RR	.	34.8	16.2	1
PRAIRIE BR./PB-2112RR	.	34.8	16.9	2
PRAIRIE BR./PB-1954RR	.	34.8	16.7	2

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 4b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	--- Central Location --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
ZILLER/BT 7145R	123	34.8	17.0	1
LATHAM/EXP-E1936R	.	34.7	17.3	2
DAIRYLAND/DSR-184/RR	.	34.7	17.0	2
PUBLIC/SDX00-053R-46	.	34.7	16.7	4
NK BRAND/S19-R5	.	34.6	16.4	2
KRUGER/192RR	.	34.6	17.0	2
DAIRYLAND/DST15-000/RR	.	34.6	16.8	2
PRAIRIE BR./PB-1914RR	.	34.6	17.2	1
DYNA-GRO/DG 31C15RR	.	34.6	16.1	1
TECH. DIRECT/TD-202RR	.	34.5	17.2	1
MUSTANG/M-153RR	123	34.4	16.5	2
RENK/RS159RR	.	34.4	15.8	3
BIO GENE/BG150RR	120	34.4	15.6	2
NK BRAND/S17-P9	.	34.3	16.2	2
NUTECH/NT-1909RR	.	34.3	17.3	1
KRUGER/EXP167RR	.	34.3	17.1	1
TOP FARM/6174RR	.	34.3	17.4	1
THOMPSON/T-7214RR	.	34.3	17.3	2
NUTECH/NT-2002RR	.	34.2	17.0	2
TECH. DIRECT/TD-199RR	.	34.2	17.1	1
STINE/S1918-4	.	34.2	17.0	2
ZILLER/BT 7150R	.	34.2	16.1	2
THOMPSON/T-7205RR	.	34.2	17.4	1
PETERSON/PFS 0511RR	.	34.2	15.9	3
PETERSON/PFS 0415RR	.	34.2	16.3	3
ASGROW/AG1401	.	34.1	16.8	2
PRAIRIE BR./PB-1620RR	.	34.1	16.4	3
ASGROW/AG1903	122	34.0	16.4	2
FARM ADVANTAGE/7192	.	34.0	17.1	1
SANDS/SOI 1261RR	122	34.0	16.3	3

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 4b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	--- Central Location --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
MUSTANG/M-194NRR	.	33.9	17.7	2
PRAIRIE BR./PB-1294RR	.	33.9	16.1	2
COYOTE/4719RR	.	33.8	17.2	2
THOMPSON/T-7193RR/SCN	.	33.8	17.5	2
PRAIRIE BR./PB-1921RR	.	33.7	17.0	1
MUSTANG/M-115RR	123	33.5	16.3	2
KRUGER/223+RR	.	33.5	17.2	1
KRUGER/191RR	.	33.5	17.4	2
THOMPSON/T-1212RR/SCN	.	33.4	16.5	2
Test avg.:	121	35.3	16.5	2
High value:	123	38.0	17.7	4
* Lsd(.05):				1
## TPG-value:				2
@ Coef. Var.:				28
No. Entries:		99	99	99

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 5a. Roundup Ready maturity group-II soybean variety yield averages- central South Dakota locations, 2003-2004.

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
FARM ADVANTAGE/7205	.	55	.
SANDS/SOI 2143RR	.	54	52
SANDS/SOI 2169RR	.	54	.
MUSTANG/M-203RR	.	53	52
KRUGER/200RR	.	53	.
LATHAM/L2136R	.	53	50
GOLD COUNTRY/6221RR	.	53	49
THOMPSON/T-7243RR	.	53	47
NORTHSTAR/NS 2009RR	.	53	.
ASGROW/AG2403	.	52	.
DEKALB/DKB22-52	.	52	.
PRAIRIE BR./PB-2243RR	.	52	48
JACOBSEN/J730NR	.	52	48
MUSTANG/M-201RR	.	51	49
TOP FARM/E34412RR	.	51	.
PRAIRIE BR./PB-2141RR	.	51	50
RENK/RS223RR	.	51	50
TOP FARM/E34104RR	.	50	.
PRAIRIE BR./PB-2343RR	.	50	50
JACOBSEN/J733R	.	50	48
WENSMAN/W 2211RR	.	50	49
MUSTANG/M-223RR	.	49	.
DAIRYLAND/DSR-234/RR	.	48	47
STINE/S2116-4	.	48	46
KRUGER/233+RR	.	47	47
TOP FARM/E34520RR	.	47	.
PUBLIC/SDX00R-014-50	.	47	.
PUBLIC/SD01-76R	.	47	.
DAIRYLAND/DST20-000/RR	.	46	.
PRAIRIE BR./PB-2421RR	.	46	43

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 5a. Roundup Ready maturity group-II soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
PRAIRIE BR./PB-2374RR	.	46	.
THOMPSON/T-2343RR	.	46	.
PUBLIC/SDX00R-039-42	.	46	.
PUBLIC/SD01-5R	.	46	.
PUBLIC/SD93-828R	.	46	40
COYOTE/4523RR	.	45	.
KRUGER/EXP234RR	.	45	.
PRAIRIE BR./PB-2534RR	.	45	.
EXCEL/8211NRR	.	45	.
PUBLIC/SD01-2493R	.	45	.
PUBLIC/SD01-2509R	.	45	.
ASGROW/AG2203	.	44	.
KRUGER/EXP268RR	.	43	44
KRUGER/EXP257RR	.	43	.
KRUGER/268+RR	.	43	.
TOP FARM/E3M278RR	.	43	.
PUBLIC/SDX00R-030-16	.	40	.
TOP FARM/E3M245RR	.	39	.
NUTECH/NT-2404RR	.	35	.
PRAIRIE BR./PB-2474RR	.	35	.
PUBLIC/SD01-3603R	.	35	.
KRUGER/252RR	.	34	.
WENSMAN/W 2400RR	.	34	.
Test avg.:	.	47	48
High value:	.	55	52
# Lsd (.05):	.	3	6
## TPG-value:	.	52	46
@ Coef. Var.:	.	4	7
No. Entries:	.	53	19

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Lsd, (.05)= amount values in a column must differ to be significantly different.

TPG-value= minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 5b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004.

Brand/Variety (By protein)	DTM*	--- Central Locations --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
PUBLIC/SDX00R-030-16	.	41.1	14.9	3
TOP FARM/E34520RR	.	38.4	15.9	3
KRUGER/268+RR	.	38.3	16.0	2
PRAIRIE BR./PB-2534RR	.	38.3	15.9	3
TOP FARM/E3M245RR	.	38.0	15.1	4
WENSMAN/W 2400RR	.	38.0	15.2	3
PRAIRIE BR./PB-2474RR	.	37.5	15.5	3
NUTECH/NT-2404RR	.	37.3	15.4	3
KRUGER/EXP234RR	.	37.2	16.5	3
THOMPSON/T-2343RR	.	37.2	16.2	3
PUBLIC/SD93-828R	.	37.0	16.3	2
DAIRYLAND/DST20-000/RR	.	36.9	15.9	3
KRUGER/252RR	.	36.8	16.5	3
COYOTE/4523RR	.	36.6	16.6	2
PRAIRIE BR./PB-2343RR	.	36.3	16.1	2
RENK/RS223RR	.	36.3	16.1	2
EXCEL/8211NRR	.	36.2	16.1	4
PRAIRIE BR./PB-2374RR	.	36.0	15.8	4
PRAIRIE BR./PB-2421RR	.	35.9	15.8	3
PUBLIC/SDX00R-014-50	.	35.8	17.2	3
KRUGER/EXP257RR	.	35.2	17.1	3
PUBLIC/SD01-2493R	.	35.1	16.4	2
KRUGER/233+RR	.	34.8	16.4	3
PUBLIC/SD01-5R	.	34.8	15.9	3
PUBLIC/SD01-76R	.	34.8	16.5	3
PUBLIC/SD01-3603R	.	34.8	16.6	4
LATHAM/L2136R	.	34.7	17.0	2
TOP FARM/E34412RR	.	34.7	16.9	2
WENSMAN/W 2211RR	.	34.7	16.7	2
MUSTANG/M-203RR	.	34.6	16.9	2

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 5b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	--- Central Locations --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
TOP FARM/E34104RR	.	34.5	17.1	2
FARM ADVANTAGE/7205	.	34.4	16.8	4
DAIRYLAND/DSR-234/RR	.	34.4	15.7	3
PUBLIC/SD01-2509R	.	34.4	15.7	3
MUSTANG/M-223RR	.	34.3	17.0	1
DEKALB/DKB22-52	.	34.3	17.0	1
KRUGER/200RR	.	34.3	16.9	3
STINE/S2116-4	.	34.2	16.8	2
THOMPSON/T-7243RR	.	34.2	17.0	2
PRAIRIE BR./PB-2243RR	.	34.1	17.0	1
JACOBSEN/J733R	.	33.9	17.1	2
ASGROW/AG2403	.	33.8	17.0	1
SANDS/SOI 2169RR	.	33.8	16.8	3
ASGROW/AG2203	.	33.7	17.7	3
MUSTANG/M-201RR	.	33.7	17.2	1
KRUGER/EXP268RR	.	33.7	17.1	3
TOP FARM/E3M278RR	.	33.7	17.0	3
JACOBSEN/J730NR	.	33.7	17.7	2
PRAIRIE BR./PB-2141RR	.	33.6	17.4	1
SANDS/SOI 2143RR	.	33.5	17.1	1
NORTHSTAR/NS 2009RR	.	33.1	17.9	2
GOLD COUNTRY/6221RR	.	33.0	17.7	1
PUBLIC/SDX00R-039-42	.	32.7	17.0	3
Test avg.:	.	35.3	16.5	3
High value:	.	41.1	17.9	4
* Lsd(.05):				1
## TPG-value:				2
### Coef.Var.:				19
No. Entries:		53	53	53

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 6a. Roundup Ready maturity group-I soybean variety yield averages- southern South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-04 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
ASGROW/AG1903	122	68	.	44	.	56	.
TECH. DIRECT/TD-199RR	122	68	.	43	.	56	.
THOMPSON/T-7214RR	121	65	58	44	.	55	.
NUTECH/NT-1909RR	123	67	.	41	.	54	.
NUTECH/NT-2002RR	123	67	.	41	.	54	.
KRUGER/211+RR	121	65	59	41	33	53	46
PRAIRIE BR./PB-1954RR	118	67	.	38	.	53	.
TECH. DIRECT/TD-202RR	122	64	.	39	.	52	.
KRUGER/223+RR	118	67	59	37	28	52	44
KRUGER/191RR	121	65	56	38	32	52	44
KRUGER/223RR	118	63	57	40	29	52	43
KRUGER/192RR	121	64	.	39	.	52	.
THOMPSON/T-7205RR	120	67	61	36	.	52	.
NUTECH/NT-2202RR	122	62	.	39	.	51	.
STINE/S1918-4	121	65	60	36	.	51	.
THOMPSON/T-7234RR	119	65	.	35	.	50	.
NK BRAND/S19-R5	117	66	.	32	.	49	.
KRUGER/155+RR	115	59	.	33	.	46	.
KALTENBERG/KB153RR	117	61	.	31	.	46	.
PUBLIC/MN-1803RR	122	53	46	37	28	45	37
PUBLIC/SD01-3387R	114	51	.	30	.	41	.
SODAK GENETICS/SD1151RR	116	51	48	29	21	40	35
ASGROW/AG1603	112	.	.	34	.	.	.
COYOTE/4719RR	112	.	.	34	.	.	.
DEKALB/DKB19-52	111	.	.	35	29	.	.
NUTECH/NT-1901RR	127	63	.	.	.	.	.
PUBLIC/SDX00-022R-23	116	45	.	.	.	.	.
PUBLIC/SDX00-024R-14	111	.	.	30	.	.	.
LATHAM/EXP-E1936R	125	64	.	.	.	.	.
GOLD COUNTRY/EXP-318RR	113	.	.	38	.	.	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

Table 6a. Roundup Ready maturity group-I soybean variety yield averages- southern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-04 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
TOP FARM/E34904RR	126	65	.	.	.	.	.
TOP FARM/E3M321RR	126	72	.	.	.	.	.
TOP FARM/E34714RR	120	58	.	.	.	.	.
PRAIRIE BR./PB-2112RR	118	.	.	39	32	.	.
PRAIRIE BR./PB-1754RR	112	.	.	38	.	.	.
PRAIRIE BR./PB-1914RR	118	.	.	40	.	.	.
PUBLIC/SDX00-053R-46	128	55	.	.	.	.	.
ZILLER/BT 7193R	127	63	54	.	.	.	.
PUBLIC/SDX00R-022-66	119	50	.	.	.	.	.
PUBLIC/SDX00R-035-42	111	.	.	37	.	.	.
PUBLIC/SDX00R-035-59	121	52	.	.	.	.	.
PUBLIC/SD01-3219R	112	.	.	34	.	.	.
PUBLIC/SD01-67R	116	.	.	34	.	.	.
PUBLIC/SD96-170RR-28L	117	58	.	.	.	.	.
PUBLIC/SD01-1075R	119	.	.	35	.	.	.
PUBLIC/SD01-1094R	121	.	.	36	.	.	.
PUBLIC/SD01-1120R	128	57	.	.	.	.	.
PUBLIC/SD01-1792R	119	46	.	.	.	.	.
PUBLIC/SD01-3402R	122	51	.	.	.	.	.
PUBLIC/SD00-1018R	111	.	.	37	.	.	.
PUBLIC/SD00-236R	118	50	.	.	.	.	.
PUBLIC/SDX00R-029-3	117	.	.	33	.	.	.
Test avg.:	119	61	56	37	29	50	42
High value:	128	72	61	44	33	56	46
# Lsd (.05):		5	6	7	5	4	.
## TPG-value:		67	55	37	28	52	.
@ Coef. Var.:		5	6	12	10	7	.
No. Entries:		37	10	37	8	22	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.
Lsd,(.05)= amount values in a column must differ to be significantly different.
TPG-value= minimum value to qualify for top performance group.
@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 6b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004.

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
SODAK GENETICS/SD1151RR	116	32.8	17.6	3	33.3	18.7	1	33.1	18.2	2
PUBLIC/SD01-3387R	114	32.6	17.3	2	33.3	19.3	1	33.0	18.3	2
PUBLIC/MN-1803RR	122	33.5	17.4	4	32.4	19.7	1	33.0	18.6	2
NK BRAND/S19-R5	117	31.9	17.6	1	33.3	18.3	1	32.6	18.0	1
KRUGER/155+RR	115	31.7	17.7	1	33.3	19.5	1	32.5	18.6	1
NUTECH/NT-1909RR	123	32.2	18.1	2	32.3	19.7	1	32.3	18.9	1
NUTECH/NT-2202RR	122	32.5	17.9	1	32.0	19.4	1	32.3	18.7	1
TECH. DIRECT/TD-202RR	122	32.5	17.8	1	31.9	19.6	1	32.2	18.7	1
KRUGER/211+RR	121	32.5	17.9	1	31.9	19.1	1	32.2	18.5	1
PRAIRIE BR./PB-1954RR	118	32.0	17.7	2	32.0	19.5	1	32.0	18.6	2
THOMPSON/T-7234RR	119	32.0	17.9	1	31.9	19.3	1	32.0	18.6	1
KRUGER/192RR	121	31.5	18.2	1	32.0	19.6	1	31.8	18.9	1
KRUGER/223RR	118	32.1	18.0	1	30.9	20.1	1	31.5	19.1	1
KALTENBERG/KB153RR	117	30.6	17.8	1	32.4	18.9	1	31.5	18.4	1
THOMPSON/T-7214RR	121	31.9	18.0	1	31.1	20.2	1	31.5	19.1	1
STINE/S1918-4	121	31.4	18.1	1	31.5	19.6	1	31.5	18.9	1
NUTECH/NT-2002RR	123	31.7	18.1	1	31.0	20.4	1	31.4	19.3	1
THOMPSON/T-7205RR	120	31.7	18.0	1	31.0	20.0	1	31.4	19.0	1
ASGROW/AG1903	122	31.6	17.4	1	30.9	19.5	1	31.3	18.5	1
KRUGER/223+RR	118	31.5	18.1	1	30.9	19.8	1	31.2	19.0	1
KRUGER/191RR	121	31.2	18.0	1	31.1	19.8	1	31.2	18.9	1
TECH. DIRECT/TD-199RR	122	32.1	17.7	1	21.5	20.1	1	26.8	18.9	1
ASGROW/AG1603	112	.	.	.	32.2	19.5	1	.	.	.
COYOTE/4719RR	112	.	.	.	31.5	19.8	1	.	.	.
DEKALB/DKB19-52	111	.	.	.	31.8	20.2	1	.	.	.
NUTECH/NT-1901RR	127	33.0	17.0	2	.	.	.	.	.	.
PUBLIC/SDX00-022R-23	116	31.4	18.6	3	.	.	.	.	.	.
PUBLIC/SDX00-024R-14	111	.	.	.	31.8	19.2	1	.	.	.
LATHAM/EXP-E1936R	125	32.1	18.0	1	.	.	.	.	.	.
GOLD COUNTRY/EXP-318RR	113	.	.	.	31.7	19.3	1	.	.	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 6b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
TOP FARM/E34904RR	126	32.0	18.1	1	.	.	.	.	.	.
TOP FARM/E3M321RR	126	32.2	17.9	1	.	.	.	.	.	.
TOP FARM/E34714RR	120	32.2	17.5	1	.	.	.	.	.	.
PRAIRIE BR./PB-2112RR	118	.	.	.	31.9	20.0	1	.	.	.
PRAIRIE BR./PB-1754RR	112	.	.	.	33.1	18.7	1	.	.	.
PRAIRIE BR./PB-1914RR	118	.	.	.	32.1	19.5	1	.	.	.
PUBLIC/SDX00-053R-46	128	31.6	18.0	4	.	.	.	.	.	.
ZILLER/BT 7193R	127	34.0	17.3	2	.	.	.	.	.	.
PUBLIC/SDX00R-022-66	119	31.0	18.6	4	.	.	.	.	.	.
PUBLIC/SDX00R-035-42	111	.	.	.	33.2	19.7	1	.	.	.
PUBLIC/SDX00R-035-59	121	32.9	17.5	1	.	.	.	.	.	.
PUBLIC/SD01-3219R	112	.	.	.	32.4	19.1	1	.	.	.
PUBLIC/SD01-67R	116	.	.	.	31.9	20.1	1	.	.	.
PUBLIC/SD96-170RR-28L	117	30.8	18.3	2	.	.	.	.	.	.
PUBLIC/SD01-1075R	119	.	.	.	32.7	19.4	1	.	.	.
PUBLIC/SD01-1094R	121	.	.	.	32.3	19.4	1	.	.	.
PUBLIC/SD01-1120R	128	32.2	18.3	3	.	.	.	.	.	.
PUBLIC/SD01-1792R	119	32.9	17.3	2	.	.	.	.	.	.
PUBLIC/SD01-3402R	122	36.1	16.1	3	.	.	.	.	.	.
PUBLIC/SD00-1018R	111	.	.	.	31.1	20.0	1	.	.	.
PUBLIC/SD00-236R	118	33.6	17.7	3	.	.	.	.	.	.
PUBLIC/SDX00R-029-3	117	.	.	.	31.8	19.9	1	.	.	.
Test avg.:	119	32.2	17.8	2	31.7	19.6	1	31.7	18.7	1
High value:	128	36.1	18.6	4	33.3	20.4	1	33.1	19.3	2
* Lsd(.05):				1			1			0
## TPG-value:				2			1			1
@ Coef. Var.:				28			0			25
No. Entries:		37	37	37	37	37	37	22	22	22

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 7a. Roundup Ready maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-2004 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
SANDS/SOI 2754RR	128	72	.	43	.	58	.
MUSTANG/M-201RR	122	73	60	41	.	57	.
MUSTANG/M-284RR	129	73	60	40	31	57	46
FARM ADVANTAGE/7264	127	69	.	44	.	57	.
DEKALB/DKB25-51	125	70	60	44	39	57	50
KRUGER/EXP268RR	125	68	.	45	37	57	.
PRAIRIE BR./PB-2141RR	124	71	.	42	36	57	.
ASGROW/AG2403	124	69	60	42	36	56	48
MUSTANG/M-243RR	126	71	59	40	.	56	.
MUSTANG/M-264RR	127	66	.	45	.	56	.
STINE/S2103-4	122	72	.	40	.	56	.
PRAIRIE BR./PB-2421RR	126	70	61	42	32	56	47
PRAIRIE BR./PB-2643RR	127	67	59	44	37	56	48
COYOTE/9524RR	125	68	60	41	36	55	48
COYOTE/4527RR	127	69	.	41	.	55	.
SANDS/SOI 2143RR	122	70	62	39	35	55	49
PRAIRIE BR./PB-2343RR	120	71	59	39	35	55	47
MUSTANG/M-203RR	124	65	58	42	32	54	45
SANDS/EXP 2669RR	125	65	.	42	.	54	.
TECH. DIRECT/TD-266RR	129	63	.	44	.	54	.
KRUGER/289+RR	129	64	.	44	.	54	.
DAIRYLAND/DSR-234/RR	122	67	56	40	35	54	46
DAIRYLAND/DSR-2500/RR	125	70	.	38	.	54	.
RENK/RS253RR	126	66	57	41	34	54	46
ASGROW/AG2203	122	61	.	44	.	53	.
COYOTE/EX325RR	125	68	.	37	.	53	.
MUSTANG/M-255RR	125	65	.	40	.	53	.
MALLARD/EXP RR2411	125	66	.	39	.	53	.
NUTECH/NT-2790+RR	127	65	.	41	.	53	.
KRUGER/233+RR	124	68	.	38	34	53	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

Table 7a. Roundup Ready maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-2004 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KRUGER/EXP257RR	126	65	.	40	.	53	.
KRUGER/200RR	121	67	.	39	.	53	.
KRUGER/252RR	127	63	.	42	.	53	.
STINE/S2116-4	123	65	59	41	.	53	.
PRAIRIE BR./PB-2443RR	122	66	.	40	.	53	.
THOMPSON/T-7243RR	119	67	53	39	30	53	42
THOMPSON/T-2404+RR	126	66	.	40	.	53	.
THOMPSON/T-2707+RR	125	68	.	38	.	53	.
MUSTANG/M-223RR	123	62	.	41	.	52	.
NK BRAND/S27-T7	126	67	.	37	.	52	.
NUTECH/NT-2404RR	126	64	.	39	.	52	.
NUTECH/NT-2707RR	125	62	.	41	.	52	.
TECH. DIRECT/TD-233RR	128	64	.	40	.	52	.
KRUGER/268+RR	125	63	.	40	.	52	.
GOLD COUNTRY/EXP-325RR	124	62	.	42	.	52	.
PRAIRIE BR./PB-2243RR	123	67	60	36	31	52	46
PRAIRIE BR./PB-2374RR	124	64	.	39	.	52	.
SANDS/SOI 2169RR	119	66	.	36	.	51	.
TECH. DIRECT/TD-255RR	124	68	.	34	.	51	.
TECH. DIRECT/TD-262RR	126	62	.	40	.	51	.
KRUGER/270RR	128	61	55	41	31	51	43
KRUGER/273RR	126	62	.	40	.	51	.
KALTENBERG/KB275RR	127	60	54	41	34	51	44
STINE/S2783-4	127	63	.	38	.	51	.
PRAIRIE BR./PB-2534RR	125	65	.	37	.	51	.
JACOBSEN/J828R	128	62	54	40	32	51	43
THOMPSON/T-2790+RR	127	62	.	40	.	51	.
RENK/RS223RR	120	62	55	39	32	51	44
COYOTE/4523RR	125	64	.	35	.	50	.
SANDS/SOI 226RR	123	62	57	38	31	50	44

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

Table 7a. Roundup Ready maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-2004 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
SANDS/SOI 2872RR	128	58	51	42	35	50	43
PRAIRIE BR./PB-2474RR	126	62	.	38	.	50	.
NUTECH/NT-2505RR	125	62	.	36	.	49	.
THOMPSON/T-2505+RR	124	61	.	37	.	49	.
PUBLIC/SDX00R-039-42	126	60	.	37	.	49	.
KALTENBERG/KB245RR	126	54	.	41	.	48	.
PRAIRIE BR./PB-2934RR	130	59	.	36	.	48	.
PUBLIC/SD01-5R	120	60	.	36	.	48	.
FARM ADVANTAGE/7254N	126	54	.	39	.	47	.
KRUGER/277+RR/SCN	127	58	.	36	.	47	.
SANDS/SOI 2642NRR	126	53	50	38	31	46	41
PUBLIC/SD01-3603R	131	54	.	38	.	46	.
ASGROW/AG2302	119	.	.	41	37	.	.
ASGROW/AG2107	115	.	.	40	37	.	.
ASGROW/AG2801	130	60	52	.	.	.	.
DEKALB/DKB22-52	126	66	.	.	.	.	.
SANDS/SOI 2151NRR	126	67	.	.	.	.	.
NUTECH/NT-2550RR	127	66	.	.	.	.	.
KRUGER/EXP234RR	122	.	.	41	.	.	.
KRUGER/EXP287RR	128	60	.	.	.	.	.
LATHAM/497RR	126	71	61	.	.	.	.
LATHAM/L2136R	126	66	61	.	.	.	.
LATHAM/EXP-E2450R	129	61	.	.	.	.	.
LATHAM/738RR	129	66	.	.	.	.	.
LATHAM/EXP-E2635R	128	62	.	.	.	.	.
LATHAM/EXP-E2646R	129	62	.	.	.	.	.
LATHAM/L2857R	132	60	.	.	.	.	.
LATHAM/L2900R	133	67	.	.	.	.	.
GOLD COUNTRY/6221RR	121	.	.	39	.	.	.
DAIRYLAND/DSR-277/RR	124	.	.	44	.	.	.
TOP FARM/E34412RR	125	62	.	.	.	.	.
TOP FARM/E34520RR	130	67	.	.	.	.	.
TOP FARM/E34104RR	127	69	.	.	.	.	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

Table 7a. Roundup Ready maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-2004 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
TOP FARM/E3M278RR	132	68	.	.	.	.	.
TOP FARM/E3M245RR	128	55	.	.	.	.	.
KALTENBERG/KB203RR	127	66	.	.	.	.	.
STINE/S2404-4	129	64	.	.	.	.	.
STINE/S2403-4	130	64	.	.	.	.	.
PUBLIC/SDX00-051R-23	111	.	.	22	.	.	.
ZILLER/BT 7215R	127	73	.	.	.	.	.
JACOBSEN/J730NR	124	69	.	.	.	.	.
JACOBSEN/J733R	126	64	58	.	.	.	.
JACOBSEN/J744NR	125	62	.	.	.	.	.
THOMPSON/T-7293RR	122	.	.	36	29	.	.
THOMPSON/T-2343RR	127	63	.	.	.	.	.
THOMPSON/T-2422RR	127	67	.	.	.	.	.
RENK/RS234RR	127	68	.	.	.	.	.
RENK/RS244NRR	129	56	.	.	.	.	.
EXCEL/8236NRR	127	68	57	.	.	.	.
PUBLIC/SDX00R-014-50	124	58	.	.	.	.	.
PUBLIC/SDX00R-030-16	126	.	.	30	.	.	.
PUBLIC/SD01-76R	124	57	.	.	.	.	.
PUBLIC/SD01-1135R	117	.	.	38	.	.	.
PUBLIC/SD01-2469R	116	.	.	33	.	.	.
PUBLIC/SD01-2493R	117	.	.	33	.	.	.
PUBLIC/SD01-2509R	129	67	.	.	.	.	.
PUBLIC/SD01-2961R	131	53	.	.	.	.	.
PUBLIC/SD93-828R	118	55	47	.	.	.	.
PUBLIC/SDX00R-015-4	111	.	.	26	.	.	.
Test avg.:	125	64	57	39	34	53	46
High value:	133	73	62	45	39	58	50
# Lsd (.05):		5	8	5	6	4	.
## TPG-value:		68	54	40	33	54	.
@ Coef. Var.:		5	6	8	11	6	.
No. Entries:		107	29	84	26	72	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.
Lsd,(.05)= amount values in a column must differ to be significantly different.
TPG-value= minimum value to qualify for top performance group.
@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 7b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004.

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
NUTECH/NT-2505RR	125	34.4	16.6	1	33.5	18.4	1	34.0	17.5	1
MUSTANG/M-255RR	125	35.3	16.4	1	32.5	19.1	1	33.9	17.8	1
COYOTE/EX325RR	125	35.0	16.6	2	32.7	18.9	1	33.9	17.8	1
KRUGER/277+RR/SCN	127	34.6	16.9	1	32.7	19.7	1	33.7	18.3	1
PRAIRIE BR./PB-2534RR	125	34.3	16.6	1	33.0	19.0	1	33.7	17.8	1
TECH. DIRECT/TD-255RR	124	34.3	16.6	1	32.8	18.9	1	33.6	17.8	1
THOMPSON/T-2505+RR	124	34.9	16.3	1	32.2	19.2	1	33.6	17.8	1
KALTENBERG/KB245RR	126	35.2	16.8	3	31.8	19.9	1	33.5	18.4	2
KRUGER/268+RR	125	34.2	16.9	1	32.7	19.1	1	33.5	18.0	1
FARM ADVANTAGE/7254N	126	34.6	16.9	3	32.1	19.8	1	33.4	18.4	2
SANDS/SOI 2642NRR	126	34.0	16.9	3	32.1	19.5	1	33.1	18.2	2
PRAIRIE BR./PB-2343RR	120	33.6	16.7	1	32.3	19.0	1	33.0	17.9	1
PRAIRIE BR./PB-2934RR	130	33.4	17.5	2	32.4	21.0	1	32.9	19.3	2
PRAIRIE BR./PB-2443RR	122	33.9	17.3	1	31.7	19.5	1	32.8	18.4	1
STINE/S2783-4	127	35.1	16.7	2	30.3	20.7	1	32.7	18.7	1
MALLARD/EXP RR2411	125	33.5	16.6	1	31.8	19.1	1	32.7	17.9	1
SANDS/SOI 226RR	123	32.8	17.2	2	32.5	19.4	1	32.7	18.3	2
RENK/RS253RR	126	33.3	17.3	1	31.8	20.0	1	32.6	18.7	1
KRUGER/233+RR	124	33.9	17.1	2	31.1	19.7	1	32.5	18.4	1
DAIRYLAND/DSR-234/RR	122	33.3	17.3	1	31.5	19.7	1	32.4	18.5	1
ASGROW/AG2203	122	34.1	16.9	2	30.6	20.1	1	32.4	18.5	2
NUTECH/NT-2707RR	125	33.4	17.0	2	31.1	20.3	1	32.3	18.7	1
THOMPSON/T-2707+RR	125	33.3	16.9	2	31.2	20.1	1	32.3	18.5	2
PUBLIC/SD01-3603R	131	33.7	16.8	4	30.6	20.3	1	32.2	18.6	3
TECH. DIRECT/TD-262RR	126	32.8	17.4	2	31.3	19.9	1	32.1	18.7	1
KRUGER/EXP257RR	126	32.9	17.1	2	31.2	19.7	1	32.1	18.4	2
SANDS/EXP 2669RR	125	32.9	17.1	1	31.1	20.1	1	32.0	18.6	1
SANDS/SOI 2872RR	128	33.3	17.5	4	30.6	20.5	1	32.0	19.0	3
DAIRYLAND/DSR-2500/RR	125	32.9	17.3	2	31.0	19.7	1	32.0	18.5	1
TECH. DIRECT/TD-233RR	128	33.7	16.4	2	30.1	19.6	1	31.9	18.0	2
MUSTANG/M-223RR	123	32.4	17.6	1	31.4	19.7	1	31.9	18.7	1
KRUGER/273RR	126	33.0	17.3	2	30.7	20.2	1	31.9	18.8	1
COYOTE/4523RR	125	33.4	16.9	2	30.2	19.7	1	31.8	18.3	1
KRUGER/200RR	121	32.6	17.2	3	30.9	19.8	1	31.8	18.5	2
PRAIRIE BR./PB-2243RR	123	32.6	17.5	1	30.9	19.8	1	31.8	18.7	1

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 7b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
MUSTANG/M-284RR	129	33.7	17.2	2	29.7	20.8	1	31.7	19.0	1
KRUGER/270RR	128	33.0	17.3	4	30.3	20.3	1	31.7	18.8	2
PRAIRIE BR./PB-2421RR	126	32.5	17.6	1	30.7	20.4	1	31.6	19.0	1
NUTECH/NT-2404RR	126	33.3	16.8	2	29.9	20.3	1	31.6	18.6	2
THOMPSON/T-2404+RR	126	33.7	16.5	2	29.2	20.4	1	31.5	18.5	2
PRAIRIE BR./PB-2474RR	126	33.3	17.0	2	29.6	20.0	1	31.5	18.5	2
STINE/S2116-4	123	32.2	17.6	1	30.6	19.9	1	31.4	18.8	1
PRAIRIE BR./PB-2374RR	124	32.7	16.8	3	30.1	19.5	1	31.4	18.2	2
COYOTE/4527RR	127	32.6	17.4	1	30.2	20.3	1	31.4	18.9	1
MUSTANG/M-203RR	124	31.4	17.4	1	31.4	19.6	1	31.4	18.5	1
JACOBSEN/J828R	128	32.6	18.1	3	30.2	20.6	1	31.4	19.4	2
THOMPSON/T-7243RR	119	32.5	17.5	1	30.3	19.8	1	31.4	18.7	1
RENK/RS223RR	120	31.9	17.6	1	30.9	19.9	1	31.4	18.8	1
MUSTANG/M-201RR	122	32.3	17.6	1	30.4	20.4	1	31.4	19.0	1
NK BRAND/S27-T7	126	32.2	17.4	1	30.4	20.4	1	31.3	18.9	1
KALTENBERG/KB275RR	127	32.8	17.7	3	29.7	20.7	1	31.3	19.2	2
PUBLIC/SD01-5R	120	31.4	17.2	1	31.1	19.4	1	31.3	18.3	1
SANDS/SOI 2169RR	119	31.7	17.3	2	30.6	19.7	1	31.2	18.5	2
SANDS/SOI 2754RR	128	32.1	17.3	1	30.0	20.5	1	31.1	18.9	1
KRUGER/252RR	127	33.5	16.5	2	28.6	20.4	1	31.1	18.5	2
ASGROW/AG2403	124	31.4	17.6	1	30.6	20.5	1	31.0	19.1	1
PRAIRIE BR./PB-2141RR	124	31.8	17.6	1	30.1	20.0	1	31.0	18.8	1
MUSTANG/M-264RR	127	32.0	17.6	1	29.8	20.6	1	30.9	19.1	1
STINE/S2103-4	122	31.3	17.9	1	30.4	20.5	1	30.9	19.2	1
SANDS/SOI 2143RR	122	31.7	17.7	1	29.9	20.1	1	30.8	18.9	1
PRAIRIE BR./PB-2643RR	127	31.7	17.8	2	29.9	20.4	1	30.8	19.1	2
FARM ADVANTAGE/7264	127	31.9	17.5	1	29.6	20.4	1	30.8	19.0	1
THOMPSON/T-2790+RR	127	32.2	16.4	4	29.2	19.7	1	30.7	18.1	2
KRUGER/289+RR	129	31.8	17.5	2	29.4	20.4	1	30.6	19.0	2
TECH. DIRECT/TD-266RR	129	31.5	16.7	4	29.6	20.0	1	30.6	18.4	3
NUTECH/NT-2790+RR	127	31.9	16.6	4	29.2	19.9	1	30.6	18.3	2
COYOTE/9524RR	125	31.2	18.0	1	29.7	20.8	1	30.5	19.4	1
GOLD COUNTRY/EXP-325RR	124	31.4	16.9	1	29.5	20.0	1	30.5	18.5	1
MUSTANG/M-243RR	126	31.2	17.9	1	29.0	20.8	1	30.1	19.4	1
KRUGER/EXP268RR	125	30.7	18.1	1	28.7	21.4	1	29.7	19.8	1

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 7b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
DEKALB/DKB25-51	125	30.7	18.0	2	28.4	21.1	1	29.6	19.6	1
PUBLIC/SDX00R-039-42	126	30.4	17.1	3	26.7	20.7	1	28.6	18.9	2
ASGROW/AG2302	119	.	.	.	30.5	19.7	1	.	.	.
ASGROW/AG2107	115	.	.	.	31.0	20.7	1	.	.	.
ASGROW/AG2801	130	34.8	16.0	2	.	.	.	.	.	.
DEKALB/DKB22-52	126	31.8	17.9	1	.	.	.	.	.	.
SANDS/SOI 2151NRR	126	31.4	18.1	1	.	.	.	.	.	.
NUTECH/NT-2550RR	127	33.0	17.5	1	.	.	.	.	.	.
KRUGER/EXP234RR	122	.	.	.	31.7	19.5	1	.	.	.
KRUGER/EXP287RR	128	35.0	17.0	1	.	.	.	.	.	.
LATHAM/497RR	126	31.2	17.5	1	.	.	.	.	.	.
LATHAM/L2136R	126	31.7	17.7	1	.	.	.	.	.	.
LATHAM/EXP-E2450R	129	33.4	16.8	2	.	.	.	.	.	.
LATHAM/738RR	129	33.0	17.5	1	.	.	.	.	.	.
LATHAM/EXP-E2635R	128	33.0	17.2	1	.	.	.	.	.	.
LATHAM/EXP-E2646R	129	32.3	17.0	2	.	.	.	.	.	.
LATHAM/L2857R	132	34.1	17.6	3	.	.	.	.	.	.
LATHAM/L2900R	133	32.9	17.0	1	.	.	.	.	.	.
GOLD COUNTRY/6221RR	121	.	.	.	29.8	20.3	1	.	.	.
DAIRYLAND/DSR-277/RR	124	.	.	.	30.6	20.6	1	.	.	.
TOP FARM/E34412RR	125	31.6	17.7	1	.	.	.	.	.	.
TOP FARM/E34520RR	130	33.4	17.1	1	.	.	.	.	.	.
TOP FARM/E34104RR	127	33.1	17.2	2	.	.	.	.	.	.
TOP FARM/E3M278RR	132	32.0	17.7	1	.	.	.	.	.	.
TOP FARM/E3M245RR	128	34.1	16.5	3	.	.	.	.	.	.
KALTENBERG/KB203RR	127	32.4	17.4	1	.	.	.	.	.	.
STINE/S2404-4	129	34.2	16.2	1	.	.	.	.	.	.
STINE/S2403-4	130	33.0	16.9	2	.	.	.	.	.	.
PUBLIC/SDX00-051R-23	111	.	.	.	31.0	19.5	1	.	.	.
ZILLER/BT 7215R	127	31.8	17.7	1	.	.	.	.	.	.
JACOBSEN/J730NR	124	31.5	18.1	1	.	.	.	.	.	.
JACOBSEN/J733R	126	31.9	17.6	1	.	.	.	.	.	.
JACOBSEN/J744NR	125	33.8	17.3	1	.	.	.	.	.	.
THOMPSON/T-7293RR	122	.	.	.	30.7	20.2	1	.	.	.
THOMPSON/T-2343RR	127	33.6	17.1	1	.	.	.	.	.	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 7b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
THOMPSON/T-2422RR	127	33.7	17.3	1	.	.	.	.	.	.
RENK/RS234RR	127	32.4	17.2	1	.	.	.	.	.	.
RENK/RS244NRR	129	34.4	16.5	2	.	.	.	.	.	.
EXCEL/8236NRR	127	34.1	17.1	1	.	.	.	.	.	.
PUBLIC/SDX00R-014-50	124	32.6	17.6	2	.	.	.	.	.	.
PUBLIC/SDX00R-030-16	126	.	.	.	33.3	18.4	1	.	.	.
PUBLIC/SD01-76R	124	31.0	17.0	2	.	.	.	.	.	.
PUBLIC/SD01-1135R	117	.	.	.	32.1	19.0	1	.	.	.
PUBLIC/SD01-2469R	116	.	.	.	29.5	20.2	1	.	.	.
PUBLIC/SD01-2493R	117	.	.	.	30.4	19.9	1	.	.	.
PUBLIC/SD01-2509R	129	30.8	16.9	2	.	.	.	.	.	.
PUBLIC/SD01-2961R	131	34.0	16.7	3	.	.	.	.	.	.
PUBLIC/SD93-828R	118	31.4	17.1	2	.	.	.	.	.	.
PUBLIC/SDX00R-015-4	111	.	.	.	28.6	20.5	1	.	.	.
Test avg.:	125	32.9	17.2	2	30.7	20.0	1	31.8	18.6	1
High value:	133	35.3	18.1	4	33.5	21.4	1	34.0	19.8	3
* Lsd(.05):				1			NS			0
## TPG-value:				2			1			1
@ Coef. Var.:				30			0			26
No. Entries:		107	107	107	84	84	84	72	72	72

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table D. 2004 Conventional soybean entries by brand/variety, yield table number(s), and Phytophthora root rot race resistance.

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
COYOTE/9525	10	II	No Resistance
COYOTE/9723	9,10	II	1-2,10-11,13,15-18,24
COYOTE/EX525	9,10	II	1-11,13-15,17-18,21-22,24
GOLD COUNTRY/5329CYST	10	II	No Resistance
GOLD COUNTRY/6024FG	9,10	II	1-2,10-11,13,15-18,24
JACOBSEN/J772	9	II	Not Reported
JACOBSEN/J814	10	II	Not Reported
JACOBSEN/J826	10	II	Not Reported
LATHAM/1840	9,10	I	No Resistance
LATHAM/280	10	I	No Resistance
LATHAM/570	9	II	No Resistance
LATHAM/EXP E1863	10	I	No Resistance
LATHAM/EXP E2380	10	II	No Resistance
LATHAM/EXP -E2980	10	II	No Resistance
MUSTANG/M-1185	9	I	No Resistance
MUSTANG/M-2255	10	II	1-11,13-15,17-18,21-22,24
NUTECH/NT-170	8-10	I	No Resistance
NUTECH/NT-180	8-10	I	No Resistance
NUTECH/NT-190	8	I	No Resistance
NUTECH/NT-242 SCN	10	II	No Resistance
NUTECH/NT-282 SCN	10	II	No Resistance
Public/HENDRICKS	8,9	0	1-2,10-11,13,15-18,24
Public/MN 0901	8,9	0	1-2,10-11,13,15-18,24
Public/SD00-141	8,9	0	Not Reported
Public/SD00-1587	9,10	II	Not Reported
Public/SD00-1588	8,9	0	Not Reported
Public/SD00-1638	8-10	I	Not Reported
Public/SD00-307	8-10	I	Not Reported
Public/SD00-314	9,10	II	Not Reported
Public/SD00-377	9,10	II	Not Reported
Public/SD00-405	8,9	0	Not Reported
Public/SD00-41	8,9	0	Not Reported
Public/SD00-533	8-10	I	Not Reported
Public/SD00-622	8-10	I	Not Reported
Public/SD00-632	9,10	II	Not Reported
Public/SD00-719	8,9	0	Not Reported

Table D. 2004 Conventional soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
Public/SD00-732	9,10	II	Not Reported
Public/SD00-735	8-10	I	Not Reported
Public/SD00-746	9,10	II	Not Reported
Public/SD96-135-3	8-10	I	Not Reported
Public/SD98-99-2	9,10	II	Not Reported
Public/SD99-1358	8,9	0	Not Reported
Public/SD99-1909	8,9	0	Not Reported
Public/SD99-700	8,9	0	Not Reported
Public/SDX98-74331	8-10	I	Not Reported
Public/SDX98-82302	8-10	I	Not Reported
Public/SPINK	8,9	0	1-2,10-11,13,15-18,24
Public/STRIDE	8-10	I	1-2,10-11,13,15-18,24
Public/SURGE	8,9	0	1-2,10-11,13,15-18,24
Public/TURNER-SCN	9,10	II	1-3,6-11,13,15,17,21,23-24
SANDS/SOI 187	8,9	I	1-2,10-11,13,15-18,24
SANDS/SOI 228N	10	II	No Resistance
SANDS/SOI 256	10	II	No Resistance
SANDS/SOI 288	10	II	No Resistance
THOMPSON/T-3182	8-10	I	1-2,10-11,13,15-18,24
THOMPSON/T-3189	8-10	I	Not Reported
THOMPSON/T-3201	9	II	No Resistance
THOMPSON/T-3222	9,10	II	No Resistance
THOMPSON/T-3288	10	II	1-11,13-15,17-18,21-22,24

Table 8a. Non-Roundup Ready maturity group-0 and -I soybean variety yield averages- South Shore, South Dakota, 2003-2004.

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group			
		MG-0		MG-I	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
PUBLIC/SD99-1909EXP	129	28	.	.	.
PUBLIC/SD00-141EXP	131	27	.	.	.
PUBLIC/SD00-41EXP	132	26	.	.	.
PUBLIC/SD99-700EXP	130	26	27	.	.
PUBLIC/SD00-719EXP	127	25	.	.	.
PUBLIC/SD00-405EXP	130	24	.	.	.
PUBLIC/SD00-1588EXP	130	24	.	.	.
PUBLIC/SURGE	128	24	24	.	.
PUBLIC/SPINK	124	23	23	.	.
PUBLIC/SD99-1358EXP	127	23	25	.	.
PUBLIC/MN 0901	129	22	21	.	.
NUTECH/NT-170	133	.	.	37	.
THOMPSON/T-3189	134	.	.	36	.
NUTECH/NT-180	135	.	.	35	.
SANDS/SOI 187	133	.	.	33	29
NUTECH/NT-190	135	.	.	33	.
THOMPSON/T-3182	133	.	.	32	.
PUBLIC/SD00-307EXP	131	.	.	31	.
PUBLIC/SD00-735EXP	135	.	.	31	.
PUBLIC/SDX98-74331E	134	.	.	29	.
PUBLIC/SD00-1638EXP	130	.	.	28	.
PUBLIC/SD00-533EXP	130	.	.	27	.
PUBLIC/SD96-135-3EX	131	.	.	26	.
PUBLIC/SD00-622EXP	135	.	.	24	.
PUBLIC/SDX98-82302E	128	.	.	22	.
PUBLIC/STRIDE	132	.	.	18	22
Test avg.:	131	25	24	29	25
High value:	135	28	27	37	29
# Lsd (.05):		3	3	3	NS
## TPG-value:		25	24	34	22
@ Coef. Var.:		8	11	7	13
No. Entries:		11	5	15	2

* DTM= days from seeding on May 21, 2004 to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant(NS), NS is indicated.

TPG-value= minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 8b. Non-Roundup Ready maturity group-0 and -I soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2004.

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil & Lodging Averages by Maturity Group					
		MG-0			MG-I		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
PUBLIC/SD00-405EXP	130	37.5	15.3	1	.	.	.
PUBLIC/SD99-1358EXP	127	36.2	15.6	1	.	.	.
PUBLIC/SURGE	128	35.6	16.5	1	.	.	.
PUBLIC/SD99-700EXP	130	35.5	16.5	1	.	.	.
PUBLIC/SD00-719EXP	127	35.0	16.0	1	.	.	.
PUBLIC/SD99-1909EXP	129	35.0	16.0	1	.	.	.
PUBLIC/MN 0901	129	34.5	16.7	1	.	.	.
PUBLIC/SD00-1588EXP	130	34.5	16.6	1	.	.	.
PUBLIC/SD00-141EXP	131	34.0	16.1	1	.	.	.
PUBLIC/SD00-41EXP	132	33.9	16.6	1	.	.	.
PUBLIC/SPINK	124	33.9	16.6	1	.	.	.
PUBLIC/SDX98-82302E	128	.	.	.	38.4	14.6	1
PUBLIC/SDX98-74331E	134	.	.	.	37.7	15.7	1
NUTECH/NT-180	135	.	.	.	36.1	17.0	1
PUBLIC/SD00-735EXP	135	.	.	.	34.5	16.5	1
PUBLIC/SD00-533EXP	130	.	.	.	34.4	16.2	1
THOMPSON/T-3189	134	.	.	.	34.0	16.9	1
SANDS/SOI 187	133	.	.	.	33.9	17.1	1
PUBLIC/SD00-1638EXP	130	.	.	.	33.9	16.8	1
PUBLIC/SD96-135-3EX	131	.	.	.	33.9	17.6	1
NUTECH/NT-190	135	.	.	.	33.8	16.5	1
PUBLIC/SD00-622EXP	135	.	.	.	33.6	17.2	1
PUBLIC/SD00-307EXP	131	.	.	.	33.4	17.4	1
THOMPSON/T-3182	133	.	.	.	33.2	17.1	1
PUBLIC/STRIDE	132	.	.	.	32.9	16.4	1
NUTECH/NT-170	133	.	.	.	32.7	16.9	1
Test avg.:	131	35.1	16.2	1	34.4	16.7	1
High value:	135	37.5	16.7	1	38.4	17.6	1
* Lsd(.05):				NS			NS
## TPG-value:				1			1
@ Coef. Var.:				0			0
No. Entries:		11	11	11	15	15	15

* DTM= days from seeding on May 21, 2004 to maturity;

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant(NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error.

Table 9a. Non-Roundup Ready maturity group-0, -I & -II soybean variety yield averages- Brookings, South Dakota, 2003-2004.

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group					
		MG-0		MG-I		MG-II	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
PUBLIC/SD99-1909EXP	138	50	.	.	.	.	.
PUBLIC/SD00-719EXP	134	48	.	.	.	.	.
PUBLIC/SD00-141EXP	135	46	.	.	.	.	.
PUBLIC/SPINK	132	46	42	.	.	.	.
PUBLIC/SD99-700EXP	136	46	41	.	.	.	.
PUBLIC/SURGE	131	45	39	.	.	.	.
PUBLIC/SD00-41EXP	140	44	.	.	.	.	.
PUBLIC/SD00-405EXP	136	44	.	.	.	.	.
PUBLIC/SD99-1358EXP	134	44	40	.	.	.	.
PUBLIC/SD00-1588EXP	138	40	.	.	.	.	.
PUBLIC/HENDRICKS	139	37	36	.	.	.	.
PUBLIC/MN 0901	134	36	35	.	.	.	.
NUTECH/NT-170	139	.	.	57	.	.	.
LATHAM/EXP-E1840T	140	.	.	55	47	.	.
NUTECH/NT-180	141	.	.	54	.	.	.
MUSTANG/M-1185	139	.	.	53	.	.	.
THOMPSON/T-3182	142	.	.	52	45	.	.
SANDS/SOI 187	141	.	.	51	43	.	.
THOMPSON/T-3189	141	.	.	51	44	.	.
PUBLIC/SD00-533EXP	135	.	.	49	.	.	.
PUBLIC/SD00-307EXP	138	.	.	48	.	.	.
PUBLIC/SD00-735EXP	142	.	.	47	.	.	.
PUBLIC/SDX98-74331E	141	.	.	47	.	.	.
PUBLIC/SD00-1638EXP	140	.	.	46	.	.	.
PUBLIC/SD00-622EXP	143	.	.	44	.	.	.
PUBLIC/SD96-135-3EX	136	.	.	43	37	.	.
PUBLIC/SDX98-82302E	135	.	.	41	.	.	.
PUBLIC/STRIDE	137	.	.	40	36	.	.
JACOBSEN/J772	.	.	.	.	.	53	.
THOMPSON/T-3222	.	.	.	.	.	53	45
PUBLIC/SD00-314EXP	.	.	.	.	.	50	.
LATHAM/570	.	.	.	.	.	49	42
PUBLIC/SD00-632EXP	.	.	.	.	.	49	.
PUBLIC/SD00-746EXP	.	.	.	.	.	49	.
COYOTE/9723	.	.	.	.	.	46	40

* DTM= days from seeding on May 14, 2004 to maturity.

Table 9a. Non-Roundup Ready maturity group-0, -I & -II soybean variety yield averages- Brookings, South Dakota, 2003-2004 (continued).

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group					
		MG-0		MG-I		MG-II	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
PUBLIC/SD00-377EXP	.	.	.	.	.	46	.
PUBLIC/SD98-99-2EXP	.	.	.	.	.	46	.
PUBLIC/SD00-1587EXP	.	.	.	.	.	46	.
COYOTE/EX525	.	.	.	.	.	45	.
GOLD COUNTRY/6024FG	.	.	.	.	.	45	.
PUBLIC/SD00-732EXP	.	.	.	.	.	45	.
THOMPSON/T-3201	.	.	.	.	.	44	.
PUBLIC/TURNER-SCN	.	.	.	.	.	44	39
Test avg.:	138	44	39	49	42	47	42
High value:	143	50	42	57	47	53	45
# Lsd (.05):		7	NS	4	6	4	5
## TPG-value:		43	35	53	41	49	40
@ Coef. Var.:		10	10	5	7	5	5
No. Entries:		12	6	16	6	15	4

* DTM= days from seeding on May 14, 2004 to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum value to qualify for top performance group.

Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 9b. Non-Roundup Ready maturity group-0, -I & -II soybean variety protein, oil, and lodging score averages- Brookings, South Dakota, 2004.

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil, & Lodging Averages by Maturity Group								
		MG-0			MG-I			MG-II		
		Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)
PUBLIC/SD00-405EXP	136	39.3	15.0	1	.	.	.	.	.	.
PUBLIC/SD00-41EXP	140	37.5	15.1	1	.	.	.	.	.	.
PUBLIC/SURGE	131	37.0	16.0	1	.	.	.	.	.	.
PUBLIC/SD99-1358EXP	134	36.7	15.6	1	.	.	.	.	.	.
PUBLIC/HENDRICKS	139	36.6	15.8	1	.	.	.	.	.	.
PUBLIC/SD00-719EXP	134	36.4	15.9	1	.	.	.	.	.	.
PUBLIC/SD99-700EXP	136	36.2	16.2	1	.	.	.	.	.	.
PUBLIC/SD00-1588EXP	138	36.2	16.3	1	.	.	.	.	.	.
PUBLIC/SD99-1909EXP	138	35.7	16.6	1	.	.	.	.	.	.
PUBLIC/SD00-141EXP	135	35.2	16.5	1	.	.	.	.	.	.
PUBLIC/MN 0901	134	35.0	17.4	1	.	.	.	.	.	.
PUBLIC/SPINK	132	34.6	16.6	1	.	.	.	.	.	.
PUBLIC/SDX98-82302E	135	.	.	.	41.3	13.5	1	.	.	.
PUBLIC/SDX98-74331E	141	.	.	.	40.1	15.4	1	.	.	.
THOMPSON/T-3189	141	.	.	.	37.2	16.0	1	.	.	.
PUBLIC/SD00-735EXP	142	.	.	.	36.5	16.2	1	.	.	.
PUBLIC/SD00-533EXP	135	.	.	.	36.4	15.7	1	.	.	.
NUTECH/NT-180	141	.	.	.	35.9	16.8	1	.	.	.
PUBLIC/SD96-135-3EX	136	.	.	.	35.6	17.3	1	.	.	.
LATHAM/EXP-E1840T	140	.	.	.	35.2	16.7	1	.	.	.
PUBLIC/SD00-307EXP	138	.	.	.	35.0	17.0	1	.	.	.
PUBLIC/SD00-622EXP	143	.	.	.	34.7	17.2	1	.	.	.
SANDS/SOI 187	141	.	.	.	34.5	16.6	1	.	.	.
PUBLIC/SD00-1638EXP	140	.	.	.	34.5	16.2	1	.	.	.
PUBLIC/STRIDE	137	.	.	.	34.2	16.6	1	.	.	.
NUTECH/NT-170	139	.	.	.	34.1	16.6	1	.	.	.
MUSTANG/M-1185	139	.	.	.	34.0	16.8	1	.	.	.
THOMPSON/T-3182	142	.	.	.	34.0	17.3	1	.	.	.
PUBLIC/SD00-746EXP	.	.	.	.	.	.	.	38.5	14.7	2
PUBLIC/SD00-377EXP	.	.	.	.	.	.	.	38.2	16.2	1
PUBLIC/SD00-732EXP	.	.	.	.	.	.	.	38.2	15.1	1
THOMPSON/T-3222	.	.	.	.	.	.	.	37.4	15.6	1
GOLD COUNTRY/6024FG	.	.	.	.	.	.	.	36.7	16.2	1
PUBLIC/TURNER-SCN	.	.	.	.	.	.	.	36.7	15.6	1
LATHAM/570	.	.	.	.	.	.	.	36.4	16.2	1

* DTM= days from seeding on May 14, 2004 to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 9b. Non-Roundup Ready maturity group-0, -I & -II soybean variety protein, oil, and lodging score averages- Brookings, South Dakota, 2004 (continued).

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil, & Lodging Averages by Maturity Group								
		MG-0			MG-I			MG-II		
		Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)
COYOTE/9723	.	.	.	.	.	.	.	36.2	15.2	1
PUBLIC/SD00-1587EXP	.	.	.	.	.	.	.	36.0	16.1	1
THOMPSON/T-3201	.	.	.	.	.	.	.	35.9	15.6	1
PUBLIC/SD00-314EXP	.	.	.	.	.	.	.	35.7	16.0	2
PUBLIC/SD00-632EXP	.	.	.	.	.	.	.	35.7	15.3	1
COYOTE/EX525	.	.	.	.	.	.	.	34.7	16.1	2
JACOBSEN/J772	.	.	.	.	.	.	.	34.6	16.6	1
PUBLIC/SD98-99-2EXP	.	.	.	.	.	.	.	34.4	17.3	1
Test avg.:	138	36.4	16.1	1	35.8	16.4	1	36.4	15.9	1
High value:	143	39.3	17.4	1	41.3	17.3	1	38.5	17.3	2
* Lsd(.05):				NS			NS			0
## TPG-value:				1			1			1
@ Coef. Var.:				0			14			25
No. Entries:		12	12	12	16	16	16	15	15	15

* DTM= days from seeding on May 14, 2004 to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error.

Table 10a. Non-Roundup Ready maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2003-2004.

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group			
		MG-I		MG-II	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
NUTECH/NT-180	123	69	.	.	.
LATHAM/EXP-E1840T	123	69	61	.	.
LATHAM/280	123	68	59	.	.
LATHAM/EXP E1863	121	68	.	.	.
NUTECH/NT-170	121	67	.	.	.
THOMPSON/T-3189	123	67	59	.	.
PUBLIC/SD00-307EXP	120	61	.	.	.
THOMPSON/T-3182	124	59	54	.	.
PUBLIC/SD00-735EXP	124	58	.	.	.
PUBLIC/SD00-622EXP	124	56	.	.	.
PUBLIC/SDX98-74331E	122	55	.	.	.
PUBLIC/SD00-533EXP	119	54	.	.	.
PUBLIC/STRIDE	120	54	51	.	.
PUBLIC/SD96-135-3EX	119	51	48	.	.
PUBLIC/SDX98-82302E	116	44	.	.	.
PUBLIC/SD00-1638EXP	121	43	.	.	.
JACOBSEN/J826	126	.	.	70	60
COYOTE/9723	126	.	.	69	58
SANDS/SOI 288	129	.	.	69	57
COYOTE/EX525	131	.	.	68	.
JACOBSEN/J814	126	.	.	67	58
THOMPSON/T-3222	125	.	.	67	.
PUBLIC/SD98-99-2EXP	123	.	.	67	.
MUSTANG/M-2255	131	.	.	66	.
NUTECH/NT-282 SCN	131	.	.	66	.
NUTECH/NT-242 SCN	130	.	.	65	.
PUBLIC/SD00-732EXP	123	.	.	65	.
SANDS/SOI 256	126	.	.	64	56
LATHAM/EXP-E2980	132	.	.	64	.
PUBLIC/SD00-746EXP	124	.	.	64	.

* DTM= days from seeding on May 19, 2004 to maturity.

Table 10a. Non-Roundup Ready maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2003-2004 (continued).

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group			
		MG-I		MG-II	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
LATHAM/EXP E2380	131	.	.	63	.
SANDS/SOI 228N	131	.	.	62	.
GOLD COUNTRY/5329CY	129	.	.	62	.
THOMPSON/T-3288	131	.	.	62	55
PUBLIC/SD00-632EXP	123	.	.	59	.
COYOTE/9525	129	.	.	58	51
GOLD COUNTRY/6024FG	128	.	.	57	.
PUBLIC/SD00-1587EXP	125	.	.	56	.
PUBLIC/TURNER-SCN	126	.	.	53	47
PUBLIC/SD00-314EXP	124	.	.	51	.
PUBLIC/SD00-377EXP	121	.	.	44	.
Test avg.:	125	59	55	62	55
High value:	132	69	61	70	60
# Lsd (.05):		5	9	7	8
## TPG-value:		64	52	63	52
@ Coef. Var.:		5	7	7	6
No. Entries:		16	6	25	8

* DTM= days from seeding on May 19, 2004 to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different.

TPG-value= minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 10b. Non-Roundup Ready maturity group-I & -II soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2004.

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil, & Lodging Average by Maturity Group					
		MG-I			MG-II		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
PUBLIC/SDX98-82302E	116	37.9	15.3	4	.	.	.
PUBLIC/SDX98-74331E	122	37.6	15.6	3	.	.	.
THOMPSON/T-3189	123	34.3	16.3	2	.	.	.
PUBLIC/SD00-735EXP	124	33.8	16.8	3	.	.	.
LATHAM/280	123	33.7	17.1	1	.	.	.
NUTECH/NT-180	123	33.4	17.0	1	.	.	.
PUBLIC/SD96-135-3EX	119	33.3	18.1	2	.	.	.
LATHAM/EXP-E1840T	123	33.2	17.1	2	.	.	.
PUBLIC/SD00-533EXP	119	32.5	17.1	4	.	.	.
PUBLIC/SD00-1638EXP	121	32.5	17.6	3	.	.	.
LATHAM/EXP E1863	121	31.7	16.7	2	.	.	.
PUBLIC/SD00-622EXP	124	31.7	18.1	1	.	.	.
NUTECH/NT-170	121	31.2	16.9	2	.	.	.
PUBLIC/STRIDE	120	30.9	17.6	2	.	.	.
THOMPSON/T-3182	124	30.7	17.4	2	.	.	.
PUBLIC/SD00-307EXP	120	30.6	18.1	2	.	.	.
PUBLIC/SD00-377EXP	121	.	.	.	35.2	17.4	2
GOLD COUNTRY/6024FG	128	.	.	.	34.9	16.9	3
NUTECH/NT-282 SCN	131	.	.	.	34.0	17.4	3
PUBLIC/SD00-732EXP	123	.	.	.	33.8	17.0	2
THOMPSON/T-3222	125	.	.	.	33.7	16.7	3
PUBLIC/SD00-746EXP	124	.	.	.	33.7	17.1	2
GOLD COUNTRY/5329CY	129	.	.	.	33.6	17.4	3
LATHAM/EXP-E2980	132	.	.	.	33.5	17.4	3
JACOBSEN/J826	126	.	.	.	33.5	16.8	1
SANDS/SOI 228N	131	.	.	.	33.2	17.3	3
LATHAM/EXP E2380	131	.	.	.	33.2	17.2	3
PUBLIC/SD00-1587EXP	125	.	.	.	33.0	17.2	4
JACOBSEN/J814	126	.	.	.	32.9	16.9	2
COYOTE/9723	126	.	.	.	32.8	16.9	2

* DTM= days from seeding on May xx to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 10b. Non-Roundup Ready maturity group-I & -II soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2004 (continued).

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil, & Lodging Average by Maturity Group					
		MG-I			MG-II		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
NUTECH/NT-242 SCN	130	.	.	.	32.6	17.7	3
SANDS/SOI 256	126	.	.	.	32.5	17.8	1
SANDS/SOI 288	129	.	.	.	32.4	17.2	2
THOMPSON/T-3288	131	.	.	.	32.2	17.2	4
PUBLIC/SD00-632EXP	123	.	.	.	32.1	16.6	3
PUBLIC/TURNER-SCN	126	.	.	.	32.1	18.1	2
PUBLIC/SD98-99-2EXP	123	.	.	.	32.0	18.1	2
COYOTE/EX525	131	.	.	.	31.5	17.5	4
MUSTANG/M-2255	131	.	.	.	31.2	17.5	3
PUBLIC/SD00-314EXP	124	.	.	.	31.2	17.9	4
COYOTE/9525	129	.	.	.	31.0	18.0	2
Test avg.:	125	33.1	17.1	2	32.9	17.3	3
High value:	132	37.9	18.1	4	35.2	18.1	4
* Lsd(.05):				1			1
## TPG-value:				2			2
@ Coef. Var.:				31			17
No. Entries:		16	16	16	25	25	25

* DTM= days from seeding on May 19, 2004 to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table E. Mailing addresses of seed companies entered in the 2004 soybean trials.

Company name (brand name)
Bio Gene Seeds (Bio Gene), 5491 Tri-County Hwy, Sardinia, OH 45171
Coyote Seed Mills (Coyote), Inc., PO Box 16, Bridgewater, SD 57319-0016
Dairyland Seed Co.,Inc. (Dairyland), PO Box 958, West Bend, WI 53095
Dyna-Gro (Dyna-Gro), 104 Harrison, Emmetsburg, IA 50536
Excel Brand (Excel), 116 E. State, Camp Point, IL 62320
Foundation Seed Stocks (Sodak Genetics), Box 2207A, SDSU, Brookings, SD 57007
Farm Advantage (Farm Advantage), 1275 Hwy 69, Belmont, IA 50421
Gold Country Seed Inc. (Gold Country), 16506 Hwy 15 N., Hutchinson, MN 55350
Jacobsen Hybrid Corn Co.,Inc. (Jacobsen), 129 9th St., Lake View, IA 51450
Kaltenberg Seeds (Kaltenberg), PO Box 278, Waunakee, WI 53597
Keltgen Inc. (Agventure), 302 Spruce St., Henry, SD 57243
Kruger Seed Co. (Kruger), 33938 160th Ave., Dike, IA 50624
Latham Seed Co. (Latham), 131 180th St, Alexander, IA 50420-8028
Mallard Seed Co. (Mallard), Inc., PO Box 637, Plainview, MN 55964
Monsanto (Asgrow & Dekalb), 3100 Sycamore Rd, Dekalb, IA 60115
Mustang Seeds (Mustang), PO Box 466, Madison, SD 57042
NK (NK Brand), 1201 Holiday Drive, Canton, SD 57013
Northstar Genetics (Northstar), 605 E. 21st St., Sioux Falls, SD 57105
Peterson Farms Seed (Peterson), 3104 164th Ave. SE, Harwood, ND 58042
Prairie Brand Seed Co. (Prairie Brand), 15 X Ave., Story City, IA 50248
Renk Seed Co. (Renk), 6800 Wilburn Rd., Sun Prairie, WI 53590
Sand Seed Service,Inc. (Sands), Box 648, Marcus, IA 51035
Seeds 2000 (Seeds 2000), PO Box 200, Breckenridge, MN 56520
Stine Seed Co.(Stine), 2225 Laredo Trail, Adel, IA 50003
Technology Direct (Tech. Direct), PO Box 303, Urbandale, IA 50322
Thompson Seeds Inc. (Thompson), 40321 130th Ave., Leland, IA 50453
Thompson Seeds/Nutech (Nutech), 6131 North Fork Rd., Ames, IA 50010
Thunder Seed (Thunder), 3008 210th St.N., Hawley, MN 56549-9433
Top Farm Hybrids x(Top Farm Hybrids), PO Box 850, Cokato, MN 55321
Wensman Seed Co.(Wensman), PO Box 190, Wadena, MN 56482
Ziller Seed Co. Inc.(Ziller), 76374 380th St., Bird Island, MN 55310
