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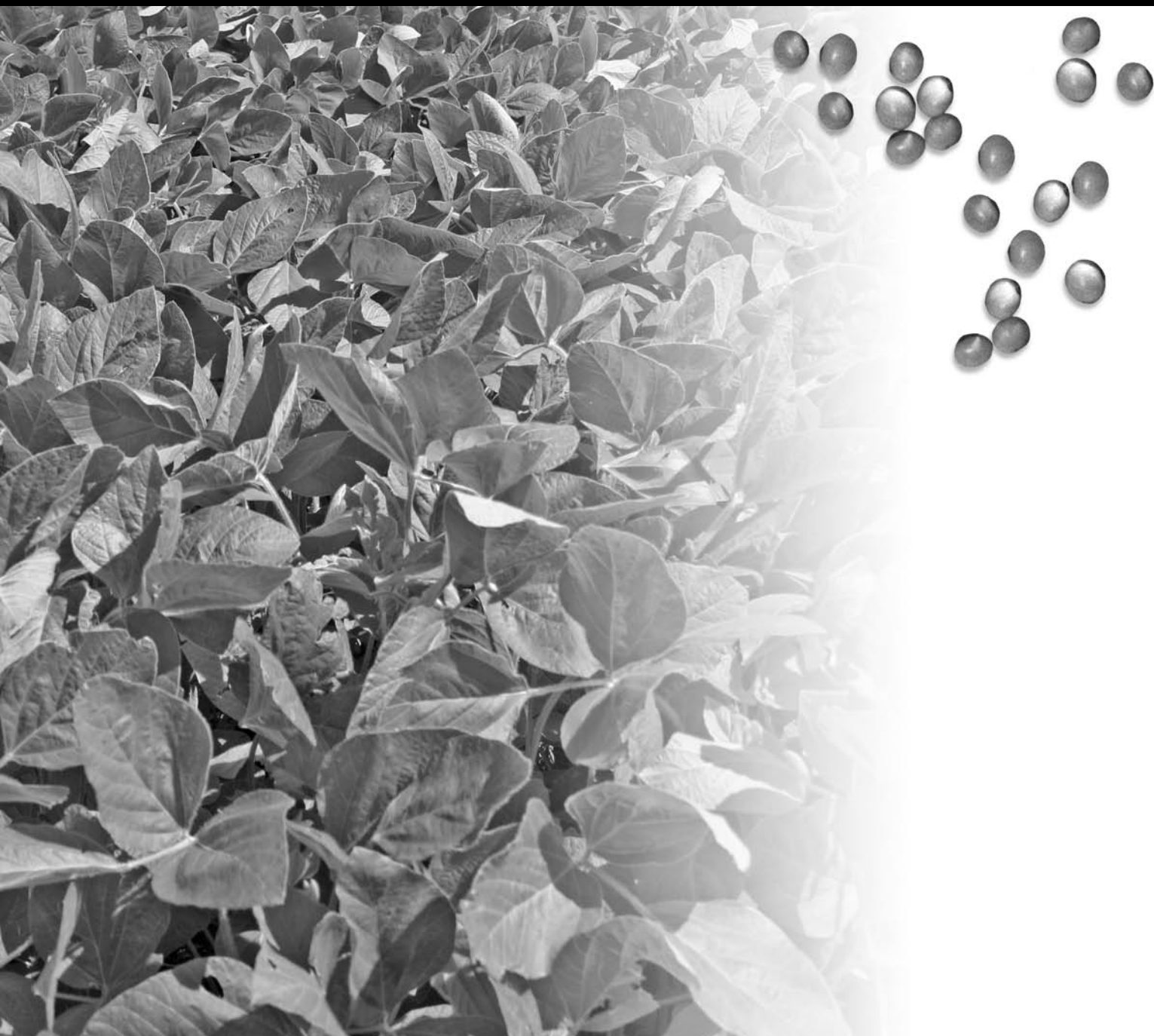
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SOYBEAN

Variety Performance Trials-2006 Results



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**EC 775—Precision Planted Soybeans 2006 Crop Performance Results
is available electronically on the internet
<http://agbiopubs.sdstate.edu/articles/EC775-06.pdf>**



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SOYBEAN

Variety Performance Trials-2006 Results

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- Table A - Nearest station precipitation and temperature averages and departures from normal for 2006.
- Table B - Description of test locations.
- Table C - Gene race resistance to *Phytophthora* root rot.
- Table D - Roundup Ready™ entries with yield table numbers.
- Table E - Non-Roundup Ready™ entries with yield table numbers.
- Table F - Entrants (brand name) mailing addresses (after yield tables).

Successful soybean production is greatly affected by variety selection for a given growing area. This publication reports the agronomic performance of entries in the 2006 South Dakota performance trials for conventional 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 that are adapted to maturity zones. Maturity zones are based on day length and are therefore greatly impacted by latitude. Consequently, maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. Groups III through VIII are suited to Iowa, Nebraska, and southward into Texas.

These soybean performance trial results are reported according to the prevalent maturity zones in South Dakota (see map). The Roundup-Ready™ soybean variety trials are conducted in the following test zones 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 Geddes.

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.

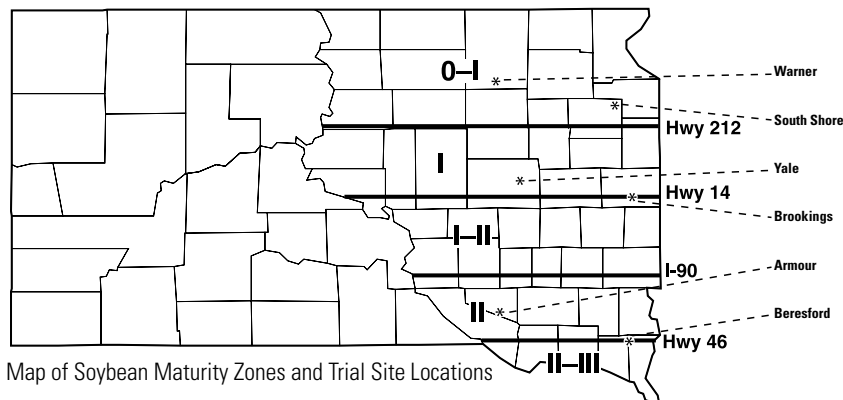
Plant Science Research Farm, Brookings, maturity group-0, -I, and -II trials

Southeast South Dakota Experiment Station, 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 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 in South Dakota and is often controlled or managed by using resistant varieties. However, the resistance to *Phytophthora* root rot is fungus-race specific. This means resistance to one race does not necessarily impart resistance to other races. Knowledge of the races of PRR fungus prevalent in your area is helpful. If 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. Inoculation must be practiced if soybeans are seeded in soils not previously planted to 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 bushels, Variety B yields 25 bushels, and the calculated Lsd value is 4 bushels. The yield difference between varieties A and B is 5 bushels per acre. Since the yield difference of 5 bushels is greater than the test Lsd value of 4 bushels, the yield of Variety A (30 bushels) is significantly higher than the yield of Variety B (25 bushels). In contrast, if Variety A yielded 28 bushels and Variety B yielded 25 bushels, the yield difference would be 3 bushels per acre. In this case, both varieties would have a similar yield because their yield difference of 3 bushels was less than the test Lsd value of 4 bushels per acre.

Use Lsd values to identify the best-yielding varieties. The Lsd value indicated at the bottom of each yield column is used to calculate the **minimum top yield value**. For example, if the highest yield within a column is 50 bushels and the Lsd value for that yield column is 5 bushels, then the minimum top yield value equals 45 bushels ($50 - 5 = 45$). Within a yield column, varieties with yields equal to or higher than this minimum top yield value are the best yielding varieties.

Entries in all tables are sorted from highest to lowest values according to the variable(s) listed in the Brand/Variety column of each performance table. Note: Entries tested for 2 years may also have a top yield group value in the 2006 yield column.

Participating companies pick the locations where their entries are tested. Entries are placed into maturity group-0, -I, or -II test trials. The company selects the maturity group trial for its entries at each location.

Generally, each company has one or more maturity group checks for the varieties it markets. However, there are no standard regional or national check varieties for maturity. Consequently, a late group-I variety from one company may be similar in maturity to an early group-I variety from another company because they use different check varieties for maturity. As a result, this testing program can not guarantee that all entries are placed in the proper maturity trial. In some trials, borderline entries with maturity group ratings at or near the arbitrary breaks between the late group-0s and early group-Is and between the late group-Is and early-group-IIIs 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 then 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.

It is recommended that you 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 rating 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; T. Bortnem and staff, Plant Science Research Farm, Brookings; and R. Berg and staff, Southeast Experiment 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 are appreciated.

In addition, the assistance and cooperation of our farmer co-operators, Allen and Inel Ryckman, Warner; Curtis Sybesma, Geddes; and Erland Weerts, Bancroft, is gratefully acknowledged.

Protein and Oil Content

The protein and oil values reported are for the 2006 cropping season. At all locations, one subsample from each replication (three subsamples total) of every variety in each trial was combined and a sample was then tested for protein and oil. The analysis was conducted using a FOSS TECATOR Model Infratec 1229 grain analyzer that was calibrated using the manufacturer's calibration software. Samples of known protein and oil that had been tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory were then used to verify the software calibration. All protein and oil values are adjusted to a 13% moisture basis.

Weather and Seasonal Precipitation

A best estimate of seasonal precipitation and its distribution is shown in Table A. Growing season precipitation was near normal at all locations in April. However, most locations received below-average rainfall starting in May and continuing through the end of July. In August many locations received normal to above-average levels of rainfall, but in most cases this rainfall came during the latter half of August.

At some locations like Brookings, the later maturity group varieties performed better than the early maturity varieties because they caught a rainfall before development of their early reproductive stages had ceased. Consequently, the later-season varieties were unable to compensate for any earlier season losses in yield potential while the early season varieties that had already ceased reproductive development were unable to compensate for losses in yield potential.

Generally, the average seasonal temperatures were warmer than normal in April and near normal in May. At Aberdeen and Huron, the seasonal temperatures were about 2°F higher than average in June. In July, average temperatures ranged from a low of 3.3°F at Beresford and Brookings to 5.5 (Academy) and 6.6°F (Huron) above the long-term location average.

General Test Procedures

These test procedures generally apply to both conventional non-Roundup Ready and Roundup Ready™ soybean entries except for the chemical weed control imposed. Trial locations, soil type, tillage method, previous crop, pesticide usage, and seeding dates are indicated in Table B.

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 consisted of 4-row plots, 20 feet long, with three replications at all locations. Seeding at all locations was accomplished with 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 by a Massey Ferguson 8XP small plot combine.

Reporting variety maturity: Variety maturity is reported as “Days to maturity” or DTM. Entries were mature when 95% of

the pods had 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.

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

Phytophthora: The gene resistance traits of entries to the many *Phytophthora* races was supplied by the participating seed company (proprietary entries) or obtained from the USDA, Uniform Soybean Tests, Northern States (public entries). A key for each type of *Phytophthora* gene and the race resistance it imparts to a variety is indicated in Table C. 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 D (Roundup Ready™) and E (non-Roundup Ready) and referencing the gene type to table C 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 2006 averages or 2-year averages (2005-06).

NORTHERN TEST ZONE

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

South Shore, Group-0 (Tables 1a & 1b): The 2006 and 2-year test yield averages were 30 and 40 bushels per acre, respectively (Table 1a). Varieties had to average 30 bushels or higher to be in the top yield group for 2006. Varieties had to average 36 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different, while yield averages for 2 years were not significantly different. The 2006 protein, oil, and lodging score test averages were 37.1%, 18.9% and 1, respectively (Table 1b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries.

Warner, Group-0 (Tables 1a & 1b): The 2006 and 2-year test yield averages were 33 and 42 bushels per acre, respectively (Table 1a). Varieties had to average 36 bushels or higher to be in the top yield group for 2006. Varieties had to average 39 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2006 to be significantly different, while yield averages for 2 years were not significantly different. In 2006, the protein, oil, and lodging score test averages were 36.2%, 19.7%, and 1, respectively (Table 1b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries.

Northern test zone, Group-0 (Tables 1a & 1b): The 2006 and 2-year test yield averages in the northern zone were 32 and 41 bushels per acre, respectively (Table 1a). Varieties had to average 36 bushels or higher to be in the top yield group for 2006 and 42 bushels or higher to be in the top yield group for 2 years.

Variety yield averages had to differ by 3 bushels in 2006 to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.6%, 19.3%, and 1, respectively, across both locations (Table 1b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries across both locations.

South Shore, Group-I (Tables 2a & 2b): The 2006 and 2-year test yield averages were 27 and 37 bushels per acre, respectively (Table 2a). Varieties had to average 28 bushels and 34 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 4 bushels in 2006 to be in the top performance group for yield, while the 2-year averages were not significantly different. The 2006 protein, oil, and lodging score test averages were 37.0%, 18.2%, and 1, respectively (Table 2b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries.

Warner, Group-I (Tables 2a & 2b): The 2006 and 2-year test yield averages were 34 and 42 bushels per acre, respectively (Table 2a). Varieties had to average 24 bushels and 36 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different, while the yield averages for 2 years did not differ significantly. The 2006 protein, oil, and lodging score test averages were 36.1%, 19.5%, and 1, respectively (Table 2b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries.

Northern test zone, Group-I (Tables 2a & 2b): The yield averages were 31 and 40 bushels per acre for 2006 and for 2 years, respectively (Table 2a). Varieties had to average 33 bushels or higher in 2006 to be in the top yield group. Yield differences for 2 years could not be determined because of the high coefficient of variation (CV) of 29% for this zone. The high level of experimental error associated with this trial for 2 years indicated

any yield differences among varieties were not valid. Variety yield averages had to differ by 3 bushels in 2006 to be significantly different from one another. Again, the high CV associated with the 2-year yields prevented a valid determination of how much any two varieties had to differ in yield to be significantly different across both locations. The 2006 protein, oil, and lodging score test averages were 36.5%, 19.1%, and 1, respectively, across both locations (Table 1b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries across both locations.

CENTRAL TEST ZONE

BROOKINGS, Plant Science Research Farm
BANCROFT, No-till, Erland Weerts (cooperator)

Note: The Bancroft trials were hit with hail on July 13, 2006. This resulted in 40-50% defoliation of the stands.

Brookings, Group-0 (Tables 3a & 3b): The 2006 and 2-year test yield averages were 51 and 58 bushels per acre, respectively (Table 3a). Varieties had to average 53 bushels or higher to be in the top yield group for 2006. Varieties had to average 57 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2006 and for 2 years to be significantly different. The 2006 protein, oil, and lodging score test averages were 37.3%, 19.0%, and 1, respectively (Table 3b). Lodging score averages had to equal 1 to be in the top performance group. The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Bancroft, Group-0 (Tables 3a & 3b): The yield average was 45 for 2006 and 55 bushels for 2 years (Table 3a). Varieties had to average 43 and 51 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different. In contrast, there were no significant yield differences among the varieties for the 2-year period. The 2006 protein, oil, and lodging score test averages were 36.3%, 19.9%, and 1, respectively (Table 3b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Central test zone, Group-0 (Tables 3a & 3b): The 2006 yield average was 48 bushels and the 2-year average was 57 bushels per acre (Table 3a). Varieties had to average 49 and 52 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 4 bushels in 2006 to be significantly different, while for the 2-year period all the varieties had a similar yield average across both locations. In 2006 the protein, oil, and lodging score test averages were 36.8%, 19.4%, and 1, respectively, across both locations (Table 3b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries across both locations.

Brookings, Group-I (Tables 4a & 4b): The 2006 and 2-year test yield averages were 54 and 61 bushels per acre, respectively (Table 4a). Varieties had to average 55 and 62 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 5 bushels in 2006 and 3 bushels for 2 years to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.2%, 18.9%, and 1,

respectively (Table 4b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Bancroft, Group-I (Tables 4a & 4b): The yield average was 54 and 60 bushels per acre for 2006 and for 2 years, respectively (Table 4a). In both 2006 and for 2 years there were no significant yield differences among the varieties tested. This was likely affected greatly by the hail at this test site on July 13, 2006, resulting in a 40 to 50% loss of leaves. This would have affected the ability of the test to determine any difference in yield among the varieties entered in 2006 and in the 2-year period. In 2006, the protein, oil, and lodging score test averages were 35.9%, 19.9%, and 1, respectively (Table 4b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Central test zone, Group-I (Tables 4a & 4b): The yield average was 55 and 61 bushels per acre in 2006 and for 2 years, respectively (Table 4a). Varieties had to average 53 and 55 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 7 bushels in 2006 to be significantly different; while there was no significant difference in yield average among the varieties for 2 years. The 2006 protein, oil, and lodging score test averages were 36.1%, 19.4%, and 1, respectively, across both locations (Table 4b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries across both locations.

Brookings, Group-II (Tables 5a & 5b): The 2006 and 2-year test yield averages were 56 and 63 bushels per acre, respectively (Table 5a). Varieties had to average 57 bushels or higher in 2006 and 61 bushels or higher for 2 years to be in the top yield group. In 2006, the protein, oil, and lodging score test averages were 36.4%, 18.9%, and 1, respectively (Table 5b). Lodging score averages had to be 2 or less to be in the top performance group. The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Bancroft, Group-II (Tables 5a & 5b): Yield average was 52 and 62 bushels per acre in 2006 and for 2 years, respectively (Table 5a). Varieties had to average 43 bushels or higher to be in the top yield group for 2006. In both years there were no significant yield differences among the varieties tested. This was likely caused by the hail at this test site on July 13, 2006. The 40 to 50% loss of leaves would have affected the ability of the test to determine any difference in yield among the varieties entered in 2006 and for the 2-year period. The 2006 protein, oil, and lodging score test averages were 36.1%, 19.5%, and 1, respectively (Table 5b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Central test zone, Group-II (Tables 5a & 5b): The 2006 yield average was 55 and 63 bushels per acre for 2006 and for 2 years, respectively (Table 5a). Yield differences among varieties were not significant for 2006 or for the 2-year period. This lack of yield difference across both locations was likely affected by the hail event at Bancroft in 2006. In 2006, the protein, oil, and lodging score test averages were 36.2%, 19.2%, and 1, respectively, across both locations (Table 5b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries across both locations.

SOUTHERN TEST ZONE

BERESFORD, South Dakota Agricultural Experiment Station
Farm

GEDDES, No-till, Curtis Sybesma (cooperator)

Note: The test site at Delmont in 2005 was moved to Geddes in 2006.

Beresford, Group-I (Tables 6a & 6b): The 2006 and 2-year test yield averages were 61 and 56 bushels per acre, respectively (Table 6a). Varieties had to average 62 bushels or higher to be in the top yield group. There were no significant yield differences among varieties for 2 years so all varieties were in the top yield group. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different from one another. The 2006 protein, oil, and lodging score test averages were 36.6%, 19.7%, and 2, respectively (Table 6b). Lodging was evident and entries with a lodging score of 2 or less were in the top performance group for resistance to lodging.

Geddes, Group-I (Tables 6a & 6b): The 2006 and 2-year test yield averages were 46 and 36 bushels per acre, respectively (Table 6a). Varieties had to average 48 bushels or higher in 2006 and 35 bushels or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bushels in 2006 and 6 bushels for two years to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.9%, 19.7%, and 1, respectively (Table 6b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Southern test zone, Group-I (Tables 6a & 6b): The 2006 and 2-year test yield averages in the Southern zone were 53 and 46 bushels per acre, respectively (Table 6a). Varieties had to average 57 bushels or higher in 2006 to be in the top yield group; while there were no significant yield differences among varieties for 2 years. Variety yield averages had to differ by 3 bushels in 2006 to be significantly different. In contrast, for the 2-year period a high CV indicated there was too much experimental error associated with the 2-year data across both locations to make a valid determination of yield differences among the entries. The 2006 protein, oil, and lodging score test averages were 36.8%, 19.7%, and 1, respectively, across both locations (Table 6b). The lodging

score average of 1 and Lsd value of 0.4 (less than 1) indicated that some lodging occurred and those entries with a score of 1 were in the top performance group for resistance to lodging.

Beresford, Group-II (Tables 7a & 7b): The 2006 and 2-year test yield averages were 63 and 59 bushels per acre, respectively (Table 7a). Varieties had to average 69 bushels or higher in 2006 and 60 bushels for 2 years to be in the top yield group. Variety yield averages had to differ by 7 bushels in 2006 and 6 bushels for 2 years to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.4%, 19.3%, and 2, respectively (Table 7b). The lodging score top performance group value of 2 indicates varieties with a score of 2 or less were in the top group for lodging resistance.

Geddes, Group-II (Tables 7a & 7b): The 2006 and 2-year test yield averages were 45 and 36 bushels per acre, respectively (Table 7a). Varieties had to average 46 bushels or higher in 2006 and 36 bushels or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bushels in both 2006 and for 2 years to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.5%, 19.5%, and 1, respectively (Table 7b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Southern test zone, Group-II (Tables 7a & 7b): The 2006 and 2-year test yield averages in the Southern zone were 54 and 48 bushels per acre, respectively (Table 7a). Varieties had to average 58 bushels or higher in 2006 to be in the top yield group. Variety yield averages had to differ by 4 bushels in 2006 to be significantly different from one another. Valid yield differences for the 2-year period across both locations could not be determined. The high CV of 19% indicated there was too much experimental error associated with this trial to make valid determinations. Therefore, growers are encouraged to look at both the 2006 and the 2-year yield averages at each location separately to evaluate average yield trends at a given location. The 2006 protein, oil, and lodging score test averages were 36.4%, 19.4%, and 1, respectively across both locations (Table 7b). The lodging score average of 1 and Lsd value of 0.4 (less than 1) indicated that some lodging occurred and those entries with a score of 1 were in the top performance group for lodging resistance.

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 2006 averages or 2-yr averages (2005-06).

South Shore, Group-0 (Tables 8a & 8b): The 2006 and 2-year test yield averages were 24 and 33 bushels per acre, respectively (Table 8a). Varieties had to average 28 bushels or higher in 2006 and 33 bushels or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 3 bushels in 2006 to be significantly different; while there were no significant differences in yield among the varieties tested 2 years. The 2006 protein, oil, and lodging score test averages were 37.3%, 18.9%, and 1, respectively (Table 8b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

South Shore, Group-I (Tables 8a & 8b): The 2006 and 2-year test yield averages were 23 and 34 bushels per acre, respectively (Table 8a). Varieties had to average 23 bushels or higher in 2006 and 33 bushels or higher for 2 years to be in the top performance group for yield. Variety yield averages had to differ by 3 bushels or more in 2006 to be significantly different. There was no difference in yield among the three varieties tested for 2 years. The 2006 protein, oil, and lodging score test averages were 36.3%, 19.0%, and 1, respectively (Table 8b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Brookings, Group-0 (Tables 9a & 9b): The 2006 test yield average was 37 bushels per acre (Table 9a). Varieties had to average 36 bushels or higher in 2006 to be in the top yield group. The 2006 protein, oil, and lodging score test averages were 37.3%, 19.0%, and 1, respectively (Table 9b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries at this location.

Brookings, Group-I (Tables 9a & 9b): The 2006 test yield average was 45 bushels per acre (Table 9a). Varieties had to

average 46 bushels or higher in 2006 to be in the top performance group for yield. Variety yield averages had to differ by 6 bushels or more in 2006 to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.6%, 18.8%, and 1, respectively (Table 9b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Brookings, Group-II (Tables 9a & 9b): The 2006 and 2-year test yield averages were 48 bushels per acre (Table 9a). Varieties had to average 46 bushels or higher in 2006 to be in the top yield group. Variety yield averages had to differ by 6 bushels in 2006 to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.4%, 18.5%, and 1, respectively (Table 9b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Beresford, Group-I (Tables 10a & 10b): The 2006 and 2-year test yield averages were 55 and 52 bushels per acre, respectively (Table 10a). Varieties had to average 55 bushels or higher in 2006 and 52 bushels or higher for 2 years to be in the top performance group for yield. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different, while there were no significant yield differences among the entries for 2 years. The 2006 protein, oil, and lodging score test averages were 36.4%, 19.8%, and 3, respectively (Table 10b). The lodging score top performance group value of 2 indicates varieties with a score of 2 or less were in the top group for lodging resistance.

Beresford, Group-II (Tables 10a & 10b): The 2006 and 2-year test yield averages were 61 and 52 bushels per acre, respectively (Table 10a). Varieties had to average 62 bushels or higher in 2006 and 50 bushels or higher for 2 years to be in the top performance group for yield group. Variety yield averages had to differ by 6 bushels in 2006 to be significantly different. There was no difference in yield average between the varieties tested for 2 years. The 2006 protein, oil, and lodging score test averages were 36.6%, 19.3%, and 2, respectively (Table 10b). The lodging score top performance group value of 2 indicates varieties with a score of 2 or less were in the top group for lodging resistance.

Table A. Nearest weather station accumulated precipitation accumulation and average daily temperatures for 2006 and their departures from normal (DFN)

Source: South Dakota Office of Climate and Weather.

Station	Variable		Data is accumulated from April up to the day ending:					Sept. 30
			Apr. 30	May 31	June 30	July 31	Aug. 31	
Aberdeen Airport	Precip.-in	06	2.41	2.16	3.21	0.71	2.47	2.67
		DFN*	0.58	-0.53	-2.8	-2.21	0.07	0.86
	Avg.Temp.-	06	51	58	69	77	72	57
DFN*		5.6	0.1	2.2	4.8	1.5	-2.8	
South Shore (NE Farm)	Precip.-in	06	2.53	1.99	0.95	0.83	1.93	5.66
		DFN*	0.53	-0.73	-2.88	-0.244	0.53	3.77
	Avg.Temp.-	06	48	56	66	73	69	58
DFN*		5	0.2	1.3	3.3	1.2	-0.1	
Iroquois**/ Huron***	Precip.-in	06	1.73	0.98	1.3	0.6	5.68	4.61
		DFN*	0.51	-1.89	-2.06	2.53	3.6	2.59
	Avg.Temp.-	06	53	59	70	80	74	58
DFN*		6.9	0.8	2.1	6.6	13	10.1	
Brookings 2NE	Precip.-in	06	2.65	2.02	2.35	0.23	5.65	4.09
		DFN*	0.62	-0.93	-1.88	-2.88	2.71	1.61
	Avg.Temp.-	06	49	58	67	74	69	55
DFN*		4.8	1.3	0.9	3.3	0.4	-4.1	
Centerville (SE Farm)	Precip.-in	06	3.44	1.51	3.72	0.39	3.23	7.81
		DFN*	0.97	-2.14	-0.23	-2.96	0.4	5.55
	Avg.Temp.-	06	53	61	70	77	72	53
DFN*		5.8	0.5	0.6	3.3	9.7	8.3	
Platte**/ Academy**	Precip.-in	06	3.62	0.89	2.36	0.47	2.35	NA
		DFN*	1.01	2.91	1.05	-2.69	0.12	-
	Avg.Temp.-	06	52	60	70	79	73	58
DFN*		6.5	2.4	2.6	5.5	1.6	-3.7	

* DFN - how much a variable for year 2006 is greater or less (-) than the long-term average.

** Precipitation data.

*** Temperature data.

Table B. Description of trial locations- soil type, tillage methods, previous crop, pesticides used, and seeding dates.

Location (County)	Soils & Management		Previous crop	Herbicides				Nitragin Soybean Soil Implant	Date seeded
	Type	Tillage Method		Roundup Ready		Non- Roundup Ready				Down seed tube at label rate
				Pre	Post	Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 26
South Shore (Codington)	Kransburg silty clay loam, 3-6% slope	Conventional	S. Wheat	None	Roundup twice	None	Harmony/ Poast - split	Yes	May 23
Bancroft (Kingsbury)	Houdek-Stickney-Tetonka loam, 0-3% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 30
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conventional	S. Wheat	None	Roundup twice	None	Harmony/ Poast/ Basagran split	Yes	May 22
Geddess (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 25
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conventional	Corn	Dual-Python tank mix	Roundup once	Dual-Python tank mix	None	Yes	May 17

Table C. 2006 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by the entrants; and performance table number(s).

Brand / Variety	Mat. Grp.	Gene	Table No. (s)	Brand / Variety	Mat. Grp.	Gene	Table No. (s)
AGVENTURE/ AV11T1RR	1.0	Rps1k	2	FARM ADVANTAGE/ 7224	2.2	Rps1 (Rps1a)	7
AGVENTURE/ AV14D6	1.4	Not Reported	2	FARM ADVANTAGE/ 7253	2.5	Rps1c	7
AGVENTURE/ AV15D7	1.5	Not Reported	2	GOLD COUNTRY SEED/ 2509R	0.9	Not Reported	1
AGVENTURE/ AVEXP09D1	0.9	Not Reported	1	GOLD COUNTRY SEED/ 2713R	1.3	Rps1k	2,4
AGVENTURE/ AVEXP10G9	1.0	Not Reported	2	GOLD COUNTRY SEED/ 8716R	1.6	Rps1k	2,4
ASGROW/ AG0803	0.8	Rps1k	1	GOLD COUNTRY SEED/2717NR	1.7	Rps1c	6
ASGROW/ AG1002	1.0	rps1 - No resist.	2	GOLD COUNTRY SEED/6714NR	1.4	Not Reported	2
ASGROW/ AG1102	1.1	Rps1k	2,4	HEFTY/ 195RR	1.9	rps1 - No resist.	4,6
ASGROW/ AG1702	1.7	Rps1k	2,4,6	HEFTY/ 226RR	2.2	Rps1 (Rps1a)	5,7
ASGROW/ AG1903	1.9	Rps1k	4,6	HEFTY/ 266RR	2.6	Rps1c	7
ASGROW/ AG2002	2.0	Rps1c	5	HEFTY/ EXP067RR	0.6	rps1 - No resist.	1
ASGROW/ AG2107	2.1	Rps1k	5	HEFTY/ EXP117RR	1.0	rps1 - No resist.	2
ASGROW/ AG2403	2.4	Rps1k	7	HEFTY/ EXP137RR	1.3	Rps1k	2,4
ASGROW/ AG2605	2.6	Rps1k	7	KALTENBERG/ KB135RR	1.3	Rps1c	4
ASGROW/ AG2802	2.8	Rps1k	7	KALTENBERG/ KB155RR	1.5	Rps1k	4
COYOTE/ 4523RR	2.3	Rps1k	5,7	KALTENBERG/ KB256RR	2.5	Rps1k	7
COYOTE/ 4527RR	2.7	Rps1k	5,7	KALTENBERG/ KB258RR	2.5	rps1 - No resist.	7
COYOTE/ 4719RR	1.9	Rps1k	4,6	KALTENBERG/ KB266RR	2.5	rps1 - No resist.	7
COYOTE/ 9524RR	2.4	Rps1k	5,7	KALTENBERG/ KB276RR	2.7	Rps1k	7
COYOTE/ EXP 622RR	2.2	Rps1 (Rps1a)	5,7	KRUGER/ EXP057RR	0.5	Rps1 (Rps1a)	1,3
COYOTE/ EXP 625NRR	2.5	rps1 - No resist.	5,7	KRUGER/ EXP067RR	0.9	rps1 - No resist.	1,3
COYOTE/ EXP 626RR	2.6	Rps1k	5,7	KRUGER/ EXP086RR	0.8	Rps1k	1
CROW'S/ C0520R	0.5	rps1 - No resist.	1	KRUGER/ EXP186RR	1.8	rps1 - No resist.	4
CROW'S/ C1106R	1.1	Rps1k	2	KRUGER/ EXP226RR	2.2	Rps1 (Rps1a)	5
CROW'S/ C1706R	1.7	Rps1k	4	KRUGER/ K-042RR	0.4	Rps1 (Rps1a)	1
CROW'S/ C2618R	2.6	rps1 - No resist.	7	KRUGER/ K-056RR	0.6	Rps1 (Rps1a)	1,3
CROW'S/ C2917R	2.9	rps1 - No resist.	7	KRUGER/ K-072RR	0.7	rps1 - No resist.	1,3
DAIRYLAND/ DSR-0701/RR	0.7	Rps1k	1	KRUGER/ K-098RR	0.9	rps1 - No resist.	1,3
DAIRYLAND/ DSR-0903/RR	0.9	Not Reported	1,3	KRUGER/ K-100RR	1.0	Rps1k	2,4
DAIRYLAND/ DSR-1301/RR	1.3	Not Reported	2,4	KRUGER/ K-120RR	1.2	Rps1k	2,4
DAIRYLAND/ DSR-1520/RR	1.5	Not Reported	4	KRUGER/ K-140RR	1.5	Rps1k	2,4,6
DAIRYLAND/ DSR-199RRSTS	1.9	Rps1k	4	KRUGER/ K-156RR	1.4	Rps1k	2,4,6
DAIRYLAND/ DSR-2200/RR	2.2	Not Reported	7	KRUGER/ K-177RR	1.7	Rps1k	2,4,6
DAIRYLAND/ DSR-2300/RR	2.3	Not Reported	7	KRUGER/ K-188RR/SCN	1.7	Rps1k	2,4,6
DAIRYLAND/ DSR-234/RR	2.3	Rps1k	7	KRUGER/ K-194RR	1.8	Rps1k	2,4,6
DAIRYLAND/ DSR-2511/RR	2.5	Not Reported	7	KRUGER/ K-195+RR/SCN	2.0	Rps1k	4,6
DAIRYLAND/ DSR-2600/RR	2.6	Rps1k	7	KRUGER/ K-211+RR	2.2	Rps1k	5,7
DAIRYLAND/ DSR-2820/RR	2.8	Not Reported	7	KRUGER/ K-223+RR	2.2	Rps1k	5,7
DAIRYLAND/ DSR0902RRSTS	0.9	Rps1k	1	KRUGER/ K-233+RR	2.4	Rps1k	5,7
DAIRYLAND/ DSR1500RRSTS	1.5	Not Reported	2,4	KRUGER/ K-234RR	2.4	rps1 - No resist.	5,7
DAIRYLAND/ DSR1701RRSTS	1.7	Not Reported	4	KRUGER/ K-235RR/SCN	2.3	Rps1c	5,7
DAIRYLAND/ DSR2000RRSTS	2.0	Rps1k	7	KRUGER/ K-255RR	2.5	rps1 - No resist.	5,7
DAIRYLAND/ DSR2500RRSTS	2.5	Rps1k	7	KRUGER/ K-259RR	2.6	Rps1k	5,7
DAIRYLAND/ DSR2702RRSTS	2.7	Not Reported	7	KRUGER/ K-287RR/SCN	2.8	Rps1c	7
DAIRYLAND/ DST22-003/RR	2.2	Not Reported	7	KRUGER/ K-289+RR	2.8	Rps1k	7
DEKALB/ DKB18-51	1.8	Rps1k	2,4	LATHAM/ EXP-E1950R	1.9	Rps1k	2,4
DEKALB/ DKB22-52	2.2	rps1 - No resist.	5,7	LATHAM/ EXP-E2253R	2.2	Rps1 (Rps1a)	5
DEKALB/ DKB25-51	2.5	Rps1k	7	LATHAM/ EXP-E2810R	2.8	rps1 - No resist.	7
DEKALB/ DKB26-53	2.6	Rps1c	7	LATHAM/ EXP-E2976R	2.9	rps1 - No resist.	7
DEKALB/ DKB27-53	2.7	Rps1c	7	LATHAM/ L1553R	1.5	Rps1k	2

Table C. 2006 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by the entrants; and performance table number(s) (continued).

Brand / Variety	Mat. Grp.	Gene	Table No. (s)	Brand / Variety	Mat. Grp.	Gene	Table No. (s)
LATHAM/ L2500R	2.5	rps1 - No resist.	7	NUTECH/ NT-2770RR/SCN	2.7	rps1 - No resist.	7
LATHAM/ L2635R	2.6	Rps1c	7	NUTECH/ NT-2777RR/SCN	2.7	Rps1k	7
LATHAM/ L2646R	2.6	Rps1k	7	NUTECH/ NT-2890+RR	2.8	Rps1k	7
LATHAM/ L2775R	2.7	Rps1k	7	NUTECH/ NT-2890RR	2.8	Rps1k	7
MIDWEST SEED/ GR0903	0.9	rps1 - No resist.	1	NUTECH/ NT-7205+RR	2.0	Rps1k	2,4
MIDWEST SEED/ GR1111	1.1	Rps1k	2	PRAIRIE BRAND/ PB-0725RR	0.7	rps1 - No resist.	1
MIDWEST SEED/ GR1633	1.4	Rps1k	4	PRAIRIE BRAND/ PB-0923RR	0.9	Rps1k	1,3
MIDWEST SEED/ GR2037	2.0	rps1 - No resist.	5,7	PRAIRIE BRAND/ PB-0936RR	0.9	rps1 - No resist.	1,3
MIDWEST SEED/ GR2231	2.2	Rps1k	5	PRAIRIE BRAND/ PB-0954RR	0.9	rps1 - No resist.	1,3
MIDWEST SEED/ GR2651	2.6	rps1 - No resist.	7	PRAIRIE BRAND/ PB-1256RR	1.2	Rps1k	2,4
MIDWEST SEED/ GR2731	2.7	Rps1k	7	PRAIRIE BRAND/ PB-1294RR	1.2	Rps1c	2,4
MUSTANG/ M-066RR	0.6	Rps1 (Rps1a)	1	PRAIRIE BRAND/ PB-1525RR	1.5	Rps1k	2,4
MUSTANG/ M-075RR	0.7	Rps1 (Rps1a)	1,3	PRAIRIE BRAND/ PB-1754RR	1.7	rps1 - No resist.	2,4
MUSTANG/ M-095RR	0.9	rps1 - No resist.	1,3	PRAIRIE BRAND/ PB-1885NR	1.8	Rps1k	4,6
MUSTANG/ M-096RR	0.9	rps1 - No resist.	1,3	PRAIRIE BRAND/ PB-1916RR	1.9	Rps1k	2,4,6
MUSTANG/ M-097RR	0.9	Rps1c	1,3	PRAIRIE BRAND/ PB-1954RR	1.9	rps1 - No resist.	2,4,6
MUSTANG/ M-115RR	1.1	Rps1c	2,4	PRAIRIE BRAND/ PB-1956RR	1.9	rps1 - No resist.	4,6
MUSTANG/ M-136RR	1.3	Rps1k	2,4	PRAIRIE BRAND/ PB-2141RR	2.1	Rps1k	5,7
MUSTANG/ M-156RR	1.5	Rps1k	2,4	PRAIRIE BRAND/ PB-2183NR	2.1	Rps1k	5
MUSTANG/ M-176RR	1.7	Rps1 (Rps1a)	2,4	PRAIRIE BRAND/ PB-2216RR	2.2	rps1 - No resist.	5,7
MUSTANG/ M-194NRR	1.9	Rps1k	6	PRAIRIE BRAND/ PB-2243RR	2.2	Rps1k	5,7
MUSTANG/ M-203RR	2.0	rps1 - No resist.	5,7	PRAIRIE BRAND/ PB-2421RR	2.4	Rps1k	5,7
MUSTANG/ M-207RR	2.0	Rps1k	5,7	PRAIRIE BRAND/ PB-2456RR	2.4	Rps1k	5,7
MUSTANG/ M-227RR	2.2	Rps1 (Rps1a)	7	PRAIRIE BRAND/ PB-2536RR	2.5	Rps1k	7
MUSTANG/ M-237RR	2.3	Rps1k	7	PRAIRIE BRAND/ PB-2565RR	2.5	Rps1c	7
MUSTANG/ M-246NRR	2.4	rps1 - No resist.	7	PRAIRIE BRAND/ PB-2636NR	2.6	Rps1k	7
MUSTANG/ M-247NRR	2.7	Rps1 (Rps1a)	7	PRAIRIE BRAND/ PB-2643RR	2.7	Rps1k	7
MUSTANG/ M-257RR	2.5	Rps1c	7	PRAIRIE BRAND/ PB-2645RR	2.7	Rps1k	7
MUSTANG/ M-264RR	2.6	Rps1k	7	PSI BRAND/ 96090RR	0.9	rps1 - No resist.	1
NORTHSTAR/ EXP 1401RR	1.4	rps1 - No resist.	4	PSI BRAND/ 96110RR	1.1	Rps1k	2,4
NORTHSTAR/ NS 0810RR	0.8	Rps1 (Rps1a)	1	PSI/ 96081RR	0.8	Rps1 (Rps1a)	1
NORTHSTAR/ NS 0911RR	0.9	Rps1k	1	RENK/ RS156RR	1.5	Rps1k	4
NORTHSTAR/ NS 1120RR	1.1	Rps1k	2,4	RENK/ RS165RR	1.6	Rps1k	4
NORTHSTAR/ NS 1521NRR	1.5	rps1 - No resist.	6	RENK/ RS246NRR	2.4	Not Reported	5,7
NORTHSTAR/ NS 1809RR	1.8	rps1 - No resist.	4,6	RENK/ RS265RR	2.6	Rps1c	7
NUTECH/ NT-0786RR	0.7	rps1 - No resist.	1	SANDS/ SOI 1874NRR	1.8	Rps1k	6
NUTECH/ NT-0886RR	0.8	rps1 - No resist.	1	SANDS/ SOI 2151NRR	2.1	Rps1k	5,7
NUTECH/ NT-0889RR	0.8	rps1 - No resist.	1	SANDS/ SOI 2448RR	2.4	Rps1k	7
NUTECH/ NT-0990RR	0.9	rps1 - No resist.	1	SANDS/ SOI 2511NRR	2.5	Not Reported	7
NUTECH/ NT-0999+RR	0.9	rps1 - No resist.	3	SANDS/ SOI 2609RR	2.6	Rps1k	7
NUTECH/ NT-1127RR	1.1	Rps1k	2,4	SANDS/ SOI 2673RR	2.6	Rps1k	7
NUTECH/ NT-1404RR	1.4	Rps1k	2	SANDS/ SOI 2675NRR	2.6	Not Reported	7
NUTECH/ NT-1909RR	1.9	rps1 - No resist.	6	SANDS/ SOI 2754RR	2.7	Rps1k	7
NUTECH/ NT-1991RR	1.9	Rps1k	2,4,6	SANDS/ SOI 2884RR	2.8	Rps1k	7
NUTECH/ NT-2202RR	2.2	Rps1k	4	SEEDS 2000/ 2090RR	0.9	Not Reported	1
NUTECH/ NT-2213RR	2.2	Rps1 (Rps1a)	5,7	SEEDS 2000/ 2130RR	1.3	Rps1k	2
NUTECH/ NT-2220RR	2.2	rps1 - No resist.	5,7	SODAK GENET./ SD1091RR	0.9	Rps1 (Rps1a)	1,3
NUTECH/ NT-2232RR	2.2	Rps1 (Rps1a)	5,7	SODAK GENET./ SD1092RR	0.9	Rps1k	1,3
NUTECH/ NT-2333RR	2.3	Rps1 (Rps1a)	5,7	SODAK GENET./ SD1111RR	1.1	Rps1 (Rps1a)	2,4,6
NUTECH/ NT-2626RR	2.6	rps1 - No resist.	5	STINE/ 0708-4	0.7	rps1 - No resist.	1

Table C. 2006 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by the entrants; and performance table number(s) (continued).

Brand / Variety	Mat. Grp.	Gene	Table No. (s)	Brand / Variety	Mat. Grp.	Gene	Table No. (s)
STINE/ 0943-4	1.0	Rps1k	1,3	Public Varieties & Experimentals			
STINE/ 1108-4	1.0	rps1 - No resist.	2,4	PUBLIC/ SD00-1018R	1	Rps1 (Rps1a)	2,4
STINE/ 1330-4	1.3	Rps1k	2,4	PUBLIC/ SD00-5555R	0	Rps1k	1,3
STINE/ 1918-4	1.9	rps1 - No resist.	2,4,6	PUBLIC/ SD01-1120R	1	Rps1 (Rps1a)	2,4
THOMPSON/ T-1330RR	1.3	Rps1k	2	PUBLIC/ SD01-3219R	1	Rps1k	2,4,6
THOMPSON/ T-1400RR	1.4	Rps1k	2	PUBLIC/ SD01-3477R	1	Rps1 (Rps1a)	2,4
THOMPSON/ T-1414RR	1.4	Rps1k	2	PUBLIC/ SD02R-48	2	Rps1k	5,7
THOMPSON/ T-1766RR	1.7	Not Reported	2	PUBLIC/ SD02R-5	2	Rps1k	5,7
THOMPSON/ T-1800RR	1.8	rps1 - No resist.	2	PUBLIC/ SD02R-50	2	Rps1k	5
THOMPSON/ T-2213ARR	2.0		5,7	PUBLIC/ SD02R-51	2	Rps1k	5,7
THOMPSON/ T-2220ARR	2.2	rps1 - No resist.	5,7	PUBLIC/ SD02R-8	1	Rps1k	2,4
THOMPSON/ T-2300RR	2.3	Rps1k	7	PUBLIC/ SD02R-93	1	Rps1k	2
THOMPSON/ T-2444RR/SCN	2.4	rps1 - No resist.	5,7	PUBLIC/ SD1091RR-4	0	Rps1k	1,3
THOMPSON/ T-2626RR	2.6	rps1 - No resist.	7	PUBLIC/ SDX00R-017-52	1	Rps1 (Rps1a)	2,4
THOMPSON/ T-2666RR	2.6	Not Reported	5,7	PUBLIC/ SDX00R-020-18	2	Rps1 (Rps1a)	5
THOMPSON/ T-2707RR	2.7	Rps1c	7	PUBLIC/ SDX00R-026-42N	1	Not Reported	2,4,6
THOMPSON/ T-2999RR	2.9	Not Reported	7	PUBLIC/ SDX00R-029-3	1	Rps1k	2,4
THOMPSON/ T-7193RR/SCN	1.9	Rps1k	4	PUBLIC/ SDX00R-053-46	1	Rps1 (Rps1a)	2,4
THOMPSON/ T-7205+RR	2.0	Rps1k	6	PUBLIC/ SDX01R-00403109	1	Rps1 (Rps1a)	4
THOMPSON/ T-7206RR	2.0	Rps1k	5	PUBLIC/ SDX01R-00403128	2	Rps1 (Rps1a)	5
THOMPSON/ T-7234RR	2.3	Rps1k	2,4	PUBLIC/ SDX01R-007039	2	Not Reported	5
THUNDER/ 2511RR	1.1	Rps1k	2				
THUNDER/ 2512RR	1.2	rps1 - No resist.	2				
THUNDER/ 708RR	0.8	Rps1k	1				
THUNDER/ 709RR	0.9	Rps1c	1				
WECO/ EXP 6 0.7RR	0.7	Rps1k	1,3				
WECO/ EXP 6 1.0RR	1.0	Not Reported	2,4				
WECO/ EXP 6 1.5RR	1.5	Not Reported	2,4,6				
WECO/ EXP 6 2.0RR	2.0	Rps1k	5,7				
WECO/ EXP 6 2.5RR-STS	2.5	Rps1c	5,7				
WECO/ EXP 6 2.6RR-SCN	2.6	Rps1c	7				
WECO/ EXP 6 2.8RR-SCN	2.8	Not Reported	7				
WENSMAN/ W 2090RR	0.9	Not Reported	1				
WENSMAN/ W 2108RR	1.0	Not Reported	2				
WENSMAN/ W 2121RR	1.2	Rps1c	2				
WENSMAN/ W 2142RR	1.4	Rps1k	2,4				
WENSMAN/ W 2163RR	1.6	Not Reported	2,4,6				
WENSMAN/ W 2168NRR	1.6	Not Reported	4,6				
WENSMAN/ W 2172NRR	1.7	Rps1k	4,6				
WENSMAN/ W 2195NRR	1.9	Rps1k	4,6				
WENSMAN/ W 2200NRR	2.0	Rps1c	5,7				
WENSMAN/ W 2226RR	2.2	Rps1 (Rps1a)	5,7				
WENSMAN/ W 2253RR	2.5	Rps1c	7				
ZILLER/ BT 7124R	1.2	Rps1k	2				
ZILLER/ BT 7156NR	1.5	Not Reported	4				
ZILLER/ BT 7186NR	1.8	Rps1k	4				
ZILLER/ BT 7227NR	2.2	Rps1k	7				

Table 1a. Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	----- Northern Locations ----- 2005-2006 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
KRUGER/ K-098RR	116	32	41	38	46	35	44
NUTECH/ NT-0889RR	117	32	40	40	46	36	43
MUSTANG/ M-095RR	117	33	42	37	44	35	43
NUTECH/ NT-0886RR	117	30	42	37	44	34	43
PSI BRAND/ 96090RR	115	28	39	40	46	34	43
PRAIRIE BRAND/ PB-0725RR	115	32	43	30	42	31	43
MUSTANG/ M-096RR	118	35	42	36	42	36	42
SEEDS 2000/ 2090RR	117	32	41	35	42	34	42
WENSMAN/ W 2090RR	116	29	39	35	43	32	41
DAIRYLAND/ DSR-0701/RR	113	32	41	30	40	31	41
MUSTANG/ M-075RR	113	28	41	29	41	29	41
KRUGER/ K-056RR	112	32	40	30	40	31	40
PRAIRIE BRAND/ PB-0923RR	113	28	37	33	42	31	40
PRAIRIE BRAND/ PB-0954RR	116	29	37	35	41	32	39
SODAK GENET./ SD1092RR	116	30	38	32	40	31	39
MUSTANG/ M-066RR	112	26	37	31	40	29	39
SODAK GENET./ SD1091RR	117	29	36	32	39	31	38
THUNDER/ 709RR	117	31	.	38	.	35	.
KRUGER/ K-072RR	116	34	.	35	.	35	.
PRAIRIE BRAND/ PB-0936RR	116	33	.	36	.	35	.
MUSTANG/ M-097RR	117	32	.	36	.	34	.
NUTECH/ NT-0990RR	116	30	.	38	.	34	.
KRUGER/ EXP057RR	113	35	.	31	.	33	.
DAIRYLAND/ DSR-0903/RR	113	33	.	32	.	33	.
MIDWEST SEED/ GR0903	117	30	.	35	.	33	.
ASGROW/ AG0803	113	29	.	34	.	32	.
KRUGER/ K-042RR	113	33	.	31	.	32	.
KRUGER/ EXP086RR	115	30	.	33	.	32	.
PUBLIC/ SD00-5555R	118	25	.	38	.	32	.
WECO/ EXP 6 0.7RR	116	30	.	32	.	31	.
PUBLIC/ SD1091RR-4	118	27	.	35	.	31	.
THUNDER/ 708RR	113	31	.	29	40	30	.
HEFTY/ EXP067RR	111	30	.	30	.	30	.
DAIRYLAND/ DSR0902RRSTS	114	25	.	33	.	29	.
NORTHSTAR/ NS 0911RR	114	24	.	34	.	29	.
NUTECH/ NT-0786RR	113	26	.	30	.	28	.
PSI/ 96081RR	113	28	.	28	.	28	.

Table 1a. Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	----- Northern Locations ----- 2005-2006 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
KRUGER/ EXP067RR	111	27	.	29	.	28	.
NORTHSTAR/ NS 0810RR	113	28	.	26	.	27	.
CROW'S/ C0520R	112	25	.	26	.	26	.
AGVENTURE/ AVEXP09D1	112	.	.	36	.	.	.
GOLD COUNTRY SEED/ 2509R	111	.	.	39	44	.	.
STINE/ 0943-4	110	.	.	34	43	.	.
STINE/ 0708-4	121	30	41	.	.	.	.
Test avg. :	115	30	40	33	42	32	41
High avg. :	121	35	43	40	46	36	44
Low avg. :	110	24	36	26	39	26	38
# Lsd (.05):		5	NS	4	NS	3	2
## TPG-avg. :		30	36	36	39	36	42
@ Coef. Var.:		9	7	8	6	9	6
No. Entries:		41	18	43	20	80	34

* DTM= average days from seeding (South Shore- May 23, Warner- May 26, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached 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, 2006.

Brand/Variety (By 2006 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)*			
SODAK GENET./ SD1091RR	117	38.2	18.7	1	37.3	19.3	1	37.8	19.0	1
WENSMAN/ W 2090RR	116	37.8	18.7	1	36.8	19.4	1	37.3	19.1	1
MUSTANG/ M-095RR	117	37.7	18.8	1	36.8	19.4	1	37.3	19.1	1
KRUGER/ K-098RR	116	37.3	18.9	1	37.0	19.3	1	37.2	19.1	1
NUTECH/ NT-0889RR	117	37.1	18.9	1	37.0	19.5	1	37.1	19.2	1
PRAIRIE BRAND/ PB-0954RR	116	36.9	18.9	1	37.1	19.3	1	37.0	19.1	1
PSI BRAND/ 96090RR	115	37.3	18.6	1	36.6	19.5	1	37.0	19.1	1
PRAIRIE BRAND/ PB-0923RR	113	37.5	19.0	1	36.4	19.7	1	37.0	19.4	1
PUBLIC/ SD00-5555R	118	37.4	18.7	1	36.5	19.6	1	37.0	19.2	1
MUSTANG/ M-066RR	112	37.7	18.9	1	36.1	19.7	1	36.9	19.3	1
PRAIRIE BRAND/ PB-0725RR	115	37.1	19.0	1	36.7	19.7	1	36.9	19.4	1
SODAK GENET./ SD1092RR	116	37.2	19.0	1	36.5	19.8	1	36.9	19.4	1
MIDWEST SEED/ GR0903	117	36.9	18.9	1	36.8	19.3	1	36.9	19.1	1
KRUGER/ K-056RR	112	37.3	19.0	1	36.3	19.5	1	36.8	19.3	1
NORTHSTAR/ NS 0911RR	114	37.6	18.7	1	36.0	19.7	1	36.8	19.2	1
SEEDS 2000/ 2090RR	117	37.1	18.7	1	36.5	19.5	1	36.8	19.1	1
NUTECH/ NT-0886RR	117	36.6	19.0	1	36.9	19.4	1	36.8	19.2	1
KRUGER/ K-072RR	116	36.8	19.0	1	36.7	19.6	1	36.8	19.3	1
DAIRYLAND/ DSR-0701/RR	113	37.4	18.8	1	36.1	19.8	1	36.8	19.3	1
PUBLIC/ SD1091RR-4	118	37.0	19.0	1	36.5	19.5	1	36.8	19.3	1
DAIRYLAND/ DSR-0903/RR	113	37.6	18.9	1	35.8	19.9	1	36.7	19.4	1
PRAIRIE BRAND/ PB-0936RR	116	37.2	18.9	1	36.2	19.7	1	36.7	19.3	1
NUTECH/ NT-0990RR	116	37.1	18.7	1	36.2	19.7	1	36.7	19.2	1
CROW'S/ C0520R	112	37.1	19.3	1	36.1	19.8	1	36.6	19.6	1
MUSTANG/ M-096RR	118	36.8	19.0	1	36.3	19.6	1	36.6	19.3	1
NUTECH/ NT-0786RR	113	37.2	19.0	1	35.8	20.0	1	36.5	19.5	1
THUNDER/ 708RR	113	37.1	18.7	1	35.6	19.6	1	36.4	19.2	1
PSI/ 96081RR	113	37.1	18.9	1	35.6	20.0	1	36.4	19.5	1
KRUGER/ EXP057RR	113	36.9	18.9	1	35.8	20.0	1	36.4	19.5	1
WECO/ EXP 6 0.7RR	116	36.8	19.0	1	35.8	19.9	1	36.3	19.5	1

Table 1b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2006 (continued).

Brand/Variety (By 2006 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-042RR	113	37.4	19.1	1	35.2	20.5	1	36.3	19.8	1
KRUGER/ EXP067RR	111	37.2	18.9	1	35.4	19.7	1	36.3	19.3	1
NORTHSTAR/ NS 0810RR	113	37.2	18.9	1	35.4	20.2	1	36.3	19.6	1
HEFTY/ EXP067RR	111	36.9	18.9	1	35.5	19.6	1	36.2	19.3	1
MUSTANG/ M-075RR	113	36.8	19.0	1	35.5	20.0	1	36.2	19.5	1
MUSTANG/ M-097RR	117	36.9	19.0	1	35.4	19.9	1	36.2	19.5	1
KRUGER/ EXP086RR	115	36.3	18.7	1	35.8	19.5	1	36.1	19.1	1
THUNDER/ 709RR	117	36.6	19.4	1	35.2	19.9	1	35.9	19.7	1
ASGROW/ AG0803	113	36.2	19.2	1	35.5	19.6	1	35.9	19.4	1
DAIRYLAND/ DSR0902RRSTS	114	36.4	19.1	1	35.2	20.1	1	35.8	19.6	1
AGVENTURE/ AVEXP09D1	112	.	.	.	36.8	19.4	1	.	.	.
GOLD COUNTRY SEED/ 2509R	111	.	.	.	36.6	19.4	1	.	.	.
STINE/ 0943-4	110	.	.	.	36.6	19.7	1	.	.	.
STINE/ 0708-4	121	36.8	18.7	1	.	.	.	.	.	.
Test avg. :	115	37.1	18.9	1	36.2	19.7	1	36.6	19.3	1
High avg. :	121	38.2	19.4	1	37.3	20.5	1	37.8	19.8	1
Low avg. :	110	36.2	18.6	1	35.2	19.3	1	35.8	19.0	1
# Lsd(.05) :		.	.	0	.	.	0	.	.	0
## TPG-avg. :		.	.	1	.	.	1	.	.	1
@ Coef. Var. :		.	.	0	.	.	0	.	.	0
No. Entries :		41	41	41	43	43	43	80	80	80

* DTM= average days from seeding (South Shore- May 23, Warner- May 26, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant 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 value to qualify for top performance group.

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

Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
PRAIRIE BRAND/ PB-1954RR	113	32	40	40	45	36	43
STINE/ 1330-4	118	29	39	38	46	34	43
WENSMAN/ W 2142RR	112	30	40	36	45	33	43
ASGROW/ AG1702	119	28	39	37	45	33	42
NUTECH/ NT-7205+RR	117	27	38	38	46	33	42
SEEDS 2000/ 2130RR	118	29	38	34	44	32	41
PRAIRIE BRAND/ PB-1525RR	118	29	39	32	43	31	41
WENSMAN/ W 2121RR	115	25	37	34	45	30	41
THOMPSON/ T-7234RR	115	27	39	32	42	30	41
NUTECH/ NT-1404RR	117	25	38	30	43	28	41
DEKALB/ DKB18-51	113	26	36	35	43	31	40
DAIRYLAND/ DSR-1301/RR	118	26	35	35	44	31	40
PRAIRIE BRAND/ PB-1294RR	116	27	37	32	43	30	40
KRUGER/ K-100RR	117	28	40	28	40	28	40
PRAIRIE BRAND/ PB-1754RR	118	29	38	34	40	32	39
KRUGER/ K-177RR	119	24	34	37	43	31	39
DAIRYLAND/ DSR1500RRSTS	113	28	35	32	41	30	38
PUBLIC/ SDX00R-026-42N	118	27	36	30	40	29	38
SODAK GENET./ SD1111RR	114	25	36	27	40	26	38
KRUGER/ K-156RR	117	26	36	29	38	28	37
PUBLIC/ SD01-3219R	118	25	34	30	39	28	37
THUNDER/ 2512RR	115	21	34	24	36	23	35
THOMPSON/ T-1766RR	114	32	.	39	.	36	.
KRUGER/ K-194RR	117	31	.	39	.	35	.
LATHAM/ EXP-E1950R	117	31	.	39	.	35	.
NUTECH/ NT-1127RR	117	29	.	39	.	34	.
WECO/ EXP 6 1.5RR	113	31	.	37	.	34	.
LATHAM/ L1553R	118	29	.	36	.	33	.
PRAIRIE BRAND/ PB-1916RR	116	29	.	36	.	33	.
WENSMAN/ W 2163RR	117	29	.	36	.	33	.
WENSMAN/ W 2108RR	117	25	.	41	.	33	.
PUBLIC/ SDX00R-017-52	115	30	.	36	.	33	.
PUBLIC/ SD02R-8	117	28	.	37	.	33	.
MUSTANG/ M-156RR	117	26	.	38	.	32	.
MUSTANG/ M-176RR	118	29	.	34	.	32	.
NUTECH/ NT-1991RR	117	29	.	34	.	32	.
GOLD COUNTRY SEED/ 8716R	119	28	.	35	.	32	.
THOMPSON/ T-1330RR	118	30	.	34	.	32	.
CROW'S/ C1106R	117	27	.	36	.	32	.
MUSTANG/ M-115RR	117	26	.	36	.	31	.
THUNDER/ 2511RR	117	26	.	36	.	31	.
THOMPSON/ T-1800RR	114	29	.	33	.	31	.
PUBLIC/ SDX00R-053-46	115	28	.	34	.	31	.
PUBLIC/ SD01-1120R	117	28	.	34	.	31	.
PUBLIC/ SD01-3477R	118	28	.	33	.	31	.
ASGROW/ AG1102	116	27	.	33	.	30	.
AGVENTURE/ AV14D6	118	27	.	32	.	30	.

Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
GOLD COUNTRY SEED/ 2713R	118	27	.	33	.	30	.
THOMPSON/ T-1414RR	117	26	.	33	.	30	.
THOMPSON/ T-1400RR	118	28	.	31	.	30	.
PUBLIC/ SDX00R-029-3	115	27	.	33	.	30	.
MUSTANG/ M-136RR	117	25	.	32	.	29	.
HEFTY/ EXP117RR	116	25	.	33	.	29	.
HEFTY/ EXP137RR	118	25	.	32	.	29	.
WECO/ EXP 6 1.0RR	116	26	.	32	.	29	.
PRAIRIE BRAND/ PB-1256RR	116	25	.	32	.	29	.
MIDWEST SEED/ GR1111	116	26	.	32	.	29	.
PUBLIC/ SD00-1018R	117	25	.	31	.	28	.
PUBLIC/ SD02R-93	117	24	.	32	.	28	.
KRUGER/ K-188RR/SCN	118	25	.	29	.	27	.
STINE/ 1108-4	116	25	.	28	.	27	.
KRUGER/ K-120RR	117	23	.	28	.	26	.
ASGROW/ AG1002	121	25	.	.	.	.	.
AGVENTURE/ AV11T1RR	122	27	39	.	.	.	.
AGVENTURE/ AVEXP10G9	111	.	.	27	.	.	.
AGVENTURE/ AV15D7	112	.	.	31	.	.	.
PSI BRAND/ 96110RR	123	26	38	.	.	.	.
GOLD COUNTRY SEED/6714NR	124	30	.	.	.	.	.
STINE/ 1918-4	.	28	39	.	.	.	.
ZILLER/ BT 7124R	121	27	.	.	.	.	.
NORTHSTAR/ NS 1120RR	123	30	38	.	.	.	.
Test avg. :	117	27	37	34	42	31	40
High avg. :	124	32	40	41	46	36	43
Low avg. :	111	21	34	24	36	23	35
# Lsd (.05) :		4	NS	5	NS	3	.
## TPG-avg. :		28	34	24	36	33	.
@ Coef. Var. :		10	8	10	8	9	29+
No. Entries :		70	26	65	22	126	44

* DTM= average days from seeding (South Shore- May 23, Warner- May 26, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached 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.

+ Lsd and TPG-average values are not reported because Coef. of Variation exceeds 15%.

Table 2b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2006.

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)*			
LATHAM/ L1553R	118	38.1	18.8	1	36.8	19.4	1	37.5	19.1	1
AGVENTURE/ AV14D6	118	37.7	18.6	1	37.0	19.0	1	37.4	18.8	1
MUSTANG/ M-156RR	117	38.1	18.6	1	36.5	19.6	1	37.3	19.1	1
HEFTY/ EXP137RR	118	38.0	18.8	1	36.4	19.5	1	37.2	19.2	1
KRUGER/ K-177RR	119	38.1	18.9	1	36.3	19.6	1	37.2	19.3	1
GOLD COUNTRY SEED/ 8716R	119	38.1	19.0	1	36.2	19.6	1	37.2	19.3	1
NUTECH/ NT-1404RR	117	37.5	18.7	1	36.7	19.4	1	37.1	19.1	1
NUTECH/ NT-7205+RR	117	37.5	18.9	1	36.7	19.3	1	37.1	19.1	1
DAIRYLAND/ DSR-1301/RR	118	37.5	18.9	1	36.7	19.6	1	37.1	19.3	1
PRAIRIE BRAND/ PB-1754RR	118	37.1	18.5	1	37.1	19.1	1	37.1	18.8	1
MUSTANG/ M-176RR	118	37.4	18.6	1	36.8	19.2	1	37.1	18.9	1
THUNDER/ 2511RR	117	37.9	18.6	1	36.2	19.7	1	37.1	19.2	1
WENSMAN/ W 2163RR	117	37.0	18.6	1	37.0	19.2	1	37.0	18.9	1
DEKALB/ DKB18-51	113	37.6	18.8	1	36.3	19.5	1	37.0	19.2	1
STINE/ 1330-4	118	37.7	18.7	1	36.2	19.6	1	37.0	19.2	1
WECO/ EXP 6 1.5RR	113	37.2	19.0	1	36.6	19.3	1	36.9	19.2	1
KRUGER/ K-156RR	117	37.6	18.6	1	36.2	19.4	1	36.9	19.0	1
MIDWEST SEED/ GR1111	116	37.6	18.4	1	36.2	19.5	1	36.9	19.0	1
PUBLIC/ SD02R-93	117	37.4	18.8	1	36.4	19.7	1	36.9	19.3	1
MUSTANG/ M-136RR	117	37.7	18.5	1	35.9	19.5	1	36.8	19.0	1
KRUGER/ K-100RR	117	37.6	18.7	1	36.0	19.8	1	36.8	19.3	1
DAIRYLAND/ DSR1500RRSTS	113	37.1	18.7	1	36.5	19.2	1	36.8	19.0	1
CROW'S/ C1106R	117	37.4	18.7	1	36.2	19.8	1	36.8	19.3	1
ASGROW/ AG1702	119	37.1	18.8	1	36.4	19.4	1	36.8	19.1	1
WECO/ EXP 6 1.0RR	116	37.3	18.8	1	36.2	19.7	1	36.8	19.3	1
GOLD COUNTRY SEED/ 2713R	118	37.4	18.9	1	36.1	19.7	1	36.8	19.3	1
THOMPSON/ T-1330RR	118	37.1	18.9	1	36.3	19.6	1	36.7	19.3	1
THOMPSON/ T-7234RR	115	36.7	19.1	1	36.6	19.5	1	36.7	19.3	1
THUNDER/ 2512RR	115	37.4	18.6	1	35.9	19.4	1	36.7	19.0	1
STINE/ 1108-4	116	37.1	19.0	1	36.0	19.7	1	36.6	19.4	1
THOMPSON/ T-1414RR	117	36.9	19.0	1	36.2	19.5	1	36.6	19.3	1
KRUGER/ K-188RR/SCN	118	37.3	18.7	1	35.7	19.8	1	36.5	19.3	1
KRUGER/ K-194RR	117	36.8	18.8	1	36.2	19.4	1	36.5	19.1	1
PRAIRIE BRAND/ PB-1525RR	118	36.9	18.9	1	36.1	19.6	1	36.5	19.3	1
THOMPSON/ T-1766RR	114	36.5	18.4	1	36.5	19.2	1	36.5	18.8	1
PRAIRIE BRAND/ PB-1916RR	116	36.7	19.3	1	36.2	19.2	1	36.5	19.3	1
THOMPSON/ T-1400RR	118	36.6	18.9	1	36.3	19.4	1	36.5	19.2	1
WENSMAN/ W 2142RR	112	37.1	18.8	1	35.7	19.8	1	36.4	19.3	1
PRAIRIE BRAND/ PB-1954RR	113	36.3	18.7	1	36.5	19.2	1	36.4	19.0	1
PUBLIC/ SD01-1120R	117	36.5	19.0	1	36.2	19.5	1	36.4	19.3	1
PUBLIC/ SDX00R-026-42N	118	36.8	18.6	1	35.9	19.3	1	36.4	19.0	1
PUBLIC/ SD01-3477R	118	36.8	18.7	1	35.9	19.6	1	36.4	19.2	1
HEFTY/ EXP117RR	116	36.4	19.1	1	36.2	19.6	1	36.3	19.4	1
KRUGER/ K-140RR	118	37.2	18.6	1	35.4	19.4	1	36.3	19.0	1
LATHAM/ EXP-E1950R	117	36.5	18.9	1	36.0	19.3	1	36.3	19.1	1
SEEDS 2000/ 2130RR	118	36.4	18.6	1	36.1	19.5	1	36.3	19.1	1
WENSMAN/ W 2108RR	117	36.6	19.0	1	35.8	19.8	1	36.2	19.4	1
PUBLIC/ SD02R-8	117	36.4	19.0	1	36.0	19.5	1	36.2	19.3	1
ASGROW/ AG1102	116	36.5	18.7	1	35.8	19.2	1	36.2	19.0	1
KRUGER/ K-120RR	117	36.9	18.5	1	35.4	19.4	1	36.2	19.0	1

Table 2b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2006 (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)*			
THOMPSON/ T-1800RR	114	36.3	18.0	1	36.0	19.3	1	36.2	18.7	1
NUTECH/ NT-1127RR	117	36.7	18.8	1	35.4	19.4	1	36.1	19.1	1
NUTECH/ NT-1991RR	117	36.5	18.8	1	35.6	19.3	1	36.1	19.1	1
PRAIRIE BRAND/ PB-1294RR	116	36.6	19.0	1	35.4	19.6	1	36.0	19.3	1
PRAIRIE BRAND/ PB-1256RR	116	36.4	18.8	1	35.6	19.3	1	36.0	19.1	1
PUBLIC/ SD01-3219R	118	36.1	18.7	1	35.9	19.5	1	36.0	19.1	1
PUBLIC/ SDX00R-029-3	115	36.3	19.0	1	35.4	19.6	1	35.9	19.3	1
MUSTANG/ M-115RR	117	36.0	18.8	1	35.4	19.6	1	35.7	19.2	1
SODAK GENET./ SD1111RR	114	35.9	19.4	1	35.4	19.8	1	35.7	19.6	1
PUBLIC/ SDX00R-053-46	115	35.9	19.1	1	35.4	19.6	1	35.7	19.4	1
WENSMAN/ W 2121RR	115	35.8	19.0	1	35.1	19.7	1	35.5	19.4	1
PUBLIC/ SDX00R-017-52	115	35.9	19.0	1	35.0	19.7	1	35.5	19.4	1
PUBLIC/ SD00-1018R	117	35.9	19.2	1	34.7	20.0	1	35.3	19.6	1
ASGROW/ AG1002	121	36.7	19.0	1	.	.	.	.	.	.
AGVENTURE/ AV11T1RR	122	37.6	18.8	1	.	.	.	.	.	.
AGVENTURE/ AVEXP10G9	111	.	.	.	36.0	19.7	1	.	.	.
AGVENTURE/ AV15D7	112	.	.	.	36.3	19.7	1	.	.	.
PSI BRAND/ 96110RR	123	37.7	18.8	1	.	.	.	.	.	.
GOLD COUNTRY SEED/6714NR	124	36.9	18.9	1	.	.	.	.	.	.
STINE/ 1918-4	.	37.0	18.9	1	.	.	.	.	.	.
ZILLER/ BT 7124R	121	36.5	18.7	1	.	.	.	.	.	.
NORTHSTAR/ NS 1120RR	123	37.2	19.0	1	.	.	.	.	.	.
Test avg. :	117	37.0	18.8	1	36.1	19.5	1	36.5	19.1	1
High avg. :	124	38.1	19.4	1	37.1	20.0	1	37.5	19.6	1
Low avg. :	111	35.8	18.0	1	34.7	19.0	1	35.3	18.7	1
# Lsd(.05) :	.	.	.	0	.	.	0	.	.	0
## TPG-avg. :	.	.	.	1	.	.	1	.	.	1
@ Coef.Var. :	.	.	.	0	.	.	0	.	.	0
No. Entries :		70	70	70	65	65	65	126	126	126

* DTM= average days from seeding (South Shore- May 23, Warner- May 26, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant 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 value to qualify for top performance group.

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

Table 3a. Roundup Ready™ maturity group-0 soybean variety yield averages- central South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
NUTECH/ NT-0999+RR	119	55	62	46	56	51	59
PRAIRIE BRAND/ PB-0923RR	119	54	61	44	56	49	59
MUSTANG/ M-095RR	120	56	61	48	55	52	58
KRUGER/ K-098RR	119	53	59	47	56	50	58
PRAIRIE BRAND/ PB-0954RR	119	54	59	46	54	50	57
MUSTANG/ M-096RR	120	49	58	46	56	48	57
SODAK GENET./ SD1092RR	120	46	53	43	53	45	53
SODAK GENET./ SD1091RR	120	44	53	38	51	41	52
KRUGER/ K-072RR	119	58	.	48	.	53	.
PRAIRIE BRAND/ PB-0936RR	119	55	.	46	.	51	.
DAIRYLAND/ DSR-0903/RR	118	53	.	46	.	50	.
KRUGER/ EXP057RR	113	50	.	45	.	48	.
KRUGER/ EXP067RR	113	49	.	47	.	48	.
MUSTANG/ M-097RR	118	51	.	43	.	47	.
PUBLIC/ SD00-5555R	120	52	.	41	.	47	.
PUBLIC/ SD1091RR-4	121	50	.	43	.	47	.
KRUGER/ K-056RR	114	46	.	46	.	46	.
MUSTANG/ M-075RR	114	46	.	42	.	44	.
WECO/ EXP 6 0.7RR	114	.	.	44	.	.	.
STINE/ 0943-4	115	.	.	46	56	.	.
Test avg.:	118	51	58	45	55	48	57
High avg. :	121	58	62	48	56	53	59
Low avg. :	113	44	53	38	51	41	52
# Lsd (.05):		5	5	5	NS	4	NS
## TPG-avg. :		53	57	43	51	49	52
@ Coef. Var.:		6	4	7	7	7	8
No. Entries:		18	8	20	9	36	16

* DTM= average days from seeding (Brookings- May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached 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, 2006.

Brand/Variety (By 2006 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 GENET./ SD1091RR	120	38.4	18.8	1	36.6	19.6	1	37.5	19.2	1
PUBLIC/ SD1091RR-4	121	38.1	18.8	1	36.7	19.6	1	37.4	19.2	1
SODAK GENET./ SD1092RR	120	38.0	18.7	1	36.6	20.0	1	37.3	19.4	1
PUBLIC/ SD00-5555R	120	37.9	18.7	1	36.5	19.8	1	37.2	19.3	1
MUSTANG/ M-075RR	114	37.4	19.1	1	36.5	20.1	1	37.0	19.6	1
KRUGER/ K-056RR	114	37.5	19.0	1	36.4	20.0	1	37.0	19.5	1
PRAIRIE BRAND/ PB-0954RR	119	37.4	18.9	1	36.4	19.8	1	36.9	19.4	1
PRAIRIE BRAND/ PB-0923RR	119	37.3	18.8	1	36.4	19.9	1	36.9	19.4	1
MUSTANG/ M-095RR	120	37.2	19.1	1	36.3	19.8	1	36.8	19.5	1
KRUGER/ K-072RR	119	37.0	19.0	1	36.4	19.6	1	36.7	19.3	1
MUSTANG/ M-096RR	120	36.9	19.3	1	36.4	19.9	1	36.7	19.6	1
KRUGER/ K-098RR	119	37.0	19.0	1	36.3	19.8	1	36.7	19.4	1
KRUGER/ EXP057RR	113	37.1	19.0	1	36.1	20.0	1	36.6	19.5	1
PRAIRIE BRAND/ PB-0936RR	119	36.7	19.0	1	36.2	20.1	1	36.5	19.6	1
DAIRYLAND/ DSR-0903/RR	118	37.1	19.1	1	35.7	20.3	1	36.4	19.7	1
KRUGER/ EXP067RR	113	36.9	19.0	1	35.9	19.8	1	36.4	19.4	1
NUTECH/ NT-0999+RR	119	36.5	18.9	1	36.2	20.0	1	36.4	19.5	1
MUSTANG/ M-097RR	118	36.6	19.0	1	35.8	19.9	1	36.2	19.5	1
WECO/ EXP 6 0.7RR	114	.	.	.	36.2	20.0	1	.	.	.
STINE/ 0943-4	115	.	.	.	36.5	19.8	1	.	.	.
Test avg. :	118	37.3	19.0	1	36.3	19.9	1	36.8	19.4	1
High avg. :	121	38.4	19.3	1	36.7	20.3	1	37.5	19.7	1
Low avg. :	113	36.5	18.7	1	35.7	19.6	1	36.2	19.2	1
* Lsd(.05) :		.	.	0	.	.	0	.	.	0
## TPG-avg. :		.	.	1	.	.	1	.	.	1
### Coef.Var. :		.	.	0	.	.	0	.	.	0
No. Entries :		18	18	18	20	20	20	36	36	36

* DTM= average days from seeding (Brookings- May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

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

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

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
STINE/ 1918-4	126	60	65	60	66	60	66
KRUGER/ K-195+RR/SCN	125	57	65	59	64	58	65
THOMPSON/ T-7234RR	127	58	62	59	65	59	64
NUTECH/ NT-7205+RR	128	59	65	54	63	57	64
PRAIRIE BRAND/ PB-1954RR	122	58	63	58	62	58	63
PRAIRIE BRAND/ PB-1754RR	121	55	63	59	63	57	63
WENSMAN/ W 2195NRR	124	57	64	55	61	56	63
PRAIRIE BRAND/ PB-1525RR	119	56	62	59	62	58	62
ASGROW/ AG1903	122	58	63	55	61	57	62
MUSTANG/ M-156RR	121	54	61	59	62	57	62
NUTECH/ NT-2202RR	128	57	63	51	61	54	62
NORTHSTAR/ NS 1120RR	121	54	60	61	62	58	61
MUSTANG/ M-176RR	121	51	60	57	62	54	61
HEFTY/ 195RR	126	54	61	53	60	54	61
ASGROW/ AG1702	124	55	62	51	59	53	61
THOMPSON/ T-7193RR/SCN	120	53	62	52	60	53	61
DAIRYLAND/ DSR-199RRSTS	123	55	60	56	59	56	60
MUSTANG/ M-115RR	119	53	59	56	60	55	60
KRUGER/ K-156RR	121	54	60	56	60	55	60
WENSMAN/ W 2163RR	117	54	59	56	61	55	60
WENSMAN/ W 2142RR	121	54	61	55	58	55	60
PSI BRAND/ 96110RR	122	55	61	53	58	54	60
KRUGER/ K-100RR	121	56	61	52	58	54	60
DEKALB/ DKB18-51	123	56	62	49	58	53	60
KRUGER/ K-177RR	123	54	61	49	59	52	60
PRAIRIE BRAND/ PB-1294RR	123	51	57	57	61	54	59
DAIRYLAND/ DSR-1301/RR	119	56	61	50	56	53	59
MUSTANG/ M-136RR	118	53	59	51	59	52	59
DAIRYLAND/ DSR1500RRSTS	122	54	59	54	57	54	58
PUBLIC/ SDX00R-026-42N	123	51	57	56	59	54	58
PUBLIC/ SD01-3219R	123	50	56	52	55	51	56
PUBLIC/ SD01-3477R	123	52	56	50	53	51	55
SODAK GENET./ SD1111RR	121	50	55	47	54	49	55
PRAIRIE BRAND/ PB-1956RR	126	58	.	62	.	60	.
NUTECH/ NT-1991RR	123	59	.	59	.	59	.
KRUGER/ K-194RR	126	58	.	59	.	59	.
WECO/ EXP 6 1.5RR	123	55	.	61	.	58	.
KRUGER/ EXP186RR	124	56	.	60	.	58	.
GOLD COUNTRY SEED/ 2713R	121	55	.	61	.	58	.
PRAIRIE BRAND/ PB-1916RR	120	57	.	58	.	58	.
CROW'S/ C1706R	123	58	.	57	.	58	.
HEFTY/ EXP137RR	122	54	.	60	.	57	.
LATHAM/ EXP-E1950R	127	56	.	57	.	57	.

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
KRUGER/ K-188RR/SCN	123	60	.	52	.	56	.
DAIRYLAND/ DSR-1520/RR	123	55	.	56	.	56	.
DAIRYLAND/ DSR1701RRSTS	124	53	.	59	.	56	.
PRAIRIE BRAND/ PB-1885NR	124	57	.	55	.	56	.
PUBLIC/ SDX00R-017-52	124	54	.	57	.	56	.
ASGROW/ AG1102	121	54	.	54	.	54	.
KRUGER/ K-120RR	121	51	.	57	.	54	.
KRUGER/ K-140RR	121	54	.	53	.	54	.
PUBLIC/ SDX01R-00403109	120	52	.	56	.	54	.
PUBLIC/ SD02R-8	124	55	.	53	.	54	.
WECO/ EXP 6 1.0RR	120	54	.	52	.	53	.
WENSMAN/ W 2168NRR	119	52	.	53	.	53	.
PUBLIC/ SDX00R-053-46	126	52	.	54	.	53	.
WENSMAN/ W 2172NRR	119	54	.	50	.	52	.
NORTHSTAR/ EXP 1401RR	117	54	.	50	.	52	.
PUBLIC/ SDX00R-029-3	124	51	.	53	.	52	.
NUTECH/ NT-1127RR	122	53	.	49	.	51	.
PUBLIC/ SD01-1120R	124	54	.	47	.	51	.
PRAIRIE BRAND/ PB-1256RR	120	51	.	49	.	50	.
MIDWEST SEED/ GR1633	120	50	.	48	.	49	.
PUBLIC/ SD00-1018R	122	49	.	43	.	46	.
COYOTE/ 4719RR	.	52	59	.	.	.	.
GOLD COUNTRY SEED/ 8716R	.	54	.	.	.	.	.
KALTENBERG/ KB135RR	124	55	62	.	.	.	.
KALTENBERG/ KB155RR	.	55	61	.	.	.	.
STINE/ 1330-4	119	.	.	58	62	.	.
STINE/ 1108-4	116	.	.	43	.	.	.
ZILLER/ BT 7156NR	.	54	.	.	.	.	.
ZILLER/ BT 7186NR	.	56	.	.	.	.	.
NORTHSTAR/ NS 1809RR	.	56	.	.	.	.	.
RENK/ RS165RR	.	53	61	.	.	.	.
RENK/ RS156RR	124	54	.	.	.	.	.
Test avg. :	122	54	61	54 +	60 +	55	61
High avg. :	128	60	65	62	66	60	66
Low avg. :	116	49	55	43	53	46	55
# Lsd (.05) :		5	3	NS	NS	7	NS
## TPG-avg. :		55	62	43	53	53	55
### Coef.Var. :		5	5	14	10	11	13
No. Entries :		73	37	66	34	128	66

* DTM= average days from seeding (Brookings- May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached 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.

+ Location was hit by hail on July 13, 2006 and resulted in an estimated 40-50% stand defoliation.

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.

Brand/Variety (By 2006 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-156RR	121	37.3	18.3	1	36.9	19.5	1	37.1	18.9	1
MUSTANG/ M-136RR	118	37.0	18.5	1	36.8	19.6	1	36.9	19.1	1
PUBLIC/ SDX01R-00403109	120	37.4	18.7	1	36.4	19.8	1	36.9	19.3	1
DAIRYLAND/ DSR-1520/RR	123	37.1	18.6	1	36.5	19.5	1	36.8	19.1	1
MIDWEST SEED/ GR1633	120	37.0	18.2	1	36.6	19.6	1	36.8	18.9	1
MUSTANG/ M-176RR	121	37.0	18.5	1	36.3	19.6	1	36.7	19.1	1
PSI BRAND/ 96110RR	122	36.3	19.0	1	36.7	19.8	1	36.5	19.4	1
ASGROW/ AG1702	124	36.5	18.9	1	36.4	19.7	1	36.5	19.3	1
KRUGER/ K-100RR	121	36.7	19.1	1	36.2	20.0	1	36.5	19.6	1
DAIRYLAND/ DSR1500RRSTS	122	36.3	18.5	1	36.6	19.5	1	36.5	19.0	1
DAIRYLAND/ DSR-1301/RR	119	36.4	18.7	1	36.4	19.7	1	36.4	19.2	1
PRAIRIE BRAND/ PB-1754RR	121	36.4	18.7	1	36.4	19.5	1	36.4	19.1	1
NORTHSTAR/ NS 1120RR	121	36.4	18.9	1	36.4	20.0	1	36.4	19.5	1
DAIRYLAND/ DSR-199RRSTS	123	36.7	18.5	1	36.0	19.4	1	36.4	19.0	1
DAIRYLAND/ DSR1701RRSTS	124	36.2	18.8	1	36.5	19.5	1	36.4	19.2	1
ASGROW/ AG1102	121	36.6	18.6	1	36.0	19.7	1	36.3	19.2	1
NUTECH/ NT-1127RR	122	36.5	18.8	1	36.0	19.6	1	36.3	19.2	1
WENSMAN/ W 2168NRR	119	36.3	18.8	1	36.2	19.8	1	36.3	19.3	1
PUBLIC/ SDX00R-026-42N	123	36.5	18.6	1	36.0	19.7	1	36.3	19.2	1
HEFTY/ EXP137RR	122	36.5	19.1	1	35.9	19.8	1	36.2	19.5	1
PRAIRIE BRAND/ PB-1954RR	122	36.3	18.9	1	36.1	19.8	1	36.2	19.4	1
WECO/ EXP 6 1.0RR	120	36.2	18.8	1	36.1	20.0	1	36.2	19.4	1
GOLD COUNTRY SEED/ 2713R	121	36.1	19.0	1	36.2	19.8	1	36.2	19.4	1
PRAIRIE BRAND/ PB-1256RR	120	36.2	18.5	1	36.1	19.7	1	36.2	19.1	1
MUSTANG/ M-156RR	121	36.4	18.9	1	35.9	20.0	1	36.2	19.5	1
PUBLIC/ SD00-1018R	122	36.3	19.0	1	36.0	20.1	1	36.2	19.6	1
THOMPSON/ T-7234RR	127	36.1	19.0	1	36.1	19.7	1	36.1	19.4	1
NUTECH/ NT-7205+RR	128	36.3	19.0	1	35.9	19.8	1	36.1	19.4	1
KRUGER/ EXP186RR	124	36.3	19.0	1	35.9	19.8	1	36.1	19.4	1
NORTHSTAR/ EXP 1401RR	117	36.3	18.6	1	35.9	19.7	1	36.1	19.2	1
SODAK GENET./ SD1111RR	121	36.8	18.9	1	35.4	20.2	1	36.1	19.6	1
DEKALB/ DKB18-51	123	36.4	18.9	1	35.7	19.9	1	36.1	19.4	1
KRUGER/ K-120RR	121	36.2	19.0	1	35.9	19.6	1	36.1	19.3	1
KRUGER/ K-140RR	121	36.6	18.8	1	35.5	19.9	1	36.1	19.4	1
WENSMAN/ W 2163RR	117	36.5	18.6	1	35.6	19.4	1	36.1	19.0	1
PUBLIC/ SD01-3219R	123	36.6	18.7	1	35.5	20.0	1	36.1	19.4	1
PRAIRIE BRAND/ PB-1525RR	119	36.1	19.0	1	35.9	19.9	1	36.0	19.5	1
ASGROW/ AG1903	122	36.0	18.8	1	35.9	19.7	1	36.0	19.3	1
WECO/ EXP 6 1.5RR	123	35.9	19.1	1	36.0	19.9	1	36.0	19.5	1
KRUGER/ K-195+RR/SCN	125	36.1	19.3	1	35.8	20.0	1	36.0	19.7	1
KRUGER/ K-188RR/SCN	123	35.8	19.2	1	36.1	20.0	1	36.0	19.6	1
PRAIRIE BRAND/ PB-1885NR	124	35.8	19.2	1	36.1	20.0	1	36.0	19.6	1
WENSMAN/ W 2142RR	121	36.7	19.0	1	35.1	20.3	1	35.9	19.7	1
PUBLIC/ SD01-3477R	123	36.6	18.9	1	35.2	20.3	1	35.9	19.6	1
KRUGER/ K-177RR	123	36.3	19.0	1	35.5	20.1	1	35.9	19.6	1

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.

Brand/Variety (By 2006 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)*			
WENSMAN/ W 2195NRR	124	35.4	19.2	1	36.4	19.8	1	35.9	19.5	1
CROW'S/ C1706R	123	36.0	18.8	1	35.8	19.9	1	35.9	19.4	1
STINE/ 1918-4	126	36.1	19.1	1	35.6	20.0	1	35.9	19.6	1
PUBLIC/ SD01-1120R	124	36.2	19.0	1	35.5	20.2	1	35.9	19.6	1
NUTECH/ NT-2202RR	128	36.0	19.1	1	35.5	20.1	1	35.8	19.6	1
PUBLIC/ SDX00R-017-52	124	35.7	19.1	1	35.8	20.1	1	35.8	19.6	1
PUBLIC/ SDX00R-053-46	126	35.8	19.0	1	35.7	19.6	1	35.8	19.3	1
HEFTY/ 195RR	126	35.8	18.9	1	35.6	19.9	1	35.7	19.4	1
KRUGER/ K-194RR	126	35.4	18.9	1	36.0	19.4	1	35.7	19.2	1
PRAIRIE BRAND/ PB-1916RR	120	36.0	19.0	1	35.3	19.9	1	35.7	19.5	1
PUBLIC/ SDX00R-029-3	124	35.6	19.1	1	35.6	20.0	1	35.6	19.6	1
LATHAM/ EXP-E1950R	127	35.5	18.9	1	35.6	19.6	1	35.6	19.3	1
WENSMAN/ W 2172NRR	119	35.8	18.6	1	35.3	20.2	1	35.6	19.4	1
NUTECH/ NT-1991RR	123	35.6	18.8	1	35.4	19.9	1	35.5	19.4	1
THOMPSON/ T-7193RR/SCN	120	35.9	19.4	1	35.1	20.4	1	35.5	19.9	1
PUBLIC/ SD02R-8	124	35.5	18.9	1	35.3	20.0	1	35.4	19.5	1
PRAIRIE BRAND/ PB-1956RR	126	35.7	19.3	1	34.9	20.2	1	35.3	19.8	1
PRAIRIE BRAND/ PB-1294RR	123	35.4	19.1	1	34.8	20.1	1	35.1	19.6	1
MUSTANG/ M-115RR	119	35.2	19.0	1	34.8	20.1	1	35.0	19.6	1
COYOTE/ 4719RR	.	35.9	19.3	1	.	.	.	.	.	.
GOLD COUNTRY SEED/ 8716R	.	36.0	18.9	1	.	.	.	.	.	.
KALTENBERG/ KB135RR	124	36.8	18.5	1	.	.	.	.	.	.
KALTENBERG/ KB155RR	.	36.6	18.5	1	.	.	.	.	.	.
STINE/ 1330-4	119	.	.	.	36.3	19.9	1	.	.	.
STINE/ 1108-4	116	.	.	.	36.1	20.0	1	.	.	.
ZILLER/ BT 7156NR	.	36.6	18.8	1	.	.	.	.	.	.
ZILLER/ BT 7186NR	.	36.2	18.7	1	.	.	.	.	.	.
NORTHSTAR/ NS 1809RR	.	36.0	18.6	1	.	.	.	.	.	.
RENK/ RS165RR	.	36.8	18.8	1	.	.	.	.	.	.
RENK/ RS156RR	124	36.2	19.0	1	.	.	.	.	.	.
Test avg. :	122	36.2	18.9	1	35.9	19.9	1	36.1	19.4	1
High avg. :	128	37.4	19.4	1	36.9	20.4	1	37.1	19.9	1
Low avg. :	116	35.2	18.2	1	34.8	19.4	1	35.0	18.9	1
* Lsd(.05) :	.	.	.	0	.	.	0	.	.	0
## TPG-avg. :	.	.	.	1	.	.	1	.	.	1
@ Coef. Var. :	.	.	.	0	.	.	0	.	.	0
No. Entries :		73	73	73	66	66	66	128	128	128

* DTM= average days from seeding (Brookings - May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant 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 value to qualify for top performance group.

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

Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
PRAIRIE BRAND/ PB-2243RR	126	60	63	60	66	60	65
PRAIRIE BRAND/ PB-2421RR	127	56	65	58	62	57	64
KRUGER/ K-223+RR	125	55	63	55	64	55	64
MUSTANG/ M-203RR	127	60	63	53	62	57	63
DEKALB/ DKB22-52	124	59	63	53	62	56	63
HEFTY/ 226RR	126	57	61	57	62	57	62
KRUGER/ K-233+RR	129	59	62	55	61	57	62
KRUGER/ K-211+RR	126	61	63	50	60	56	62
NUTECH/ NT-2333RR	126	61	61	53	60	57	61
PRAIRIE BRAND/ PB-2141RR	130	58	62	43	57	51	60
MUSTANG/ M-207RR	124	61	.	56	.	59	.
PRAIRIE BRAND/ PB-2456RR	129	56	.	61	.	59	.
PUBLIC/ SDX00R-020-18	124	59	.	54	.	57	.
KRUGER/ K-255RR	128	58	.	54	.	56	.
KRUGER/ K-259RR	130	54	.	58	.	56	.
MIDWEST SEED/ GR2037	127	60	.	52	.	56	.
NUTECH/ NT-2626RR	128	56	.	54	.	55	.
KRUGER/ EXP226RR	127	55	.	54	.	55	.
KRUGER/ K-235RR/SCN	128	54	.	55	.	55	.
MIDWEST SEED/ GR2231	124	55	.	55	.	55	.
WENSMAN/ W 2200NRR	124	59	.	50	.	55	.
THOMPSON/ T-2220ARR	124	58	.	51	.	55	.
THOMPSON/ T-2213ARR	127	56	.	54	.	55	.
THOMPSON/ T-7206RR	124	58	.	52	.	55	.
PUBLIC/ SD02R-5	125	56	.	54	.	55	.
PUBLIC/ SD02R-51	121	57	.	53	.	55	.
KRUGER/ K-234RR	128	57	.	51	.	54	.
THOMPSON/ T-2666RR	129	56	.	52	.	54	.
PUBLIC/ SDX01R-00403128	124	53	.	54	.	54	.
PUBLIC/ SDX01R-007039	128	56	.	51	.	54	.
NUTECH/ NT-2220RR	127	58	.	47	.	53	.
NUTECH/ NT-2232RR	130	55	.	50	.	53	.
PUBLIC/ SD02R-48	124	57	.	48	.	53	.
ASGROW/ AG2002	121	59	.	44	.	52	.
NUTECH/ NT-2213RR	127	56	.	48	.	52	.
LATHAM/ EXP-E2253R	129	55	.	49	.	52	.
PRAIRIE BRAND/ PB-2216RR	128	54	.	49	.	52	.
WENSMAN/ W 2226RR	126	53	.	50	.	52	.
PUBLIC/ SD02R-50	124	55	.	49	.	52	.
PRAIRIE BRAND/ PB-2183NR	123	57	.	44	.	51	.
THOMPSON/ T-2444RR/SCN	127	50	.	46	.	48	.
ASGROW/ AG2107	.	58	63	.	.	.	.
COYOTE/ 9524RR	.	56	.	.	.	.	.
COYOTE/ 4523RR	.	56	61	.	.	.	.
COYOTE/ 4527RR	.	50	.	.	.	.	.

Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
COYOTE/ EXP 622RR	.	57	.	.	.	.	.
COYOTE/ EXP 625NRR	.	51	.	.	.	.	.
COYOTE/ EXP 626RR	.	54	.	.	.	.	.
SANDS/ SOI 2151NRR	.	58	.	.	.	.	.
WECO/ EXP 6 2.0RR	.	61	.	.	.	.	.
WECO/ EXP 6 2.5RR-STS	.	55	.	.	.	.	.
RENK/ RS246NRR	.	52	.	.	.	.	.
Test avg. :	126	56	63	52+	62+	55	63
High value :	130	61	65	61	66	60	65
Low avg. :	121	50	61	43	57	48	60
# Lsd (.05) :		4	NS	NS	NS	NS	NS
## TPG-avg. :		57	61	43	57	48	60
@ Coef. Var. :		5	4	14	9	10	14
No. Entries :		52	12	41	10	82	20

* DTM= average days from seeding (Brookings- May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached 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.

+ Location was hit by hail on July 13, 2006 resulting in a 40-50% stand defoliation.

Table 5b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.

Brand/Variety (By 2006 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)*			
LATHAM/ EXP-E2253R	129	37.0	18.9	1	37.0	19.1	1	37.0	19.0	1
KRUGER/ EXP226RR	127	37.1	18.6	1	36.8	19.3	1	37.0	19.0	1
PUBLIC/ SDX01R-00403128	124	36.7	18.7	1	36.9	19.4	1	36.8	19.1	1
PUBLIC/ SDX01R-007039	128	36.9	18.6	1	36.7	19.0	1	36.8	18.8	1
PUBLIC/ SD02R-50	124	37.2	18.7	1	36.4	19.5	1	36.8	19.1	1
NUTECH/ NT-2213RR	127	37.1	18.8	1	36.4	19.5	1	36.8	19.2	1
PRAIRIE BRAND/ PB-2216RR	128	36.9	18.7	1	36.6	19.4	1	36.8	19.1	1
PRAIRIE BRAND/ PB-2141RR	130	36.4	19.1	1	37.0	19.4	1	36.7	19.3	1
THOMPSON/ T-2213ARR	127	36.6	18.9	1	36.8	19.5	1	36.7	19.2	1
WENSMAN/ W 2226RR	126	36.9	18.9	1	36.4	19.5	1	36.7	19.2	1
PUBLIC/ SD02R-5	125	36.8	18.8	1	36.5	19.8	1	36.7	19.3	1
KRUGER/ K-234RR	128	36.5	18.8	1	36.5	18.8	1	36.5	18.8	1
NUTECH/ NT-2626RR	128	36.4	18.8	1	36.5	19.1	1	36.5	19.0	1
KRUGER/ K-223+RR	125	36.8	18.6	1	36.1	19.5	1	36.5	19.1	1
KRUGER/ K-235RR/SCN	128	36.2	19.3	1	36.6	19.3	1	36.4	19.3	1
MIDWEST SEED/ GR2231	124	36.8	18.9	1	36.0	19.6	1	36.4	19.3	1
NUTECH/ NT-2232RR	130	36.2	19.1	1	36.5	19.9	1	36.4	19.5	1
PRAIRIE BRAND/ PB-2456RR	129	36.3	18.9	1	36.4	19.4	1	36.4	19.2	1
PRAIRIE BRAND/ PB-2243RR	126	36.6	19.1	1	36.0	19.8	1	36.3	19.5	1
THOMPSON/ T-2444RR/SCN	127	36.3	18.7	1	36.3	19.1	1	36.3	18.9	1
PRAIRIE BRAND/ PB-2421RR	127	36.1	18.6	1	36.4	19.4	1	36.3	19.0	1
KRUGER/ K-255RR	128	36.5	18.9	1	35.9	19.3	1	36.2	19.1	1
THOMPSON/ T-7206RR	124	36.7	19.2	1	35.7	19.7	1	36.2	19.5	1
MIDWEST SEED/ GR2037	127	36.1	19.0	1	36.1	19.5	1	36.1	19.3	1
MUSTANG/ M-203RR	127	36.3	19.2	1	35.9	19.7	1	36.1	19.5	1
KRUGER/ K-233+RR	129	35.9	19.0	1	36.2	19.2	1	36.1	19.1	1
PRAIRIE BRAND/ PB-2183NR	123	36.4	19.3	1	35.7	19.8	1	36.1	19.6	1
THOMPSON/ T-2666RR	129	36.2	19.1	1	35.9	19.3	1	36.1	19.2	1
PUBLIC/ SDX00R-020-18	124	36.1	18.8	1	36.0	19.6	1	36.1	19.2	1
MUSTANG/ M-207RR	124	36.0	19.0	1	35.8	19.6	1	35.9	19.3	1
NUTECH/ NT-2333RR	126	36.0	18.7	1	35.8	19.6	1	35.9	19.2	1
NUTECH/ NT-2220RR	127	36.5	18.7	1	35.3	19.5	1	35.9	19.1	1
HEFTY/ 226RR	126	36.0	18.9	1	35.8	19.5	1	35.9	19.2	1
THOMPSON/ T-2220ARR	124	36.8	18.6	1	35.0	19.5	1	35.9	19.1	1
PUBLIC/ SD02R-48	124	36.5	19.0	1	35.3	19.8	1	35.9	19.4	1
KRUGER/ K-259RR	130	35.6	18.8	1	36.1	19.0	1	35.9	18.9	1
PUBLIC/ SD02R-51	121	36.1	18.6	1	35.4	19.9	1	35.8	19.3	1
ASGROW/ AG2002	121	36.2	19.1	1	35.2	19.9	1	35.7	19.5	1
KRUGER/ K-211+RR	126	36.1	19.0	1	35.3	19.8	1	35.7	19.4	1
DEKALB/ DKB22-52	124	35.9	19.1	1	35.3	19.8	1	35.6	19.5	1

Table 5b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.

Brand/Variety (By 2006 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)*			
WENSMAN/ W 2200NRR	124	36.3	19.3	1	33.6	19.1	1	35.0	19.2	1
ASGROW/ AG2107	.	36.3	19.3	1	.	.	.	.	.	.
COYOTE/ 9524RR	.	35.9	19.1	1	.	.	.	.	.	.
COYOTE/ 4523RR	.	36.3	18.9	1	.	.	.	.	.	.
COYOTE/ 4527RR	.	35.5	18.9	1	.	.	.	.	.	.
COYOTE/ EXP 622RR	.	37.0	18.8	1	.	.	.	.	.	.
COYOTE/ EXP 625NRR	.	36.8	18.7	1	.	.	.	.	.	.
COYOTE/ EXP 626RR	.	36.5	18.9	1	.	.	.	.	.	.
SANDS/ SOI 2151NRR	.	36.5	19.3	1	.	.	.	.	.	.
WECO/ EXP 6 2.0RR	.	36.4	19.0	1	.	.	.	.	.	.
WECO/ EXP 6 2.5RR-STS	.	36.3	18.5	1	.	.	.	.	.	.
RENK/ RS246NRR	.	36.6	18.8	1	.	.	.	.	.	.
Test avg. :	126.0	36.4	18.9	1	36.1	19.5	1	36.2	19.2	1
High avg. :	130.0	37.2	19.3	1	37.0	19.9	1	37.0	19.6	1
Low avg. :	121.0	35.5	18.5	1	33.6	18.8	1	35.0	18.8	1
* Lsd(.05) :	.	.	.	0	.	.	0	.	.	0
## TPG-avg. :	.	.	.	1	.	.	1	.	.	1
### Coef.Var. :	.	.	.	0	.	.	0	.	.	0
No. Entries :		52	52	52	41	41	41	82	82	82

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant 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 value to qualify for top performance group.

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

Table 6a. Roundup Ready™ maturity group-I soybean variety yield averages- southern South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
THOMPSON/ T-7205+RR	124	64	59	48	38	56	49
ASGROW/ AG1903	120	60	56	50	41	55	49
NORTHSTAR/ NS 1809RR	122	65	57	47	38	56	48
KRUGER/ K-195+RR/SCN	121	64	59	48	35	56	47
NUTECH/ NT-1909RR	123	57	57	48	37	53	47
KRUGER/ K-177RR	118	63	58	46	33	55	46
PRAIRIE BRAND/ PB-1954RR	122	59	56	48	36	54	46
PUBLIC/ SDX00R-026-42N	123	61	57	44	34	53	46
KRUGER/ K-156RR	117	57	56	39	32	48	44
PUBLIC/ SD01-3219R	123	56	51	44	33	50	42
SODAK GENET./ SD1111RR	113	47	49	38	30	43	40
PRAIRIE BRAND/ PB-1956RR	125	67	.	52	.	60	.
ASGROW/ AG1702	118	61	.	50	39	56	.
HEFTY/ 195RR	124	64	.	47	.	56	.
KRUGER/ K-188RR/SCN	121	67	.	45	.	56	.
PRAIRIE BRAND/ PB-1916RR	125	65	.	47	.	56	.
WENSMAN/ W 2195NRR	124	61	.	50	.	56	.
NUTECH/ NT-1991RR	123	61	.	49	.	55	.
KRUGER/ K-194RR	123	61	.	49	.	55	.
SANDS/ SOI 1874NRR	120	60	.	48	.	54	.
PRAIRIE BRAND/ PB-1885NR	122	62	.	45	.	54	.
WENSMAN/ W 2172NRR	121	62	.	46	.	54	.
WENSMAN/ W 2163RR	119	61	.	45	.	53	.
NORTHSTAR/ NS 1521NRR	116	60	.	43	.	52	.
WENSMAN/ W 2168NRR	118	55	.	43	.	49	.
KRUGER/ K-140RR	116	54	.	42	.	48	.
COYOTE/ 4719RR	128	.	.	51	38	.	.
MUSTANG/ M-194NRR	123	63	.	.	.	.	.
WECO/ EXP 6 1.5RR	123	.	.	48	.	.	.
GOLD COUNTRY SEED/2717NR	117	62	.	.	.	.	.
STINE/ 1918-4	118	62	58	.	.	.	.
Test avg. :	121	61	56	46	36	53	46
High avg. :	128	67	59	52	41	60	49
Low avg. :	113	47	49	38	30	43	40
# Lsd (.05) :		5	NS	4	6	3	.
## TPG-avg. :		62	49	48	35	57	.
@ Coef. Var. :		5	6	6	8	5	20+
No. Entries :		29	12	28	13	52	22

* DTM= average days from seeding (Beresford- May 17, Geddes- May 25 , 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached 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.

+ .Lsd and TPG-avg. values are not reported because the Coef. of Variation exceeds 15%.

Table 6b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
KRUGER/ K-156RR	117	36.9	19.6	1	38.3	19.2	1	37.6	19.4	1
WENSMAN/ W 2168NRR	118	37.1	19.7	2	37.9	19.7	1	37.5	19.7	2
WENSMAN/ W 2163RR	119	37.3	19.3	2	37.3	19.6	1	37.3	19.5	1
NORTHSTAR/ NS 1521NRR	116	37.0	19.8	2	37.5	19.8	1	37.3	19.8	2
PUBLIC/ SDX00R-026-42N	123	37.0	19.4	2	37.5	19.4	1	37.3	19.4	2
KRUGER/ K-140RR	116	36.3	19.8	2	37.6	19.4	1	37.0	19.6	1
SODAK GENET./ SD1111RR	113	36.4	20.0	3	37.5	19.7	1	37.0	19.9	2
WENSMAN/ W 2195NRR	124	36.7	19.7	2	37.1	19.9	1	36.9	19.8	1
ASGROW/ AG1903	120	36.8	19.3	1	37.0	19.5	1	36.9	19.4	1
ASGROW/ AG1702	118	36.5	19.8	2	37.2	19.6	1	36.9	19.7	2
KRUGER/ K-195+RR/SCN	121	36.6	19.8	2	37.1	20.0	1	36.9	19.9	2
NUTECH/ NT-1909RR	123	36.8	19.6	2	36.9	19.7	1	36.9	19.7	1
HEFTY/ 195RR	124	36.8	19.6	2	36.9	19.8	1	36.9	19.7	2
PUBLIC/ SD01-3219R	123	36.5	19.5	2	37.0	19.5	1	36.8	19.5	2
WENSMAN/ W 2172NRR	121	36.5	19.8	2	36.8	19.8	1	36.7	19.8	1
SANDS/ SOI 1874NRR	120	36.5	20.0	2	36.7	19.9	1	36.6	20.0	1
THOMPSON/ T-7205+RR	124	36.7	19.5	2	36.5	19.8	1	36.6	19.7	1
KRUGER/ K-188RR/SCN	121	36.4	19.9	2	36.7	20.1	1	36.6	20.0	2
PRAIRIE BRAND/ PB-1954RR	122	36.4	19.5	2	36.7	19.7	1	36.6	19.6	2
KRUGER/ K-177RR	118	36.4	19.6	2	36.6	19.5	1	36.5	19.6	2
KRUGER/ K-194RR	123	36.8	19.3	2	36.2	19.9	1	36.5	19.6	1
PRAIRIE BRAND/ PB-1916RR	125	36.6	19.4	2	36.4	19.7	1	36.5	19.6	1
PRAIRIE BRAND/ PB-1885NR	122	36.2	19.9	2	36.6	19.9	1	36.4	19.9	1
NORTHSTAR/ NS 1809RR	122	36.6	19.4	2	36.2	19.6	1	36.4	19.5	2
NUTECH/ NT-1991RR	123	36.5	19.5	2	36.2	19.7	1	36.4	19.6	1
PRAIRIE BRAND/ PB-1956RR	125	35.9	19.7	3	35.7	19.9	1	35.8	19.8	2
COYOTE/ 4719RR	128	.	.	.	36.5	19.7	1	.	.	.
MUSTANG/ M-194NRR	123	36.5	19.8	2	.	.	.	.	.	.
WECO/ EXP 6 1.5RR	123	.	.	.	36.8	20.0	1	.	.	.
GOLD COUNTRY SEED/2717NR	117	36.4	20.0	2	.	.	.	.	.	.
STINE/ 1918-4	118	36.8	19.7	2	.	.	.	.	.	.
Test avg. :	121	36.6	19.7	2	36.9	19.7	1	36.8	19.7	1
High avg. :	128	37.3	20.0	3	38.3	20.1	1	37.6	20.0	2
Low avg. :	113	35.9	19.3	1	35.7	19.2	1	35.8	19.4	1
* Lsd(.05) :		.	.	1	.	.	0	.	.	0.4
## TPG-avg. :		.	.	2	.	.	1	.	.	1
@ Coef. Var. :		.	.	22	.	.	0	.	.	22
No. Entries :		29	29	29	28	28	28	52	52	52

* DTM= average days from seeding (Beresford- May 17, Geddes- May 25, 2006) to maturity; a missing value indicates a site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant 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 value to qualify for top performance group.

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

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes			
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr
DEKALB/ DKB25-51	127	76	66	48	40	62	53
SANDS/ SOI 2448RR	127	67	63	47	38	57	51
KRUGER/ K-233+RR	126	68	62	46	37	57	50
KRUGER/ K-289+RR	131	66	61	46	39	56	50
SANDS/ SOI 2754RR	131	64	58	49	39	57	49
PRAIRIE BRAND/ PB-2141RR	125	69	62	43	36	56	49
PRAIRIE BRAND/ PB-2421RR	126	68	61	44	36	56	49
PRAIRIE BRAND/ PB-2643RR	130	65	58	47	38	56	48
ASGROW/ AG2403	124	66	62	43	33	55	48
MUSTANG/ M-264RR	130	65	59	44	37	55	48
COYOTE/ 9524RR	127	61	59	45	36	53	48
LATHAM/ L2635R	129	65	57	47	37	56	47
DAIRYLAND/ DSR2500RRSTS	128	63	57	48	37	56	47
SANDS/ SOI 2673RR	126	66	60	42	34	54	47
SANDS/ SOI 2884RR	130	64	58	44	35	54	47
PRAIRIE BRAND/ PB-2243RR	125	64	59	44	34	54	47
NUTECH/ NT-2890RR	129	61	57	44	37	53	47
RENK/ RS265RR	129	60	59	44	34	52	47
DAIRYLAND/ DSR-234/RR	124	62	56	45	36	54	46
NUTECH/ NT-2770RR/SCN	129	57	55	48	37	53	46
DAIRYLAND/ DSR-2600/RR	129	63	56	42	35	53	46
PRAIRIE BRAND/ PB-2565RR	131	59	55	47	36	53	46
KRUGER/ K-255RR	127	64	54	45	35	55	45
KRUGER/ K-223+RR	124	61	56	41	32	51	44
DAIRYLAND/ DSR-2300/RR	126	68	.	49	.	59	.
THOMPSON/ T-2220ARR	126	68	.	50	.	59	.
ASGROW/ AG2605	127	70	.	46	.	58	.
MUSTANG/ M-207RR	124	67	.	48	.	58	.
KRUGER/ K-259RR	131	66	.	49	.	58	.
LATHAM/ EXP-E2810R	131	66	.	49	.	58	.
DAIRYLAND/ DSR-2200/RR	127	68	.	48	.	58	.
LATHAM/ L2500R	126	68	.	46	.	57	.
LATHAM/ L2646R	128	67	.	46	.	57	.
PRAIRIE BRAND/ PB-2645RR	130	70	.	44	.	57	.
CROW'S/ C2917R	133	66	.	47	.	57	.
SANDS/ SOI 2609RR	131	66	.	45	.	56	.
DAIRYLAND/ DSR-2511/RR	133	64	.	47	.	56	.
MIDWEST SEED/ GR2731	131	65	.	46	.	56	.
THOMPSON/ T-2213ARR	127	66	.	45	.	56	.
THOMPSON/ T-2666RR	129	68	.	44	.	56	.
FARM ADVANTAGE/ 7224	126	66	.	44	.	55	.
NUTECH/ NT-2777RR/SCN	132	60	.	49	.	55	.
NUTECH/ NT-2890+RR	130	64	.	45	.	55	.
KRUGER/ K-234RR	126	64	.	45	.	55	.
LATHAM/ L2775R	129	63	.	47	.	55	.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
DAIRYLAND/ DSR2000RRSTS	123	66	.	44	.	55	.
DAIRYLAND/ DSR-2820/RR	125	67	.	43	.	55	.
WENSMAN/ W 2253RR	129	62	.	47	.	55	.
WENSMAN/ W 2200NRR	123	66	.	43	.	55	.
WENSMAN/ W 2226RR	127	63	.	46	.	55	.
THOMPSON/ T-2300RR	127	63	.	47	.	55	.
CROW'S/ C2618R	128	62	.	47	.	55	.
FARM ADVANTAGE/ 7253	129	60	.	47	.	54	.
NUTECH/ NT-2333RR	123	64	.	43	.	54	.
NUTECH/ NT-2220RR	125	62	.	45	.	54	.
WECO/ EXP 6 2.0RR	125	67	.	40	.	54	.
WECO/ EXP 6 2.8RR-SCN	135	64	.	44	.	54	.
DAIRYLAND/ DSR2702RRSTS	129	62	.	46	.	54	.
PRAIRIE BRAND/ PB-2456RR	127	59	.	48	.	54	.
PRAIRIE BRAND/ PB-2536RR	129	62	.	46	.	54	.
THOMPSON/ T-2707RR	131	59	.	49	.	54	.
THOMPSON/ T-2999RR	132	65	.	42	.	54	.
PUBLIC/ SD02R-48	122	61	.	46	.	54	.
MUSTANG/ M-227RR	126	65	.	41	.	53	.
MUSTANG/ M-237RR	125	61	.	45	.	53	.
DEKALB/ DKB27-53	131	59	.	47	.	53	.
NUTECH/ NT-2213RR	126	60	.	45	.	53	.
WECO/ EXP 6 2.5RR-ST5	129	60	.	46	.	53	.
PRAIRIE BRAND/ PB-2216RR	126	61	.	45	.	53	.
MIDWEST SEED/ GR2037	124	63	.	43	.	53	.
MIDWEST SEED/ GR2651	128	60	.	45	.	53	.
THOMPSON/ T-2626RR	126	59	.	47	.	53	.
ASGROW/ AG2802	132	57	.	47	.	52	.
MUSTANG/ M-257RR	129	61	.	43	.	52	.
NUTECH/ NT-2232RR	130	62	.	42	.	52	.
HEFTY/ 226RR	123	60	.	44	.	52	.
HEFTY/ 266RR	130	59	.	45	.	52	.
KRUGER/ K-235RR/SCN	125	59	.	45	.	52	.
PRAIRIE BRAND/ PB-2636NR	130	59	.	44	.	52	.
RENK/ RS246NRR	124	57	.	46	.	52	.
MUSTANG/ M-246NRR	125	59	.	42	.	51	.
WECO/ EXP 6 2.6RR-SCN	128	57	.	45	.	51	.
KRUGER/ K-211+RR	125	61	.	40	.	51	.
PUBLIC/ SD02R-5	123	60	.	41	.	51	.
PUBLIC/ SD02R-51	124	61	.	41	.	51	.
SANDS/ SOI 2675NRR	126	60	.	40	.	50	.
KRUGER/ K-287RR/SCN	131	56	.	43	.	50	.
LATHAM/ EXP-E2976R	132	56	.	44	.	50	.
DAIRYLAND/ DST22-003/RR	124	57	.	43	.	50	.
MUSTANG/ M-247NRR	127	57	.	41	.	49	.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
SANDS/ SOI 2511NRR	128	56	.	42	.	49	.
THOMPSON/ T-2444RR/SCN	126	56	.	40	.	48	.
COYOTE/ 4523RR	127	.	.	43	.	.	.
COYOTE/ 4527RR	132	64	59	.	.	.	.
COYOTE/ EXP 622RR	127	.	.	46	.	.	.
COYOTE/ EXP 625NRR	125	54	.	.	.	.	.
COYOTE/ EXP 626RR	133	66	.	.	.	.	.
MUSTANG/ M-203RR	122	66	61	.	.	.	.
DEKALB/ DKB22-52	123	66	61	.	.	.	.
DEKALB/ DKB26-53	126	64	59	.	.	.	.
SANDS/ SOI 2151NRR	125	.	.	46	36	.	.
KALTENBERG/ KB256RR	128	62	58	.	.	.	.
KALTENBERG/ KB276RR	131	69	62	.	.	.	.
KALTENBERG/ KB258RR	126	64	.	.	.	.	.
KALTENBERG/ KB266RR	129	64	.	.	.	.	.
ZILLER/ BT 7227NR	121	60	.	.	.	.	.
Test avg. :	128	63	59	45	36	54	48
High avg. :	135	76	66	50	40	62	53
Low avg. :	121	54	54	40	32	48	44
# Lsd (.05) :		7	6	4	4	4	.
## TPG-avg. :		69	60	46	36	58	.
@ Coef. Var. :		7	6	6	7	7	19+
No. Entries :		103	30	95	25	184	48

* DTM= average days from seeding (Beresford- May 17, Geddes- May 25, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached 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.

+ Lsd and TPG-avg. values are not reported because the Coef. of Variation exceeds 15%.

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
DAIRYLAND/ DSR2000RRSTS	123	37.6	19.3	2	37.1	19.5	1	37.4	19.4	1
MUSTANG/ M-227RR	126	36.9	19.5	2	37.3	19.5	1	37.1	19.5	2
NUTECH/ NT-2770RR/SCN	129	36.8	18.9	2	37.4	19.2	1	37.1	19.1	2
THOMPSON/ T-2707RR	131	36.8	19.2	3	37.3	19.2	1	37.1	19.2	2
LATHAM/ L2500R	126	37.0	19.3	2	37.0	19.5	1	37.0	19.4	2
WENSMAN/ W 2226RR	127	37.1	19.4	2	36.9	19.5	1	37.0	19.5	2
NUTECH/ NT-2213RR	126	36.8	19.4	2	37.1	19.4	1	37.0	19.4	2
DAIRYLAND/ DSR-2200/RR	127	36.9	19.4	2	37.0	19.5	1	37.0	19.5	1
PRAIRIE BRAND/ PB-2565RR	131	36.9	19.0	2	37.0	19.4	1	37.0	19.2	2
THOMPSON/ T-2213ARR	127	36.8	19.5	2	37.1	19.7	1	37.0	19.6	2
FARM ADVANTAGE/ 7224	126	36.9	19.4	2	36.9	19.7	1	36.9	19.6	2
CROW'S/ C2618R	128	37.0	19.2	2	36.8	19.4	1	36.9	19.3	2
MIDWEST SEED/ GR2651	128	36.7	19.2	2	37.0	19.4	1	36.9	19.3	1
FARM ADVANTAGE/ 7253	129	36.8	19.1	2	36.9	19.4	1	36.9	19.3	2
WECO/ EXP 6 2.5RR-ST5	129	36.9	19.2	3	36.8	19.4	1	36.9	19.3	2
KRUGER/ K-255RR	127	36.9	19.2	2	36.8	19.5	1	36.9	19.4	2
PRAIRIE BRAND/ PB-2216RR	126	36.6	19.6	2	37.0	19.6	1	36.8	19.6	2
WENSMAN/ W 2253RR	129	36.7	19.2	2	36.9	19.4	1	36.8	19.3	2
WECO/ EXP 6 2.6RR-SCN	128	36.8	19.4	2	36.7	19.6	1	36.8	19.5	2
LATHAM/ L2635R	129	36.6	19.4	2	36.9	19.4	1	36.8	19.4	2
DAIRYLAND/ DSR2702RRSTS	129	36.7	19.3	2	36.8	19.3	1	36.8	19.3	1
THOMPSON/ T-2444RR/SCN	126	36.8	18.8	3	36.7	19.4	1	36.8	19.1	2
RENK/ RS265RR	129	36.7	19.1	2	36.8	19.5	1	36.8	19.3	2
MUSTANG/ M-247NRR	127	36.7	19.0	3	36.7	19.2	1	36.7	19.1	2
MUSTANG/ M-257RR	129	36.6	19.1	2	36.8	19.4	1	36.7	19.3	2
KRUGER/ K-223+RR	124	36.7	19.2	1	36.7	19.4	1	36.7	19.3	1
LATHAM/ EXP-E2976R	132	36.5	19.1	3	36.9	19.3	1	36.7	19.2	2
DAIRYLAND/ DST22-003/RR	124	36.6	19.4	2	36.8	19.4	1	36.7	19.4	2
THOMPSON/ T-2626RR	126	36.6	19.5	1	36.8	19.5	1	36.7	19.5	1
SANDS/ SOI 2511NRR	128	36.6	18.9	3	36.7	19.2	1	36.7	19.1	2
PRAIRIE BRAND/ PB-2141RR	125	36.6	19.6	1	36.7	19.6	1	36.7	19.6	1
DAIRYLAND/ DSR-234/RR	124	36.5	19.4	1	36.8	19.4	1	36.7	19.4	1
DAIRYLAND/ DSR2500RRSTS	128	36.6	19.2	2	36.6	19.5	1	36.6	19.4	2
WENSMAN/ W 2200NRR	123	36.7	19.6	1	36.5	19.6	1	36.6	19.6	1
KRUGER/ K-287RR/SCN	131	36.3	19.1	3	36.9	19.3	1	36.6	19.2	2
MUSTANG/ M-246NRR	125	36.1	19.5	2	37.0	19.4	1	36.6	19.5	2
HEFTY/ 266RR	130	36.6	19.2	1	36.5	19.3	1	36.6	19.3	1
PRAIRIE BRAND/ PB-2243RR	125	36.6	19.5	1	36.5	19.6	1	36.6	19.6	1
RENK/ RS246NRR	124	36.5	19.3	1	36.6	19.4	1	36.6	19.4	1
CROW'S/ C2917R	133	36.5	19.2	3	36.6	19.6	1	36.6	19.4	2
HEFTY/ 226RR	123	36.7	19.5	1	36.3	19.6	1	36.5	19.6	1
KRUGER/ K-233+RR	126	36.5	19.5	1	36.5	19.6	1	36.5	19.6	1
KRUGER/ K-235RR/SCN	125	36.5	19.4	1	36.5	19.7	1	36.5	19.6	1
PRAIRIE BRAND/ PB-2456RR	127	36.5	19.5	2	36.5	19.3	1	36.5	19.4	2
MIDWEST SEED/ GR2037	124	36.7	19.6	1	36.3	19.7	1	36.5	19.7	1

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006 (continued).

Brand/Variety (By 2006 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THOMPSON/ T-2220ARR	126	36.3	19.1	2	36.7	19.4	1	36.5	19.3	1
ASGROW/ AG2403	124	36.3	19.6	1	36.6	19.6	1	36.5	19.6	1
ASGROW/ AG2605	127	36.4	19.4	2	36.5	19.4	1	36.5	19.4	2
MUSTANG/ M-207RR	124	36.4	19.4	1	36.5	19.6	1	36.5	19.5	1
MUSTANG/ M-237RR	125	36.5	19.4	2	36.4	19.4	1	36.5	19.4	1
LATHAM/ EXP-E2810R	131	36.3	19.0	2	36.6	19.4	1	36.5	19.2	2
PRAIRIE BRAND/ PB-2643RR	130	36.5	19.2	2	36.3	19.6	1	36.4	19.4	2
PUBLIC/ SD02R-5	123	36.4	19.5	1	36.4	19.7	1	36.4	19.6	1
KRUGER/ K-289+RR	131	36.6	19.2	2	36.1	19.7	1	36.4	19.5	2
SANDS/ SOI 2754RR	131	36.3	19.2	2	36.4	19.4	1	36.4	19.3	1
KRUGER/ K-211+RR	125	36.3	19.5	1	36.4	19.7	1	36.4	19.6	1
LATHAM/ L2775R	129	36.4	19.3	1	36.3	19.6	1	36.4	19.5	1
ASGROW/ AG2802	132	35.8	19.4	3	36.8	19.3	1	36.3	19.4	2
SANDS/ SOI 2675NRR	126	36.2	19.7	2	36.4	19.6	1	36.3	19.7	1
NUTECH/ NT-2220RR	125	36.2	19.2	1	36.4	19.3	1	36.3	19.3	1
THOMPSON/ T-2300RR	127	36.3	19.4	2	36.3	19.6	1	36.3	19.5	2
NUTECH/ NT-2333RR	123	36.3	19.4	2	36.2	19.6	1	36.3	19.5	2
WECO/ EXP 6 2.0RR	125	36.6	19.3	1	35.9	19.8	1	36.3	19.6	1
KRUGER/ K-234RR	126	36.3	19.4	2	36.2	19.6	1	36.3	19.5	1
LATHAM/ L2646R	128	36.3	19.1	2	36.2	19.3	1	36.3	19.2	2
DAIRYLAND/ DSR-2300/RR	126	36.2	19.4	2	36.3	19.6	1	36.3	19.5	1
DAIRYLAND/ DSR-2820/RR	125	36.3	19.1	1	36.2	19.5	1	36.3	19.3	1
DAIRYLAND/ DSR-2511/RR	133	36.1	19.3	2	36.4	19.6	1	36.3	19.5	2
PRAIRIE BRAND/ PB-2421RR	126	36.2	19.4	1	36.3	19.4	1	36.3	19.4	1
PRAIRIE BRAND/ PB-2536RR	129	36.4	19.2	2	36.1	19.4	1	36.3	19.3	1
MUSTANG/ M-264RR	130	36.5	19.1	3	35.9	19.5	1	36.2	19.3	2
KRUGER/ K-259RR	131	36.5	19.3	2	35.9	19.6	1	36.2	19.5	2
SANDS/ SOI 2884RR	130	35.7	19.6	2	36.5	19.5	1	36.1	19.6	2
MIDWEST SEED/ GR2731	131	36.1	19.4	3	36.1	19.6	1	36.1	19.5	2
PUBLIC/ SD02R-48	122	36.2	19.5	1	36.0	19.7	1	36.1	19.6	1
NUTECH/ NT-2777RR/SCN	132	35.9	19.5	2	36.3	19.5	1	36.1	19.5	2
NUTECH/ NT-2890RR	129	36.2	19.1	2	35.9	19.6	1	36.1	19.4	1
NUTECH/ NT-2890+RR	130	36.2	19.2	1	35.9	19.7	1	36.1	19.5	1
PRAIRIE BRAND/ PB-2645RR	130	36.2	19.2	2	35.9	19.7	1	36.1	19.5	2
SANDS/ SOI 2448RR	127	36.1	19.5	2	35.9	19.9	1	36.0	19.7	1
WECO/ EXP 6 2.8RR-SCN	135	35.4	19.3	3	36.6	19.3	1	36.0	19.3	2
PRAIRIE BRAND/ PB-2636NR	130	35.7	19.5	3	36.3	19.4	1	36.0	19.5	2
DAIRYLAND/ DSR-2600/RR	129	36.2	19.0	2	35.7	19.4	1	36.0	19.2	2
PUBLIC/ SD02R-51	124	36.0	19.5	1	35.8	19.7	1	35.9	19.6	1
NUTECH/ NT-2232RR	130	36.0	19.5	2	35.7	19.9	1	35.9	19.7	2
DEKALB/ DKB27-53	131	35.8	19.4	3	35.9	19.8	1	35.9	19.6	2
SANDS/ SOI 2609RR	131	35.9	19.5	2	35.7	19.7	1	35.8	19.6	2
DEKALB/ DKB25-51	127	35.8	19.7	2	35.6	19.9	1	35.7	19.8	2
THOMPSON/ T-2666RR	129	35.6	19.8	1	35.7	19.8	1	35.7	19.8	1
COYOTE/ 9524RR	127	35.4	19.6	1	35.6	19.9	1	35.5	19.8	1

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006 (continued).

Brand/Variety (By 2006 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THOMPSON/ T-2999RR	132	35.4	19.8	3	35.5	19.6	1	35.5	19.7	2
SANDS/ SOI 2673RR	126	35.6	19.5	2	34.8	19.2	1	35.2	19.4	1
COYOTE/ 4523RR	127	.	.	.	36.2	19.5	1	.	.	.
COYOTE/ 4527RR	132	36.3	19.3	1	.	.	.	.	.	.
COYOTE/ EXP 622RR	127	.	.	.	37.1	19.6	1	.	.	.
COYOTE/ EXP 625NRR	125	36.9	19.0	2	.	.	.	.	.	.
COYOTE/ EXP 626RR	133	36.5	19.0	2	.	.	.	.	.	.
MUSTANG/ M-203RR	122	36.8	19.4	1	.	.	.	.	.	.
DEKALB/ DKB22-52	123	36.8	19.6	1	.	.	.	.	.	.
DEKALB/ DKB26-53	126	37.0	19.4	2	.	.	.	.	.	.
SANDS/ SOI 2151NRR	125	.	.	.	36.1	20.1	1	.	.	.
KALTENBERG/ KB256RR	128	36.4	19.3	1	.	.	.	.	.	.
KALTENBERG/ KB276RR	131	36.1	19.3	2	.	.	.	.	.	.
KALTENBERG/ KB258RR	126	36.7	19.4	2	.	.	.	.	.	.
KALTENBERG/ KB266RR	129	36.8	19.0	3	.	.	.	.	.	.
ZILLER/ BT 7227NR	121	37.0	19.4	1	.	.	.	.	.	.
Test avg. :	128	36.4	19.3	2	36.5	19.5	1	36.4	19.4	1
High avg. :	135	37.6	19.8	3	37.4	20.1	1	37.4	19.8	2
Low avg. :	121	35.4	18.8	1	34.8	19.2	1	35.2	19.1	1
* Lsd(.05) :		.	.	1	.	.	0	.	.	0.4
## TPG-avg. :		.	.	2	.	.	1	.	.	1
@ Coef. Var. :		.	.	28	.	.	0	.	.	26
No. Entries :		103	103	103	95	95	95	184	184	184

* DTM= average days from seeding (Beresford- May 17, Geddes- May 25, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant 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 value to qualify for top performance group.

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

Table D. 2006 Conventional soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by entrants; and performance table number(s).

Brand / Variety	Mat. Grp.	Gene Resistance	Table No.(s)
COYOTE/ 5525	2.5	Rps1k	9,10
DAIRYLAND/ DSR-22/STSUL	2.2	Not Reported	9,10
RICHLAND ORGANICS/ 9061	0.9	rps1 - No resist.	8
RICHLAND ORGANICS/ 9532	0.9	rps1 - No resist.	8
SANDS/ EXP2879N	2.8	Not Reported	10
SANDS/ SOI 239N	2.3	Not Reported	10

Public varieties & Experimental lines

PUBLIC/ HAMLIN	0.9	Rps1k	8,9
PUBLIC/ SURGE	0.7	Rps1 (Rps1a)	8,9
PUBLIC/ SD00-1587	2	Not Reported	9,10
PUBLIC/ SD00-167	1	Not Reported	8,9
PUBLIC/ SD00-266	1	Not Reported	8,9,10
PUBLIC/ SD00-632	1	Not Reported	8,9,10
PUBLIC/ SD00-732	2	Not Reported	9,10
PUBLIC/ SD00-833	0	Rps1k	8,9
PUBLIC/ SD00-895	0	Rps1c	8
PUBLIC/ SD02-1045	1	Rps1k, Rps6	8,9
PUBLIC/ SD02-1138	1	Rps1c	8,9,10
PUBLIC/ SD02-14	1	Rps1k	8,9
PUBLIC/ SD02-195	2	Not Reported	9,10
PUBLIC/ SD02-22	2	Not Reported	9,10
PUBLIC/ SD02-26	2	Not Reported	9,10
PUBLIC/ SD02-829	0	Rps1k	8,9
PUBLIC/ SD02-906	1	Rps1k	8,9,10
PUBLIC/ SD02-911	1	Rps1k	8,9
PUBLIC/ SD02-923	1	Rps1k	8,9
PUBLIC/ SD02-96	2	Not Reported	9,10
PUBLIC/ SD03-1537	0	Rps1k	8,9
PUBLIC/ SD03-1607	1	Rps1k	8,9,10
PUBLIC/ SD03-1899	1	Rps1k	8,9,10
PUBLIC/ SD03-2154	0	Rps1k	8,9
PUBLIC/ SD03-2327	0	Rps1k	8,9

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, 2005-2006.

Brand/Variety (By maturity group & 2006 yield)	DTM*	Averages by Maturity Group			
		MG-0		MG-I	
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr
PUBLIC/ SD03-1537	125	31	.	.	.
PUBLIC/ SD00-833	123	29	.	.	.
PUBLIC/ SD03-2327	121	27	.	.	.
PUBLIC/ HAMLIN	120	24	33	.	.
PUBLIC/ SURGE	120	23	33	.	.
PUBLIC/ SD02-829	124	22	33	.	.
RICHLAND ORGANICS/ 9532	113	21	.	.	.
PUBLIC/ SD00-895	124	21	.	.	.
PUBLIC/ SD03-2154	119	21	.	.	.
RICHLAND ORGANICS/ 9061	116	20	.	.	.
PUBLIC/ SD00-632	.	.	.	26	35
PUBLIC/ SD02-14	.	.	.	25	35
PUBLIC/ SD03-1899	.	.	.	25	.
PUBLIC/ SD02-1045	.	.	.	24	.
PUBLIC/ SD00-266	124	.	.	23	.
PUBLIC/ SD02-1138	123	.	.	23	.
PUBLIC/ SD03-1607	124	.	.	23	.
PUBLIC/ SD02-911	.	.	.	22	.
PUBLIC/ SD02-923	.	.	.	22	.
PUBLIC/ SD00-167	124	.	.	21	.
PUBLIC/ SD02-906	.	.	.	21	33
Test avg.:	121	24	33	23	34
High avg.:	125	31	33	26	35
Low avg. :	113	20	33	21	33
# Lsd (.05):		3	NS	3	NS
## TPG-value:		28	33	23	33
@ Coef. Var.:		7	8	7	7
No. Entries:		10	3	11	3

* DTM= average days from seeding on May 23, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached 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, 2006.

Brand/Variety (By maturity group & protein)	DTM*	2006 Averages by Maturity Group					
		MG-0			MG-I		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
RICHLAND ORGANICS/ 9061	116	39.3	17.1	1	.	.	.
PUBLIC/ HAMLIN	120	37.9	19.0	1	.	.	.
PUBLIC/ SURGE	120	37.7	19.0	1	.	.	.
PUBLIC/ SD00-895	124	37.3	18.8	1	.	.	.
PUBLIC/ SD00-833	123	37.0	18.9	1	.	.	.
PUBLIC/ SD02-829	124	37.0	19.0	1	.	.	.
PUBLIC/ SD03-1537	125	36.9	18.8	1	.	.	.
PUBLIC/ SD03-2327	121	36.8	19.0	1	.	.	.
PUBLIC/ SD03-2154	119	36.6	19.4	1	.	.	.
RICHLAND ORGANICS/ 9532	113	36.3	19.5	1	.	.	.
PUBLIC/ SD00-632	.	.	.	.	37.3	18.6	1
PUBLIC/ SD00-167	124	.	.	.	37.0	19.0	1
PUBLIC/ SD02-14	.	.	.	.	36.6	19.0	1
PUBLIC/ SD00-266	124	.	.	.	36.4	19.0	1
PUBLIC/ SD03-1607	124	.	.	.	36.4	19.1	1
PUBLIC/ SD02-906	.	.	.	.	36.3	19.3	1
PUBLIC/ SD02-911	.	.	.	.	36.3	19.1	1
PUBLIC/ SD02-1045	.	.	.	.	36.3	19.0	1
PUBLIC/ SD02-923	.	.	.	.	36.1	19.0	1
PUBLIC/ SD03-1899	.	.	.	.	35.8	19.0	1
PUBLIC/ SD02-1138	123	.	.	.	35.3	19.4	1
Test avg. :	121	37.3	18.9	1	36.3	19.0	1
High avg. :	125	39.3	19.5	1	37.3	19.4	1
Low avg. :	113	36.3	17.1	1	35.3	18.6	1
* Lsd(.05) :	.	.	.	0	.	.	0
## TPG-avg. :	.	.	.	1	.	.	1
@ Coef. Var. :	.	.	.	0	.	.	0
No. Entries :		10	10	10	11	11	11

* DTM= average days from seeding on May 25, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant 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 value to qualify for top performance group.

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

Table 9a. Non-Roundup Ready™ maturity group-0, -I & -II soybean variety yield averages- Brookings, South Dakota, 2005-2006.

Brand/Variety (By maturity group & 2006 yield)	DTM*	Averages by Maturity Group					
		MG-0		MG-I		MG-II	
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr
PUBLIC/ SD00-833	.	40	.	.	.	.	.
PUBLIC/ SD03-1537	.	40	.	.	.	.	.
PUBLIC/ SD02-829	124	39	.	.	.	.	.
PUBLIC/ SD03-2154	123	38	.	.	.	.	.
PUBLIC/ SD03-2327	124	35	.	.	.	.	.
PUBLIC/ HAMLIN	123	34	.	.	.	.	.
PUBLIC/ SURGE	123	33	.	.	.	.	.
PUBLIC/ SD02-906	.	.	.	52	.	.	.
PUBLIC/ SD02-911	.	.	.	49	.	.	.
PUBLIC/ SD00-632	.	.	.	47	.	.	.
PUBLIC/ SD02-1138	123	.	.	45	.	.	.
PUBLIC/ SD03-1607	.	.	.	45	.	.	.
PUBLIC/ SD03-1899	.	.	.	44	.	.	.
PUBLIC/ SD02-923	.	.	.	43	.	.	.
PUBLIC/ SD02-1045	.	.	.	43	.	.	.
PUBLIC/ SD00-167	.	.	.	42	.	.	.
PUBLIC/ SD02-14	.	.	.	41	.	.	.
PUBLIC/ SD00-266	.	.	.	39	.	.	.
PUBLIC/ SD02-22	.	.	.	.	.	52	.
DAIRYLAND/ DSR-22/STSUL	.	.	.	.	.	50	.
PUBLIC/ SD00-732	.	.	.	.	.	50	.
PUBLIC/ SD02-96	.	.	.	.	.	50	.
PUBLIC/ SD02-195	.	.	.	.	.	50	.
PUBLIC/ SD02-26	.	.	.	.	.	49	.
PUBLIC/ SD00-1587	.	.	.	.	.	48	.
COYOTE/ 5525	.	.	.	.	.	34	.
Test avg. :	123	37	.	45	.	48	.
High avg. :	124	40	.	52	.	52	.
Low avg. :	123	33	.	39	.	34	.
# Lsd (.05) :		4	.	6	.	6	.
## TPG-avg. :		36	.	46	.	46	.
@ Coef. Var. :		7	.	7	.	7	.
No. Entries :		7	.	11	.	8	.

* DTM= days from seeding on May 22, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached 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-0, -I & -II soybean variety protein, oil, and lodging score averages- Brookings, South Dakota, 2006.

Brand/Variety (By maturity group & protein)	DTM*	2006 Averages by Maturity Group								
		MG-0			MG-I			MG-II		
		Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)
PUBLIC/ HAMLIN	123	38.5	18.6	1	.	.	.	.	.	.
PUBLIC/ SURGE	123	37.6	18.9	1	.	.	.	.	.	.
PUBLIC/ SD02-829	124	37.2	18.9	1	.	.	.	.	.	.
PUBLIC/ SD03-1537	.	37.2	19.2	1	.	.	.	.	.	.
PUBLIC/ SD00-833	.	37.1	19.3	1	.	.	.	.	.	.
PUBLIC/ SD03-2154	123	37.0	19.2	1	.	.	.	.	.	.
PUBLIC/ SD03-2327	124	36.8	19.1	1	.	.	.	.	.	.
PUBLIC/ SD02-1045	.	.	.	.	37.5	18.7	1	.	.	.
PUBLIC/ SD02-911	.	.	.	.	37.0	18.5	1	.	.	.
PUBLIC/ SD00-632	.	.	.	.	36.9	18.3	1	.	.	.
PUBLIC/ SD00-167	.	.	.	.	36.9	19.0	1	.	.	.
PUBLIC/ SD00-266	.	.	.	.	36.8	18.9	1	.	.	.
PUBLIC/ SD02-14	.	.	.	.	36.5	18.7	1	.	.	.
PUBLIC/ SD02-906	.	.	.	.	36.5	18.9	1	.	.	.
PUBLIC/ SD03-1607	.	.	.	.	36.4	18.8	1	.	.	.
PUBLIC/ SD02-1138	123	.	.	.	36.3	19.2	1	.	.	.
PUBLIC/ SD03-1899	.	.	.	.	36.2	18.8	1	.	.	.
PUBLIC/ SD02-923	.	.	.	.	35.7	18.5	1	.	.	.
PUBLIC/ SD00-732	.	.	.	.	.	.	.	37.4	18.5	1
PUBLIC/ SD00-1587	.	.	.	.	.	.	.	37.4	18.6	1
COYOTE/ 5525	.	.	.	.	.	.	.	36.7	18.3	1
PUBLIC/ SD02-195	.	.	.	.	.	.	.	36.5	18.8	1
DAIRYLAND/ DSR-22/STSUL	.	.	.	.	.	.	.	36.1	18.3	1
PUBLIC/ SD02-22	.	.	.	.	.	.	.	35.9	18.4	1
PUBLIC/ SD02-96	.	.	.	.	.	.	.	35.9	19.0	1
PUBLIC/ SD02-26	.	.	.	.	.	.	.	35.2	18.3	1
Test avg.:	123	37.3	19.0	1	36.6	18.8	1	36.4	18.5	1
High avg.:	124	38.5	19.3	1	37.5	19.2	1	37.4	19.0	1
Low avg.:	123	36.8	18.6	1	35.7	18.3	1	35.2	18.3	1
* Lsd(.05):	.	.	0	.	.	.	0	.	.	0
## TPG-avg.:	.	.	1	.	.	.	1	.	.	1
@ Coef. Var.:	.	.	0	.	.	.	0	.	0	0
No. Entries:	.	7	7	7	11	11	11	8	1	8

* DTM= days from seeding on May 22, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant 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 value to qualify for top performance group.

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

Table 10a. Non-Roundup Ready™ maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2005-2006.

Brand/Variety (By maturity group & 2006 yield)	DTM*	Averages by Maturity Group			
		MG-I		MG-II	
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr
PUBLIC/ SD03-1607	117	60	.	.	.
PUBLIC/ SD00-632	120	57	52	.	.
PUBLIC/ SD02-906	117	57	52	.	.
PUBLIC/ SD03-1899	114	53	.	.	.
PUBLIC/ SD00-266	112	52	.	.	.
PUBLIC/ SD02-1138	112	51	.	.	.
SANDS/ EXP2879N	132	.	.	68	.
SANDS/ SO1 239N	123	.	.	66	.
PUBLIC/ SD02-22	122	.	.	64	56
COYOTE/ 5525	132	.	.	63	53
DAIRYLAND/ DSR-22/STSUL	122	.	.	62	.
PUBLIC/ SD00-732	122	.	.	61	50
PUBLIC/ SD02-195	122	.	.	60	.
PUBLIC/ SD02-26	125	.	.	57	50
PUBLIC/ SD02-96	123	.	.	57	.
PUBLIC/ SD00-1587	115	.	.	51	.
Test avg. :	120	55	52	61	52
High avg. :	132	60	52	68	56
Low avg. :	112	51	52	51	50
# Lsd (.05) :		5	NS	6	NS
## TPG-avg. :		55	52	62	50
@ Coef. Var. :		5	5	5	6
No. Entries :		6	2	10	4

* DTM= average days from seeding on May 17, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached 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 10b. Non-Roundup Ready™ maturity group-I & -II soybean variety protein, oil, and lodging score averages- Beresford, South Dakota, 2006.

Brand/Variety (By maturity group & protein)	DTM*	2006 Averages by Maturity Group					
		MG-I			MG-II		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
PUBLIC/ SD00-632	120	37.0	19.4	3	.	.	.
PUBLIC/ SD02-906	117	36.8	19.7	2	.	.	.
PUBLIC/ SD03-1607	117	36.5	19.7	2	.	.	.
PUBLIC/ SD00-266	112	36.4	20.1	2	.	.	.
PUBLIC/ SD03-1899	114	36.4	19.7	3	.	.	.
PUBLIC/ SD02-1138	112	35.5	20.3	4	.	.	.
PUBLIC/ SD02-96	123	.	.	.	37.1	19.4	1
PUBLIC/ SD00-1587	115	.	.	.	37.1	19.4	1
SANDS/ SOI 239N	123	.	.	.	37.0	19.0	2
PUBLIC/ SD00-732	122	.	.	.	36.6	19.3	1
PUBLIC/ SD02-195	122	.	.	.	36.6	19.7	1
DAIRYLAND/ DSR-22/STSUL	122	.	.	.	36.5	19.2	2
PUBLIC/ SD02-22	122	.	.	.	36.5	19.1	2
PUBLIC/ SD02-26	125	.	.	.	36.5	19.0	2
SANDS/ EXP2879N	132	.	.	.	36.2	19.3	5
COYOTE/ 5525	132	.	.	.	35.6	19.2	4
Test avg. :	120	36.4	19.8	3	36.6	19.3	2
High avg. :	132	37.0	20.3	4	37.1	19.7	5
Low avg. :	112	35.5	19.4	2	35.6	19.0	1
* Lsd(.05) :		.	.	1	.	.	1
## TPG-avg. :		.	.	2	.	.	2
@ Coef. Var. :		.	.	18	.	.	30
No. Entries :		6	6	6	10	10	10

* DTM= average days from seeding on May 17, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant 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 value to qualify for top performance group.

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

Table E. Mailing addresses of entrants in the 2006 soybean trials.

Entrant name (brand name)	Mailing address
Scherr's Seed LLC (AgVenture- Warner trial)	13464 335th Ave., Roscoe, SD 57471
Coyote Seed Mills (Coyote), Inc.	PO Box 16, Bridgewater, SD 57319-0016
Crow's Hybrid Corn Co. (Crow's)	14575 University Ave., Waukee, IA 50263
Dairyland Seed Co.,Inc. (Dairyland)	3570 Hwy H, West Bend, WI 53095
Farm Advantage (Farm Advantage)	1275 Hwy 69, Belmont, IA 50421
Gold Country Seed Inc. (Gold Country Seed)	6506 Hwy 15 N., Hutchinson, MN 55350
Hefty Seed Co. (Hefty)	47504 252nd St., Baltic, SD 57003
Integra Seed LTD (PSI Brand)	PO Box 40, Bozeman, MT 59771
Kaltenberg Seeds (Kaltenberg)	5506 State Rd 19, Box 278, Waunakee, WI 53597
Keltgen Inc. (Agventure- So. Shore trial)	44449 US Hwy 212, Watertown, SD 57201
Kruger Seed Co. (Kruger)	33938 160th Ave.,PO Box A, Dike, IA 50624
Latham Seed Co. (Latham)	131 180th St, Alexander, IA 50420-8028
Midwest Seed Genetics (Midwest Seed)	14575 University Ave., Waukee, IA 50263
Monsanto (Asgrow & Dekalb)	102 West Carol Ave., Courtland, IL 60112
Mustang Seeds (Mustang)	PO Box 466, Madison, SD 57042
Northstar Genetics (Northstar)	14602 50th St. SE, Leonard, ND 58052
Nutech Seed, LLC (Nutech)	6131 North Fork Rd., Ames, IA 50010
Prairie Brand Seed Co. (Praire Brand)	15 X Ave., Story City, IA 50248
Renk Seed Co. (Renk)	6809 Wilburn Rd., Sun Prairie, WI 53590
Richland Organics, Inc. (Richland Organics)	100 North 10th St., Breckenridge, MN 56520
Sand Seed Service,Inc. (Sands SOI)	Box 648, Marcus, IA 51035
SDSU Soybean Breeding Program (Experimentals)	Plant Science Dept, Brookings, SD 57007
Seeds 2000 (Seeds 2000)	PO Box 200, Breckenridge, MN 56520
Sodak Genetics (Sodak)	1200 Campus Dr., Brookings, SD 57007
Stine Seed Co.(Stine)	2225 Laredo Trail, Adel, IA 50003
Thompson Seeds (Thompson)	40321 130th Ave., Leland, IA 50453
Thunder Seed Inc. (Thunder)	3008 210th St. W., Hawley, MN 56549
Wensman Seed Co.(Wensman)	PO Box 190, Wadena, MN 56482
Wilbur Ellis Seed (WECO)	3320 Pine Ave., Brookings, SD 57006
Ziller Seed Co.Inc.(Ziller)	76374 380th St., Bird Island, MN 55310

