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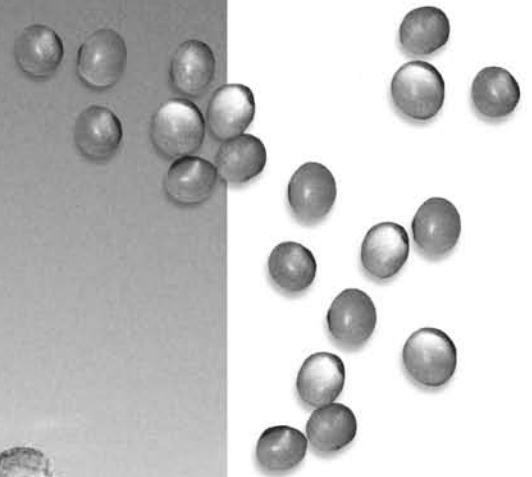
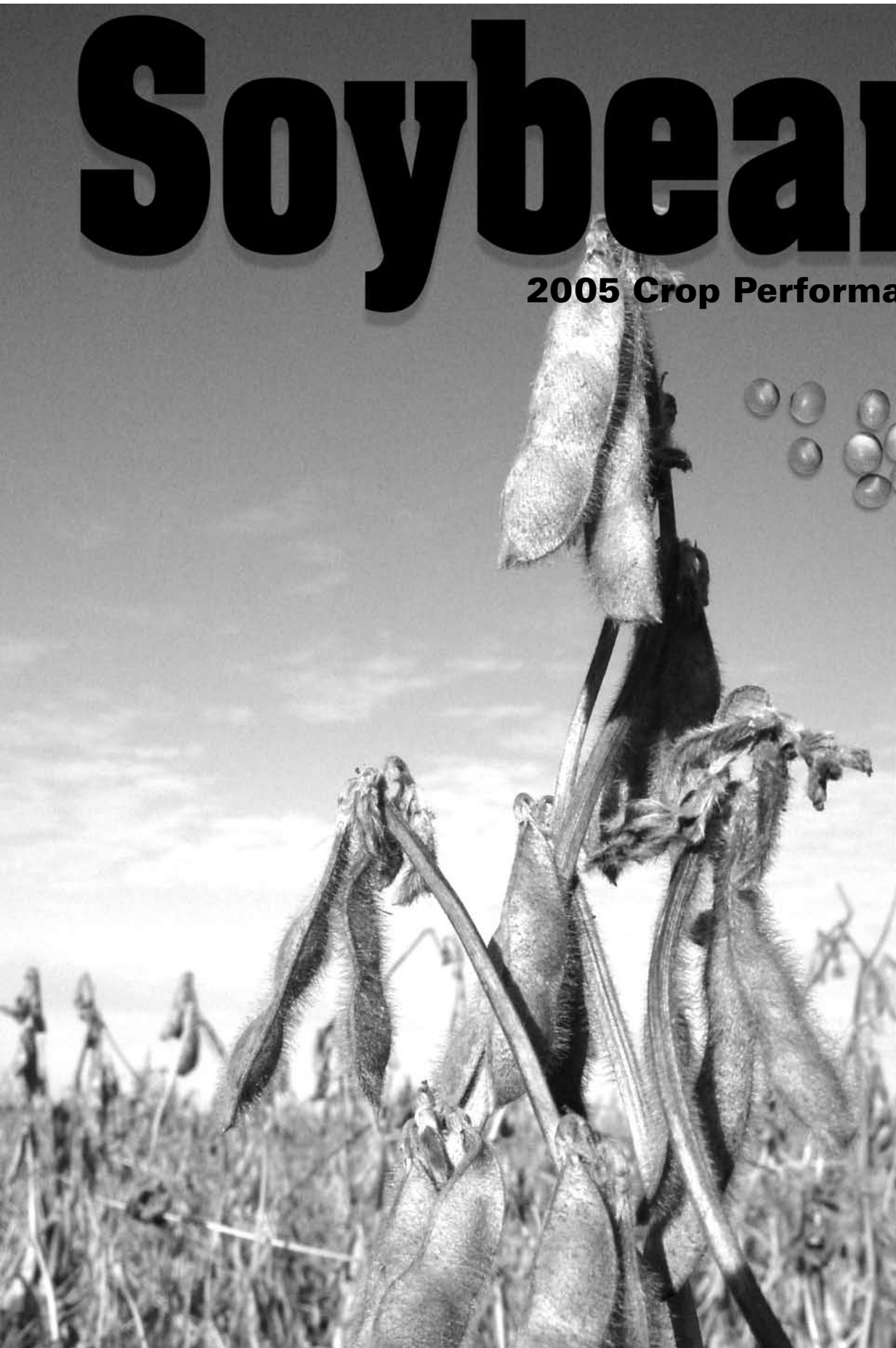
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EC 775
Revised
Annually

Soybeans

2005 Crop Performance Results



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

The crop performance trials are available at <http://plantsci.sdstate.edu/varietytrials/vartrial.html>

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EC 775—Precision Planted Soybeans 2005 Crop Performance Results
is available electronically on the internet
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2005 South Dakota Precision Planted Soybean Variety Performance Trials

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- Table A – Nearest station precipitation averages and departures from normal for 2005.
- 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.
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Successful soybean production is greatly affected by variety selection for a given growing area. This publication reports the agronomic performance of entries in the 2005 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 to assist in making variety selections.

General

Soybean varieties are classified according to maturity groups, which in turn are adapted to maturity zones. Maturity zones are based on day length and therefore are 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, Nebraska, and southward into Texas.

These soybean performance trial results are reported according to the prevalent maturity zones in South Dakota (see

map). Roundup-Ready™ soybean variety trials are conducted in the following test zones and 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 Bancroft.

Southern test zone: Maturity group-I and -II trials at Beresford and Delmont.

The conventional soybean variety trials are only conducted on SDSU-affiliated research farms and locations:

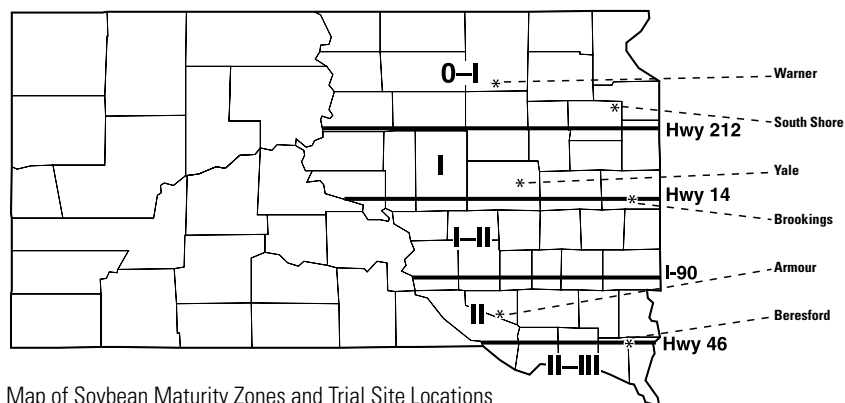
NE Research Farm, South Shore- Maturity group-0 and -I trials.

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 following hail, or if double cropping.

Phytophthora root rot (PRR) is an important soybean disease



Map of Soybean Maturity Zones and Trial Site Locations

in South Dakota and is often controlled or managed with the use of resistant varieties. However, the resistance to PRR 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 a field is suspected of having PRR and the specific race(s) involved is unknown, then selection of varieties having genes that impart a wide range of race resistance is strongly suggested (see discussion of *Phytophthora* under General Test Procedures).

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. Inoculate if soybeans are seeded in soils not previously cropped with soybeans. 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 bu, Variety B yields 25 bu, and the calculated Lsd value is 4 bu. The yield difference between varieties A and B is 5 bu per acre. Since the yield difference of 5 bu is greater than the test Lsd value of 4 bu, the yield of Variety A (30 bu) is significantly higher than the yield of Variety B (25 bu).

But if Variety A yielded 28 bu and Variety B yielded 25 bu, the yield difference would be 3 bu per acre. In this case, both varieties would have a similar yield because their yield difference of 3 bu was less than the test Lsd value of 4 bu 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 bu and the LSD value for that yield column is 5 bu, then the minimum top yield value equals 45 bu ($50 - 5 = 45$). 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 2005 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. A company selects the appropriate maturity group trial for its entries at each location. Generally, companies have one or more maturity group checks for the varieties they market. 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 late group-0 and early group-I and between late group-I and early group-II 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 J. Smolik and A. Heuer, NE Research Farm, South Shore, and R. Berg and staff, SE Research Farm, Beresford, in obtaining the data is gratefully acknowledged. The comments regarding *Phytophthora* root rot race resistance and tolerance by Marty Draper, Extension plant pathologist is appreciated.

In addition, the assistance and cooperation of our farmer co-operators, Allen and Inel Ryckman, Warner, Richard Luebke, Delmont, and Erland Weerts, Bancroft, is gratefully acknowledged.

Protein and Oil Content

The protein and oil values reported are for the 2005 cropping season. At all locations, one sub-sample from each replication (3 sub-samples total) of every variety in each trial was tested for protein and oil, using a FOSS TECATOR Model Infratec 1229 grain analyzer calibrated using the manufacturer’s software. Samples of known protein and oil that had been tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory were then used to verify their software calibration. All protein and oil values are adjusted to a 13% moisture basis.

Weather and Seasonal Precipitation

In the spring of 2005, late May precipitation caused planting to be delayed until June 16 and June 20, respectively, at Beresford and Delmont. A best estimate of seasonal precipitation and its distribution is shown in Table A. As of August 28, all weather reporting stations nearest each test trial were reporting average or above rainfall accumulation. In July, Watertown and Huron reported below average rainfall but by late August had attained near average or above rainfall. It should be noted that the cooperator at Delmont indicated that less moisture was received by Delmont than at the nearest reporting station at Armour.

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 both pre- and post-emergence treatments at the research farms.

Pre-emergence treatments consisted of 1 qt Dual II Magnum at South Shore and Brookings and 26 oz Roundup + 1 qt Dual + 1pt Select at Beresford. The post-emergence treatment consisted of an application of Roundup Ultra (32 oz/A) when weeds were 4-5 inches tall followed by the same application. In non-Roundup Ready™ test trials, pre-emergence herbicides consisted of 1 qt Dual II Magnum at South Shore and Brookings and 26 oz Roundup + 1 qt Dual + 1pt Select at Beresford. No post-emergence treatments were applied. Chemicals were applied according to label instructions.

Insecticide treatments were applied at all research farm test trials to control soybean aphid and bean leaf beetle. At South Shore, Asana was applied August 13; at Brookings, Warrior was applied August 13; and at Beresford, NuFos was applied on August 16, 2005, at recommended rates.

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 consist of 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. If the DTM value is missing, the entry did not reach maturity before the first killing frost and no value is given.

Height: Height was 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 were supplied by the participating seed company (proprietary entries) or obtained from the USDA, Uniform Soybean Tests, Northern States (public entries). A key for each type of PRR gene and the race resistance it imparts to a variety is indicated in Table B. The specific race resistance to PRR for a given variety, as reported by the seed company, can be determined by noting the type of *Phytophthora* gene in tables C (Roundup Ready™) and D (non-Roundup Ready™) and referencing the gene type to table B to find the final race resistance. Presently, races 1, 3, and 4 are the most common races in South Dakota.

ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

Note: Yields are reported as 2005 averages or 2-year averages (2004-05).

NORTHERN TEST ZONE

SOUTH SHORE- Northeast Research Farm
WARNER- NO-TILL, Allen & Inel Ryckman Farm
(cooperators)

South Shore, Group-0 (Tables 1a & 1b): The 2005 and 2-year test yield averages were 49 and 44 bu per acre, respectively (Table 1a). Varieties had to average 50 bu or higher to be in the top yield group for 2005. Varieties had to average 44 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bu in 2005 and 5 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 37.2%, 17.2% and 1, respectively (Table 1b). Lodging score averages of 1 indicated a variety qualified for the top performance group or did not exhibit any lodging.

Warner, Group-0 (Tables 1a & 1b): The 2005 and 2-year test yield averages were 50 and 49 bu per acre, respectively (Table 1a). Varieties had to average 50 bu or higher to be in the top yield group for 2005. Varieties had to average 47 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bu in 2005 and 5 bu for 2 years to be significantly different.

The 2005 protein, oil, and lodging score test averages were 34.5%, 18.5%, 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 2005 and 2-year test yield averages in the Northern zone were 49 and 47 bu per acre, respectively (Table 1a). Varieties had to average 51 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 3 bu in 2005 to be significantly different. Varieties had to average 48 bu or higher to be in the top yield group for 2 years. The 2005 protein, oil, and lodging score test averages were 35.9%, 17.8%, and 1, respectively (Table 1b). Only a few entries exhibited any measurable lodging.

South Shore, Group-I (Tables 2a & 2b): The 2005 and 2-year test yield averages were 47 and 45 bu per acre, respectively (Table 2a). Varieties had to average 48 bu or higher to be in the top yield group for 2005. Varieties had to average 45 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bu in 2005 and 3 bu for 2 years to be in the top performance group for yield. The 2005 protein, oil, and lodging score test averages were 36.9%, 17.2%, and 1, respectively (Table 2b). Although lodging scores were significant, an average of 1 indicated lodging was not a major factor in this trial.

Warner, Group-I (Tables 2a & 2b): The 2005 and 2-year test yield averages were 51 and 50 bu per acre, respectively (Table 2a). Varieties had to average 52 bu or higher to be in the top yield group for 2005. Varieties had to average 49 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.0%, 18.6%, and 1, respectively (Table 2b). Although lodging score averages were significant, the amount of lodging present was not a major factor for this trial.

Northern test zone, Group-I (Tables 2a & 2b): The 2005 and 2-year test yield averages in the Northern zone were 49 and 48 bu per acre, respectively (Table 2a). Varieties had to average 51 bu or higher in 2005 and 47 bu for 2 years to be in the top yield group. Variety yield averages had to differ by 3 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 35.5%, 17.9%, and 1, respectively (Table 2b). Lodging score averages indicated lodging was not a major problem in 2005 in this trial.

CENTRAL TEST ZONE

BROOKINGS– Plant Science Research Farm
BANCROFT- NO-TILL, Erland Weerts (cooperator)

Brookings, Group-0 (Tables 3a & 3b): The 2005 and 2-year test yield averages were 64 and 55 bu per acre, respectively (Table 3a). Varieties had to average 65 bu or higher to be in the top yield group for 2005. Varieties had to average 54 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bu in 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 36.1%, 17.3%, and 2, respectively (Table 3b). Lodging score averages had to equal 1 to be in the top performance group. On average, lodging was measurable but did not impact yield significantly.

Bancroft, Group-0 (Tables 3a & 3b): The 2005 yield average was 63 bu per acre (Table 3a). Likewise, varieties had to average 63 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 5 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.9%, 17.5%, and 1, respectively (Table 3b). Although lodging score averages were significant, the amount of lodging present was not a major factor for this trial.

Central test zone, Group-0 (Tables 3a & 3b): The 2005 yield average was 64 bu per acre (Table 3a). Varieties had to average 65 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 3 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 35.5%, 17.3%, and 2, respectively (Table 3b). Although a few varieties exhibited moderate lodging score averages, lodging did not appear to impact yield significantly in this zone.

Brookings, Group-I (Tables 4a & 4b): The 2005 and 2-year test yield averages were 66 and 57 bu per acre, respectively (Table 4a). Varieties had to average 69 bu or higher to be in the top yield group for 2005. Varieties had to average 57 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bu in 2005 and 3 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 35.1%,

17.1%, and 2, respectively (Table 4b). A lodging score average of 2 indicated lodging was measurable and ranged from no lodging (1) to moderately severe lodging (4). A few varieties with a lodging score of 1 did not exhibit any tendency to lodge.

Bancroft, Group-I (Tables 4a & 4b): The 2005 yield average was 64 bu per acre (Table 4a). Varieties had to average 69 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 4 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.4%, 18.9%, and 2, respectively (Table 4b). A lodging score average of 2 indicated lodging was measurable and ranged from no lodging (1) to moderate lodging (3). A few varieties with a lodging score of 1 did not exhibit any tendency to lodge.

Central test zone, Group-I (Tables 4a & 4b): The 2005 yield average was 66 bu per acre (Table 4a). Varieties had to average 69 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 3 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.8%, 18.1%, and 2, respectively (Table 4b). Although most varieties exhibited some degree of lodging, it did not appear to impact yield significantly in this zone.

Brookings, Group-II (Tables 5a & 5b): The 2005 and 2-year test yield averages were 67 and 59 bu per acre, respectively (Table 5a). Varieties had to average 71 bu or higher in 2005 and 57 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in 2005 and 5 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.6%, 17.9%, and 3, respectively (Table 5b). Lodging score averages had to be 2 or less to be in the top performance group. Although lodging was significant in this trial, yields were still significantly higher than average compared to other years.

Bancroft, Group-II (Tables 5a & 5b): The 2005 yield average was 68 bu per acre (Table 5a). Varieties had to average 69 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 4 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.0%, 18.5%, and 2, respectively (Table 5b). A lodging score average of 2 indicated lodging was measurable and ranged from no lodging (1) to moderate lodging (3). A few varieties with a lodging score of 1 did not exhibit any tendency to lodge.

Central test zone, Group-II (Tables 5a & 5b): The 2005 yield average was 67 bushels per acre (Table 5a). Varieties had to average 70 bushels or higher to be in the top yield group for 2005. Variety yield averages had to differ by 3 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.2%, 18.3%, and 2, respectively (Table 5b). Although a few varieties exhibited moderate lodging yield averages were above average for this zone in 2005.

SOUTHERN TEST ZONE

BERESFORD– South Dakota Agricultural Experiment
Station Farm
DELMONT- NO-TILL, Richard Luebke Farm (cooperator)

Note: The trials at Beresford and Delmont were seeded relatively late on June 16 and June 20, 2005, respectively, as the

result of a wet spring at these locations. The soybean trials at Delmont suffered due to a lack of much needed moisture in July and August.

Beresford, Group-I (Tables 6a & 6b): The 2005 and 2-year test yield averages were 51 and 58 bu per acre, respectively (Table 6a). Varieties had to average 50 bu or higher in 2005 and 55 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 7 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.8%, 18.3%, and 1, respectively (Table 6b). Lodging was not a significant factor in 2005.

Delmont, Group-I (Tables 6a & 6b): The 2005 and 2-year test yield averages were 24 and 32 bu per acre, respectively (Table 6a). Varieties had to average 27 bu or higher in 2005 and 33 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in 2005 and 5 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.5%, 17.3%, and 1, respectively (Table 6b). Lodging was not observed in this trial in 2005.

Southern test zone, Group-I (Tables 6a & 6b): The 2005 and 2-year test yield averages in the southern zone were 38 and 46 bu per acre, respectively (Table 6a). Varieties had to average 38 bu or higher in 2005 and 42 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in 2005 and 7 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.6%, 17.8%, and 1, respectively (Table 6b). On average, lodging was not significant in this zone in 2005.

Beresford, Group-II (Tables 7a & 7b): The 2005 and 2-year test yield averages were 51 and 60 bu per acre, respectively (Table 7a). Varieties had to average 55 bu or higher in 2005 and 61 bu for 2 years to be in the top yield group. Variety yield averages had to differ by 6 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 35.2%, 18.0%, and 1, respectively (Table 7b). A lodging score average of 1 indicates lodging was not significant in this trial in 2005.

Delmont, Group-II (Tables 7a & 7b): The 2005 and 2-year test yield averages were 26 and 34 bu per acre, respectively (Table 7a). Varieties had to average 29 bu or higher in 2005 and 35 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 32.8%, 17.8%, and 1, respectively (Table 7b). There was no lodging observed in this trial for 2005.

Southern test zone, Group-II (Tables 7a & 7b): The 2005 and 2-year test yield averages in the southern zone were 39 and 47 bu per acre, respectively (Table 7a). Varieties had to average 40 bu or higher in 2005 and 44 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in 2005 and 7 bu for 2 years to be significantly different. Yield averages differed significantly between locations for both 2005 and for 2 years. Growers are encouraged to look at both the 2005 and the 2-year yield averages at each location separately to evaluate average yield trends at a given location. The 2005 protein, oil, and lodging score test averages were 34.0%, 17.9%, and 1, respectively (Table 7b). On average, lodging was not a significant factor in this zone in 2005.

NON-ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

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

Note: Yields are reported as 2005 averages or 2-year averages (2004-05). The trials at Beresford were seeded relatively late on June 16, 2005, as the result of a wet spring at that location.

South Shore, Group-0 (Tables 8a & 8b): The 2005 and 2-year test yield averages were 41 and 34 bu per acre, respectively (Table 8a). Varieties had to average 41 bu or higher in 2005 and 32 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 38.5%, 16.5%, and 1, respectively (Table 8b). On average, lodging was not a significant factor in this trial in 2005.

South Shore, Group-I (Tables 8a & 8b): The 2005 and 2-year test yield averages were 43 and 35 bu per acre, respectively (Table 8a). Varieties had to average 47 bu or higher in 2005 and 34 bu or higher for 2 years to be in the top performance group for yield. Variety yield averages had to differ by 5 bu or more in 2005 to be significantly different. There was no difference in yield between the two varieties tested for 2 years. The 2005 protein, oil, and

lodging score test averages were 38.3%, 16.5%, and 1, respectively (Table 8b). Lodging was not a significant factor for the varieties in this trial in 2005.

Beresford, Group-I (Tables 9a & 9b): The 2005 and 2-year test yield averages were 45 and 53 bu per acre, respectively (Table 9a). Varieties had to average 45 bu or higher in 2005 and 51 bu or higher for 2 years to be in the top performance group for yield. Variety yield averages had to differ by 7 bu in 2005 and 9 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 36.3%, 18.3%, and 1, respectively (Table 9b). Although lodging was significant, it did not have a major impact on yield in this trial in 2005.

Beresford, Group-II (Tables 9a & 9b): The 2005 and 2-year test yield averages were 43 and 53 bu per acre, respectively (Table 9a). Varieties had to average 43 bu or higher in 2005 and 46 bu or higher for 2 years to be in the top performance group for yield group. Variety yield averages had to differ by 5 bu in 2005 to be significantly different. There was no difference in yield average between the varieties tested for 2 years. The 2005 protein, oil, and lodging score test averages were 34.0%, 18.6%, and 1, respectively (Table 9b). Although lodging was significant, it did not have a major impact on yield in this trial in 2005.

Table A. Nearest weather station accumulated precipitation values for 2005 and their departures from normal (DFN)

Source: USDA-SD-Crop-Weather report & SD Automatic Weather Data Network.

Station	05/DFN*	Accumulation from April 1 up to the date stated:					
		Apr. 3	May 1	June 26	July 31	Aug. 28	Sept. 25
Aberdeen	'05	0.00	0.38	7.28	11.28	14.10	14.99
Airport	DFN*	-0.18	-1.64	0.17	1.02	1.92	1.00
Watertown	'05	0.00	1.50	9.12	10.34	13.02	16.11
Airport	DFN	-0.18	-0.76	0.82	-1.45	1.25	-0.06
Huron	'05	0.00	0.67	9.08	10.50	13.02	19.55
Airport	DFN	-0.18	-1.50	1.20	-0.48	0.25	5.13
Brookings	'05	0.00	2.03	11.50	15.32	18.34	25.91
2NE	DFN	-0.18	-0.12	2.72	2.66	3.16	8.20
Centerville	'05	0.00	2.73	14.45	16.60	17.85	21.11
6 SE	DFN	-0.18	0.37	5.05	3.29	1.89	2.63
Armour	'05	0.00	2.69	14.30	17.17	17.90	23.23
Airport	DFN	-0.21	0.26	5.41	4.65	3.43	6.55

* DFN - how much a variable for year 2005 is greater or less (-) than the long-term average.

Table B. *Phytophthora* root rot strain resistance according to gene.

Gene	Strain Resistance
0	None
1a	1-2,10-11,13,15-18,24
1b	1,3-9,13-15,18,21-22
1c	1-3,6-11,13,15,17,21,23-24
1k	1-11,13-15,17-18,21-22,24
2	1-5,9-20
3	1-5,8-9,11,13-14,16,18,23,25
4	1-4,10,12-16,18-21,25
5	1-5,8-9,11-14,18,20,25
6	1-4,10,12,14-16,18-21,25
7	16,18,19
K6	1-22,24-25
C3	1-10,13-18,22-25
B3	1-9,13-16,18,21-23,25
MIX	Resistant & Susceptible Plants
NR	Not Reported

Table C. 2005 Roundup Ready soybean entries by brand/variety, maturity group, gene for *Phytophthora* root rot resistance, and performance table number(s).

Brand / Variety	Mat.	Gene Resistance	Table	Brand / Variety	Mat.	Gene Resistance	Table
	Grp.		No.(s)		Grp.		No.(s)
AGVENTURE/11T1RR	I	Not Reported	2,4	FARM ADVANTAGE/FA 7192	I	Not Reported	4
AGVENTURE/15T5RR	I	Not Reported	2,4	FARM ADVANTAGE/FA 7205	II	Rps1 (Rps1a)	5
AGVENTURE/17T6RR	I	Not Reported	4	FARM ADVANTAGE/FA 7264	II	Rps1k	7
AGVENTURE/EXPXD15B	I	Not Reported	2	FARM ADVANTAGE/FA7244N	II	Rps1c	7
ASGROW/AG1502	I	rps - None	2,4	GOLD COUNTRY/1619RR	I	Rps1k	4
ASGROW/AG1702	I	Rps1k	2,4,6	GOLD COUNTRY/2509RR	0	rps - None	1
ASGROW/AG1903	I	Rps1k	2,4,6	GOLD COUNTRY/2726RR	II	Rps1c	7
ASGROW/AG2107	II	Rps1k	5,7	GOLD COUNTRY/3512RR	I	Rps1c	2
ASGROW/AG2205	II	Rps1k	5,7	GOLD COUNTRY/3615RR	I	Rps1k	2
ASGROW/AG2403	II	Rps1k	5,7	GOLD COUNTRY/3618RR	I	rps - None	2,4,6
COYOTE/4523RR	II	Rps1k	5,7	GOLD COUNTRY/6221RR	II	Rps1k	5
COYOTE/4527RR	II	Rps1k	7	HEFTY/094R	0	rps - None	1
COYOTE/4719RR	I	Rps1k	4,6	HEFTY/095R	0	Rps1k	1
COYOTE/9524RR	II	Rps1k	7	HEFTY/125R	I	rps - None	2
COYOTE/EXP624	II	Rps1c	7	HEFTY/175R	I	Rps1 (Rps1a)	4
COYOTE/EXP922	II	rps - None	5,7	HEFTY/195R	I	rps - None	4
DAIRYLAND/DSR-050/RR	0	Not Reported	1	HEFTY/214R	II	Rps1k	5
DAIRYLAND/DSR-0701/RR	0	Rps1k	1,3	HEFTY/EXP 226R	II	Rps1 (Rps1a)	5
DAIRYLAND/DSR-1301/RR	I	Not Reported	2,4	HEFTY/EXP 266R	II	Rps1c	5
DAIRYLAND/DSR-1500/RR	I	Not Reported	2,4	INTEGRA/PSI 95090RR	0	Not Reported	1,3
DAIRYLAND/DSR-1900/RR	I	Rps1k	4	INTEGRA/PSI 95160RR	I	Not Reported	4
DAIRYLAND/DSR-199/RR	I	Rps1k	4	INTEGRA/PSI 95200RR	II	Not Reported	7
DAIRYLAND/DSR-2100/RR	II	Not Reported	7	INTEGRA/PSI 96090RR	0	Not Reported	1,3
DAIRYLAND/DSR-234/RR	II	Rps1k	7	INTEGRA/PSI 96100RR	I	Not Reported	4
DAIRYLAND/DSR-2500/RR	II	Rps1k	7	INTEGRA/PSI 96110RR	I	Not Reported	2,4
DAIRYLAND/DSR-2600/RR	II	Rps1k	7	INTEGRA/PSI 96210RR	II	Not Reported	7
DAIRYLAND/DST09002RRSTS	0	Rps1k	1	INTEGRA/PSI 96230RR	II	Not Reported	7
DAIRYLAND/DST14-001/RR	I	Not Reported	2,4	INTEGRA/PSI 96260RR	II	Not Reported	7
DAIRYLAND/DST14000RRSTS	I	Not Reported	2	INTEGRA/PSI 96280RR	II	Not Reported	7
DEKALB/DKB08-51	0	Rps1k	1,3	KALTENBERG/KB135RR	I	Rps1c	4
DEKALB/DKB10-52	I	Rps1k	2,4	KALTENBERG/KB155RR	I	Rps1k	4
DEKALB/DKB18-51	I	Rps1k	2,4	KALTENBERG/KB241RR	II	rps - None	7
DEKALB/DKB22-52	II		5,7	KALTENBERG/KB248RR	II	Rps1c	7
DEKALB/DKB25-51	II	Rps1k	7	KALTENBERG/KB256RR	II	Rps1k	7
DEKALB/DKB26-53	II	Rps1c	7	KALTENBERG/KB276RR	II	Rps1k	7
DYNA-GRO/3190RR	I	Not Reported	2,4	KRUGER/EXP080RR	0	Rps1k	1,3
DYNA-GRO/31N27	II	Rps1k	7	KRUGER/EXP102RR	I	Not Reported	2,4
DYNA-GRO/32C25	II	Not Reported	7	KRUGER/EXP150RR	I	Rps1k	4,6
DYNA-GRO/33M14	I	Not Reported	2,4	KRUGER/EXP180RR	I	Not Reported	4,6
DYNA-GRO/35D15	I	Rps1k	2,4	KRUGER/EXP225RR	II	Not Reported	5
DYNA-GRO/37A10	0	Rps1k	1,3	KRUGER/EXP237RR	II	Not Reported	5
DYNA-GRO/EXP SX05123	II	Rps1 (Rps1a)	7	KRUGER/EXP238RR	II	Not Reported	5
DYNA-GRO/EXP SX05317	1TR	Rps1k	2,4	KRUGER/EXP260RR	II	Rps1k	7
DYNA-GRO/EXP SX05514	I	Rps1k	2,4	KRUGER/EXP280RR	II	Rps1k	7
DYNA-GRO/EXP SX05611	I	Not Reported	2,4	KRUGER/K-056RR	0	Not Reported	1
DYNA-GRO/EXP SX05816	I	Not Reported	2,4	KRUGER/K-098RR	0	Not Reported	1,3
				KRUGER/K-100RR	I	Rps1k	2,4
FARM ADVANTAGE/FA 7063	0	Not Reported	1	KRUGER/K-122RR	I	Not Reported	2,4
FARM ADVANTAGE/FA 7103	I	Not Reported	2	KRUGER/K-149+RR	I	Rps1k	2,4,6
FARM ADVANTAGE/FA 7173	I	Rps1k	4	KRUGER/K-156RR	I	Rps1k	2,4,6

Note: Strain or race resistance by gene type is reported in table D.

Table C. 2005 Roundup Ready soybean entries by brand/variety, maturity group, gene for *Phytophthora* root rot resistance, and performance table number(s) (Continued).

Brand / Variety	Mat.	Gene Resistance	Table	Brand / Variety	Mat.	Gene Resistance	Table
	Grp.		No.(s)		Grp.		No.(s)
KRUGER/K-177RR	I	Not Reported	2,4,6	NORTHSTAR/NS 1509RR	I	Not Reported	6
KRUGER/K-192RR	I	Not Reported	2,4,6	NORTHSTAR/NS 1624RR	I	Rps1c	6
KRUGER/K-195+RR/SCN	I	Rps1k	4,6	NORTHSTAR/NS 1809RR	I	Not Reported	6
KRUGER/K-200RR	II	Rps1 (Rps1a)	5,7	NUTECH/NT-0886RR	0	rps - None	1
KRUGER/K-211+RR	II	Rps1k	5	NUTECH/NT-0889RR	0	rps - None	1
KRUGER/K-212RR	II	Rps1k	5,7	NUTECH/NT-0939RR	0	rps - None	1,3
KRUGER/K-223+RR	II	Rps1k	5,7	NUTECH/NT-0999+RR	0	rps - None	1,3
KRUGER/K-233+RR	II	Rps1k	5,7	NUTECH/NT-0999RR	0	Rps1k	1,3
KRUGER/K-255RR	II	Not Reported	7	NUTECH/NT-1212RR/SCN	0	rps - None	1,3
KRUGER/K-270RR	II	Rps1c	7	NUTECH/NT-1404RR	I	Rps1k	2,4
KRUGER/K-273RR	II	Rps1c	7	NUTECH/NT-1516RR	I	Rps1c	2,4
KRUGER/K-289+RR	II	Rps1k	7	NUTECH/NT-1555RR	I	Rps1k	2,4
LATHAM/497RR	II	Rps1k	7	NUTECH/NT-1909RR	I	rps - None	2,4,6
LATHAM/EXP-E1330R	I	rps - None	2	NUTECH/NT-1921RR	I	Rps1 (Rps1a)	2,4
LATHAM/EXP-E1635R	I	Rps1k	2	NUTECH/NT-2100RR	I	rps - None	2,4
LATHAM/EXP-E1756R	I	Rps1k	2	NUTECH/NT-2102RR	I	Not Reported	2,4
LATHAM/EXP-E1935R	I	Rps1k	4	NUTECH/NT-2202ARR	I	Rps1c	2,4
LATHAM/EXP-E1936R	I	rps - None	4	NUTECH/NT-2202RR	I	Rps1k	2,4
LATHAM/EXP-E2045R	II	Rps1k	5	NUTECH/NT-2324RR/SCN	II	Rps1c	5,7
LATHAM/EXP-E2450R	II	Rps1k	7	NUTECH/NT-2330RR	II	Rps1c	5,7
LATHAM/EXP-E2635R	II	Rps1c	7	NUTECH/NT-2333RR	II	Rps1 (Rps1a)	5
LATHAM/L2136R	II	rps - None	7	NUTECH/NT-2424RR/SCN	II	rps - None	5,7
LATHAM/L2336R	II	rps - None	7	NUTECH/NT-2440RR	II	Not Reported	5
LATHAM/L2900R	II	rps - None	7	NUTECH/NT-2626RR	II	rps - None	5,7
MUSTANG/M-055RR	0	rps - None	1	NUTECH/NT-2707RR	II	Rps1c	5,7
MUSTANG/M-066RR	0	Rps1 (Rps1a)	1	NUTECH/NT-2790RR	II	rps - None	7
MUSTANG/M-075RR	0	Rps1 (Rps1a)	1	NUTECH/NT-2890RR	II	Rps1k	7
MUSTANG/M-094RR	0	rps - None	1,3	NUTECH/NT-2990RR	II	Rps1k	7
MUSTANG/M-095RR	0	rps - None	1,3	NUTECH/NT-2992RR	II	rps - None	7
MUSTANG/M-096RR	0	rps - None	1,3	NUTECH/NT-7205+RR	I	Rps1k	2,4
MUSTANG/M-115RR	I	Rps1c	4	PRAIRIE BR./PB-0725RR	0	Not Reported	1
MUSTANG/M-136RR	I	Rps1k	4	PRAIRIE BR./PB-0923RR	0	Rps1k	1,3
MUSTANG/M-155RR	I	Rps1k	4	PRAIRIE BR./PB-0954RR	0	Not Reported	1,3
MUSTANG/M-156RR	I	Rps1k	4	PRAIRIE BR./PB-0965RR	0	Not Reported	1,1
MUSTANG/M-176RR	I	Rps1 (Rps1a)	4	PRAIRIE BR./PB-1294RR	I	Rps1c	2,4
MUSTANG/M-201RR	II	Rps1k	5,7	PRAIRIE BR./PB-1525RR	I	Rps1k	2,4
MUSTANG/M-203RR	II	rps - None	5,7	PRAIRIE BR./PB-1725RR	I	Rps1k	2,4
MUSTANG/M-205RR	II	Rps1 (Rps1a)	5,7	PRAIRIE BR./PB-1754RR	I	Not Reported	2,4
MUSTANG/M-226RR	II	Rps1 (Rps1a)	5,7	PRAIRIE BR./PB-1914RR	I	Not Reported	2,4,6
MUSTANG/M-264RR	II	Rps1k	7	PRAIRIE BR./PB-1954RR	I	Rps1 (Rps1a)	2,4,6
MUSTANG/M-284RR	II	rps - None	7	PRAIRIE BR./PB-2141RR	II	Rps1k	5,7
MUSTANG/M-286NRR	II	Rps1c	7	PRAIRIE BR./PB-2183NRR	II	Rps1k	7
NORTHSTAR/NS 0517RR	0	Not Reported	1	PRAIRIE BR./PB-2205RR	II	Not Reported	5,7
NORTHSTAR/NS 0910RR	0	Not Reported	1	PRAIRIE BR./PB-2243RR	II	Rps1k	5,7
NORTHSTAR/NS 0920RR	0	Not Reported	1	PRAIRIE BR./PB-2343RR	II	Not Reported	7
NORTHSTAR/NS 0954RR	0	Not Reported	1,3	PRAIRIE BR./PB-2345RR	II	Not Reported	5,7
NORTHSTAR/NS 1010RR	I	Not Reported	2	PRAIRIE BR./PB-2385NRR	II	Not Reported	7
NORTHSTAR/NS 1120RR	I	Rps1k	2,4	PRAIRIE BR./PB-2421RR	II	Rps1k	5,7
NORTHSTAR/NS 1310RR	I	Not Reported	4	PRAIRIE BR./PB-2565RR	II	Rps1c	7
NORTHSTAR/NS 1409RR	I	Rps1k	4	PRAIRIE BR./PB-2625RR	II	Not Reported	7

Note: Strain or race resistance by gene type is reported in table B.

Table C. 2005 Roundup Ready soybean entries by brand/variety, maturity group, gene for *Phytophthora* root rot resistance, and performance table number(s) (Continued).

Brand / Variety	Mat.	Gene Resistance	Table	Brand / Variety	Mat.	Gene Resistance	Table
	Grp.		No.(s)		Grp.		No.(s)
PRAIRIE BR./PB-2643RR	II	Rps1k	7	THUNDER/2608NRR	0	Rps1k	1
RENK/RS095RR	0	Rps1k	1	THUNDER/708RR	0	Rps1k	1
RENK/RS115RR	I	Rps1k	2	THUNDER/EXP709RR	0	Rps1k	1
RENK/RS124NRR	I	Rps1c	2,4	WENSMAN/W 2062RR	0	Not Reported	1
RENK/RS159RR	I	Rps1c	2,4	WENSMAN/W 2082RR	0	Rps1k	1
RENK/RS165RR	I	Rps1k	2,4	WENSMAN/W 2090RR	0	Not Reported	1
RENK/RS185RR	I	Not Reported	4	WENSMAN/W 2103RR	0	Rps1k	1
RENK/RS199RR	I	Rps1k	4	WENSMAN/W 2121RR	I	Rps1c	2
RENK/RS223RR	II	Rps1k	5	WENSMAN/W 2142RR	I	Rps1k	2,4
RENK/RS253RR	II	Not Reported	7	WENSMAN/W 2150RR	I	Rps1k	2,4
RENK/RS265RR	II	Rps1c	7	WENSMAN/W 2163RR	I	Rps1 (Rps1a)	4
SANDS/EXP 2669RR	II	Rps1c	7	WENSMAN/W 2170RR	I	Rps1k	4
SANDS/SOI 2143RR	II	Rps1k	7	WENSMAN/W 2195NRR	I	Rps1k	4
SANDS/SOI 2151NRR	II	Rps1k	7	WENSMAN/W 2211RR	II	Rps1k	5
SANDS/SOI 2169RR	II	Rps1 (Rps1a)	7	WENSMAN/W 2253RR	II	Rps1c	5
SANDS/SOI 2448RR	II	Rps1k	7	ZILLER/BT 7115R	I	rps - None	2
SANDS/SOI 2467NRR	II	Rps1c	7	ZILLER/BT 7145R	I	Rps1 (Rps1a)	2,4
SANDS/SOI 2673RR	II	Rps1c	7	ZILLER/BT 7160R	I	Rps1k	2,4
SANDS/SOI 2754RR	II	Rps1k	7	ZILLER/BT 7215R	II	Rps1k	5,7
SANDS/SOI 2872RR	II	Rps1c	7	ZILLER/BT 7236R	II	Rps1k	7
SANDS/SOI 2884RR	II	Rps1k	7				
SEEDS 2000/2090RR	0	Not Reported	1	PUBLIC EXPERIMENTALS:			
SEEDS 2000/2130RR	I	Rps1k	2	EXP/SD01-1135R	II	Rps1c	7
SODAK GEN./1091RR	0	Rps1 (Rps1a)	1,3	EXP/SD01-1587R	I	Not Reported	4,6
SODAK GEN./1092RR	0	Rps1k	1,3	EXP/SD01-2509R	II	Rps1c	5
SODAK GEN./1151RR	I	Rps1k	2,4,6	EXP/SD01-3025R	II	Not Reported	7
STINE/0708-4	0	rps - None	1	EXP/SD01-3219R	I	Rps1k	2,4,6
STINE/0916-4	0	rps - None	1	EXP/SD01-3382R	I	Not Reported	2
STINE/0943-4	0	Rps1k	1,3	EXP/SD01-3387R	II	Not Reported	7
STINE/1300-4	I	Rps1k	2,4	EXP/SD01-3402R	I	Not Reported	2
STINE/1636-4	I	Rps1k	4	EXP/SD01-3477R	I	Rps1 (Rps1a)	4
STINE/1683-4	I	Rps1k	2,4	EXP/SD02R-1017	I	Not Reported	2
STINE/1918-4	I	rps - None	2,4,6	EXP/SD1091RR-4	I	Rps1k	2,4,6
STINE/2116-4	II	Rps1k	7	EXP/SD93-828R	I	Rps1k, Rps6	2,4,6
STINE/2402-4	II	rps - None	7	EXP/SD96-170RR-28L	I	Rps1 (Rps1a)	2,4,6
STINE/2688-4	II	rps - None	7	EXP/SDX00-011R-14	I	Not Reported	2
STINE/2743-4	II	Rps1k	7	EXP/SDX00R-017-52	I	Rps1k	2
THOMPSON/T-0889+RR	0	rps - None	1	EXP/SDX00R-020-41	I	Not Reported	2
THOMPSON/T-1777RR	I	Rps1k	2,4	EXP/SDX00R-026-42N	I	Rps1 (Rps1a)	2,4,6
THOMPSON/T-2100RR	II	rps - None	7	EXP/SDX00R-030-13	I	Not Reported	2
THOMPSON/T-2919RR/SCN	II	rps - None	7	EXP/SDX00R-035-24	0	Not Reported	3
THOMPSON/T-3100RR	II	Rps1k	7	EXP/SDX00R-035-39	I	Rps1 (Rps1a)	2,4,6
THOMPSON/T-3101RR	II	Rps1c	7	EXP/SDX00R-035-56	II	Rps1 (Rps1a)	7
THOMPSON/T-7193RR/SCN	I	Rps1k	2,4	EXP/SDX00R-039-42	II	Rps1k	5,7
THOMPSON/T-7205+RR	I	Rps1k	6	EXP/SDX00R-046-28	II	Not Reported	7
THOMPSON/T-7206RR	II	Rps1k	7	EXP/SDX02R-584	II	Not Reported	7
THOMPSON/T-7214RR	I	rps - None	4,6	EXP/SD00-1251R	0	Rps1k	1,3
THOMPSON/T-7234RR	I	Rps1k	2,4				
THUNDER/2512RR	I	Not Reported	2				
THUNDER/2513NRR	I	Not Reported	2				

Note: Strain or race resistance by gene type is reported in table B.

Table 1a. Roundup Ready™ maturity group-O soybean variety yield averages- northern South Dakota locations, 2004-05.

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
WENSMAN/W 2103RR	112	53	48	53	51	53	50
KRUGER/K-098RR	112	50	46	55	52	53	49
MUSTANG/M-075RR	111	54	47	52	49	53	48
MUSTANG/M-095RR	113	51	47	50	49	51	48
DYNA-GRO/37A10	112	48	44	53	52	51	48
NORTHSTAR/NS 0954RR	112	47	46	52	49	50	48
MUSTANG/M-094RR	112	53	49	45	46	49	48
GOLD COUNTRY/2509RR	112	48	45	50	50	49	48
NUTECH/NT-0999RR	112	45	45	50	51	48	48
NUTECH/NT-0889RR	112	48	45	52	49	50	47
SEEDS 2000/2090RR	112	50	45	49	49	50	47
PRAIRIE BR./PB-0923RR	112	47	43	51	51	49	47
THOMPSON/T-0889+RR	112	47	45	51	49	49	47
PRAIRIE BR./PB-0954RR	112	46	45	47	49	47	47
WENSMAN/W 2090RR	112	49	42	51	50	50	46
MUSTANG/M-055RR	111	46	42	52	48	49	45
WENSMAN/W 2062RR	109	49	43	49	47	49	45
NORTHSTAR/NS 0517RR	108	47	43	48	46	48	45
SODAK GEN./1092RR	112	45	41	48	47	47	44
SODAK GEN./1091RR	112	43	41	45	45	44	43
PRAIRIE BR./PB-0725RR	109	54	.	54	.	54	.
NUTECH/NT-0886RR	112	53	.	51	.	52	.
INTEGRA/PSI 96090RR	113	51	.	53	.	52	.
FARM ADVANTAGE/FA 7063	108	51	.	51	.	51	.
HEFTY/095R	112	51	.	51	.	51	.
INTEGRA/PSI 95090RR	113	50	.	52	.	51	.
NUTECH/NT-0939RR	113	49	.	50	.	50	.
NUTECH/NT-0999+RR	112	50	.	49	.	50	.
HEFTY/094R	112	49	.	51	.	50	.
KRUGER/EXP080RR	112	50	.	50	.	50	.
DAIRYLAND/DSR-0701/RR	110	49	.	50	.	50	.
STINE/0943-4	112	48	.	52	.	50	.
MUSTANG/M-066RR	109	49	.	49	.	49	.
MUSTANG/M-096RR	111	49	.	49	.	49	.
NUTECH/NT-1212RR/SCN	114	46	.	52	.	49	.
KRUGER/K-056RR	110	47	.	50	.	49	.
PRAIRIE BR./PB-0965RR	113	48	.	50	.	49	.
NORTHSTAR/NS 0910RR	112	48	.	49	.	49	.
NORTHSTAR/NS 0920RR	112	49	.	47	.	48	.
EXPERIMENTAL/SD00-1251R	113	46	41	49	.	48	.
DEKALB/DKB08-51	109	45	.	48	.	47	.
DAIRYLAND/DSR-050/RR	112	47	.	47	47	47	.
DAIRYLAND/DST09002RRSTS	112	46	.	46	.	46	.
WENSMAN/W 2082RR	112	46	.	43	.	45	.
THUNDER/2608NRR	106	.	.	48	.	.	.

Table 1a. Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2004-05 (continued).

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	----- Northern Locations ----- 2004-05 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
THUNDER/708RR	109	.	.	50	.	.	.
THUNDER/EXP709RR	109	.	.	55	.	.	.
STINE/0708-4	116	52	.	.	.	.	.
STINE/0916-4	108	.	.	50	.	.	.
RENK/RS095RR	114	51	.	.	.	.	.
Test avg. :	111	49	44	50	49	49	47
High avg. :	116	54	49	55	52	54	50
Low avg. :	106	43	41	43	45	44	43
# Lsd (.05):		4	5	5	5	3	2
## TPG-avg. :		50	44	50	47	51	48
@ Coef. Var.:		4	7	6	6	5	6
No. Entries:		46	21	48	21		

* DTM = average days from seeding (South Shore- May 20, Warner- June 1, 2005) to maturity.

Lsd, (.05) = amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = 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, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
EXPERIMENTAL/SD00-1251R	113	39.0	16.7	1	36.3	18.1	1	37.7	17.4	1
SODAK GEN./1091RR	112	38.3	17.1	1	36.0	18.4	1	37.2	17.8	1
NORTHSTAR/NS 0954RR	112	38.1	16.6	1	36.0	18.2	1	37.1	17.4	1
INTEGRA/PSI 95090RR	113	38.4	16.8	1	35.6	18.0	1	37.0	17.4	1
NUTECH/NT-0886RR	112	38.1	17.3	1	35.2	18.5	1	36.7	17.9	1
SEEDS 2000/2090RR	112	38.5	16.3	1	34.8	18.2	1	36.7	17.3	1
KRUGER/K-098RR	112	37.9	17.0	1	35.2	18.2	1	36.6	17.6	1
NORTHSTAR/NS 0920RR	112	38.7	16.1	1	34.3	18.3	1	36.5	17.2	1
INTEGRA/PSI 96090RR	113	37.9	17.3	2	34.9	18.4	1	36.4	17.9	2
PRAIRIE BR./PB-0923RR	112	38.0	17.1	1	34.8	18.7	1	36.4	17.9	1
DYNA-GRO/37A10	112	37.9	16.6	1	34.9	18.5	1	36.4	17.6	1
SODAK GEN./1092RR	112	38.1	17.4	1	34.6	18.8	1	36.4	18.1	1
STINE/0943-4	112	37.9	16.4	1	34.8	18.6	1	36.4	17.5	1
WENSMAN/W 2062RR	109	37.4	17.3	1	35.3	18.6	1	36.4	18.0	1
NUTECH/NT-0999RR	112	38.2	16.9	1	34.4	18.8	1	36.3	17.9	1
WENSMAN/W 2090RR	112	37.3	17.2	1	35.3	18.1	1	36.3	17.7	1
NORTHSTAR/NS 0910RR	112	37.6	16.8	1	35.0	18.3	1	36.3	17.6	1
GOLD COUNTRY/2509RR	112	37.8	17.1	1	34.7	18.6	1	36.3	17.9	1
WENSMAN/W 2103RR	112	37.4	17.4	1	35.1	18.5	1	36.3	18.0	1
WENSMAN/W 2082RR	112	37.2	17.3	1	35.3	18.4	1	36.3	17.9	1
NORTHSTAR/NS 0517RR	108	37.1	17.6	1	35.1	18.7	1	36.1	18.2	1
THOMPSON/T-0889+RR	112	37.2	16.9	1	34.9	18.3	1	36.1	17.6	1
NUTECH/NT-0889RR	112	37.1	17.2	1	34.9	18.4	1	36.0	17.8	1
HEFTY/094R	112	37.5	17.1	1	34.5	18.5	1	36.0	17.8	1
KRUGER/EXP080RR	112	37.5	17.0	1	34.5	18.3	1	36.0	17.7	1
PRAIRIE BR./PB-0954RR	112	37.4	17.0	1	34.6	18.5	1	36.0	17.8	1
MUSTANG/M-095RR	113	37.2	17.3	1	34.7	18.4	1	36.0	17.9	1
PRAIRIE BR./PB-0965RR	113	37.2	17.0	1	34.6	18.6	1	35.9	17.8	1
MUSTANG/M-094RR	112	38.0	16.6	1	33.8	18.7	1	35.9	17.7	1
MUSTANG/M-055RR	111	37.2	17.0	1	34.3	18.6	1	35.8	17.8	1
MUSTANG/M-075RR	111	37.2	17.3	1	34.3	18.7	1	35.8	18.0	1
MUSTANG/M-096RR	111	37.3	17.4	1	34.0	18.8	1	35.7	18.1	1
NUTECH/NT-0939RR	113	36.5	17.2	1	34.7	18.4	1	35.6	17.8	1
DAIRYLAND/DSR-050/RR	112	37.3	17.1	1	33.9	18.8	1	35.6	18.0	1
NUTECH/NT-0999+RR	112	36.8	17.6	2	34.0	19.1	1	35.4	18.4	1
HEFTY/095R	112	36.1	16.9	1	34.4	17.6	1	35.3	17.3	1
DAIRYLAND/DSR-0701/RR	110	36.2	17.5	1	34.2	18.6	1	35.2	18.1	1
DEKALB/DKB08-51	109	36.0	17.8	1	33.6	18.3	1	34.8	18.1	1
DAIRYLAND/DST09002RRSTS	112	35.8	18.0	2	33.8	19.1	1	34.8	18.6	2
KRUGER/K-056RR	110	35.5	18.2	1	33.0	19.3	1	34.3	18.8	1
PRAIRIE BR./PB-0725RR	109	35.6	17.5	1	32.7	18.2	1	34.2	17.9	1
MUSTANG/M-066RR	109	35.3	18.3	1	32.7	19.4	1	34.0	18.9	1
FARM ADVANTAGE/FA 7063	108	35.8	17.1	1	32.1	18.2	1	34.0	17.7	1
NUTECH/NT-1212RR/SCN	114	35.2	17.5	2	32.2	18.7	1	33.7	18.1	1
THUNDER/2608NRR	106	.	.	.	34.4	18.4	1	.	.	.

Table 1b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THUNDER/708RR	109	.	.	.	34.2	18.4	1	.	.	.
THUNDER/EXP709RR	109	.	.	.	34.9	18.4	1	.	.	.
STINE/0708-4	116	36.9	17.7	1	.	.	.	.	.	.
STINE/0916-4	108	.	.	.	34.3	18.7	1	.	.	.
RENK/RS095RR	114	36.0	16.9	1	.	.	.	.	.	.
Test avg. :	111	37.2	17.2	1	34.5	18.5	1	35.9	17.8	1
High avg. :	116	39.0	18.3	2	36.3	19.4	1	37.7	18.9	2
Low avg. :	106	35.2	16.1	1	32.1	17.6	1	33.7	17.2	1
# Lsd(.05) :				1			NS			
## TPG -avg. :				1			1			
@ Coef. Var. :				25			0			
No. Entries :		46	46	46	48	48	48			

* DTM = average days from seeding (South Shore- May 20, Warner- June 1, 2005) 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 are not significant(NS), NS is indicated.

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

Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2004-05.

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
NUTECH/NT-1909RR	118	49	48	56	52	53	50
PRAIRIE BR./PB-1914RR	119	49	47	56	53	53	50
NUTECH/NT-2202RR	119	50	47	53	53	52	50
KRUGER/K-192RR	119	49	47	54	53	52	50
STINE/1300-4	115	48	47	55	53	52	50
THOMPSON/T-7234RR	120	50	47	52	52	51	50
WENSMAN/W 2121RR	114	49	45	56	52	53	49
ASGROW/AG1903	119	48	47	53	51	51	49
PRAIRIE BR./PB-1954RR	118	48	46	50	51	49	49
SEEDS 2000/2130RR	116	47	44	54	51	51	48
PRAIRIE BR./PB-1294RR	114	46	44	54	51	50	48
PRAIRIE BR./PB-1754RR	117	48	46	47	50	48	48
THOMPSON/T-7193RR/SCN	117	47	43	52	51	50	47
GOLD COUNTRY/3512RR	114	47	43	50	49	49	46
DAIRYLAND/DSR-1301/RR	115	44	41	53	50	49	46
KRUGER/K-149+RR	115	47	44	48	47	48	46
SODAK GEN./1151RR	114	43	42	49	47	46	45
NUTECH/NT-1404RR	113	52	.	55	.	54	.
NUTECH/NT-1516RR	115	50	.	56	.	53	.
NUTECH/NT-7205+RR	119	50	.	55	.	53	.
WENSMAN/W 2142RR	115	50	.	55	.	53	.
ASGROW/AG1502	113	51	.	52	.	52	.
ASGROW/AG1702	117	51	.	53	.	52	.
AGVENTURE/11T1RR	114	51	.	53	.	52	.
DEKALB/DKB10-52	111	52	.	52	.	52	.
INTEGRA/PSI 96110RR	114	50	.	54	.	52	.
KRUGER/K-100RR	113	51	.	52	.	52	.
KRUGER/EXP102RR	113	50	.	54	.	52	.
GOLD COUNTRY/3615RR	114	48	.	55	.	52	.
PRAIRIE BR./PB-1525RR	113	49	.	54	.	52	.
GOLD COUNTRY/3618RR	117	45	.	57	.	51	.
DAIRYLAND/DST14000RRSTS	115	49	.	53	.	51	.
DYNA-GRO/EXP SX05514	115	48	.	53	.	51	.
KRUGER/K-122RR	112	47	.	52	.	50	.
LATHAM/EXP-E1330R	114	47	44	53	.	50	.
LATHAM/EXP-E1756R	116	46	.	54	.	50	.
DYNA-GRO/EXP SX05611	112	48	.	52	.	50	.
EXPERIMENTAL/SDX00R-035-39	113	47	.	53	.	50	.
EXPERIMENTAL/SD1091RR-4	113	47	.	52	.	50	.
FARM ADVANTAGE/FA 7103	114	45	.	52	.	49	.
DEKALB/DKB18-51	117	47	.	51	.	49	.
NUTECH/NT-1555RR	114	48	.	49	.	49	.
NUTECH/NT-2100RR	120	44	.	53	.	49	.
DYNA-GRO/33M14	115	47	.	50	.	49	.
THOMPSON/T-1777RR	116	43	.	55	.	49	.
EXPERIMENTAL/SDX00R-026-42N	116	46	.	51	.	49	.
THUNDER/2512RR	110	47	.	49	.	48	.
NUTECH/NT-1921RR	117	48	.	48	.	48	.
HEFTY/125R	111	46	.	49	.	48	.

Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2004-05 (continued).

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
STINE/1683-4	117	46	.	50	.	48	.
DYNA-GRO/35D15	115	45	.	51	.	48	.
NORTHSTAR/NS 1010RR	113	49	.	46	.	48	.
EXPERIMENTAL/SD01-3402R	111	47	.	48	44	48	.
EXPERIMENTAL/SDX00R-017-52	116	45	.	50	.	48	.
EXPERIMENTAL/SD93-828R	113	45	.	51	.	48	.
EXPERIMENTAL/SDX00-011R-14	113	45	.	48	.	47	.
KRUGER/K-156RR	113	47	.	47	.	47	.
DAIRYLAND/DSR-1500/RR	116	43	.	51	.	47	.
DAIRYLAND/DST14-001/RR	115	45	.	48	.	47	.
DYNA-GRO/EXP SX05317	116	42	.	52	.	47	.
NORTHSTAR/NS 1120RR	114	46	.	48	.	47	.
EXPERIMENTAL/SDX00R-030-13	112	46	.	48	.	47	.
NUTECH/NT-2102RR	120	43	.	49	.	46	.
KRUGER/K-177RR	121	44	.	48	.	46	.
LATHAM/EXP-E1635R	115	45	.	47	.	46	.
PRAIRIE BR./PB-1725RR	116	45	.	46	.	46	.
EXPERIMENTAL/SD01-3219R	116	43	.	49	45	46	.
EXPERIMENTAL/SD96-170RR-28L	113	43	.	49	49	46	.
THUNDER/2513NRR	112	44	.	45	.	45	.
DYNA-GRO/EXP SX05816	117	43	.	46	.	45	.
DYNA-GRO/3190RR	121	42	.	48	.	45	.
AGVENTURE/EXPXD15B	117	45	.	42	.	44	.
NUTECH/NT-2202ARR	123	40	.	47	.	44	.
EXPERIMENTAL/SDX00R-020-41	114	42	.	45	.	44	.
EXPERIMENTAL/SD01-3382R	115	42	.	44	.	43	.
EXPERIMENTAL/SD02R-1017	113	42	.	42	.	42	.
AGVENTURE/15T5RR	118	45	.	.	.	.	.
STINE/1918-4	125	51	48	.	.	.	.
ZILLER/BT 7145R	119	48	44	.	.	.	.
ZILLER/BT 7115R	116	45	.	.	.	.	.
ZILLER/BT 7160R	119	46	.	.	.	.	.
WENSMAN/W 2150RR	120	47	.	.	.	.	.
RENK/RS159RR	119	46	.	.	.	.	.
RENK/RS124NRR	119	46	.	.	.	.	.
RENK/RS165RR	120	49	.	.	.	.	.
RENK/RS115RR	118	48	.	.	.	.	.
Test avg. :	116	47	45	51	50	49	48
High avg. :	125	52	48	57	53	54	50
Low avg. :	110	40	41	42	44	42	45
# Lsd (.05) :		4	3	5	5	3	3
## TPG-avg. :		48	45	52	49	51	47
@ Coef. Var. :		6	7	7	6	6	8
No. Entries :		86	20	76	20		

* DTM= days from seeding (South Shore- May 20, Warner- June 1, 2005) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = 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, 2005.

Brand/Variety (By zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
EXPERIMENTAL/SD01-3382R	115	40.6	15.7	2	38.0	16.6	1	39.3	16.2	2
NUTECH/NT-2102RR	120	39.3	16.1	2	36.6	17.7	1	38.0	16.9	2
EXPERIMENTAL/SDX00-011R-14	113	39.1	16.3	1	36.3	18.1	1	37.7	17.2	1
NUTECH/NT-1516RR	115	39.3	16.3	1	36.0	17.6	1	37.7	17.0	1
PRAIRIE BR./PB-1754RR	117	38.9	16.2	1	35.6	17.7	1	37.3	17.0	1
EXPERIMENTAL/SDX00R-020-41	114	38.5	16.7	1	36.0	17.8	1	37.3	17.3	1
EXPERIMENTAL/SDX00R-030-13	112	38.4	16.7	2	35.5	18.3	1	37.0	17.5	1
EXPERIMENTAL/SD1091RR-4	113	38.6	16.9	1	35.1	18.5	1	36.9	17.7	1
DAIRYLAND/DST14000RRSTS	115	38.3	17.2	1	35.4	18.7	1	36.9	18.0	1
NUTECH/NT-2100RR	120	38.0	17.0	2	35.4	18.4	1	36.7	17.7	2
DYNA-GRO/EXP SX05816	117	38.9	16.5	2	34.5	18.9	1	36.7	17.7	2
DAIRYLAND/DSR-1301/RR	115	38.1	16.7	1	35.2	18.0	1	36.7	17.4	1
DAIRYLAND/DSR-1500/RR	116	37.7	16.8	1	35.6	17.8	1	36.7	17.3	1
EXPERIMENTAL/SD01-3402R	111	38.5	17.1	2	34.6	18.7	1	36.6	17.9	1
KRUGER/K-149+RR	115	38.1	16.4	2	34.8	17.9	1	36.5	17.2	2
HEFTY/125R	111	37.6	16.7	1	35.2	18.1	1	36.4	17.4	1
LATHAM/EXP-E1635R	115	38.2	16.4	1	34.5	18.2	1	36.4	17.3	1
DYNA-GRO/35D15	115	38.0	16.5	1	34.4	18.1	1	36.2	17.3	1
THUNDER/2512RR	110	37.3	16.8	1	34.9	17.9	1	36.1	17.4	1
NUTECH/NT-2202RR	119	36.7	17.5	2	35.3	18.8	1	36.0	18.2	1
NORTHSTAR/NS 1010RR	113	38.3	17.2	1	33.7	19.0	1	36.0	18.1	1
THOMPSON/T-7234RR	120	36.9	17.4	2	35.0	18.2	1	36.0	17.8	1
KRUGER/K-156RR	113	37.2	16.8	1	34.6	18.2	1	35.9	17.5	1
DYNA-GRO/EXP SX05514	115	37.7	16.8	1	34.1	18.3	1	35.9	17.6	1
SODAK GEN./1151RR	114	37.0	17.1	2	34.8	18.2	2	35.9	17.7	2
PRAIRIE BR./PB-1914RR	119	36.7	17.4	1	35.0	19.5	1	35.9	18.5	1
NUTECH/NT-1909RR	118	36.2	17.6	1	35.1	19.1	1	35.7	18.4	1
NUTECH/NT-1404RR	113	37.2	17.0	1	34.1	18.2	1	35.7	17.6	1
DYNA-GRO/3190RR	121	36.9	16.9	1	34.4	19.1	1	35.7	18.0	1
EXPERIMENTAL/SD02R-1017	113	36.8	17.8	1	34.5	18.8	1	35.7	18.3	1
KRUGER/EXP102RR	113	37.1	17.2	1	34.0	18.8	1	35.6	18.0	1
NUTECH/NT-2202ARR	123	35.9	18.3	2	35.1	19.4	1	35.5	18.9	2
DAIRYLAND/DST14-001/RR	115	36.5	17.0	2	34.5	17.9	1	35.5	17.5	1
THOMPSON/T-1777RR	116	36.7	16.9	1	34.3	18.2	1	35.5	17.6	1
DYNA-GRO/EXP SX05611	112	37.0	17.1	1	33.8	18.6	1	35.4	17.9	1
ASGROW/AG1702	117	36.6	17.4	2	34.0	18.4	1	35.3	17.9	1
NUTECH/NT-7205+RR	119	36.5	17.3	1	34.1	18.9	1	35.3	18.1	1
KRUGER/K-100RR	113	36.9	17.7	1	33.7	19.0	1	35.3	18.4	1
EXPERIMENTAL/SDX00R-026-42N	116	36.7	16.7	2	33.8	18.2	1	35.3	17.5	1
AGVENTURE/11T1RR	114	37.0	17.2	1	33.4	19.1	1	35.2	18.2	1
KRUGER/K-192RR	119	36.4	17.7	1	34.0	19.2	1	35.2	18.5	1
GOLD COUNTRY/3618RR	117	37.0	16.7	2	33.4	18.5	1	35.2	17.6	2
EXPERIMENTAL/SD93-828R	113	37.0	17.0	1	33.4	18.7	1	35.2	17.9	1
DEKALB/DKB10-52	111	35.7	16.7	1	34.6	17.2	1	35.2	17.0	1
INTEGRA/PSI 96110RR	114	36.9	17.8	1	33.4	19.1	1	35.2	18.5	1
KRUGER/K-122RR	112	36.5	17.4	1	33.8	18.5	1	35.2	18.0	1
LATHAM/EXP-E1756R	116	36.7	17.0	2	33.4	18.5	1	35.1	17.8	1
DYNA-GRO/33M14	115	36.4	17.5	1	33.7	18.4	1	35.1	18.0	1
ASGROW/AG1903	119	36.5	16.9	1	33.5	18.6	1	35.0	17.8	1

Table 2b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2005 (continued).

Brand/Variety (By zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
KRUGER/K-177RR	121	37.1	17.2	2	32.9	19.2	1	35.0	18.2	1
NUTECH/NT-1921RR	117	36.5	17.4	2	33.4	18.8	1	35.0	18.1	1
STINE/1300-4	115	37.0	17.4	1	32.9	19.1	1	35.0	18.3	1
DYNA-GRO/EXP SX05317	116	36.2	17.1	1	33.7	18.5	1	35.0	17.8	1
EXPERIMENTAL/SD96-170RR-28L	113	36.9	17.0	1	32.8	19.0	1	34.8	18.0	1
GOLD COUNTRY/3615RR	114	36.5	17.7	1	33.1	19.1	1	34.8	18.4	1
PRAIRIE BR./PB-1525RR	113	36.2	17.6	1	33.4	19.0	1	34.8	18.3	1
WENSMAN/W 2142RR	115	36.1	17.6	1	33.5	18.8	1	34.8	18.2	1
AGVENTURE/EXPXD15B	117	36.2	17.8	1	33.3	19.2	1	34.8	18.5	1
STINE/1683-4	117	36.0	17.4	1	33.5	18.5	1	34.8	18.0	1
EXPERIMENTAL/SD01-3219R	116	36.1	17.1	2	33.4	18.5	1	34.8	17.8	1
DEKALB/DKB18-51	117	35.9	17.3	1	33.5	18.3	1	34.7	17.8	1
PRAIRIE BR./PB-1725RR	116	36.2	17.3	1	33.2	18.6	1	34.7	18.0	1
ASGROW/AG1502	113	36.4	17.7	1	32.8	19.4	1	34.6	18.6	1
PRAIRIE BR./PB-1954RR	118	35.6	17.8	1	33.5	18.6	1	34.6	18.2	1
SEEDS 2000/2130RR	116	36.7	17.0	1	32.4	19.0	1	34.6	18.0	1
THUNDER/2513NRR	112	35.7	17.8	1	33.2	18.9	1	34.5	18.4	1
NORTHSTAR/NS 1120RR	114	36.4	17.7	1	32.5	19.2	1	34.5	18.5	1
EXPERIMENTAL/SDX00R-017-52	116	36.5	18.2	2	32.4	19.4	1	34.5	18.8	2
NUTECH/NT-1555RR	114	36.3	17.9	1	32.5	19.3	1	34.4	18.6	1
THOMPSON/T-7193RR/SCN	117	36.0	18.1	1	32.7	19.9	1	34.4	19.0	1
EXPERIMENTAL/SDX00R-035-39	113	34.5	18.5	1	32.9	19.1	1	33.7	18.8	1
LATHAM/EXP-E1330R	114	35.1	17.3	2	32.0	18.7	1	33.6	18.0	1
WENSMAN/W 2121RR	114	34.4	17.5	1	32.3	18.6	1	33.3	18.1	1
GOLD COUNTRY/3512RR	114	34.7	17.6	1	31.9	18.6	1	33.3	18.1	1
PRAIRIE BR./PB-1294RR	114	34.2	17.5	1	32.2	18.6	1	33.2	18.1	1
FARM ADVANTAGE/FA 7103	114	34.3	17.4	1	31.7	18.8	1	33.0	18.1	1
AGVENTURE/15T5RR	118	37.9	16.7	2	.	.	.	.	.	.
STINE/1918-4	125	36.9	17.7	1	.	.	.	.	.	.
ZILLER/BT 7145R	119	36.9	17.5	1	.	.	.	.	.	.
ZILLER/BT 7115R	116	35.1	17.4	1	.	.	.	.	.	.
ZILLER/BT 7160R	119	36.7	17.1	1	.	.	.	.	.	.
WENSMAN/W 2150RR	120	37.0	17.3	1	.	.	.	.	.	.
RENK/RS159RR	119	34.9	17.4	1	.	.	.	.	.	.
RENK/RS124NRR	119	35.2	17.5	2	.	.	.	.	.	.
RENK/RS165RR	120	37.9	17.0	1	.	.	.	.	.	.
RENK/RS115RR	118	36.5	18.2	1	.	.	.	.	.	.
Test avg. :	116	36.9	17.2	1	34.0	18.6	1	35.5	17.9	1
High avg. :	125	40.6	18.5	2	38.0	19.9	2	39.3	19.0	2
Low avg. :	110	34.2	15.7	1	31.7	16.6	1	33.0	16.2	1
# Lsd(.05) :				1			1			
## TPG-avg. :				1			1			
@ Coef.Var. :				32			11			
No. Entries :		86	86	86	76	76	76			

* DTM= days from seeding (South Shore- May 20, Warner- June 1, 2005) 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 are not significant (NS), NS is indicated.

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

Table 3a. Roundup Ready™ maturity group-0 soybean variety yield averages- central South Dakota locations, 2004-2005.

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
PRAIRIE BR./PB-0923RR	114	68	.	68	.	68	.
MUSTANG/M-096RR	115	67	.	66	.	67	.
NUTECH/NT-0999+RR	115	69	.	65	.	67	.
NUTECH/NT-0999RR	115	65	58	67	.	66	.
MUSTANG/M-095RR	114	67	57	62	.	65	.
KRUGER/K-098RR	114	64	56	65	.	65	.
NORTHSTAR/NS 0954RR	113	65	58	65	.	65	.
EXPERIMENTAL/SDX00R-035-24	114	63	55	66	.	65	.
MUSTANG/M-094RR	114	65	58	63	.	64	.
NUTECH/NT-1212RR/SCN	118	63	.	64	.	64	.
INTEGRA/PSI 95090RR	114	64	.	63	.	64	.
PRAIRIE BR./PB-0954RR	115	65	.	61	.	63	.
SODAK GEN./1091RR	113	62	52	64	.	63	.
NUTECH/NT-0939RR	114	64	.	60	.	62	.
DAIRYLAND/DSR-0701/RR	110	62	.	62	.	62	.
SODAK GEN./1092RR	113	60	52	63	.	62	.
KRUGER/EXP080RR	113	64	.	55	.	60	.
EXPERIMENTAL/SD00-1251R	113	58	49	57	.	58	.
DEKALB/DKB08-51	112	60	.	.	.	.	.
INTEGRA/PSI 96090RR	117	67	.	.	.	.	.
STINE/0943-4	113	.	.	65	.	.	.
DYNA-GRO/37A10	117	66	58	.	.	.	.
Test avg.:	114	64	55	63	.	64	.
High avg. :	118	69	58	68	.	68	.
Low avg. :	110	58	49	55	.	58	.
# Lsd (.05):		4		45		3	
## TPG-avg. :		65	54	63		65	
@ Coef. Var.:		4	4	5		5	
No. Entries:		21	10	19	0		

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2005) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = 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, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
SODAK GEN./1092RR	113	38.4	17.3	3	35.5	17.6	1	37.0	17.5	2
EXPERIMENTAL/SD00-1251R	113	37.6	16.8	3	36.3	17.4	2	37.0	17.1	2
SODAK GEN./1091RR	113	37.3	17.2	2	36.2	17.6	2	36.8	17.4	2
PRAIRIE BR./PB-0954RR	115	37.0	17.5	2	34.9	17.4	3	36.0	17.5	3
MUSTANG/M-094RR	114	36.2	16.8	1	35.6	17.0	1	35.9	16.9	1
INTEGRA/PSI 95090RR	114	36.0	16.9	1	35.8	17.0	1	35.9	17.0	1
MUSTANG/M-095RR	114	36.8	17.2	2	34.8	17.6	2	35.8	17.4	2
KRUGER/K-098RR	114	36.6	17.2	2	35.0	17.4	3	35.8	17.3	3
KRUGER/EXP080RR	113	36.0	17.0	1	35.6	17.0	1	35.8	17.0	1
NORTHSTAR/NS 0954RR	113	36.1	16.9	1	35.4	17.0	1	35.8	17.0	1
NUTECH/NT-0999RR	115	36.4	17.6	1	34.7	17.3	1	35.6	17.5	1
PRAIRIE BR./PB-0923RR	114	35.9	17.0	1	35.2	17.6	1	35.6	17.3	1
NUTECH/NT-0939RR	114	35.9	16.9	2	35.0	17.5	1	35.5	17.2	1
DAIRYLAND/DSR-0701/RR	110	36.5	17.5	2	34.2	17.6	1	35.4	17.6	1
NUTECH/NT-0999+RR	115	35.7	17.6	3	34.1	17.8	1	34.9	17.7	2
MUSTANG/M-096RR	115	35.3	17.4	3	34.5	17.9	2	34.9	17.7	2
EXPERIMENTAL/SDX00R-035-24	114	34.2	17.3	2	33.7	17.7	1	34.0	17.5	2
NUTECH/NT-1212RR/SCN	118	33.5	17.8	3	31.7	18.1	3	32.6	18.0	3
DEKALB/DKB08-51	112	34.9	17.6	2	.	.	.	.	.	.
INTEGRA/PSI 96090RR	117	36.6	17.1	2	.	.	.	.	.	.
STINE/0943-4	113	.	.	.	34.3	17.6	1	.	.	.
DYNA-GRO/37A10	117	35.7	17.7	1	.	.	.	.	.	.
Test avg. :	114	36.1	17.3	2	34.9	17.5	1	35.5	17.3	2
High avg. :	118	38.4	17.8	3	36.3	18.1	3	37.0	18.0	3
High avg. :	110	33.5	16.8	1	31.7	17.0	1	32.6	16.9	1
* Lsd(.05) :				1			1			
## TPG-avg. :				1			1			
### Coef.Var. :				28			31			
No. Entries :		21	21	21	19	19	19			

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2005) 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 are not significant (NS), NS is indicated.

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

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2004-2005.

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
NUTECH/NT-7205+RR	124	70	.	73	.	72	.
KRUGER/K-195+RR/SCN	119	73	.	68	.	71	.
NUTECH/NT-2202RR	126	68	57	71	.	70	.
NUTECH/NT-2102RR	125	69	.	70	.	70	.
STINE/1918-4	124	69	58	71	.	70	.
WENSMAN/W 2195NRR	120	72	.	67	.	70	.
THOMPSON/T-7193RR/SCN	122	71	60	69	.	70	.
ASGROW/AG1903	123	69	58	68	.	69	.
ASGROW/AG1702	117	69	.	68	.	69	.
NUTECH/NT-1909RR	125	68	57	69	.	69	.
NUTECH/NT-2100RR	124	70	.	67	.	69	.
HEFTY/175R	119	70	.	67	.	69	.
PRAIRIE BR./PB-1754RR	118	70	60	68	.	69	.
THOMPSON/T-7234RR	126	67	57	70	.	69	.
MUSTANG/M-176RR	119	68	.	67	.	68	.
DEKALB/DKB18-51	119	68	.	67	.	68	.
HEFTY/195R	126	68	.	67	.	68	.
KRUGER/K-192RR	125	66	58	69	.	68	.
KRUGER/K-177RR	124	67	.	69	.	68	.
PRAIRIE BR./PB-1914RR	125	66	58	70	.	68	.
NORTHSTAR/NS 1310RR	114	72	.	64	.	68	.
MUSTANG/M-136RR	115	66	.	68	.	67	.
MUSTANG/M-156RR	116	68	.	66	.	67	.
FARM ADVANTAGE/FA 7192	125	67	58	66	.	67	.
NUTECH/NT-1555RR	115	68	.	65	.	67	.
LATHAM/EXP-E1936R	123	65	58	69	.	67	.
LATHAM/EXP-E1935R	123	67	.	66	.	67	.
GOLD COUNTRY/3618RR	123	68	.	65	.	67	.
GOLD COUNTRY/1619RR	122	68	.	65	.	67	.
PRAIRIE BR./PB-1954RR	124	68	59	66	.	67	.
PRAIRIE BR./PB-1525RR	116	68	.	65	.	67	.
WENSMAN/W 2150RR	117	71	.	63	.	67	.
FARM ADVANTAGE/FA 7173	121	66	.	66	.	66	.
NUTECH/NT-1516RR	115	66	.	65	.	66	.
NUTECH/NT-1921RR	124	65	.	67	.	66	.
INTEGRA/PSI 96110RR	115	68	.	63	.	66	.
KRUGER/K-100RR	114	67	.	64	.	66	.
DAIRYLAND/DSR-1900/RR	124	66	.	65	.	66	.
PRAIRIE BR./PB-1725RR	120	67	.	65	.	66	.
WENSMAN/W 2163RR	118	65	57	67	.	66	.
WENSMAN/W 2170RR	119	67	.	65	.	66	.
THOMPSON/T-1777RR	122	66	.	66	.	66	.
MUSTANG/M-115RR	117	65	56	64	.	65	.
NUTECH/NT-1404RR	115	66	.	64	.	65	.
NUTECH/NT-2202ARR	128	67	.	62	.	65	.
INTEGRA/PSI 96100RR	114	65	.	65	.	65	.
KRUGER/EXP102RR	115	65	.	64	.	65	.
KRUGER/K-156RR	116	67	.	63	.	65	.

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2004-2005 (continued).

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
KRUGER/EXP150RR	116	66	.	63	.	65	.
DAIRYLAND/DSR-1301/RR	118	66	56	63	.	65	.
PRAIRIE BR./PB-1294RR	117	64	53	65	.	65	.
WENSMAN/W 2142RR	115	68	.	61	.	65	.
NORTHSTAR/NS 1120RR	115	66	.	63	.	65	.
INTEGRA/PSI 95160RR	117	61	.	66	.	64	.
KRUGER/K-149+RR	117	67	.	61	.	64	.
DAIRYLAND/DSR-199/RR	121	65	55	62	.	64	.
ASGROW/AG1502	114	66	.	59	.	63	.
KRUGER/K-122RR	115	65	.	60	.	63	.
KRUGER/EXP180RR	121	64	.	62	.	63	.
EXPERIMENTAL/SDX00R-026-42N	120	64	.	62	.	63	.
DAIRYLAND/DSR-1500/RR	118	63	.	60	.	62	.
NORTHSTAR/NS 1409RR	116	64	55	60	.	62	.
EXPERIMENTAL/SD1091RR-4	114	62	.	62	.	62	.
MUSTANG/M-155RR	116	65	54	57	.	61	.
EXPERIMENTAL/SD96-170RR-28L	114	63	55	59	.	61	.
AGVENTURE/15T5RR	116	61	.	58	.	60	.
EXPERIMENTAL/SDX00R-035-39	114	60	.	60	.	60	.
EXPERIMENTAL/SD01-3219R	117	61	.	58	.	60	.
EXPERIMENTAL/SD01-1587R	115	59	.	60	.	60	.
DAIRYLAND/DST14-001/RR	118	60	.	57	.	59	.
EXPERIMENTAL/SD01-3477R	119	61	.	56	.	59	.
EXPERIMENTAL/SD93-828R	114	58	.	58	.	58	.
SODAK GEN./1151RR	116	60	52	50	.	55	.
COYOTE/4719RR	128	66	58	.	.	.	.
AGVENTURE/11T1RR	117	65	.	.	.	.	.
AGVENTURE/17T6RR	116	.	.	60	.	.	.
DEKALB/DKB10-52	116	64	.	.	.	.	.
KALTENBERG/KB135RR	118	69	.	.	.	.	.
KALTENBERG/KB155RR	119	68	.	.	.	.	.
STINE/1300-4	113	.	.	65	.	.	.
STINE/1636-4	120	62	.	.	.	.	.
STINE/1683-4	114	.	.	66	.	.	.
DYNA-GRO/33M14	116	65	.	.	.	.	.
DYNA-GRO/35D15	119	61	.	.	.	.	.
DYNA-GRO/EXP SX05611	117	66	.	.	.	.	.
DYNA-GRO/EXP SX05514	117	63	.	.	.	.	.
DYNA-GRO/EXP SX05816	121	64	.	.	.	.	.
DYNA-GRO/EXP SX05317	120	65	.	.	.	.	.
DYNA-GRO/3190RR	127	67	.	.	.	.	.
ZILLER/BT 7145R	116	67	57	.	.	.	.
ZILLER/BT 7160R	120	61	.	.	.	.	.
THOMPSON/T-7214RR	128	69	59	.	.	.	.
RENK/RS159RR	119	63	52	.	.	.	.

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2004-2005 (continued).

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
RENK/RS199RR	119	64	53	.	.	.	.
RENK/RS124NRR	118	66	.	.	.	.	.
RENK/RS165RR	119	68	.	.	.	.	.
RENK/RS185RR	126	69	.	.	.	.	.
Test avg. :	119	66	57	64	.	66	.
High avg. :	128	73	60	73	.	72	.
Low avg. :	113	58	52	50	.	55	.
# Lsd (.05) :		4	3	4		3	
## TPG-avg. :		69	57	69		69	
### Coef.Var. :		4	4	4		4	
No. Entries :		94	26	76			

* DTM= average days from seeding (Brookings- June 3, Bancroft- May 27, 2005) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = 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, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
EXPERIMENTAL/SD01-1587R	115	37.1	17.4	3	36.4	17.7	3	36.8	17.6	3
DAIRYLAND/DSR-199/RR	121	37.3	16.0	2	36.1	17.1	1	36.7	16.6	2
NUTECH/NT-1516RR	115	36.6	16.3	2	36.4	17.8	1	36.5	17.1	2
EXPERIMENTAL/SD1091RR-4	114	36.4	17.3	2	36.2	17.9	2	36.3	17.6	2
DAIRYLAND/DSR-1500/RR	118	36.7	16.6	2	35.5	17.4	2	36.1	17.0	2
DAIRYLAND/DSR-1900/RR	124	37.0	16.6	3	35.2	17.4	2	36.1	17.0	2
NUTECH/NT-2100RR	124	36.4	17.3	3	35.6	17.7	3	36.0	17.5	3
MUSTANG/M-155RR	116	36.7	17.0	2	35.2	17.6	1	36.0	17.3	2
KRUGER/EXP180RR	121	36.4	18.0	3	35.3	18.2	2	35.9	18.1	2
WENSMAN/W 2163RR	118	36.1	16.4	3	35.5	17.6	1	35.8	17.0	2
MUSTANG/M-176RR	119	35.8	16.3	2	35.6	17.3	2	35.7	16.8	2
NORTHSTAR/NS 1409RR	116	36.0	16.3	2	35.4	17.0	2	35.7	16.7	2
NORTHSTAR/NS 1310RR	114	36.3	17.3	2	35.1	18.1	1	35.7	17.7	2
MUSTANG/M-136RR	115	35.4	16.7	2	35.8	17.2	1	35.6	17.0	2
DAIRYLAND/DSR-1301/RR	118	35.6	17.0	2	35.5	17.6	1	35.6	17.3	2
NUTECH/NT-2102RR	125	36.0	16.8	3	35.0	17.9	3	35.5	17.4	3
HEFTY/175R	119	35.5	16.3	2	35.5	17.2	1	35.5	16.8	2
KRUGER/K-100RR	114	35.9	17.4	2	35.1	18.5	1	35.5	18.0	1
PRAIRIE BR./PB-1754RR	118	35.3	16.3	3	35.6	17.4	2	35.5	16.9	2
EXPERIMENTAL/SD01-3219R	117	35.9	16.4	3	35.0	17.4	2	35.5	16.9	2
KRUGER/K-156RR	116	36.0	16.9	1	34.8	17.3	1	35.4	17.1	1
SODAK GEN./1151RR	116	35.8	16.5	3	35.0	17.6	3	35.4	17.1	3
KRUGER/K-149+RR	117	35.6	16.6	3	35.1	17.2	2	35.4	16.9	2
GOLD COUNTRY/1619RR	122	36.2	16.2	3	34.5	17.4	2	35.4	16.8	2
NORTHSTAR/NS 1120RR	115	36.4	17.8	1	34.3	18.6	1	35.4	18.2	1
NUTECH/NT-1404RR	115	35.6	16.6	1	34.8	17.3	1	35.2	17.0	1
EXPERIMENTAL/SD93-828R	114	35.7	16.6	3	34.6	18.0	2	35.2	17.3	3
INTEGRA/PSI 96110RR	115	36.0	17.7	2	34.2	18.4	1	35.1	18.1	2
KRUGER/K-122RR	115	36.0	17.3	3	34.2	17.7	1	35.1	17.5	2
EXPERIMENTAL/SDX00R-026-42N	120	35.5	16.8	3	34.7	17.4	2	35.1	17.1	3
ASGROW/AG1702	117	35.5	17.4	2	34.6	18.0	1	35.1	17.7	2
PRAIRIE BR./PB-1954RR	124	35.5	17.1	3	34.6	18.0	3	35.1	17.6	3
INTEGRA/PSI 96100RR	114	35.4	17.1	1	34.6	17.9	1	35.0	17.5	1
LATHAM/EXP-E1935R	123	35.0	15.8	2	35.0	17.0	1	35.0	16.4	1
WENSMAN/W 2150RR	117	35.8	17.3	2	34.2	18.4	1	35.0	17.9	2
AGVENTURE/15T5RR	116	34.7	16.1	3	35.2	17.6	2	35.0	16.9	2
THOMPSON/T-7234RR	126	35.6	17.9	3	34.1	18.0	2	34.9	18.0	3
MUSTANG/M-156RR	116	35.5	17.2	2	34.1	18.3	1	34.8	17.8	2
NUTECH/NT-1555RR	115	35.7	17.7	2	33.9	18.5	1	34.8	18.1	2
EXPERIMENTAL/SD01-3477R	119	35.4	17.6	3	34.2	18.3	3	34.8	18.0	3
KRUGER/EXP102RR	115	34.7	17.0	1	34.8	18.0	2	34.8	17.5	2
PRAIRIE BR./PB-1525RR	116	35.1	17.7	2	34.4	18.2	1	34.8	18.0	1
NUTECH/NT-2202RR	126	35.1	17.9	3	34.3	18.2	2	34.7	18.1	2
NUTECH/NT-1921RR	124	35.2	17.3	3	34.2	17.8	3	34.7	17.6	3
DAIRYLAND/DST14-001/RR	118	35.1	15.9	4	34.2	17.3	3	34.7	16.6	3
GOLD COUNTRY/3618RR	123	34.8	16.7	3	34.5	17.4	3	34.7	17.1	3
STINE/1918-4	124	35.1	17.9	3	34.1	18.1	2	34.6	18.0	2
NUTECH/NT-1909RR	125	34.7	17.4	3	34.1	17.9	2	34.4	17.7	3

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
KRUGER/K-192RR	125	34.2	17.6	3	34.5	18.0	3	34.4	17.8	3
LATHAM/EXP-E1936R	123	34.4	17.3	2	34.2	17.8	2	34.3	17.6	2
ASGROW/AG1903	123	34.1	16.1	2	34.4	17.7	2	34.3	16.9	2
PRAIRIE BR./PB-1914RR	125	34.1	17.3	2	34.4	18.0	2	34.3	17.7	2
WENSMAN/W 2170RR	119	35.2	17.8	2	33.3	18.7	2	34.3	18.3	2
THOMPSON/T-7193RR/SCN	122	34.8	18.3	2	33.7	18.6	2	34.3	18.5	2
NUTECH/NT-7205+RR	124	34.7	18.0	2	33.7	18.1	1	34.2	18.1	2
WENSMAN/W 2142RR	115	34.2	17.0	2	34.1	18.5	1	34.2	17.8	1
WENSMAN/W 2195NRR	120	34.7	18.4	3	33.6	18.6	1	34.2	18.5	2
ASGROW/AG1502	114	33.5	17.2	2	34.8	18.3	1	34.2	17.8	2
KRUGER/EXP150RR	116	34.6	16.9	2	33.6	18.3	1	34.1	17.6	1
FARM ADVANTAGE/FA 7192	125	34.1	17.5	2	34.0	18.1	2	34.1	17.8	2
FARM ADVANTAGE/FA 7173	121	34.8	17.9	3	33.3	18.6	2	34.1	18.3	3
PRAIRIE BR./PB-1725RR	120	34.8	17.6	3	33.1	18.6	2	34.0	18.1	2
KRUGER/K-195+RR/SCN	119	34.3	18.2	2	33.5	18.5	1	33.9	18.4	2
THOMPSON/T-1777RR	122	34.8	17.7	3	33.0	18.3	2	33.9	18.0	2
EXPERIMENTAL/SD96-170RR-28L	114	34.5	17.5	3	33.2	18.4	1	33.9	18.0	2
HEFTY/195R	126	33.6	17.3	3	34.0	17.8	2	33.8	17.6	3
EXPERIMENTAL/SDX00R-035-39	114	33.9	17.8	3	33.5	18.3	2	33.7	18.1	2
KRUGER/K-177RR	124	34.3	17.5	2	33.0	18.4	1	33.7	18.0	2
DEKALB/DKB18-51	119	33.9	17.5	3	32.8	18.2	2	33.3	17.9	2
INTEGRA/PSI 95160RR	117	33.9	17.4	4	32.5	18.0	3	33.2	17.7	4
PRAIRIE BR./PB-1294RR	117	33.5	17.8	3	32.0	17.8	3	32.8	17.8	3
MUSTANG/M-115RR	117	33.0	18.0	3	31.8	18.1	3	32.4	18.1	3
NUTECH/NT-2202ARR	128	32.7	17.7	3	31.7	18.8	3	32.2	18.3	3
COYOTE/4719RR	128	33.5	17.1	2	.	.	.	.	.	.
AGVENTURE/11T1RR	117	36.1	17.5	2	.	.	.	.	.	.
AGVENTURE/17T6RR	116	.	.	.	33.7	18.1	2	.	.	.
DEKALB/DKB10-52	116	35.7	16.3	3	.	.	.	.	.	.
KALTENBERG/KB135RR	118	35.9	16.4	2	.	.	.	.	.	.
KALTENBERG/KB155RR	119	34.7	16.2	1	.	.	.	.	.	.
STINE/1300-4	113	.	.	.	34.4	18.2	1	.	.	.
STINE/1636-4	120	34.9	15.9	3	.	.	.	.	.	.
STINE/1683-4	114	.	.	.	33.3	18.2	2	.	.	.
DYNA-GRO/33M14	116	35.9	17.6	2	.	.	.	.	.	.
DYNA-GRO/35D15	119	35.0	16.1	2	.	.	.	.	.	.
DYNA-GRO/EXP SX05611	117	34.7	16.8	2	.	.	.	.	.	.
DYNA-GRO/EXP SX05514	117	35.7	16.9	1	.	.	.	.	.	.
DYNA-GRO/EXP SX05816	121	36.9	17.5	3	.	.	.	.	.	.
DYNA-GRO/EXP SX05317	120	33.8	17.3	2	.	.	.	.	.	.
DYNA-GRO/3190RR	127	33.5	17.3	2	.	.	.	.	.	.
ZILLER/BT 7145R	116	35.1	17.3	2	.	.	.	.	.	.
ZILLER/BT 7160R	120	35.4	16.6	3	.	.	.	.	.	.
THOMPSON/T-7214RR	128	35.1	18.1	3	.	.	.	.	.	.
RENK/RS159RR	119	33.6	17.1	3	.	.	.	.	.	.

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
RENK/RS199RR	119	33.2	18.8	3	.	.	.	.	.	.
RENK/RS124NRR	118	32.7	17.8	3	.	.	.	.	.	.
RENK/RS165RR	119	34.9	16.7	2	.	.	.	.	.	.
RENK/RS185RR	126	34.8	17.7	3	.	.	.	.	.	.
Test avg. :	119	35.1	17.1	2	34.4	17.9	2	34.8	17.5	2
High avg. :	128	37.3	18.8	4	36.4	18.8	3	36.8	18.5	4
Low avg. :	113	32.7	15.8	1	31.7	17.0	1	32.2	16.4	1
* Lsd(.05) :				1			1			
## TPG-avg. :				1			1			
@ Coef. Var. :				26			26			
No. Entries :		94	94	94	76	76	76			

* DTM = average days from seeding (Brookings- May 25, Bancroft -May 27, 2005) 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 are not significant (NS), NS is indicated.

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

Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2004-2005.

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
NUTECH/NT-2626RR	130	75	.	71	.	73	.
KRUGER/K-223+RR	125	72	.	73	.	73	.
PRAIRIE BR./PB-2421RR	128	75	60	66	.	71	.
DEKALB/DKB22-52	126	68	60	71	.	70	.
NUTECH/NT-2330RR	128	70	.	70	.	70	.
HEFTY/214R	126	67	.	72	.	70	.
KRUGER/EXP225RR	126	68	.	71	.	70	.
GOLD COUNTRY/6221RR	125	69	61	71	.	70	.
PRAIRIE BR./PB-2243RR	126	67	59	72	.	70	.
ASGROW/AG2107	121	69	.	68	.	69	.
MUSTANG/M-203RR	124	66	59	71	.	69	.
MUSTANG/M-205RR	123	71	.	67	.	69	.
MUSTANG/M-226RR	127	67	.	71	.	69	.
PRAIRIE BR./PB-2141RR	126	66	58	71	.	69	.
WENSMAN/W 2211RR	126	66	58	72	.	69	.
MUSTANG/M-201RR	128	67	59	68	.	68	.
FARM ADVANTAGE/FA 7205	125	70	62	65	.	68	.
KRUGER/K-211+RR	126	65	.	70	.	68	.
KRUGER/EXP238RR	127	65	.	70	.	68	.
PRAIRIE BR./PB-2205RR	127	65	.	71	.	68	.
ASGROW/AG2403	125	67	59	66	.	67	.
NUTECH/NT-2707RR	130	66	.	67	.	67	.
NUTECH/NT-2440RR	127	68	.	65	.	67	.
HEFTY/EXP 226R	126	65	.	68	.	67	.
PRAIRIE BR./PB-2345RR	126	65	.	69	.	67	.
ASGROW/AG2205	123	66	.	66	.	66	.
HEFTY/EXP 266R	130	66	.	66	.	66	.
KRUGER/K-233+RR	127	65	56	67	.	66	.
KRUGER/K-200RR	123	68	61	64	.	66	.
WENSMAN/W 2253RR	129	64	.	68	.	66	.
NUTECH/NT-2324RR/SCN	128	64	.	65	.	65	.
KRUGER/EXP237RR	125	63	.	67	.	65	.
EXPERIMENTAL/SD01-2509R	129	64	54	65	.	65	.
NUTECH/NT-2333RR	125	62	.	66	.	64	.
KRUGER/K-212RR	124	65	.	61	.	63	.
NUTECH/NT-2424RR/SCN	128	62	.	62	.	62	.
LATHAM/EXP-E2045R	125	61	.	62	.	62	.
EXPERIMENTAL/SDX00R-039-42	127	63	54	61	.	62	.
COYOTE/4523RR	131	66	56	.	.	.	.
COYOTE/EXP922	128	69	.	.	.	.	.

Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2004-2005 (continued).

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
ZILLER/BT 7215R	129	68	.	.	.	.	.
RENK/RS223RR	125	69	60	.	.	.	.
Test avg. :	126	67	59	68	.	67	.
High value :	131	75	62	73	.	73	.
Low avg. :	121	61	54	61	.	62	.
# Lsd (.05) :		4	5	4		3	
## TPG-avg. :		71	57	69		70	
@ Coef. Var. :		3	4	4		4	
No. Entries :		42	16	38			

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2005) to maturity.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = 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, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
ASGROW/AG2205	123	36.1	16.0	3	35.9	16.5	1	36.0	16.3	2
KRUGER/EXP225RR	126	35.8	16.9	3	35.4	17.5	2	35.6	17.2	2
KRUGER/K-233+RR	127	36.1	16.2	3	34.9	17.5	1	35.5	16.9	2
NUTECH/NT-2626RR	130	35.0	16.6	3	35.8	17.8	2	35.4	17.2	2
NUTECH/NT-2424RR/SCN	128	35.5	16.5	3	35.2	17.7	2	35.4	17.1	2
LATHAM/EXP-E2045R	125	35.8	16.0	3	34.8	17.2	2	35.3	16.6	3
PRAIRIE BR./PB-2205RR	127	35.3	16.7	2	35.3	17.8	2	35.3	17.3	2
KRUGER/EXP237RR	125	35.3	16.6	3	35.0	18.0	2	35.2	17.3	2
NUTECH/NT-2440RR	127	35.7	16.7	3	34.2	18.0	1	35.0	17.4	2
HEFTY/EXP 266R	130	35.3	16.7	3	34.6	17.3	3	35.0	17.0	3
KRUGER/K-212RR	124	35.1	15.8	2	34.7	17.0	1	34.9	16.4	1
WENSMAN/W 2253RR	129	35.1	16.4	3	34.7	17.5	2	34.9	17.0	3
NUTECH/NT-2707RR	130	35.5	16.5	3	34.3	17.7	2	34.9	17.1	3
NUTECH/NT-2324RR/SCN	128	34.4	17.2	3	34.9	18.1	2	34.7	17.7	2
ASGROW/AG2107	121	34.2	17.2	3	34.2	18.3	2	34.2	17.8	2
MUSTANG/M-203RR	124	34.2	17.2	3	34.2	17.9	1	34.2	17.6	2
KRUGER/K-200RR	123	34.1	17.4	2	34.2	17.9	1	34.2	17.7	2
HEFTY/214R	126	34.0	17.2	2	34.3	17.6	2	34.2	17.4	2
DEKALB/DKB22-52	126	34.2	17.2	3	33.9	18.2	1	34.1	17.7	2
PRAIRIE BR./PB-2421RR	128	34.5	16.5	3	33.6	18.0	1	34.1	17.3	2
PRAIRIE BR./PB-2345RR	126	35.1	16.6	4	33.0	17.9	2	34.1	17.3	3
KRUGER/K-211+RR	126	34.2	17.4	2	33.7	18.0	1	34.0	17.7	2
KRUGER/EXP238RR	127	35.1	16.5	3	32.8	17.7	3	34.0	17.1	3
HEFTY/EXP 226R	126	34.7	16.4	4	33.1	17.9	2	33.9	17.2	3
WENSMAN/W 2211RR	126	34.1	17.4	2	33.7	17.1	1	33.9	17.3	2
GOLD COUNTRY/6221RR	125	34.4	16.8	3	33.4	17.8	1	33.9	17.3	2
NUTECH/NT-2330RR	128	34.1	17.3	3	33.6	18.4	2	33.9	17.9	3
MUSTANG/M-205RR	123	33.8	16.9	2	33.8	17.8	1	33.8	17.4	2
PRAIRIE BR./PB-2243RR	126	33.7	17.5	2	33.9	17.7	2	33.8	17.6	2
MUSTANG/M-226RR	127	34.5	16.3	3	33.0	17.7	3	33.8	17.0	3
FARM ADVANTAGE/FA 7205	125	33.6	16.8	3	33.9	17.9	2	33.8	17.4	2
NUTECH/NT-2333RR	125	34.0	16.6	3	33.5	17.9	3	33.8	17.3	3
KRUGER/K-223+RR	125	34.0	17.1	2	33.5	17.9	1	33.8	17.5	2
MUSTANG/M-201RR	128	33.9	17.1	3	33.4	18.2	1	33.7	17.7	2
PRAIRIE BR./PB-2141RR	126	34.3	17.0	3	32.9	18.1	1	33.6	17.6	2
ASGROW/AG2403	125	33.8	16.8	2	32.5	18.4	1	33.2	17.6	2
EXPERIMENTAL/SD01-2509R	129	33.0	16.2	3	31.8	17.5	1	32.4	16.9	2
EXPERIMENTAL/SDX00R-039-42	127	30.9	16.9	4	30.5	18.6	3	30.7	17.8	4
COYOTE/4523RR	131	35.3	16.6	3	.	.	.	.	.	.
COYOTE/EXP922	128	35.7	16.7	3	.	.	.	.	.	.

Table 5b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
ZILLER/BT 7215R	129	34.4	16.8	3	.	.	.	.	.	.
RENK/RS223RR	125	34.1	17.3	2	.	.	.	.	.	.
Test avg. :	126	34.6	17.9	3	34.0	18.5	2	34.2	18.3	2
High avg. :	131	36.1	17.5	4	35.9	18.6	3	36.0	17.9	4
Low avg. :	121	30.9	15.8	2	30.5	16.5	1	30.7	16.3	1
* Lsd(.05) :				1			1			
## TPG-avg. :				1			1			
### Coef.Var. :				21			20			
No. Entries :		42	42	42	38	38	38			

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2005) 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 are not significant (NS), NS is indicated.

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

Table 6a. Roundup Ready™ maturity group-I soybean variety yield averages- southern South Dakota locations, 2004-2005.

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Delmont		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
ASGROW/AG1903	99	52	60	31	38	42	49
NUTECH/NT-1909RR	100	57	62	27	34	42	48
KRUGER/K-192RR	99	57	60	25	32	41	46
KRUGER/K-156RR	93	55	.	26	.	41	.
THOMPSON/T-7205+RR	101	54	.	28	.	41	.
KRUGER/EXP150RR	95	54	.	26	.	40	.
PRAIRIE BR./PB-1914RR	102	51	.	29	35	40	.
KRUGER/EXP180RR	99	52	.	25	.	39	.
PRAIRIE BR./PB-1954RR	96	53	60	25	32	39	46
THOMPSON/T-7214RR	99	53	59	25	34	39	47
NORTHSTAR/NS 1809RR	98	49	.	29	.	39	.
KRUGER/K-195+RR/SCN	97	53	.	22	.	38	.
KRUGER/K-177RR	102	54	.	21	.	38	.
EXPERIMENTAL/SDX00R-026-42N	97	52	.	24	.	38	.
NORTHSTAR/NS 1624RR	97	50	.	24	.	37	.
EXPERIMENTAL/SDX00R-035-39	94	51	.	22	.	37	.
EXPERIMENTAL/SD96-170RR-28L	93	50	54	23	.	37	.
EXPERIMENTAL/SD1091RR-4	95	50	.	21	.	36	.
EXPERIMENTAL/SD93-828R	92	50	.	22	.	36	.
NORTHSTAR/NS 1509RR	93	48	.	22	.	35	.
KRUGER/K-149+RR	96	46	.	21	.	34	.
EXPERIMENTAL/SD01-3219R	97	46	.	22	28	34	.
SODAK GEN./1151RR	93	47	49	20	24	34	37
GOLD COUNTRY/3618RR	96	46	.	20	29	33	.
EXPERIMENTAL/SD01-1587R	94	45	.	21	.	33	.
ASGROW/AG1702	96	.	.	28	.	.	.
COYOTE/4719RR	100	.	.	25	30	.	.
STINE/1918-4	102	53	59	.	.	.	.
Test avg. :	97	51	58	24	32	38	46
High avg. :	102	57	62	31	38	42	49
Low avg. :	92	45	49	20	24	33	37
# Lsd (.05) :		7	7	4	5	4	7
## TPG-avg. :		50	55	27	33	38	42
@ Coef. Var. :		9	7	11	12	10	18
No. Entries :		26	8	27	10		

* DTM= average days from seeding (Beresford- June 16, Delmont- June 20, 2005) to maturity.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = 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, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Delmont			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
NORTHSTAR/NS 1509RR	93	36.6	16.6	1	36.3	15.4	1	36.5	16.0	1
KRUGER/K-149+RR	96	36.6	17.6	1	35.7	15.8	1	36.2	16.7	1
EXPERIMENTAL/SD01-1587R	94	36.5	18.3	1	35.8	16.4	1	36.2	17.4	1
KRUGER/EXP180RR	99	36.1	18.2	1	36.1	17.1	1	36.1	17.7	1
EXPERIMENTAL/SD1091RR-4	95	36.7	18.5	1	35.1	17.7	1	35.9	18.1	1
NORTHSTAR/NS 1809RR	98	35.4	17.9	1	34.6	17.8	1	35.0	17.9	1
NUTECH/NT-1909RR	100	34.5	18.1	1	35.3	16.1	1	34.9	17.1	1
PRAIRIE BR./PB-1914RR	102	34.6	18.1	1	35.1	18.3	1	34.9	18.2	1
EXPERIMENTAL/SD93-828R	92	34.7	18.8	1	35.0	17.2	1	34.9	18.0	1
KRUGER/K-177RR	102	35.0	18.3	1	34.5	18.6	1	34.8	18.5	1
ASGROW/AG1903	99	34.1	18.3	1	35.2	17.0	1	34.7	17.7	1
THOMPSON/T-7205+RR	101	34.4	18.5	1	34.9	18.3	1	34.7	18.4	1
SODAK GEN./1151RR	93	35.6	17.9	2	33.5	16.9	1	34.6	17.4	1
KRUGER/K-156RR	93	35.0	18.5	1	34.0	17.3	1	34.5	17.9	1
EXPERIMENTAL/SD01-3219R	97	35.1	18.2	1	33.7	16.9	1	34.4	17.6	1
PRAIRIE BR./PB-1954RR	96	34.4	18.5	1	34.2	17.6	1	34.3	18.1	1
KRUGER/K-192RR	99	34.6	18.5	1	33.7	17.3	1	34.2	17.9	1
EXPERIMENTAL/SD96-170RR-28L	93	34.7	18.3	1	33.5	17.7	1	34.1	18.0	1
KRUGER/K-195+RR/SCN	97	33.8	19.3	1	34.2	19.3	1	34.0	19.3	1
THOMPSON/T-7214RR	99	33.4	18.8	1	34.6	17.4	1	34.0	18.1	1
EXPERIMENTAL/SDX00R-026-42N	97	34.0	17.9	1	33.9	16.7	1	34.0	17.3	1
EXPERIMENTAL/SDX00R-035-39	94	33.3	18.7	2	33.7	17.8	1	33.5	18.3	1
KRUGER/EXP150RR	95	33.9	18.9	1	32.9	17.8	1	33.4	18.4	1
GOLD COUNTRY/3618RR	96	33.9	18.3	1	32.2	17.3	1	33.1	17.8	1
NORTHSTAR/NS 1624RR	97	32.3	19.0	1	32.7	16.8	1	32.5	17.9	1
ASGROW/AG1702	96	.	.	.	36.6	17.7	1	.	.	.
COYOTE/4719RR	100	.	.	.	34.7	18.1	1	.	.	.
STINE/1918-4	102	34.4	18.3	1	.	.	.	.	.	.
Test avg. :	97	34.8	18.3	1	34.5	17.3	1	34.6	17.8	1
High avg. :	102	36.7	19.3	2	36.6	19.3	1	36.5	19.3	1
Low avg. :	92	32.3	16.6	1	32.2	15.4	1	32.5	16.0	1
* Lsd(.05) :				1			NS			
## TPG-avg. :				1			1			
@ Coef. Var. :				22			0			
No. Entries :		26	26	26	27	27	27			

* DTM= average days from seeding (Beresford- June 16, Delmont- June 20, 2005) to maturity.

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

Lsd(.05)= amount values in a column must differ to be significantly different, differences are not significant (NS), NS is indicated.

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

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2005.

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Delmont		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
DEKALB/DKB25-51	104	55	63	33	39	44	51
PRAIRIE BR./PB-2141RR	102	56	63	30	36	43	50
COYOTE/4527RR	105	55	62	31	36	43	49
KRUGER/K-289+RR	105	55	60	31	37	43	49
FARM ADVANTAGE/FA 7264	106	54	61	29	37	42	49
SANDS/SOI 2754RR	104	52	62	29	36	41	49
PRAIRIE BR./PB-2421RR	101	54	62	28	35	41	49
MUSTANG/M-203RR	101	57	61	29	35	43	48
KRUGER/K-233+RR	101	57	62	28	33	43	48
COYOTE/9524RR	102	56	62	28	34	42	48
MUSTANG/M-264RR	104	53	59	30	37	42	48
PRAIRIE BR./PB-2343RR	101	55	63	26	33	41	48
ASGROW/AG2403	102	57	63	23	32	40	48
PRAIRIE BR./PB-2643RR	106	51	59	29	36	40	48
SANDS/EXP 2669RR	103	51	58	29	36	40	47
DAIRYLAND/DSR-234/RR	99	50	59	28	34	39	47
DAIRYLAND/DSR-2500/RR	101	51	61	26	32	39	47
KRUGER/K-270RR	102	54	57	29	35	42	46
PRAIRIE BR./PB-2243RR	101	55	61	25	31	40	46
SANDS/SOI 2143RR	101	50	60	24	32	37	46
KRUGER/K-273RR	104	49	55	30	35	40	45
SANDS/SOI 2169RR	96	49	58	26	31	38	45
NUTECH/NT-2707RR	102	50	56	26	33	38	45
KRUGER/K-200RR	96	52	59	23	31	38	45
RENK/RS253RR	102	47	57	23	32	35	45
SANDS/SOI 2872RR	103	50	54	26	34	38	44
EXPERIMENTAL/SDX00R-039-42	102	45	53	26	31	36	42
MUSTANG/M-205RR	97	58	.	30	.	44	.
SANDS/SOI 2448RR	102	58	.	29	.	44	.
SANDS/SOI 2151NRR	97	58	63	27	.	43	.
LATHAM/L2336R	101	56	.	30	.	43	.
COYOTE/EXP922	100	55	.	28	.	42	.
NUTECH/NT-2890RR	105	54	.	29	.	42	.
INTEGRA/PSI 96280RR	105	53	.	30	.	42	.
LATHAM/L2136R	100	58	62	23	.	41	.
THOMPSON/T-2100RR	100	54	.	28	.	41	.
THOMPSON/T-2919RR/SCN	107	51	.	30	.	41	.
RENK/RS265RR	103	58	.	23	.	41	.
SANDS/SOI 2673RR	103	53	.	26	.	40	.
INTEGRA/PSI 95200RR	97	56	.	23	.	40	.
INTEGRA/PSI 96210RR	100	55	.	25	.	40	.
LATHAM/EXP-E2450R	102	54	58	26	.	40	.
PRAIRIE BR./PB-2205RR	101	52	.	28	.	40	.
DYNA-GRO/31N27	105	49	.	31	.	40	.
NUTECH/NT-2626RR	102	53	.	25	.	39	.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2005 (continued).

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Delmont		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
KRUGER/K-212RR	98	52	.	25	.	39	.
KRUGER/EXP280RR	103	50	.	28	.	39	.
GOLD COUNTRY/2726RR	104	50	.	28	.	39	.
DAIRYLAND/DSR-2600/RR	100	50	.	27	.	39	.
PRAIRIE BR./PB-2385NRR	100	49	.	28	.	39	.
DYNA-GRO/32C25	103	50	.	27	.	39	.
THOMPSON/T-7206RR	99	54	.	24	.	39	.
EXPERIMENTAL/SDX00R-035-56	102	52	.	26	.	39	.
COYOTE/EXP624	102	50	.	25	.	38	.
FARM ADVANTAGE/FA7244N	101	53	.	22	.	38	.
DEKALB/DKB26-53	105	53	.	22	.	38	.
SANDS/SOI 2884RR	105	51	.	25	.	38	.
NUTECH/NT-2330RR	102	52	.	23	.	38	.
NUTECH/NT-2992RR	107	49	.	27	.	38	.
INTEGRA/PSI 96230RR	98	50	.	25	.	38	.
KRUGER/EXP260RR	104	46	.	30	.	38	.
LATHAM/EXP-E2635R	103	49	56	27	.	38	.
LATHAM/L2900R	105	53	60	23	.	38	.
DAIRYLAND/DSR-2100/RR	100	49	.	26	.	38	.
PRAIRIE BR./PB-2565RR	103	51	.	25	.	38	.
EXPERIMENTAL/SD01-1135R	96	52	.	24	31	38	.
NUTECH/NT-2324RR/SCN	101	50	.	24	.	37	.
NUTECH/NT-2424RR/SCN	99	48	.	26	.	37	.
NUTECH/NT-2990RR	106	50	.	24	.	37	.
KRUGER/K-223+RR	99	51	.	23	.	37	.
PRAIRIE BR./PB-2183NRR	97	51	.	22	.	37	.
PRAIRIE BR./PB-2345RR	97	48	.	25	.	37	.
PRAIRIE BR./PB-2625RR	101	49	.	25	.	37	.
MUSTANG/M-226RR	98	46	.	25	.	36	.
SANDS/SOI 2467NRR	100	50	.	21	.	36	.
INTEGRA/PSI 96260RR	102	46	.	25	.	36	.
KRUGER/K-255RR	101	45	.	26	.	36	.
LATHAM/497RR	99	49	60	22	.	36	.
STINE/2688-4	102	47	.	24	.	36	.
NUTECH/NT-2790RR	103	45	.	24	.	35	.
DYNA-GRO/EXP SX05123	97	48	.	21	.	35	.
EXPERIMENTAL/SDX00R-046-28	102	44	.	25	.	35	.
EXPERIMENTAL/SD01-3025R	105	42	.	24	.	33	.
EXPERIMENTAL/SD01-3387R	99	44	.	22	.	33	.
EXPERIMENTAL/SDX02R-584	98	40	.	24	.	32	.
ASGROW/AG2107	100	.	.	22	31	.	.
ASGROW/AG2205	96	.	.	23	.	.	.
COYOTE/4523RR	101	51	57	.	.	.	.
MUSTANG/M-201RR	104	61	67	.	.	.	.
MUSTANG/M-284RR	104	49	61	.	.	.	.
MUSTANG/M-286NRR	104	49	.	.	.	.	.
DEKALB/DKB22-52	104	55	61	.	.	.	.
KALTENBERG/KB241RR	104	52	.	.	.	.	.
KALTENBERG/KB248RR	101	48	.	.	.	.	.
KALTENBERG/KB256RR	104	54	.	.	.	.	.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2005 (continued).

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Delmont		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
KALTENBERG/KB276RR	107	54	.	.	.	.	.
STINE/2116-4	97	.	.	24	33	.	.
STINE/2402-4	100	50	.	.	.	.	.
STINE/2743-4	108	.	.	28	.	.	.
ZILLER/BT 7215R	101	57	65	.	.	.	.
ZILLER/BT 7236R	102	49	.	.	.	.	.
THOMPSON/T-3100RR	108	49	.	.	.	.	.
THOMPSON/T-3101RR	108	52	.	.	.	.	.
Test avg. :	102	51	60	26	34	39	47
High avg. :	108	61	67	33	39	44	51
Low avg. :	96	40	53	21	31	32	42
# Lsd (.05) :		6	6	4	4	4	7
## TPG-avg. :		55	61	29	35	40	44
@ Coef. Var. :		7	6	10	9	8	18
No. Entries :		99	38	89	30		

* DTM= average days from seeding (Beresford- June 16, Delmont- June 20, 2005) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = 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, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Delmont			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
EXPERIMENTAL/SD01-3387R	99	38.1	17.2	2	35.7	16.5	1	36.9	16.9	2
KRUGER/K-212RR	98	36.8	16.8	1	36.0	15.8	1	36.4	16.3	1
KRUGER/EXP260RR	104	36.9	17.7	1	34.8	18.2	1	35.9	18.0	1
THOMPSON/T-2100RR	100	37.9	17.7	1	33.5	17.9	1	35.7	17.8	1
KRUGER/K-255RR	101	36.3	17.5	1	34.9	18.3	1	35.6	17.9	1
EXPERIMENTAL/SDX00R-046-28	102	36.9	16.9	3	34.1	16.9	1	35.5	16.9	2
KRUGER/K-273RR	104	36.7	17.9	2	34.1	18.0	1	35.4	18.0	1
GOLD COUNTRY/2726RR	104	35.9	17.6	2	34.7	17.9	1	35.3	17.8	1
LATHAM/L2336R	101	35.8	18.4	1	34.6	17.6	1	35.2	18.0	1
COYOTE/EXP624	102	36.3	18.0	1	33.9	18.3	1	35.1	18.2	1
RENK/RS253RR	102	35.8	17.8	1	34.4	18.3	1	35.1	18.1	1
PRAIRIE BR./PB-2625RR	101	35.7	17.8	1	34.2	17.5	1	35.0	17.7	1
KRUGER/K-233+RR	101	36.5	18.1	1	33.3	17.6	1	34.9	17.9	1
INTEGRA/PSI 96230RR	98	36.0	17.2	1	33.6	18.0	1	34.8	17.6	1
DAIRYLAND/DSR-234/RR	99	36.9	18.1	1	32.6	17.3	1	34.8	17.7	1
STINE/2688-4	102	36.4	18.4	2	33.1	18.1	1	34.8	18.3	1
NUTECH/NT-2707RR	102	36.7	17.1	1	32.7	17.4	1	34.7	17.3	1
INTEGRA/PSI 96260RR	102	36.5	17.3	1	32.9	17.8	1	34.7	17.6	1
PRAIRIE BR./PB-2385NRR	100	35.7	17.9	2	33.6	18.3	1	34.7	18.1	1
DAIRYLAND/DSR-2500/RR	101	35.5	17.7	1	33.8	17.8	1	34.7	17.8	1
KRUGER/K-270RR	102	34.9	18.5	3	34.2	18.1	1	34.6	18.3	2
PRAIRIE BR./PB-2205RR	101	36.5	17.7	1	32.6	18.4	1	34.6	18.1	1
EXPERIMENTAL/SD01-1135R	96	35.8	17.7	2	33.3	16.6	1	34.6	17.2	2
NUTECH/NT-2330RR	102	34.6	18.2	1	34.4	18.1	1	34.5	18.2	1
NUTECH/NT-2626RR	102	35.8	17.9	1	33.1	17.5	1	34.5	17.7	1
NUTECH/NT-2992RR	107	34.9	17.7	1	34.0	17.9	1	34.5	17.8	1
PRAIRIE BR./PB-2243RR	101	35.2	18.3	2	33.7	17.1	1	34.5	17.7	1
NUTECH/NT-2790RR	103	37.1	17.9	2	31.7	17.8	1	34.4	17.9	2
SANDS/EXP 2669RR	103	35.5	17.7	2	33.2	18.2	1	34.4	18.0	1
PRAIRIE BR./PB-2565RR	103	36.5	17.5	1	32.2	17.6	1	34.4	17.6	1
DYNA-GRO/EXP SX05123	97	36.1	16.8	1	32.6	17.4	1	34.4	17.1	1
MUSTANG/M-203RR	101	33.9	18.4	1	34.8	17.2	1	34.3	17.8	1
KRUGER/K-289+RR	105	35.9	18.4	2	32.8	17.1	1	34.3	17.8	1
DYNA-GRO/32C25	103	35.5	18.1	1	33.0	17.1	1	34.3	17.6	1
MUSTANG/M-226RR	98	36.1	17.1	1	32.3	18.6	1	34.2	17.9	1
LATHAM/EXP-E2450R	102	35.8	16.8	2	32.6	18.2	1	34.2	17.5	2
LATHAM/L2900R	105	35.2	18.2	1	33.2	17.1	1	34.2	17.7	1
PRAIRIE BR./PB-2343RR	101	35.7	17.3	2	32.6	17.5	1	34.2	17.4	1
MUSTANG/M-205RR	97	35.4	18.2	2	32.9	17.9	1	34.2	18.1	1
DAIRYLAND/DSR-2100/RR	100	36.9	16.9	1	31.4	16.5	1	34.2	16.7	1
PRAIRIE BR./PB-2345RR	97	35.8	16.8	1	32.5	18.1	1	34.2	17.5	1
PRAIRIE BR./PB-2421RR	101	35.4	18.7	2	32.8	19.0	1	34.1	18.9	1
SANDS/SOI 2754RR	104	34.7	18.8	2	33.4	18.0	1	34.1	18.4	1
NUTECH/NT-2424RR/SCN	99	35.2	18.4	1	32.9	18.4	1	34.1	18.4	1
KRUGER/EXP280RR	103	35.9	18.0	2	32.2	18.1	1	34.1	18.1	2
LATHAM/497RR	99	35.0	18.3	1	33.1	18.3	1	34.1	18.3	1
COYOTE/EXP922	100	35.4	17.9	1	32.5	17.9	1	34.0	17.9	1
SANDS/SOI 2673RR	103	34.4	18.5	2	33.5	18.1	1	34.0	18.3	2
DEKALB/DKB26-53	105	35.9	17.7	2	31.9	18.4	1	33.9	18.1	2
KRUGER/K-200RR	96	34.5	18.4	1	33.0	17.9	1	33.8	18.2	1

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Delmont			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THOMPSON/T-7206RR	99	34.5	18.6	1	32.9	18.1	1	33.7	18.4	1
THOMPSON/T-2919RR/SCN	107	35.0	18.4	2	32.4	18.0	1	33.7	18.2	2
EXPERIMENTAL/SD01-3025R	105	34.5	17.7	3	32.9	17.5	1	33.7	17.6	2
SANDS/SOI 2872RR	103	35.1	18.6	2	32.1	17.7	1	33.6	18.2	2
INTEGRA/PSI 96210RR	100	35.0	18.2	1	32.2	17.7	1	33.6	18.0	1
LATHAM/EXP-E2635R	103	34.2	15.5	2	32.9	18.2	1	33.6	16.9	1
NUTECH/NT-2990RR	106	35.2	18.0	2	31.8	19.1	1	33.5	18.6	2
PRAIRIE BR./PB-2141RR	102	33.6	18.8	1	33.4	18.6	1	33.5	18.7	1
PRAIRIE BR./PB-2643RR	106	33.5	18.5	2	33.5	17.9	1	33.5	18.2	1
SANDS/SOI 2169RR	96	35.5	18.2	2	31.4	18.0	1	33.5	18.1	1
SANDS/SOI 2467NRR	100	35.0	19.0	1	31.9	18.4	1	33.5	18.7	1
KRUGER/K-223+RR	99	34.0	18.2	1	32.9	17.4	1	33.5	17.8	1
COYOTE/4527RR	105	34.2	19.2	2	32.6	18.3	1	33.4	18.8	1
FARM ADVANTAGE/FA7244N	101	34.6	18.7	1	32.2	18.0	1	33.4	18.4	1
SANDS/SOI 2884RR	105	35.2	18.2	2	31.6	18.8	1	33.4	18.5	1
LATHAM/L2136R	100	33.3	18.5	1	33.5	17.0	1	33.4	17.8	1
NUTECH/NT-2324RR/SCN	101	34.7	18.8	1	31.9	18.9	1	33.3	18.9	1
RENK/RS265RR	103	34.0	18.4	1	32.6	18.2	1	33.3	18.3	1
EXPERIMENTAL/SDX02R-584	98	35.5	17.8	2	30.8	18.7	1	33.2	18.3	2
SANDS/SOI 2143RR	101	34.1	17.9	1	32.1	17.9	1	33.1	17.9	1
MUSTANG/M-264RR	104	32.8	18.6	1	33.2	17.3	1	33.0	18.0	1
SANDS/SOI 2448RR	102	34.0	19.1	1	32.0	18.1	1	33.0	18.6	1
NUTECH/NT-2890RR	105	34.5	18.6	2	31.5	17.9	1	33.0	18.3	2
FARM ADVANTAGE/FA 7264	106	35.1	18.1	2	30.8	18.2	1	33.0	18.2	2
INTEGRA/PSI 95200RR	97	34.5	19.1	1	31.3	18.9	1	32.9	19.0	1
INTEGRA/PSI 96280RR	105	34.5	18.5	2	31.3	18.2	1	32.9	18.4	1
PRAIRIE BR./PB-2183NRR	97	33.3	19.0	1	32.4	18.8	1	32.8	18.9	1
COYOTE/9524RR	102	34.0	18.8	1	31.0	18.8	1	32.5	18.8	1
SANDS/SOI 2151NRR	97	33.1	19.2	1	31.9	17.7	1	32.5	18.5	1
EXPERIMENTAL/SDX00R-035-56	102	34.0	17.8	2	31.0	17.4	1	32.5	17.6	2
DYNA-GRO/31N27	105	33.3	18.6	1	31.5	18.6	1	32.4	18.6	1
DAIRYLAND/DSR-2600/RR	100	33.5	18.4	1	30.7	18.3	1	32.1	18.4	1
ASGROW/AG2403	102	33.8	19.2	1	29.6	19.3	1	31.7	19.3	1
DEKALB/DKB25-51	104	33.0	18.6	2	29.3	19.3	1	31.2	19.0	1
EXPERIMENTAL/SDX00R-039-42	102	33.0	18.0	2	28.4	18.2	1	30.7	18.1	2
ASGROW/AG2107	100	.	.	.	33.4	18.0	1	.	.	.
ASGROW/AG2205	96	.	.	.	34.8	16.1	1	.	.	.
COYOTE/4523RR	101	36.2	17.5	1	.	.	.	.	.	.
MUSTANG/M-201RR	104	34.0	19.0	1	.	.	.	.	.	.
MUSTANG/M-284RR	104	37.3	17.2	1	.	.	.	.	.	.
MUSTANG/M-286NRR	104	35.6	17.7	2	.	.	.	.	.	.
DEKALB/DKB22-52	104	34.5	18.1	2	.	.	.	.	.	.
KALTENBERG/KB241RR	104	35.4	17.9	1	.	.	.	.	.	.
KALTENBERG/KB248RR	101	36.0	17.6	2	.	.	.	.	.	.
KALTENBERG/KB256RR	104	36.5	18.0	2	.	.	.	.	.	.
KALTENBERG/KB276RR	107	34.3	18.5	2	.	.	.	.	.	.
STINE/2116-4	97	.	.	.	33.7	17.9	1	.	.	.
STINE/2402-4	100	35.1	18.0	2	.	.	.	.	.	.
STINE/2743-4	108	.	.	.	32.6	18.3	1	.	.	.
ZILLER/BT 7215R	101	34.9	19.0	1	.	.	.	.	.	.
ZILLER/BT 7236R	102	36.0	17.3	2	.	.	.	.	.	.

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Delmont			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THOMPSON/T-3100RR	108	35.0	18.0	1	.	.	.	.	.	.
THOMPSON/T-3101RR	108	35.1	17.5	2	.	.	.	.	.	.
Test avg. :	102	35.2	18.0	1	32.8	17.8	1	34.0	17.9	1
High avg. :	108	38.1	19.2	3	36.0	19.3	1	36.9	19.3	2
Low avg. :	96	32.8	15.5	1	28.4	15.8	1	30.7	16.3	1
* Lsd(.05) :				1			NS			
## TPG-avg. :				1			1			
@ Coef. Var. :				31			0			
No. Entries :		99	99	99	89	89	89			

* DTM= average days from seeding (Beresford- June 16, Delmont- June 20, 2005) 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 are not significant (NS), NS is indicated.

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

Table D. 2005 Conventional soybean entries by brand/variety, maturity group, gene for *Phytophthora* root rot resistance, and performance table number(s).

Brand / Variety	Mat.	Gene	Table
	Grp.		No.(s)
COYOTE/5525	II	Rps1k	9
FARM ADVANTAGE/FA 1846	I	Not Reported	11
FARM ADVANTAGE/FA2145N	II	Not Reported	11
GOLD COUNTRY/2318	I	rps - None	9
LATHAM/EXP-E2400	II	rps - None	9
LATHAM/L1763	I	rps - None	9
LATHAM/L1840	I	rps - None	9
PUBLIC VARIETIES & EXPERIMENTALS:			
PUBLIC/HAMLIN	0	Rps1k	8
EXPERIMENTAL/SD00-1391	I	Not Reported	8,9
EXPERIMENTAL/SD00-1413	II	Not Reported	9
EXPERIMENTAL/SD00-1455	I	Not Reported	8,9
EXPERIMENTAL/SD00-1501	0	Not Reported	8
EXPERIMENTAL/SD00-1962	I	Not Reported	8,9
EXPERIMENTAL/SD00-314	II	Not Reported	9
EXPERIMENTAL/SD00-405	I	Not Reported	8,9
EXPERIMENTAL/SD00-533	I	Not Reported	8,9
EXPERIMENTAL/SD00-632	I	Not Reported	8,9
EXPERIMENTAL/SD00-732	II	Not Reported	9
EXPERIMENTAL/SD02-1045	0	Not Reported	8
EXPERIMENTAL/SD02-14	I	Not Reported	8,9
EXPERIMENTAL/SD02-22	II	Not Reported	9
EXPERIMENTAL/SD02-26	II	Not Reported	9
EXPERIMENTAL/SD02-829	0	Not Reported	8
EXPERIMENTAL/SD02-847	I	Not Reported	8,9
EXPERIMENTAL/SD02-906	I	Not Reported	8,9
EXPERIMENTAL/SD98-99-2	II	Not Reported	9
EXPERIMENTAL/SD99-1909	0	Not Reported	8
EXPERIMENTAL/SDX98-74331	I	Not Reported	8,9
EXPERIMENTAL/SDX98-76192	0	Not Reported	8
EXPERIMENTAL/SDX98-82302	0	Not Reported	8
PUBLIC/SPINK	0	Rps1 (Rps1a)	8
PUBLIC/SURGE	0	Rps1 (Rps1a)	8
SANDS/SOI 256	II	Not Reported	9
SANDS/SOI 288	II	Not Reported	9

Note: Strain or race resistance by gene type is reported in table B.

Table 8a. Non-Roundup Ready maturity group-0 and -I soybean variety yield averages- South Shore, South Dakota, 2004-2005.

Brand/Variety (By maturity group & 2005 yield)	DTM*	Averages by Maturity Group			
		MG-0		MG-I	
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr
EXPERIMENTAL/SD99-1909	115	45	36	.	.
EXPERIMENTAL/SD02-829	112	44	.	.	.
PUBLIC/SURGE	111	44	34	.	.
PUBLIC/HAMLIN	111	43	35	.	.
EXPERIMENTAL/SDX98-76192	115	41	.	.	.
PUBLIC/SPINK	110	40	31	.	.
EXPERIMENTAL/SD02-1045	117	40	.	.	.
EXPERIMENTAL/SD00-1501	112	39	.	.	.
EXPERIMENTAL/SDX98-82302	115	37	.	.	.
GOLD COUNTRY/2318	120	.	.	52	.
EXPERIMENTAL/SD00-632	118	.	.	45	.
EXPERIMENTAL/SD02-14	119	.	.	45	.
EXPERIMENTAL/SD02-906	118	.	.	45	.
EXPERIMENTAL/SD00-533	117	.	.	44	35
EXPERIMENTAL/SD00-1391	117	.	.	43	.
EXPERIMENTAL/SD02-847	118	.	.	43	.
EXPERIMENTAL/SD00-405	110	.	.	41	.
EXPERIMENTAL/SD00-1455	118	.	.	40	.
EXPERIMENTAL/SD00-1962	118	.	.	39	.
EXPERIMENTAL/SDX98-74331	120	.	.	39	34
Test avg.:	115	41	34	43	35
High avg.:	120	45	36	52	35
Low avg. :	110	37	31	39	34
# Lsd (.05):		4	4	5	NS
## TPG-value:		41	32	47	34
@ Coef. Var.:		5	7	7	11
No. Entries:		9	4	11	2

* DTM= average days from seeding on May 25, 2005 to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = 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, 2005.

Brand/Variety (By maturity group & protein)	DTM*	2005 Averages by Maturity Group					
		MG-0			MG-I		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging** (1-5)
EXPERIMENTAL/SDX98-82302	115	42.5	14.5	2	.	.	.
EXPERIMENTAL/SD00-1501	112	40.7	15.7	1	.	.	.
EXPERIMENTAL/SDX98-76192	115	40.5	16.1	2	.	.	.
EXPERIMENTAL/SD99-1909	115	38.5	16.4	1	.	.	.
PUBLIC/SURGE	111	38.0	17.0	1	.	.	.
PUBLIC/HAMLIN	111	37.4	17.3	1	.	.	.
EXPERIMENTAL/SD02-829	112	36.9	16.8	1	.	.	.
EXPERIMENTAL/SD02-1045	117	36.9	17.0	1	.	.	.
PUBLIC/SPINK	110	35.2	18.0	1	.	.	.
EXPERIMENTAL/SDX98-74331	120	.	.	.	41.0	15.9	1
EXPERIMENTAL/SD00-1455	118	.	.	.	40.5	16.1	2
EXPERIMENTAL/SD00-1962	118	.	.	.	40.1	14.9	1
GOLD COUNTRY/2318	120	.	.	.	38.3	17.0	1
EXPERIMENTAL/SD00-1391	117	.	.	.	38.0	17.0	1
EXPERIMENTAL/SD00-405	110	.	.	.	37.9	16.8	1
EXPERIMENTAL/SD02-847	118	.	.	.	37.8	16.8	2
EXPERIMENTAL/SD00-632	118	.	.	.	37.5	16.0	2
EXPERIMENTAL/SD02-14	119	.	.	.	37.2	16.5	1
EXPERIMENTAL/SD00-533	117	.	.	.	36.7	16.9	1
EXPERIMENTAL/SD02-906	118	.	.	.	36.0	18.0	1
Test avg. :	115	38.5	16.5	1	38.3	16.5	1
High avg. :	120	42.5	18.0	2	41.0	18.0	2
Low avg. :	110	35.2	14.5	1	36.0	14.9	1
* Lsd(.05) :				1			
## TPG-avg. :				1			
@ Coef. Var. :				28			
No. Entries :		9	9	9	11	11	11

* DTM= average days from seeding on May 25, 2005 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-avg. = minimum or maximum value to qualify for top performance group.

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

Table 9a. Non-Roundup Ready maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2004-2005.

Brand/Variety (By maturity group & 2005 yield)	DTM*	Averages by Maturity Group			
		MG-I		MG-II	
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr
LATHAM/L1840	126	52	60	.	.
LATHAM/L1763	123	48	58	.	.
EXPERIMENTAL/SD02-847	121	48	.	.	.
EXPERIMENTAL/SD02-906	123	48	.	.	.
EXPERIMENTAL/SD00-1962	123	47	.	.	.
EXPERIMENTAL/SD00-632	125	46	.	.	.
EXPERIMENTAL/SDX98-74331	125	45	50	.	.
EXPERIMENTAL/SD00-1391	121	44	.	.	.
EXPERIMENTAL/SD00-1455	121	44	.	.	.
EXPERIMENTAL/SD02-14	125	43	.	.	.
EXPERIMENTAL/SD00-533	122	36	45	.	.
EXPERIMENTAL/SD00-405	119	35	.	.	.
EXPERIMENTAL/SD02-22	126	.	.	48	.
SANDS/SOI 256	127	.	.	45	55
LATHAM/EXP-E2400	128	.	.	45	.
COYOTE/5525	133	.	.	43	56
EXPERIMENTAL/SD02-26	129	.	.	43	.
EXPERIMENTAL/SD98-99-2	129	.	.	42	54
SANDS/SOI 288	130	.	.	41	55
EXPERIMENTAL/SD00-314	125	.	.	41	46
EXPERIMENTAL/SD00-732	126	.	.	40	52
EXPERIMENTAL/SD00-1413	126	.	.	38	.
Test avg. :	125	45	53	43	53
High avg. :	133	52	60	48	56
Low avg. :	119	35	45	38	46
# Lsd (.05) :		7	9	5	NS
## TPG-avg. :		45	51	43	46
@ Coef. Var. :		10	8	7	6
No. Entries :		12	4	10	6

* DTM= average days from seeding on June 16, 2005 to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = 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-I & -II soybean variety protein, oil, and lodging score averages- Beresford, South Dakota, 2005.

Brand/Variety (By maturity group & protein)	DTM*	2005 Averages by Maturity Group					
		MG-I			MG-II		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging** (1-5)
EXPERIMENTAL/SD00-1455	121	39.4	18.2	1	.	.	.
EXPERIMENTAL/SDX98-74331	125	39.0	17.4	1	.	.	.
EXPERIMENTAL/SD00-1962	123	38.3	17.2	1	.	.	.
EXPERIMENTAL/SD00-1391	121	37.1	18.7	2	.	.	.
EXPERIMENTAL/SD00-405	119	36.4	18.6	1	.	.	.
EXPERIMENTAL/SD02-847	121	35.9	18.3	1	.	.	.
LATHAM/L1840	126	35.8	19.1	1	.	.	.
EXPERIMENTAL/SD00-533	122	35.4	17.5	2	.	.	.
EXPERIMENTAL/SD00-632	125	35.3	17.8	1	.	.	.
EXPERIMENTAL/SD02-906	123	34.6	19.0	1	.	.	.
LATHAM/L1763	123	34.5	19.0	1	.	.	.
EXPERIMENTAL/SD02-14	125	34.2	18.3	2	.	.	.
EXPERIMENTAL/SD00-1413	126	.	.	.	38.3	17.5	1
EXPERIMENTAL/SD00-732	126	.	.	.	35.2	19.0	1
EXPERIMENTAL/SD02-26	129	.	.	.	35.2	17.5	1
LATHAM/EXP-E2400	128	.	.	.	35.1	19.0	1
EXPERIMENTAL/SD02-22	126	.	.	.	33.9	18.1	1
SANDS/SOI 256	127	.	.	.	33.8	18.9	1
COYOTE/5525	133	.	.	.	33.2	18.2	2
EXPERIMENTAL/SD00-314	125	.	.	.	32.8	20.0	1
EXPERIMENTAL/SD98-99-2	129	.	.	.	31.7	19.7	1
SANDS/SOI 288	130	.	.	.	31.1	18.4	1
Test avg. :	125	36.3	18.3	1	34.0	18.6	1
High avg. :	133	39.4	19.1	2	38.3	20.0	2
Low avg. :	119	34.2	17.2	1	31.1	17.5	1
* Lsd(.05) :				1			1
## TPG-avg. :				1			1
@ Coef. Var. :				35			23
No. Entries :		12	12	12	10	10	10

* DTM= average days from seeding on June 16, 2005 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 are not significant (NS), NS is indicated.

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

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

Table E. Mailing addresses of seed companies entered in the 2005 soybean trials.

Company Name	Brand Name	Mailing Address
Coyote Seed Mills	Coyote	PO Box 16, Bridgewater, SD 57319-0016
Dairyland Seed Co.,Inc.	Dairyland	3570 Hwy H, West Bend, WI 53095
Dyna-Gro	Dyna-Gro	Emmetsburg, IA 50536
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
Hefty Seed Co.	Hefty	47504 252nd St., Baltic, SD 57003
Integra Seed LTD	Integra	PO Box 40, Bozeman, MT 59771
Kaltenberg Seeds	Kaltenberg	5506 State Rd 19, Box 278, Waunakee, WI 53597
Keltgen Inc.	Agventure	302 Spruce St., Henry, SD 57243
Kruger Seed Co.	Kruger	33938 160th Ave.,PO Box A, Dike, IA 50624
Latham Seed Co.	Latham	131 180th St, Alexander, IA 50420-8028
Monsanto	Asgrow & Dekalb	4312 Carol Ave., Courtland, IL 60112
Mustang Seeds	Mustang	45122 Herman Blvd., Madison, SD 57042
Northstar Genetics	Northstar	Box 40, Wanamingo, MN 56553
Nutech Seed, LLC	Nutech	6131 North Fork Rd., Ames, IA 50010
Renk Seed Co.	Renk	6800 Wilburn Rd., Sun Prairie, WI 53590
Sansgaard Seed Farm, Inc.	Prairie Brand	15 X Ave., Story City, IA 50248
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
Thompson Seeds	Thompson	40321 130th Ave., Leland, IA 50453
Thunder Seed	Thunder	3008 210th St. W., Hawley, MN 56549-9433
Wensman Seed Co.	Wensman	PO Box 190, Wadena, MN 56482
Ziller Seed Co.Inc.	Ziller	76374 380th St., Bird Island, MN 55310

