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**SOYBEAN PERFORMANCE
IN INDIANA, 2005**



**Department of Agronomy
Agricultural Research Programs
Purdue University
West Lafayette, Indiana**

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Authors

K. M. Day,
Senior Research Agronomist
W. P. Lorton, Technician
Department of Agronomy

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SOYBEAN PERFORMANCE IN INDIANA, 2005

INTRODUCTION

Soybeans are evaluated annually at several locations in Indiana. These trials are conducted according to the policies and procedures of the Indiana Agricultural Research Programs at Purdue University. In this bulletin, results of the 2005 performance trials are given, as well as multiple year averages for those entries tested in the past three test years. Data for experimental entries are not included.

The first soybean trials, in this program, were conducted in 1969 and included both public varieties and private labeled soybeans. There were 20 entries in the first trial. Beginning in 2003 no public soybean varieties were entered in the trial.

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<http://www.agry.purdue.edu/pcpp/soybeans.html>

Bulletin copies may be available, in Indiana, from local county Extension Offices.

Performance results for private entries are presented. Private entries, entered voluntarily by the owner, were accepted in the trial after meeting requirements for eligibility and payment of a testing

fee. No verification has been made that the seed, or the quality of the seed, entered in this trial is the same as seed offered for sale to the public.

Plans and rules for entering this trial are available, upon request, to anyone at any time. Persons wishing to enter the soybean performance trial should contact the author by February 1.

K. M. Day
ACRE - Vartest Building
4540 U.S. 52 West
West Lafayette, IN 47906

e-mail address: kday@purdue.edu

Telephone: 765-583-1406

Call for the FAX number

PERFORMANCE TRIAL METHODOLOGY

Location of Trials

This section contains information on locations and procedures used in conducting the trials.

In 2005, trials were planted at six locations (see Figure 1). The locations, numbered from north to south are:

Location 1. Porter County at the Pinney Purdue Agricultural Center near Wanatah, on Runnymede loam, a dark gray depressional soil underlain by sandy substrata.

Location 2. LaGrange County at the Purdue University Hostetler Farm near Topeka, on Shipshe sandy loam, a dark gray, friable, well drained, slightly acid soil, underlain by sand and gravel substrata.

Location 3. Tippecanoe County, near Lafayette, at the Purdue University Agronomy Center for Research and Education (ACRE), on Drummer (Chalmers) silty clay loam, a very dark gray or black, poorly drained depressional soil.

Location 4. Randolph County at the Davis Purdue Agricultural Center near Farmland, on Blount silty clay loam, a dark grayish-brown, somewhat poorly drained soil.

Location 5. Jennings County at the Southeast Purdue Agricultural Center near Butlerville, on Avonburg silt loam, a light grayish, nearly level, somewhat poorly drained soil, with fragipan in the sub-soil.

Location 6. Knox County at the Southwest Purdue Agricultural Center near Vincennes, on Ade loamy fine sand, a very dark gray, gently sloping, somewhat excessively drained soil. Ade soil has low available water capacity and rapid permeability. Organic matter is relatively high and surface runoff is slow.

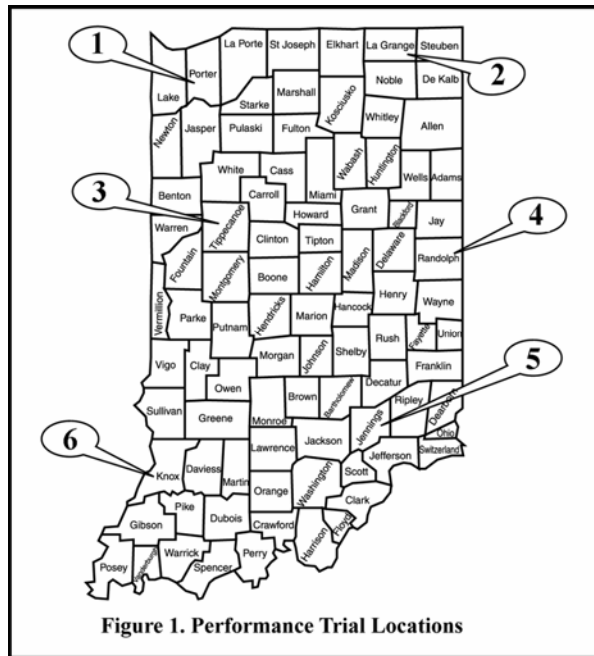


Figure 1. Performance Trial Locations

Methods Used in the Trials

In 2005, Conventional soybean maturity groups were placed together in the same trial at locations 1 through 6. Roundup Ready® soybeans were grouped by maturity, and planted in the respective early or late maturity group. (Roundup Ready® is a trademark of Monsanto Company.) High-germinating seed (usually 90 percent or better) was used in the trial. The soybean plots were planted in a randomized complete block design with four blocks at each location. Anticipated maturity differences between adjacent plots were restricted to 10 days or less.

Planting Equipment Used in the Trials. Trials at all six locations, were planted using an Almaco grain drill. The Almaco grain drill was designed and custom

built for research plot work. The drill is equipped with 10 John Deere® openers set on 7.5 inch row spacing, and is equipped with spring-loaded press wheels. The drill dropped a pre-counted number of seeds in each 33 linear feet of row. For yield calculations, plot width was calculated as 75 inches wide.

In all trials, the planting rate for proprietary entries, selected by the owner, varied from 3.0 live seeds per linear foot of row (209,088 live seeds per acre) to 3.5 live seeds per linear foot of row (243,936 live seeds per acre). Assuming 90 percent emergence, this should produce stands from 188,179 to 219,542 plants per acre.

Conventional farm equipment was used for seedbed preparation. Clean-tilled seedbeds were prepared for all soybean trials. Seedbeds, for Conventional soybeans only, were treated with pre-plant herbicides. Chemicals were applied (post-emergence) to the Conventional soybean trials, at all locations except Randolph County, Location 4. Season long weed control was adequate. Hand-weeding was used to remove weeds that emerged late in the season.

All Roundup Ready® soybean trials were sprayed with either Roundup Ultra®, Roundup Weather Max®, Honcho® Plus, or Buccaneer Plus®, just prior to canopy closure. Roundup® products and Honcho® are trademarks of Monsanto Company, and Buccaneer Plus® is a trademark of Tenkoz, Inc. Season long weed control was adequate, and hand-weeding was used to remove weeds that emerged late in the season.

Plots in all of the trials were end-trimmed prior to harvest, and all rows were harvested for yield. Observations such as plant height, lodging and maturity were taken from the center rows.

Yield data. All of the trials reported in this bulletin were harvested with an Almaco combine. The combine is equipped with a modified John Deere® 900 series head with a floating cutter bar. Grain yields were weighed, and moisture tested automatically, on the combine, using a Seed Spector II and a Psion® Workabout™ (computer). The Seed Spector II was calibrated using a Motomco Model 919® moisture meter and Chantillon scales. Calibrations were checked throughout the harvest season. **It should be pointed out that this equipment is not the same as equipment used to meet official grain grading standards, but is believed to be adequate for field plot work.** All yields were adjusted to 13 percent moisture and are reported as bushels per acre.

Plant height, taken at maturity, is the average length (to the nearest inch) from the soil surface to the tip of the main stem.

Lodging is rated at maturity according to the following scores:

- 1 - Almost all plants erect.
- 2 - All plants leaning slightly or a few plants down.
- 3 - All plants leaning moderately (45 degrees) or 25-50 percent of plants down but still harvestable with conventional equipment.
- 4 - All plants leaning considerably or 50-80 percent of plants down and difficult to harvest with conventional equipment.
- 5 - Almost all of the plants down, and harvest losses would occur with conventional equipment.

Maturity date is when more than 90 percent of the pods are ripe (tan, brown or gray); and days (to maturity) are the number of days from planting to maturity. Delayed leaf drop and green stems are not considered when assigning maturity. About a week of good drying weather may be needed before soybeans are ready to harvest after reaching maturity. Soybeans should mature about two weeks before the average date of the first killing frost, which ranges from approximately October 10 in northern Indiana to October 25 in southern Indiana.

Statewide Weather and Harvest Summary

Detailed weather information can be obtained from the Indiana State Climate Office, on the web at:

<http://shadow.agry.purdue.edu>

Information contained in this section is gleaned from weekly publications, "Indiana Crop & Weather Report", by the Indiana Field Office of USDA's National Agricultural Statistics Service.

The first Indiana Crop and Weather report for the 2005 growing season, issued for the week ending April 3, 2005, reported soil moisture ratings (in percent) for topsoil as, very short 0, short 2, adequate 60, and surplus 38. Subsoil moisture ratings were, very short 0, short 3, adequate 77, and surplus 20 percent. The crop report for April 24 reported 7 percent of the Indiana soybean crop was planted, compared with 3 percent for average.

By May 1, eleven percent of the soybean crop was planted, compared to 14 percent for average. On May 9, planting was 33 percent completed which was on par for average. On May 15, planting was 57 percent completed. By the twenty-second of the month, the crop was 73 percent planted compared to 58 percent for average. Thirty-seven percent of the crop had emerged compared to 41 percent for average. At the end of May, topsoil moisture was rated 5 percent very short, 16 percent short, 71 percent adequate and 8 percent surplus. Subsoil moisture was 3 percent very short, 13 percent short, 78 percent adequate and 6 percent surplus.

By June 5, the crop was 96 percent planted compared to 82 percent for average. At mid-month, 99 percent of the planting was completed compared to 98 percent for normal. Ninety-four percent of the crop had emerged compared to 80 percent for the five-year average. The crop was rated 63 percent good to excellent compared to 71 percent last year. At the end of the month, 7 percent of the crop was blooming, compared to 6 percent for average. During June, soils became progressively drier. From June 19 to June 26, topsoil moisture rating changed from 20 percent short and very short, to 65 percent short and very short. At the same time, subsoil moisture declined from 76 percent adequate to 53 percent adequate. The report for the week ending June 12, reported of 90° F and above for most areas in Indiana. This was the beginning of hot weather during the 2005 growing season.

Through the first two weeks of July, available soil moisture conditions continued to deteriorate, and 90° F temperature persisted. The July 10 report placed topsoil ratings as 37 percent very short, 45 percent short, 18 percent adequate and 0 percent surplus. The same report indicated that 2 percent of the crop was setting pods compared to 4 percent for normal. The soybean condition changed from 63 percent good to excellent a month earlier, to 37 percent good to excellent in mid-July. Hurricane Dennis provided some much need moisture to many areas of the state. Soil moisture improved during the last half of July and at the end of the month was rated 60 percent adequate. The soybean condition rating improved to 52 percent good to excellent. Fifty-five percent of the soybeans were setting pods, compared to 41 percent for average.

Hot dry weather continued during August. By August 7, seventy-three percent of the plants were setting pods compared to 59 percent for average. The crop condition was rated 51 percent good to excellent compared to 75 percent last year. Topsoil moisture ratings were 17 percent very short, 42 percent short, 40 percent adequate and 1 percent surplus. The August 21 report stated that many parts of the state received sufficient rainfall. Topsoil moisture ratings improved to 12 percent very short, 30 percent short, 56 percent adequate and 2 percent surplus. Ninety-six percent of the soybeans were setting pods. On August 28, four percent of the crop was shedding leaves, compared to 9 percent for average. The crop condition was rated 51 percent good to excellent compared to 72 percent last year. Top soil moisture was rated 56 percent adequate and 1 percent surplus.

At the end of August, hurricane Katrina brought wind and heavy rain to southern Indiana. Areas which received rain, had the April 1 to September 4 rainfall deficits erased. Areas which remained dry, had rainfall deficits ranging from nearly half an inch to over 9 inches (short) for the season. All areas of the state continued to be warmer than normal. Warm weather advanced the maturity of soybeans, and by September 11, one percent of the crop was harvested, which was on par for average. Soil moisture was rated 14 percent very short to 31 percent short, and 53 percent adequate to 2 percent surplus.

The latter half of September, rain delayed soybean harvesting. At the beginning of October, the crop was 22 percent harvested. The previous year, 52 percent of the crop was harvested by the first of October, and 27 percent harvested is normal for that date.

Soybean harvest moved forward at a rapid pace during October. By mid-month, 71 percent of the crop was harvested. At the end of the month, 93 percent of the harvest was complete, which was slightly ahead of average. The soybean crop was virtually mature by the middle of October. Frost and freezing temperatures did not arrive until the last of October and the forepart of November. The first week of November, 96 percent of the crop was reported as harvested.

In summary, soybean planting got off to a normal start and progressed at a normal pace. Statewide, the month of May was cooler and drier than normal. Dry weather continued in June in the north and south parts of the state. Central Indiana, in June, received beneficial moisture. In July, the remnants of Hurricane Dennis, brought less than anticipated moisture to Indiana. North and central Indiana remained dry, and

temperatures were above normal. August temperatures were above normal, but rain began to arrive in the state. Remnants of Hurricane Katrina arrived at the end of August and provided abundant moisture. Central and southern Indiana had moisture deficits erased, but northern Indiana remained critically dry. September was cooler and received rain from the remnants of Hurricane Rita, but, except for double-crop soybeans, the moisture arrived too late to benefit most of the crop. In central Indiana, early maturing soybeans were more productive than late maturing varieties. In northern Indiana, early maturing varieties were severely impacted by drought. Late summer rains benefited later maturing soybeans. In southern Indiana, the abundant moisture from the hurricane remnants produced high yields.

On November 21, 2005 the Indiana Field Office of USDA's National Agricultural Statistics Service presented the following information:

"Based on conditions November 1, Indiana soybean production is forecast at 257.8 million bushels, up 4 percent from the October 2005 forecast, and down 9 percent from the 284.3 million bushels produced in 2004. The expected yield of 48 bushels per acre is 3.5 bushels below last year's yield of 51.5 bushels per acre. The acreage expected to be harvested for beans, at 5.37 million acres, is down 3 percent from the 5.52 million acres in 2004, and down 2 percent from the June estimate. U.S. soybean production is forecast at 3.04 billion bushels, up 3 percent from October but 3 percent below 2004. If realized, this would be the second largest U.S. soybean crop on record, only behind last year's crop. Based on November 1 conditions, yields are expected to average a record high 42.7 bushels per acre, up 1.1 bushels from October and 0.5 bushel above last year."

DISCUSSION

It is not possible to absolutely determine or predict the response of plants to the environment. The results of every field trial conducted are influenced by the treatment and by the experimental error. In these trials, the treatment is the soybean entry (variety, brand, or blend) planted in the trial. Experimental error is a composite term to indicate everything that could not be controlled by the person performing the

trial. Experimental error is not intended to include human error. These trials are conducted on the assumption that all the entries in the trial are equal until evidence is obtained that they are not equal. In order to obtain this evidence it is necessary to determine whether the trial results were influenced most by the entries or by experimental error. To do this an analysis of variance is performed and the relationship of the yielding ability of the entries to experimental error is determined. The analysis of soybean performance trials show that maturity relationships are very predictable whereas yield relationships are the most difficult to predict.

Probability levels have been established to assess the validity of a trial. Generally trials should be significant at the 10 percent probability level. This means 1 trial in 10 could be a fluke and not be detected. In this bulletin, all of the 2005 (single location) trials are significant at the 10 percent probability level, except for the Conventional Soybean trial at Location 4, reported in Table 10, and the Conventional Soybean trial at Location 5, reported in Table 13.

The analysis of variance makes it possible to compute a coefficient of variability (C.V.). The coefficient of variability is a relative term. It is the ratio of the standard deviation to the grand mean of the trial, expressed as a percent. On the western side of Indiana a normal C.V. for soybeans is 5 to 10 percent; whereas on the eastern side it is 10 to 15 percent. Whenever the C.V. is larger than normal for a trial location, it indicates the precision of the trial was below normal. When yields are high and the experimental error is small, the C.V. will be small.

Single-year trials, in this report, generally require yield differences of 7 to 10 bushels for (statistical) significance. This year (2005) for single locations, BLS_D (k=100) yield differences for significance, ranged from 5.6 to 17.4 bushels per acre.

A test of significance must be performed to determine if the yield difference, between two entries, is due to experimental error or due to the yielding ability of the entries. The single-year trial only reflects what happened one year, at one location, and is generally not adequate for predicting how soybeans may perform in the future. Tables 1 through 18 report multiple-year data as well as single-year results for a single test location.

Data from multiple years, and in some instances multiple locations, when combined and analyzed, provide a superior estimate of how soybeans will perform in the future. This year (2005) entrants were requested to enter each entry in at least two locations. This generally provides much better data to evaluate soybean performance. Tables 19 through 24 provide all possible comparisons for soybeans tested in 2005. This year (2005), data combined across multiple locations did not show statistically significant yield differences. Table 19 (Locations 5 and 6) and Table 21 (Locations 2 and 3) did show a statistically significant yield difference.

Soybean data from any source must include years (preferably three), must be analyzed, and must have a test of significance before it has value as a basis for performance prediction.

An analysis of variance, which includes years, will show that years have a very strong influence on yields. An analysis of variance that includes locations will show that locations also influence the performance of the entries in the trial.

Brief periods of favorable or unfavorable weather, when the plants are vulnerable to weather stress, can change the yield relationship among entries from year to year. Maturity relationships are photoperiod influenced and are much less affected by weather from year to year.

It is not always beneficial or appropriate to combine data across locations from these performance trials. The trials are far enough apart from north to south that entries in the trial may not be adapted to several locations. The trial environments from east to west are also very different, especially in regard to the presence and severity of *Phytophthora* rot. It is important to realize that locations may all provide similar trial results one year and produce quite different results the following year.

Trial results are ranked by yield. The Waller-Duncan Bayesian k ratio t test is used for the test of significance. A k ratio of 100:1 was used in computing the Bayesian least significant difference (BLS_D) for the test of significance. This ratio may be considered, in a loose sense to take the place of the (LSD) 5% level of significance. The BLS_D value may be used to make all possible pair-wise comparisons among the entries. Yield differences smaller than the

BLS D value should be considered due to chance (experimental error) and not due to superior performance. If data in any (trait) column are not, statistically, significantly different, "ns" denoting not significant, will appear in that column, instead of a BLS D value.

An asterisk (*) is included in the yield column in each sub-table. The asterisk denotes all yields in the sub-table which are not, statistically, significantly different from the top yield. Do not place undue emphasis on yield differences followed by an asterisk. The BLS D value must still be used to determine if the particular yields being compared are, statistically, significantly different.

At Location 1, Porter Co., most of the April rain came during the last week of the month. Precipitation totaled 1.06 inches, well below the normal (1971 to 2000 average) precipitation of 3.61 inches. Temperatures ranged from 37° to 84° F during the day and from 28° to 55° F at night.

May rain totaled 1.47 inches, well below the normal 3.71 inches. Most of the rain came during mid-month, in showers of less than one-half of an inch. The soybean trials were planted May 5 in a firm, dry seedbed. Daily high temperatures ranged from 48° to 86° F, and nightly lows ranged from 26° to 57° F.

Most of the June rain came during the first half of the month, in showers of approximately an inch or less. Rain totaled 4.31 inches, very close to the normal amount of 4.35 inches. June temperatures ranged from daily highs of 69° to 96° F, and nightly lows from 48° to 73° F. The first 90° F temperature arrived on June 6, and eleven June days recorded high temperatures of 90° F or above.

July precipitation measured 2.86 inches, and came in showers of 0.75 of an inch or less. Normal July precipitation is 4.07 inches. July temperatures ranged from daily highs of 78° to 97° F, and nightly lows from 48° to 77° F. Eleven July days had temperatures of 90° F or above.

Rain distribution was much better during August. The first week received 0.37 of an inch, the second week 2.46, the third week 1.16, and the last ten days of the month, 0.01 of an inch. Total rain for the month was 4.0 inches, or 0.24 of an inch above normal. Daytime high temperatures ranged from 71° to 93° F, and nightly lows ranged from 51° to 71° F. August had 5 days with high temperatures of 90° F or above. The normal (1971 to 2000) average temperature for

August is 70.3° F. In 2005, August temperature averaged 72.0° F. .

Virtually all September rain came during the last half of the month. Total for the month was 2.88 inches. Normal September precipitation is 3.67 inches. Soybeans dried as soon as they matured. Daytime highs ranged from 62° to 91° F, and nightly lows ranged from 36° to 63° F.

All soybeans, in the Location 1 trials, were mature before the first killing frost and freeze, which arrived the last week of October. The trials were harvested on October 7, 2005.

From May 1 through September 30, soybean trials at Location 1 received a total of 15.52 inches of rain. Normal precipitation (1971-2000) for northwest Indiana, May 1 through September 30, is 19.56 inches. June, July and August were all warmer than normal, with twenty-seven days of daytime high temperatures reaching 90° to 97° F.

Performance data for Location 1, in 2005, are presented in Tables 1, 2 and 3. Data combinations, which include data from Location 1, and data from other locations, are presented in Tables 19, 20, 21, 22 and 23. Data from Location 1 should be useful in predicting soybean performance.

At Location 2, LaGrange Co., there are no weather stations near the Purdue University Hostetler Farm where the trials were conducted. Weather data, taken from northeast Indiana weather stations, provide some general weather information. The 2005 growing season was dry. The area received some light rain the last week of April and widespread rains came again in mid-May. The trials were planted May 11 and uniform, vigorous stands were established. During the growing season, dry weather prevailed and yields were reduced due to lack of moisture. Light rains were recorded on June 6 and again on June 11, 12 and 13. July 1 and 5 received some light showers and it was generally dry until mid-month. August was dry during most of the month. September received virtually no moisture until the latter half of the month. The soybeans were mature before the first killing frost and freeze. Harvest was on October 19. Yields at Location 2 were similar to yields in production fields in the area. Yields should be compared with yields at other test locations. Trial results are presented in Tables 4, 5 and 6. Data from Location 2 are combined with data from other trial locations and are presented in Tables 19, 20, 21, 22 and 23.

At Location 3, Tippecanoe Co., April precipitation totaled 2.04 inches, which was 1.53 inches below the (1971 to 2000) average of 3.57 inches. Most of the rain came during the last half of the month. Average 2005 April temperature (54.3° F) was 4.2° F warmer than the 1971 to 2000 average of 50.1° F. Daily high temperatures ranged from 40° to 85° F, and nightly lows from 29° to 55° F.

May rain totaled 1.80 inches which was 2.55 inches below the long-term average of 4.35 inches. Eight days in May received measurable precipitation. May temperatures averaged 60° F, which was 1.4° F below the long-term average of 61.4° F. Daily high temperatures ranged from 50° to 89° F, and nightly lows ranged from 27° F to 60° F. The soybean trials were planted May 3, 4 and 18 in firm, moist seedbeds. Uniform stands were established.

June rain totaled 2.01 inches, 2.23 inches below the long term average of 4.24 inches. Most of the June precipitation came during the first half of the month. June daily high temperatures ranged from 66° to 95° F. June 6 through 11 and June 24 through 30 had daily temperatures of 90° F or above. Nightly low temperatures ranged from 42° to 71° F. Average temperature for the month was 73° F, which was 2.5° warmer than the long-term average of 70.5° F.

Scattered throughout the month, eleven July days had measurable precipitation. The heaviest rain (1.16 inches) came on July 19. Rain totaled 4.60 inches. This was 0.6 of an inch above the long-term average precipitation of 4.0 inches. July daytime high temperatures ranged from 77° to 94° F. Seven July days had high temperatures ranging from 91° to 94° F. Night temperatures ranged from 48° F to 76° F. Average temperature for the month was 73°, which was near the long-term average of 73.8° F.

August temperature averaged 74° F, which was 2.4° warmer than the long-term average temperature of 71.6° F. Daily highs ranged from 73° F to 92° F. Six days had temperatures of 90° to 92° F. Night temperature ranged from 50° to 70° F. Precipitation for the month totaled 2.22 inches, 1.46 inches below the long-term average of 3.68 inches. Most of the rain came during the middle of the month.

Most of the September precipitation came during the last half of the month, and was too late to benefit grain production. Precipitation total for the month was 4.82 inches. That was 1.84 inches more than the long-term precipitation average of 2.98 inches. Eight days had temperatures of 90° or above. Daytime highs ranged from 63° to 93° F, and nightly lows ranged

from 37° to 65° F. Average temperature for the month (69° F) was 4° warmer than the long-term average of 65.0° F.

October was dry, with only 1.42 inches of rain for the month. Normal October precipitation is 2.73 inches. Average temperature for the month was 55° F, which was nearly 2° F warmer than normal. All of the trials were mature and were harvested October 4 and 5. The first killing frosts and freezes did not occur until the last week of the month

From May 1 through September 30, the soybean trials at Location 3 received a total of 15.45 inches of rain; which was 3.8 inches below normal. Normal precipitation (1971-2000) for the Purdue University Agronomy Center for Research and Education (ACRE), May 1 through September 30, is 19.25 inches. May, June and August were drier than normal. July precipitation was above normal and the heaviest precipitation of the growing season (4.82 inches) came during September. September rain amounted to about a third of the total precipitation for the growing season, but arrived too late to benefit the performance trials. During the growing season, 34 days recorded temperatures of 90° F or above. Across the growing season, temperatures averaged 1.34° F warmer than normal.

In 2005, the Conventional soybean trial produced higher yields than in 2004. The average maturity date was 8 days later, and average plant height, taller than in 2004. Lodging score remained the same. Results are presented in Table 7. Location 3 data, combined with data from other trial locations, are presented in Table 19.

Results for the Roundup Ready® maturity group II soybean trial are presented in Table 8. Yields are higher, average maturity date approximately three weeks earlier, and plant heights taller than in the 2004 trial. Yield results are, statistically, significantly different, and the data should be useful for yield comparisons. Location 3 data, combined with data from multiple locations, are presented in Table 20. The combined location data may be useful for variety selection.

Results for the Roundup Ready® maturity group III soybean trial are presented in Table 9. The yield average is lower, the average maturity date approximately 3 weeks earlier, and plant heights taller than in the 2004 trial. Yield results are, statistically, significantly different, and the data should be useful for yield comparisons. Location 3 data, combined with

data from other trial locations, are presented in Table 21, 22 and 23. The combined data should also be useful in making yield comparisons.

At Location 4, Randolph Co., April rain came mostly during the last half of the month. Rain total for the month (4.41 inches), was 0.91 of an inch above the long-term (1971-2000) average of 3.50 inches. Temperatures were mild with daily highs ranging from 41° to 81° and averaging 63.5° F. Daily lows ranged from 29° to 56° and averaged 40° F. Average temperature for the month was 52° F, which was 3.1° warmer than the long-term average of 48.9° F.

May rain totaled 1.72 inches, or 2.34 inches less than the long-term average of 4.06 inches. Most of the rain came in the middle of the month, in showers of less than an inch. All the trials were planted on May 17 in firm, moist seedbeds. Planting was near the optimum planting date. Emergence was normal, and uniform, vigorous stands were established. May temperatures, for the month, averaged 57° which was 3.2° cooler than the long-term average of 60.2° F. Daily highs ranged from 48° to 86° and averaged 69.1° F. Nightly lows ranged from 29° to 61° and averaged 45.8° F.

June had 1.83 inches of rain, which was 2.59 inches below the long-term average of 4.42 inches. Most of the rain came during the first half of the month, in amounts of less than one inch. Daily high temperatures ranged from 68° to 96° and averaged 84° F. Nightly lows ranged from 50° to 70° and averaged 61° F. Nine days had temperatures of 90° F or above. June temperature averaged 72.7° F, 3.3° warmer than the long-term average of 69.4° F.

July received 4.64 inches of rain, compared to the long-term average of 4.40 inches. Rain was distributed throughout the month, with most of the moisture arriving the last half of the month. Daytime high temperatures ranged from 73° to 96° and averaged 85° F. Nightly lows ranged from 52° to 78° and averaged 64° F. Six days had temperatures of 91° to 96° F. Average temperature for the month, 74° F, was 1.1° warmer than the long-term average of 72.9° F.

August rain totaled 6.43 inches, 2.78 inches more than the long-term average of 3.65 inches. Rain distribution was very beneficial for soybean pod filling. Four showers, in amounts of less than an inch, came the first half of the month, and totaled 1.90 inches. The last half of the month received 4.53 inches of rain. The largest rain (2.73 inches) came on August 31. Daytime high temperatures, for the month, ranged

from 71° to 92° and averaged 84° F. Nightly lows ranged from 52° to 70° and averaged 62° F. Five days had temperatures of 90° to 92° F. Average August (2005) temperature was 73° F, which was 2.7° warmer than the long-term average of 70.3° F.

September rains totaled 5.52 inches with virtually all of it coming during the last half of the month. Average September rain (1971-2000) is 3.02 inches. September daytime high temperatures ranged from 62° to 86° and averaged 80° F. Nightly lows ranged from 38° to 64° and averaged 55° F. Average temperature for the month was 67° F, which was 3.7° warmer than the long-term average of 63.3° F.

All of the soybean trials at Location 4 were harvested on October 6, ahead of the first frosts which did not arrive until the last week of October.

From May 1 through September 30, the soybean trials at Location 4 received 20.14 inches of rain, which was 0.59 of an inch above normal. Normal precipitation (1971-2000) for Location 4, May 1 through September 30, is 19.55 inches. The soybean trials were planted May 17, and after the soybeans emerged, 20 days recorded temperatures of 90° F and above. The long-term average temperature, May 1 through September 30, for Location 4, is 67.2° F. This year (2005) temperature from May 1 through September 30 averaged 68.7° F, or 1.5° F, warmer than normal.

In 2005, the Conventional soybean trial produced higher yields than in 2004, but yield differences were not, statistically, significantly different. Average maturity was two weeks later, and average plant heights were taller. Results are presented in Table 10. Location 4 data, combined with data from other trial locations, are presented in Table 19. Data from Location 4 should be compared with data from other trial locations.

Results for the Roundup Ready® maturity group II soybean trial are presented in Table 11. The yield average is lower than the yield average for 2004. The average maturity date is approximately a week later, and average plant height taller than in the 2004 trial. Yield results are, statistically, significantly different, and the data should be useful for yield comparisons. Location 4 data, combined with data from multiple locations, are presented in Table 20. The combined location data may also be useful for variety selection.

Results for the Roundup Ready® maturity group III soybean trial are presented in Table 12. The yield average was lower, average maturity date 3 days later, and average plant height taller than in the 2004 trial. Yield results are, statistically, significantly different, and the data should be useful for yield comparisons. Location 3 data, combined with data from other trial locations, are presented in Table 21, 22 and 23. The combined data should also be useful in making yield comparisons.

At location 5, Jennings Co., weather data are taken daily for temperature and precipitation, and are used, in this report, for daily and monthly averages. The official weather station is located at North Vernon, Indiana, approximately five miles west of the soybean performance trial location. The official weather station data provide the long-term (1971 to 2000) averages, which are used in this report.

April rain totaled 3.76 inches. The long-term average is 4.37 inches. Day temperatures ranged from 50° to 83° and averaged 68° F. Night temperatures ranged from 33° to 60° and averaged 43° F. Average temperature for April was 56.0° F, which was 1.8° warmer than the long-term average of 54.2° F.

The soybean trials were planted May 9 in firm, moist seedbeds. Emergence was rapid and vigorous stands were established. The first half of May received 6 showers, each in amounts of less than an inch, which provided 1.73 inches of rain. The last half of the month received 1.58 inches of rain. May rain totaled 3.31 inches, 1.41 inches below the long-term average of 4.72 inches. Daily high temperatures ranged from 53° to 87° and averaged 73° F. Nightly lows ranged from 31° to 62° and averaged 48° F. For the month, temperatures averaged 61° F, which was 2.7° below the long-term average of 63.7° F.

June rain totaled 1.94 inches, which was 1.88 inches below the long-term average of 3.82 inches. Two days (June 8 and 9) had temperatures of 91° and 90° respectively. The last eight days in June, had temperatures ranging from 90° to 95° F. Daytime temperatures, for the month, ranged from 67° to 95° and averaged 85° F. Night temperatures ranged from 51° to 72° and averaged 63° F. Average temperature for the month was 74° F, which was 2.1° above the long-term average 71.9° F.

July had nine days of 90° to 94° F temperatures. Daytime temperatures, for the month, ranged from 72° to 94° F, and averaged 86° F. Night temperatures ranged from 54° to 77° F, and averaged 65° F.

Average temperature, for the month, was 76° F, which was near the long-term average of 75.5° F. Rain for the month measured 2.7 inches, which was 1.72 inches below the long-term average of 4.42 inches. The first half of the month received five showers, which produced a total of 1.5 inches of rain. The last half of the month received six showers, which produced a total of 1.2 inches of rain.

Fourteen August days had daytime temperatures which ranged from 90° to 96° F. Daytime temperatures, for the month, ranged from 56° to 96° and averaged 87° F. Night temperatures ranged from 56° to 73°, and averaged 66° F. Temperature, for the month, averaged 76° F, which was 2.4° warmer than the long-term average of 73.6° F. August rain totaled 9.65 inches, which was 5.23 inches more than the long-term average of 4.42 inches. Most of the rain came on three days; August 6, 2.2 inches, August 18, 3.11 inches and August 29, 2.24 inches. Some of these rains were due to the remnants of hurricanes.

September day temperatures ranged from 67° to 89° and averaged 83° F. Night temperatures ranged from 40° to 68° and averaged 58° F. Average temperature for the month, 70° F, was 2.9° warmer than the long-term average of 67.1° F. September rain totaled 3.99 inches, which was 1.1 inches above the long-term average of 2.89 inches. Most of the rain came during the last half of the month, in showers of approximately one inch or less.

From May 1 through September 30, the soybean trials, at Location 5, received 21.59 inches of rain, which was 1.32 inches above the long-term average precipitation of 20.27 inches. Thirty-three days, June 1 through August 30, had high temperatures ranging from 90° to 96° F.

All of the trials, at Location 5, were mature and were harvested on October 3. The first killing frosts and freezes did not occur until the last week of October.

The Conventional Soybean trial at Location 5, produced a yield average higher in 2005 than the 2004 yield average, but the yields were not, statistically, significantly different. Average maturity date was approximately two weeks later than the 2004 average maturity date. Other traits were similar to previous years. The data are presented in Table 13, and in Table 19, the data are combined with data from other test locations. The data are of limited value for performance comparisons and should be compared to data from other trial locations for variety selection.

The Roundup Ready®, Maturity Group III trial produced a slightly higher average yield than the 2004 trial. Yields are, statistically, significantly different and should be useful for variety selection. The average maturity date was nine days later than the 2004 average maturity date. Other traits are similar to previous years. The trial results are presented in Table 14, and the data combined with other trial locations are presented in Tables 21, 22 and 23.

The Roundup Ready® Maturity Group IV trial produced a higher average yield in 2005 than the 2004 average yield. The yield results were, statistically, significant and the data should be useful for yield comparisons. The average maturity date was eleven days later than the 2004 average maturity date. Other traits were similar to previous years. The trial results are presented in Table 15 and the data, combined with data from Location 6, are presented in Table 24.

At Location 6, Knox Co., April day temperatures ranged from 42° to 83° and averaged 69° F. Night temperatures ranged from 35° to 59° and averaged 46° F. Average temperature for April was 57° F, which was 3.5° warmer than the official long-term average of 53.5° F. April rain totaled 3.3 inches, which was 0.98 of an inch below the normal 4.28 inches for Location 6. Rain was distributed throughout the month in showers of less than one inch.

The soybean trials were planted May 6, in a firm moist seedbed. Emergence was rapid and vigorous, uniform stands were established. Six days in May had measurable precipitation. Rain totaled 5.04 inches, which was near the long-term average of 5.13 inches. Daily high temperatures ranged from 54° to 90° and averaged 76° F. Nightly lows ranged from 34° to 64° and averaged 50° F. Average May temperature was 63° F, which is near the long-term average of 63.8° F.

June rain totaled 4.25 inches, which was near the long-term average of 4.05 inches. Most of the June rain (3.42 inches) came on June 13. June day temperatures ranged from 66° to 95° and averaged 86° F. Eleven June days had temperatures which ranged from 90° to 95° F. Nightly lows ranged from 54° to 75° and averaged 65° F. June temperature averaged 75° F, which was 2.5° above the long-term average of 72.5° F.

July had ten days of measurable rain. Total July rain (5.02 inches) was 0.35 of an inch above the long-term average of 4.67 inches. July daily high temperatures ranged from 72° to 96° and averaged 87° F. Thirteen days had temperatures ranging from 90° to 96° F. Nightly lows ranged from 57° to 78° and

averaged 67° F. Temperature for the month averaged 77° F, which was near the long-term average of 76.3° F.

Rain total (6.02 inches) for August was 2.3 inches above the long-term average of 3.72 inches. Most of the rain (3.38 inches) came on the last day of the month. August day temperatures ranged from 72° to 98° and averaged 90° F. Nineteen August days had temperatures which ranged from 90° to 98° F. Nightly lows ranged from 59° to 73° and averaged 67° F. Average August temperature was 79° F, which was 47° warmer than the long-term average temperature of 74.3° F.

September daytime temperatures ranged from 68° to 92° and averaged 85° F. Nine days had temperatures ranging from 90° to 92° F. Nightly lows ranged from 42° to 70° and averaged 60° F. Average September temperature (73° F) was 6° warmer than the long-term average temperature of 67° F. September rain came during the last half of the month and totaled 4.13 inches. The rain total was nearly an inch more than the long-term average of 3.16 inches. All of the soybean performance trials at Location 6 were harvested on September 30. Frosts and freezing at Location 6 did not occur until about a month after harvest.

From May 1 through September 30, the soybean performance trials, at Location 6, received 24.46 inches of rain, which was 3.73 inches above the long-term average rainfall of 20.73 inches. Fifty-three days had temperatures of 90° to 98° F.

Average yield for the 2005, Conventional Soybean trial was higher than the 2004 average yield. The 2005 yields were, statistically, significant and should be useful in making performance comparisons. Average maturity was six days later than the 2004 average maturity. Other traits were similar to previous years. The trial results are presented in Table 16, and the data combined with data from other locations are presented in Table 19.

The Roundup Ready® Maturity Group III trial produced a higher average yield than the 2004 trial. Yield results are, statistically, significantly different and should be useful for comparing performance. The average maturity date was eleven days later than the 2004 average maturity date. Other traits were similar to previous years. The trial results are presented in Table 17 and the data, combined with data from other test locations are presented in Tables 21, 22 and 23.

The Roundup Ready® Maturity Group IV trial produced a higher yield average than the 2004 trial. Yield results are, statistically, significantly different and should be useful for comparing performance. The average maturity date was eleven days later than the 2004 average maturity date. Other traits were similar to previous years. The data are presented in Table 18 and the data, combined with data from other trial locations are presented in Table 24.

SOURCES OF SEED

Information concerning certified seed may be obtained from the Indiana Crop Improvement Association, 7700 Stockwell Road, Lafayette, Indiana 47909. Companies, participating in these trials, have requested that inquiries concerning the entries, presented in this bulletin, be directed to the addresses listed on the following pages.

Adler Seeds, Inc.
6085 West 550 North
Sharpsville, Indiana 46068
Telephone: 800-536-2676

Adler 292RRN
Adler 296RRN
Adler 338RRN
Adler 358RRN
Adler 374RRN
Adler 382RRN
Adler 384RRN

Alliance Production, L.L.C.
1009 North John Street, P.O. Box 79
Farmer City, Illinois 61842
Telephone: 309-928-3123

IP 2702
IP 2902N
IP 3002
IP 3250N
IP 3602
IP 3920
IP 4242N

Beck's Superior Hybrids, Inc.
6767 East 276th Street
Atlanta, Indiana 46031
Telephone: 317-984-3508

Beck 297NRR
Beck 321NRR
Beck 323RR
Beck 333RR
Beck 349NRR
Beck 444NRR

Bio Gene Seeds
5477 Tri-County Highway
Sardinia, Ohio 45171
Telephone: 937-444-6422

BioGene BG 3606RN
BioGene BG 3620NRR
BioGene BG 3806RN

Crop Production Services
1445 West State Road 56
Scottsburg, Indiana 47170
Telephone: 812-752-4951

CPS 6383NRR
CPS 6402NRR
CPS 6444NRR
CPS 7402STS

Dairyland Seed Company, Inc.
P. O. Box 958, 3570 Highway H
West Bend, Wisconsin 53095
Telephone: 800-236-0163

DSR-2600/RR
DSR-2700/RRSTS
DSR-2800/RRSTS
DSR-3000/RRSTS
DSR-3101/RRSTS
DSR-3500/RR
DSR-3501/RR
DSR-3502/RR
DSR-3600/RR
DSR-3601/RRSTS
DSR-3801/RR
DSR-385/RR

Garst Seed Company
2369 330th Street, P.O. Box 500
Slater, Iowa 50244
Telephone: 800-831-6630

2721RR/N	Garst
3212RR/N	Garst
3448RR/N	Garst
3585N	Garst
3624RR/N	Garst
3712RR/N	Garst
3906N	Garst
4112RR/N	Garst
4212RR/STS/N	Garst

Martin Seeds, Inc.
10045 West Second Street
Williamsport, Indiana 47933
Telephone: 765-986-2030

M-435NRR	Martin
M-533RR	Martin
M-538NRR	Martin
M-627RR	Martin
M-631NRR	Martin

Miles Farm Supply, L.L.C.
P.O. Box 22879, 2760 Keller Road
Owensboro, Kentucky 42304-2879
Telephone: 270-926-2420
Telephone: 800-666-4537

SC Abraham NRR
SC Benjamin N
SC Hoshea N
SC Levi NRR
SC Michael NRR/STS
SC Moab NRR
SC Stephen NRR

Monsanto
800 North Lindbergh Blvd.
St. Louis, Missouri 63167
Telephone: 314-694-1000

AG 2801	Asgrow
AG 3006	Asgrow
AG 3101	Asgrow
AG 3203	Asgrow
AG 3305	Asgrow
AG 3505	Asgrow
AG 3602	Asgrow
AG 3802	Asgrow
AG 3905	Asgrow
AG 3906	Asgrow
AG 4404	Asgrow
DKB 29-51	DeKalb
DKB 31-51	DeKalb
DKB 36-52	DeKalb
DKB 42-51	DeKalb
DKB 44-51	DeKalb

Royster-Clark, Inc.
717 Robinson Road SE
Washington C.H., Ohio 43160
Telephone: 740-869-2181

V275RR	Vigoro
V29N6RR	Vigoro
V315RR	Vigoro
V31N6RR	Vigoro
V33N6RR	Vigoro
V345RR	Vigoro
V354RR	Vigoro
V35N6RR	Vigoro
V36N5RR	Vigoro
V386RR	Vigoro
V38N5RS	Vigoro
V39N4RR	Vigoro
V42N3RR	Vigoro
V44N6RR	Vigoro

Rupp Seeds, Inc.
17919 County Road B
Wauseon, Ohio 43567
Telephone: 419-337-1841

Rupp RS 4232NRR
Rupp RS 4295RR
Rupp RS 4314RR
Rupp RS 4345RR
Rupp RS 4372NRR

Steyer Seeds
6154 North Co. Road 33
Tiffin, Ohio 44883
Telephone: 419-992-4570

Steyer 3830RR SCN
Steyer 4000RR SCN
Steyer 4420RR SCN

UAP/Richter – Dyna-Gro Seed
1267 West Washington St., P.O. Box 230
Pittsfield, Illinois 62363
Telephone: 217-285-4461

Dyna-Gro 31T31
Dyna-Gro 32C38
Dyna-Gro 33A37
Dyna-Gro 35B40
Dyna-Gro 35D33
Dyna-Gro 37B28
Dyna-Gro 37K32
Dyna-Gro 39G43
Dyna-Gro 39V26
Dyna-Gro 3437NRR

Wabash Valley Hybrids
2265 West 600 North
West Lafayette, Indiana 47906
Telephone: 765-463-4455

TL 290RR
TL 304RR
TL 334RR
TL 350RR
TL 353RR
TL 364RR
TL 382RR

Wyckoff Hybrids, Inc.
Hoosier Pride Genetics, Inc.
594 East 400 North
Valparaiso, Indiana 46383
Telephone: 219-462-6716

Hoosier HP 2824CRR
Hoosier HP 2955CRR
Hoosier HP 3041RR
Hoosier HP 3155CRR
Hoosier HP 3502CRR
Hoosier HP 3542
Hoosier HP 3715RR
Hoosier HP 3832CRR
Hoosier HP 3844CRS
Hoosier HP 3934CRR
Hoosier HP 4413CRR
Hoosier HP 4453CRS
Wyckoff W2963CRR
Wyckoff W3262CRR
Wyckoff W3463CRR

**2005 Purdue University, Indiana, Soybean Performance Trial Results.
Tables 1 through 24.**

Table 1. Results of the Conventional Soybean performance trial, Maturity Groups II and III, in Porter Co., Location 1, northwest Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
2005 results(4)				
IP 2902N	81.0 *	9-18	136	1.0 33
Hoosier HP 3542	79.8 *	9-20	138	1.0 33
IP 2702	78.1 *	9-10	128	1.3 33
IP 3002	71.6	9-18	136	1.0 35
Grand mean	77.6	9-17	135	1.1 34
BLSD (k=100)	6.4	1	1	ns ns
C.V. (%)	4.9	1	0	23.3 4

- (1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.
- (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
- (3) 1 (erect) to 5 (flat).
- (4) Conducted on the Pinney-Purdue Agricultural Center, Wanatah.
Jon D. Leuck, superintendent.
Randomized complete block design: 4 blocks
Soil type: Runnymede loam.
Soil test for conventional soybeans: pH 6.2, P 62 ppm (very high), K 165 ppm (high).
Date of planting: May 5, 2005.
Date of harvest: October 7, 2005.
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Table 2. Results of Maturity Group II, Roundup Ready® soybean performance trials in Porter Co., Location 1, northwest Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Three-year average (2003, 2004, 2005)				
AG 2801 Asgrow	72.9 *	9-15	129	1.0 31
TL 290RR	68.1	9-15	129	1.0 29
Grand mean	70.5	9-15	129	1.0 30
BLSD (k=100)	3.8	ns	ns	ns ns
C.V. (%)	5.7	2	1	4
Two-year average (2004, 2005)				
AG 2801 Asgrow	87.8 *	9-13	131	1.0 31
Hoosier HP 2824CRR	84.4 *	9-13	132	1.0 32
TL 290RR	83.8 *	9-15	133	1.0 28
Hoosier HP 3041RR	83.0 *	9-12	131	1.0 32
Rupp RS 4295RR	81.5 *	9-13	131	1.0 35
Adler 296RRN	80.9 *	9-15	134	1.0 31
Rupp RS 4232NRR	78.1	9-08	126	1.0 28
Grand mean	82.8	9-13	131	1.0 31
BLSD (k=100)	8.7	5	5	ns 2
C.V. (%)	5.0	2	1	5
2005 results(4)				
DSR-2700/RRSTS	82.0 *	9-11	129	1.0 32
DKB 29-51 DeKalb	79.9 *	9-12	130	1.0 32
DSR-2800/RRSTS	78.7 *	9-11	129	1.0 33
AG 2801 Asgrow	78.6 *	9-12	130	1.0 30
2721RR/N Garst	78.0 *	9-10	128	1.0 32
Hoosier HP 2824CRR	78.0 *	9-12	130	1.0 32
Adler 292RRN	78.0 *	9-12	130	1.0 29
Hoosier HP 2955CRR	76.4 *	9-12	130	1.0 32
DSR-2600/RR	75.0 *	9-11	129	1.0 30
Dyna-Gro 39V26	74.1 *	9-11	129	1.0 28
Hoosier HP 3041RR	74.0 *	9-10	128	1.0 31
Rupp RS 4295RR	73.1 *	9-13	131	1.0 34
Wyckoff W2963CRR	72.9 *	9-11	129	1.0 30
TL 290RR	72.8 *	9-15	133	1.0 28
Beck 297NRR	72.3 *	9-13	131	1.0 31
Rupp RS 4232NRR	69.6	9-10	128	1.0 28
Adler 296RRN	67.5	9-15	133	1.0 30
Dyna-Gro 37B28	67.3	9-10	128	1.0 33

Table 2 contd. Results of Maturity Group II, Roundup Ready® soybean performance trials in Porter Co., Location 1, northwest Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Grand mean	74.9	9-12	130	1.0 31
BLSD (k=100)	10.2	1	1	ns 2
C.V. (%)	7.6	2	1	5

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(1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.

(2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.

(3) 1 (erect) to 5 (flat).

(4) Conducted on the Pinney-Purdue Agricultural Center, Wanatah.

Jon D. Leuck, superintendent.

Randomized complete block design: 4 blocks

Soil type: Runnymede loam.

Soil test for Roundup Ready® soybeans, maturity group II: pH 6.3, P 67 ppm (very high), K 142 ppm (medium).

Date of planting: May 5, 2005.

Date of harvest: October 7, 2005.

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Table 3. Results of Maturity Group III, Roundup Ready® soybean performance trials in Porter Co., Location 1, northwest Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Three-year average (2003, 2004, 2005)				
3212RR/N Garst	70.9	9-19	133	1.0 33
Grand mean	70.9	9-19	133	1.0 33

Table 3 contd. Results of Maturity Group III, Roundup Ready® soybean performance trials in Porter Co., Location 1, northwest Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Two-year average (2004, 2005)				
Adler 338RRN	84.9 *	9-18	137	1.0 34
3212RR/N Garst	84.5 *	9-19	137	1.0 33
Hoosier HP 3502CRR	83.3 *	9-18	136	1.0 37
Rupp RS 4314RR	82.4 *	9-12	131	1.0 33
DSR-3000/RRSTS	81.8 *	9-13	132	1.0 30
TL 304RR	80.2 *	9-18	136	1.0 34
Hoosier HP 3934CRR	73.5	9-23	141	1.0 39
Grand mean	81.5	9-17	136	1.0 34
BLSD (k=100)	7.0	6	6	ns 3
C.V. (%)	4.2	2	1	4

2005 results(4)

Beck 333RR	76.7 *	9-17	135	1.0 33
3448RR/N Garst	75.9 *	9-16	134	1.0 32
DSR-3000/RRSTS	74.0 *	9-12	130	1.0 31
Wyckoff W3262CRR	73.2 *	9-17	135	1.0 35
3212RR/N Garst	72.9 *	9-22	140	1.0 32
AG 3203 Asgrow	72.7 *	9-15	133	1.0 30
Rupp RS 4314RR	72.3 *	9-11	129	1.0 34
Hoosier HP 3502CRR	72.0 *	9-16	134	1.0 37
Adler 338RRN	71.4 *	9-17	135	1.0 33
DSR-3101/RRSTS	71.3 *	9-13	131	1.0 35
Wyckoff W3463CRR	70.6	9-17	135	1.0 31
Dyna-Gro 31T31	70.5	9-16	134	1.0 32
TL 304RR	69.7	9-17	135	1.0 34
Dyna-Gro 37K32	69.4	9-12	130	1.0 33
Hoosier HP 3155CRR	66.6	9-13	131	1.0 32
Hoosier HP 3934CRR	60.5	9-22	140	1.0 37
Grand mean	71.2	9-16	134	1.0 33
BLSD (k=100)	5.7	1	1	ns 2
C.V. (%)	5.4	2	1	4

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(1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.

(2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.

(3) 1 (erect) to 5 (flat).

Table 3 contd. Results of Maturity Group III, Roundup Ready® soybean performance trials in Porter Co., Location 1, northwest Indiana.

(4) Conducted on the Pinney-Purdue Agricultural Center, Wanatah.
 Jon D. Leuck, superintendent.
 Randomized complete block design: 4 blocks
 Soil type: Runnymede loam.
 Soil test for Roundup Ready® soybeans, maturity group III: pH 6.0, P 79 ppm (very high), K 130 ppm (medium).
 Date of planting: May 5, 2005.
 Date of harvest: October 7, 2005.
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Table 4. Results of the Conventional Soybean performance trial, Maturity Groups II and III, in LaGrange Co., Location 2, northeast Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
2005 results(4)				
IP 2902N	48.5 *	9-11	123	1.0 20
IP 3002	36.2	9-11	123	1.0 20
IP 2702	20.5	9-02	114	1.0 17
Grand mean	35.1	9-08	120	1.0 19
BLSD (k=100)	12.1	2	2	ns 2
C.V. (%)	20.1	3	1	6

- (1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.
 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).

Table 4 contd. Results of the Conventional Soybean performance trial, Maturity Groups II and III, in LaGrange Co., Location 2, northeast Indiana.

(4) Conducted on the Purdue University Hostetler Farm, Topeka.
 Craig and Matt Helman, cooperators.
 Randomized complete block design: 4 blocks
 Soil type: Shipshe sandy loam.
 Soil test for conventional soybeans: pH 6.7, P 42 ppm (high), K 160 ppm (high).
 Date of planting: May 11, 2005.
 Date of harvest: October 19, 2005.
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Table 5. Results of the Maturity Group II, Roundup Ready® soybean performance trial in LaGrange Co., Location 2, northeast Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
2005 results(4)				
Adler 296RRN	53.6 *	9-12	124	1.0 21
Beck 297NRR	50.7 *	9-11	123	1.0 21
DKB 29-51 DeKalb	41.8	9-08	120	1.0 18
Adler 292RRN	40.5	9-11	123	1.0 18
TL 290RR	39.5	9-10	122	1.0 18
Dyna-Gro 37B28	36.7	9-10	122	1.0 20
Rupp RS 4295RR	36.3	9-12	124	1.0 22
AG 2801 Asgrow	34.8	9-11	123	1.0 16
2721RR/N Garst	34.0	9-08	120	1.0 20
DSR-2800/RRSTS	33.4	9-05	117	1.0 18
Dyna-Gro 39V26	30.7	9-06	118	1.0 16
DSR-2600/RR	28.0	9-01	113	1.0 12
DSR-2700/RRSTS	26.7	9-02	114	1.0 15
Rupp RS 4232NRR	19.0	9-01	113	1.0 14
Grand mean	36.1	9-08	120	1.0 18
BLSD (k=100)	9.0	3	3	ns 3
C.V. (%)	18.2	5	2	13

Table 5 contd. Results of the Maturity Group II, Roundup Ready® soybean performance trial in LaGrange Co., Location 2, northeast Indiana.

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 (1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.
 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
 (4) Conducted on the Purdue University Hostetler Farm, Topeka. Craig and Matt Helman, cooperators.
 Randomized complete block design: 4 blocks
 Soil type: Shishe sandy loam.
 Soil test for Roundup Ready® soybeans, maturity group II: pH 6.3, P 36 ppm (high), K 158 ppm (high).
 Date of planting: May 11, 2005.
 Date of harvest: October 19, 2005.
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Table 6. Results of the Maturity Group III, Roundup Ready® soybean performance trial in LaGrange Co., Location 2, northeast Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
2005 results(4)				
Adler 338RRN	53.8 *	9-13	125	1.0 24
3624RR/N Garst	52.1 *	9-14	126	1.0 23
3212RR/N Garst	50.0 *	9-14	126	1.0 22
Beck 333RR	48.0 *	9-12	124	1.0 19
Rupp RS 4345RR	47.1 *	9-14	126	1.0 19
AG 3602 Asgrow	46.8 *	9-14	126	1.0 20
DSR-3101/RRSTS	46.0 *	9-14	126	1.0 20
DKB 31-51 DeKalb	44.7	9-14	126	1.0 20
TL 304RR	43.2	9-14	126	1.0 20
AG 3305 Asgrow	42.5	9-14	126	1.0 18
Dyna-Gro 31T31	36.5	9-14	126	1.0 19
3448RR/N Garst	36.1	9-13	125	1.0 17
Dyna-Gro 37K32	34.1	9-10	122	1.0 20
AG 3203 Asgrow	29.7	9-13	125	1.0 16
Rupp RS 4314RR	24.8	9-09	121	1.0 19
DSR-3000/RRSTS	22.1	9-05	117	1.0 11

Table 6 contd. Results of the Maturity Group III, Roundup Ready® soybean performance trial in LaGrange Co., Location 2, northeast Indiana.

Grand mean	41.1	9-13	125	1.0	19
BLSD (k=100)	8.4	2	2	ns	3
C.V. (%)	15.2	3	1		12

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 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
 (4) Conducted on the Purdue University Hostetler Farm, Topeka. Craig and Matt Helman, cooperators.
 Randomized complete block design: 4 blocks
 Soil type: Shishe sandy loam.
 Soil test for Roundup Ready® soybeans, maturity group III: pH 6.3, P 43 ppm (high), K 169 ppm (high).
 Date of planting: May 11, 2005.
 Date of harvest: October 19, 2005.
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Table 7. Results of Conventional Soybean performance trials, Maturity Group III, in Tippecanoe Co., Location 3, west central Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height	
	bu./A.			in.	
Two-year average (2004, 2005)					
3585N	Garst 70.6	9-26	123	1.0 40	
Grand mean	70.6	9-26	123	1.0 40	
2005 results(4)					
IP 3250N	77.6 *	9-22	127	1.0 42	
3585N	Garst 77.5 *	9-20	125	1.0 43	
3906N	Garst 70.5 *	9-23	128	1.0 45	
IP 3602	59.5	9-23	128	1.0 42	
Grand mean	71.3	9-22	127	1.0 43	
BLSD (k=100)	12.0	1	1	ns ns	
C.V. (%)	10.2	1	1		4

Table 7 contd. Results of Conventional Soybean performance trials, Maturity Group III, in Tippecanoe Co., Location 3, west central Indiana.

- (1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.
 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
 (4) Conducted on the Purdue University Agronomy Center for Research and Education (ACRE), Lafayette. James J. Beaty III, superintendent. Randomized complete block design: 4 blocks. Soil type: Drummer (Chalmers) clay loam. Soil test for conventional soybeans: pH 6.3, P 18 ppm (low), K 137 ppm (medium). Date of planting: May 18, 2005. Date of harvest: October 5, 2005.
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Table 8. Results of Maturity Group II, Roundup Ready® soybean performance trials in Tippecanoe Co., Location 3, west central Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Two-year average (2004, 2005)				
AG 2801 Asgrow	72.8 *	9-17	122	32
Hoosier HP 2824CRR	67.5 *	9-15	119	30
Hoosier HP 3041RR	67.3 *	9-16	120	30
Grand mean	69.2	9-16	120	31
BLS D (k=100)	ns	1	1	ns
C.V. (%)	3.5	2	1	7

2005 results(4)				
AG 2801 Asgrow	75.2 *	9-07	127	34
V29N6RR Vigoro	75.1 *	9-07	127	35
2721RR/N Garst	73.9 *	9-05	125	33
Hoosier HP 2955CRR	72.8 *	9-05	125	35
Wyckoff W2963CRR	72.3 *	9-04	124	34
Hoosier HP 2824CRR	72.0 *	9-04	124	31
DKB 29-51 DeKalb	69.7 *	9-06	126	33
DSR-2700/RRSTS	69.2	9-04	124	32
Adler 292RRN	68.3	9-06	126	33

Table 8 contd. Results of Maturity Group II, Roundup Ready® soybean performance trials in Tippecanoe Co., Location 3, west central Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
2005 results, continued(4)				
DSR-2800/RRSTS	67.7	9-03	123	33
Hoosier HP 3041RR	67.5	9-05	125	31
DSR-2600/RR	64.8	9-02	122	27
M-627RR Martin	63.2	9-08	128	25
V275RR Vigoro	63.1	9-08	128	34
Grand mean	69.6	9-05	125	32
BLS D (k=100)	5.8	1	1	ns
C.V. (%)	5.7	3	1	6

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 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
 (4) Conducted on the Purdue University Agronomy Center for Research and Education (ACRE), Lafayette. James J. Beaty III, superintendent. Randomized complete block design: 4 blocks. Soil type: Drummer (Chalmers) clay loam. Soil test for Roundup Ready® soybeans, maturity group II: pH 6.4, P 10 ppm (low), K 116 ppm (medium). Date of planting for maturity group II: May 3, 2005. Date of harvest for maturity group II: October 4, 2005.
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Table 9. Results of Maturity Group III, Roundup Ready® soybean performance trials in Tippecanoe Co., Location 3, west central Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Three-year average (2003, 2004, 2005)				
DKB 31-51 DeKalb	59.0 *	9-20	123	1.0 31
3712RR/N Garst	58.5 *	9-24	127	1.0 31
DSR-385/RR	56.1 *	9-28	131	1.0 31
Beck 323RR	55.9 *	9-19	122	1.0 31
TL 353RR	55.9 *	9-22	125	1.0 32
Rupp RS 4345RR	54.7 *	9-19	122	1.0 30
M-435NRR Martin	54.7 *	9-24	127	1.1 36
Grand mean	56.4	9-22	125	1.0 32
BLSD (k=100)	ns	4	4	ns 2
C.V. (%)	8.2	2	1	10.8 5
Two-year average (2004, 2005)				
3712RR/N Garst	67.2 *	9-21	125	1.0 34
3624RR/N Garst	67.0 *	9-23	127	1.0 35
DKB 31-51 DeKalb	65.3 *	9-20	124	1.0 32
AG 3101 Asgrow	64.5 *	9-19	123	1.0 34
DSR-3500/RR	64.4 *	9-24	128	1.0 37
DSR-3600/RR	64.2 *	9-22	126	1.0 33
V36N5RR Vigoro	64.1 *	9-24	128	1.0 37
TL 334RR	63.3 *	9-21	125	1.0 36
V38N5RS Vigoro	63.1 *	9-23	127	1.0 32
V354RR Vigoro	62.6 *	9-21	125	1.0 34
DSR-385/RR	62.6 *	9-28	132	1.0 32
AG 3305 Asgrow	62.5 *	9-21	125	1.0 30
M-533RR Martin	62.0 *	9-19	123	1.0 32
Rupp RS 4345RR	62.0 *	9-19	123	1.0 31
AG 3602 Asgrow	61.9 *	9-22	126	1.0 34
Beck 323RR	61.8 *	9-19	123	1.0 32
M-538NRR Martin	61.6 *	9-23	127	1.0 32
TL 353RR	61.0 *	9-21	125	1.0 33
DKB 36-52 DeKalb	60.3 *	9-23	127	1.0 36
DSR-3501/RR	59.7 *	9-22	126	1.1 37
M-435NRR Martin	59.0 *	9-23	127	1.1 37
TL 364RR	58.0 *	9-23	127	1.0 38
Grand mean	62.6	9-22	126	1.0 34
BLSD (k=100)	9.4	4	4	ns 3
C.V. (%)	7.0	2	1	10.3 6

Table 9 contd. Results of Maturity Group III, Roundup Ready® soybean performance trials in Tippecanoe Co., Location 3, west central Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
2005 results(4)				
V31N6RR Vigoro	71.2 *	9-08	127	1.0 35
Beck 321NRR	68.7 *	9-09	128	1.0 33
Wyckoff W3262CRR	67.6 *	9-11	130	1.0 39
AG 3006 Asgrow	66.9 *	9-07	126	1.0 34
3712RR/N Garst	66.5 *	9-08	127	1.0 36
DSR-3801/RR	66.4 *	9-10	129	1.0 37
3624RR/N Garst	66.4 *	9-12	131	1.0 35
V35N6RR Vigoro	65.8 *	9-11	130	1.0 37
M-631NRR Martin	65.5 *	9-08	127	1.0 34
V38N5RS Vigoro	65.5 *	9-12	131	1.0 33
Hoosier HP 3155CRR	65.2 *	9-08	127	1.0 35
AG 3101 Asgrow	65.2 *	9-08	127	1.0 34
DSR-3500/RR	65.0 *	9-12	131	1.0 38
AG 3203 Asgrow	64.6	9-09	128	1.0 34
Adler 338RRN	64.4	9-11	130	1.0 38
DKB 31-51 DeKalb	64.1	9-09	128	1.0 33
Dyna-Gro 32C38	63.6	9-11	130	1.0 29
Dyna-Gro 35D33	63.0	9-10	129	1.0 36
Dyna-Gro 33A37	63.0	9-11	130	1.0 35
V33N6RR Vigoro	62.9	9-10	129	1.0 36
3448RR/N Garst	62.8	9-08	127	1.0 31
AG 3602 Asgrow	62.8	9-10	129	1.0 33
Beck 323RR	62.7	9-08	127	1.0 34
DSR-385/RR	62.7	9-21	140	1.0 34
DSR-3502/RR	62.5	9-07	126	1.0 35
TL 350RR	62.5	9-10	129	1.0 35
M-538NRR Martin	62.3	9-11	130	1.0 31
TL 353RR	62.2	9-10	129	1.0 34
DSR-3601/RRSTS	62.0	9-09	128	1.0 36
DSR-3600/RR	61.7	9-11	130	1.0 35
AG 3305 Asgrow	61.5	9-10	129	1.0 30
DKB 36-52 DeKalb	61.5	9-12	131	1.0 38
V36N5RR Vigoro	61.5	9-14	133	1.0 37
Dyna-Gro 37K32	61.4	9-08	127	1.0 35
TL 334RR	61.2	9-10	129	1.0 36
V386RR Vigoro	61.2	9-11	130	1.0 33
Rupp RS 4372NRR	61.0	9-11	130	1.0 32
Wyckoff W3463CRR	59.9	9-11	130	1.0 33
AG 3505 Asgrow	59.8	9-10	129	1.0 35
V354RR Vigoro	59.4	9-10	129	1.0 35
Beck 349NRR	59.0	9-09	128	1.0 31
Rupp RS 4345RR	59.0	9-09	128	1.0 32
Adler 358RRN	59.0	9-11	130	1.0 32

Table 9 contd. Results of Maturity Group III, Roundup Ready® soybean performance trials in Tippecanoe Co., Location 3, west central Indiana.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
		bu./A.			in.
2005 results, continued(4)					
V315RR	Vigoro	58.8	9-07	126	1.0 32
TL 364RR		58.2	9-11	130	1.0 37
AG 3905	Asgrow	58.0	9-19	138	1.0 40
M-533RR	Martin	57.8	9-09	128	1.0 32
V345RR	Vigoro	57.1	9-12	131	1.0 33
M-435NRR	Martin	56.6	9-12	131	1.0 37
DSR-3101/RRSTS		55.2	9-10	129	1.0 36
Beck 333RR		54.8	9-11	130	1.0 31
Rupp RS 4314RR		54.0	9-06	125	1.0 34
DSR-3501/RR		54.0	9-11	130	1.0 37
Grand mean		62.0	9-10	129	1.0 34
BLSD (k=100)		6.6	2	2	ns 3
C.V. (%)		6.9	3	1	7

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(2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.

(3) 1 (erect) to 5 (flat).

(4) Conducted on the Purdue University Agronomy Center for Research and Education (ACRE), Lafayette. James J. Beaty III, superintendent.

Randomized complete block design: 4 blocks.

Soil type: Drummer (Chalmers) clay loam.

Soil test for Roundup Ready® soybeans, maturity group III: pH 6.1, P 10 ppm (low), K 134 ppm (medium).

Date of planting for maturity group III: May 4, 2005

Date of harvest for maturity group III: October 5, 2005.

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Table 10. Results of Conventional Soybean performance trials, Maturity Group III, in Randolph Co., Location 4, east central Indiana.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
		bu./A.			in.
Two-year average (2004, 2005)					
3906N	Garst	80.6 *	9-24	135	1.0 36
3585N	Garst	73.2	9-17	128	1.1 35
Grand mean		76.9	9-21	132	1.0 36
BLSD (k=100)		3.1	ns	ns	ns 1
C.V. (%)		8.7	6	2	23.8 9
2005 results(4)					
Hoosier HP 3542		90.7 *	9-26	132	1.0 38
3906N	Garst	88.4 *	9-29	135	1.0 42
IP 3920		82.6 *	9-27	133	1.3 39
IP 3602		82.3 *	9-29	135	1.0 39
3585N	Garst	82.1 *	9-22	128	1.3 40
IP 3250N		82.0 *	9-26	132	1.0 39
Grand mean		84.7	9-27	133	1.1 40
BLSD (k=100)		ns	4	4	ns 2
C.V. (%)		6.7	4	2	27.1 4

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(2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.

(3) 1 (erect) to 5 (flat).

(4) Conducted on the Davis-Purdue Agricultural Center, Farmland.

Jeffrey L. Boyer, superintendent.

Randomized complete block design: 4 blocks.

Soil type: Blount silty clay loam.

Soil test for conventional soybeans: pH 6.9, P 12 ppm (low), K 110 ppm (medium).

Date of planting: May 17, 2005.

Date of harvest: October 6, 2005.

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Table 11. Results of Maturity Group II, Roundup Ready® soybean performance trials in Randolph Co., Location 4, east central Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Two-year average (2004, 2005)				
Rupp RS 4295RR	89.6 *	9-15	126	1.0 32
Adler 296RRN	83.0 *	9-20	131	1.0 32
Grand mean	86.3	9-18	129	1.0 32
BLSD (k=100)	6.7	3	3	ns ns
C.V. (%)	7.4	4	2	4
2005 results(4)				
Rupp RS 4295RR	90.4 *	9-19	125	1.0 37
V275RR Vigoro	86.3 *	9-21	127	1.0 36
Adler 296RRN	81.4 *	9-22	128	1.0 37
Adler 292RRN	78.2 *	9-18	124	1.0 35
M-627RR Martin	74.3	9-19	125	1.0 31
V29N6RR Vigoro	64.2	9-20	126	1.0 36
Grand mean	79.1	9-20	126	1.0 35
BLSD (k=100)	14.5	ns	ns	ns 2
C.V. (%)	11.4	4	2	4

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(1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.

(2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.

(3) 1 (erect) to 5 (flat).

(4) Conducted on the Davis-Purdue Agricultural Center, Farmland.

Jeffrey L. Boyer, superintendent.

Randomized complete block design: 4 blocks.

Soil type: Blount silty clay loam.

Soil test for Roundup Ready® soybeans, maturity group II: pH 6.3,

P 27 ppm (medium), K 132 ppm (medium).

Date of planting: May 17, 2005.

Date of harvest: October 6, 2005.

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Table 12. Results of Maturity Group III, Roundup Ready® soybean performance trials in Randolph Co., Location 4, east central Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Three-year average (2003, 2004, 2005)				
3712RR/N Garst	73.1 *	9-27	133	1.1 32
DSR-385/RR	72.7 *	9-30	135	1.0 32
Rupp RS 4345RR	72.4 *	9-24	130	1.0 30
Beck 323RR	66.6 *	9-23	129	1.1 31
Grand mean	71.2	9-26	132	1.0 31
BLSD (k=100)	ns	3	3	ns ns
C.V. (%)	10.6	3	1	20.5 7
Two-year average (2004, 2005)				
AG 3602 Asgrow	87.9 *	9-24	135	1.1 35
M-538NRR Martin	87.1 *	9-27	138	1.0 33
M-435NRR Martin	86.4 *	9-27	138	1.5 36
DSR-3600/RR	86.1 *	9-27	138	1.3 35
Rupp RS 4345RR	85.2 *	9-21	132	1.0 31
DSR-3501/RR	84.8 *	9-24	135	1.3 37
DSR-385/RR	84.1 *	9-27	138	1.0 33
DKB 36-52 DeKalb	82.2 *	9-24	135	1.1 35
V36N5RR Vigoro	81.7 *	9-26	137	1.3 36
3712RR/N Garst	81.6 *	9-24	135	1.1 34
Rupp RS 4314RR	81.4 *	9-13	124	1.0 33
AG 3305 Asgrow	81.3 *	9-24	135	1.0 31
Adler 338RRN	80.9 *	9-22	133	1.0 30
DSR-3500/RR	80.8 *	9-24	135	1.1 35
Hoosier HP 3502CRR	79.8 *	9-22	133	1.0 37
V354RR Vigoro	77.9 *	9-21	132	1.0 35
3624RR/N Garst	77.7 *	9-22	133	1.3 34
V38N5RS Vigoro	76.7 *	9-27	138	1.0 32
Hoosier HP 3715RR	76.5 *	9-27	138	1.3 39
M-533RR Martin	75.9 *	9-19	130	1.0 31
Adler 374RRN	75.1 *	9-23	134	1.3 33
AG 3802 Asgrow	75.0 *	9-26	137	1.0 36
Hoosier HP 3934CRR	74.6 *	9-26	137	1.0 34
DKB 31-51 DeKalb	73.7 *	9-20	131	1.0 30
AG 3101 Asgrow	72.9 *	9-19	130	1.0 31
Beck 323RR	71.3 *	9-19	130	1.1 31
Grand mean	79.9	9-23	134	1.1 34
BLSD (k=100)	17.7	3	3	ns 2
C.V. (%)	9.7	5	2	21.5 7

Table 12 contd. Results of Maturity Group III, Roundup Ready® soybean performance trials in Randolph Co., Location 4, east central Indiana.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
		bu./A.			in.
2005 results(4)					
V345RR	Vigoro	95.6 *	9-23	129	1.0 36
AG 3006	Asgrow	90.4 *	9-15	121	1.3 36
AG 3602	Asgrow	87.1 *	9-24	130	1.3 38
Hoosier HP 3155CRR		85.9 *	9-19	125	1.3 32
Rupp RS 4345RR		84.8 *	9-21	127	1.0 33
Beck 349NRR		84.8 *	9-24	130	1.0 34
DSR-3600/RR		84.3 *	9-29	135	1.5 39
M-538NRR	Martin	83.5 *	9-29	135	1.0 35
Hoosier HP 3844CRS		83.4 *	9-29	135	1.0 36
DSR-3601/RRSTS		82.7 *	9-26	132	1.8 40
DSR-3502/RR		81.6 *	9-22	128	1.5 37
V35N6RR	Vigoro	81.6 *	9-24	130	1.3 38
DSR-3801/RR		81.5 *	9-27	133	1.3 36
M-631NRR	Martin	81.3 *	9-18	124	1.3 35
DSR-3501/RR		81.3 *	9-26	132	1.5 40
3448RR/N	Garst	80.9 *	9-21	127	1.0 35
V315RR	Vigoro	80.8 *	9-16	122	1.3 37
Adler 338RRN		78.3 *	9-24	130	1.0 34
DSR-385/RR		78.3 *	9-29	135	1.0 35
M-435NRR	Martin	78.2	9-29	135	2.0 39
Rupp RS 4372NRR		78.1	9-24	130	1.5 35
V33N6RR	Vigoro	77.3	9-27	133	1.0 36
Hoosier HP 3502CRR		76.5	9-21	127	1.0 40
Dyna-Gro 35D33		76.0	9-22	128	1.5 37
AG 3305	Asgrow	74.8	9-25	131	1.0 35
DKB 36-52	DeKalb	74.5	9-26	132	1.3 37
V31N6RR	Vigoro	74.4	9-19	125	1.0 36
Dyna-Gro 32C38		73.9	9-29	135	1.0 33
AG 3505	Asgrow	73.8	9-22	128	1.0 35
Adler 358RRN		73.4	9-27	133	1.0 34
DSR-3500/RR		73.1	9-26	132	1.3 38
Rupp RS 4314RR		73.0	9-15	121	1.0 35
AG 3203	Asgrow	72.4	9-21	127	1.0 33
V36N5RR	Vigoro	72.0	9-27	133	1.5 39
BioGene BG 3606RN		71.7	9-29	135	1.0 39
Dyna-Gro 33A37		71.4	9-26	132	1.0 34
Adler 374RRN		71.2	9-27	133	1.5 36
DKB 31-51	DeKalb	70.7	9-23	129	1.0 34
3712RR/N	Garst	70.6	9-24	130	1.3 37
BioGene BG 3806RN		70.1	9-29	135	1.0 35
3624RR/N	Garst	69.2	9-24	130	1.5 36
AG 3101	Asgrow	68.4	9-20	126	1.0 34
V354RR	Vigoro	68.3	9-24	130	1.0 37

Table 12 contd. Results of Maturity Group III, Roundup Ready® soybean performance trials in Randolph Co., Location 4, east central Indiana.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
		bu./A.			in.
2005 results, continued(4)					
Hoosier HP 3934CRR		67.9	9-27	133	1.0 38
AG 3802	Asgrow	67.4	9-27	133	1.0 38
V386RR	Vigoro	67.2	9-29	135	1.0 36
BioGene BG 3620NRR		66.8	9-29	135	1.0 32
Hoosier HP 3832CRR		65.8	9-29	135	1.0 36
Beck 323RR		65.0	9-21	127	1.3 34
Beck 333RR		64.2	9-19	125	1.0 34
Beck 321NRR		64.2	9-20	126	1.0 32
Dyna-Gro 37K32		63.7	9-17	123	1.0 34
M-533RR	Martin	62.3	9-21	127	1.0 32
Hoosier HP 3715RR		62.0	9-29	135	1.5 42
V38N5RS	Vigoro	61.8	9-29	135	1.0 34
Grand mean		74.9	9-24	130	1.2 36
BLSD (k=100)		17.4	4	4	0.6 3
C.V. (%)		13.7	5	2	27.9 6

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(1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.

(2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.

(3) 1 (erect) to 5 (flat).

(4) Conducted on the Davis-Purdue Agricultural Center, Farmland.

Jeffrey L. Boyer, superintendent.

Randomized complete block design: 4 blocks.

Soil type: Blount silty clay loam.

Soil test for Roundup Ready® soybeans, maturity group III: pH 6.5,

P 21 ppm (medium), K 112 ppm (medium).

Date of planting: May 17, 2005.

Date of harvest: October 6, 2005.

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Table 13. Results of Conventional Soybean, Maturity Groups III and IV, performance trials Jennings Co., Location 5, southeast Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Three-year average (2003, 2004, 2005)				
3906N Garst	68.7	9-26	129	1.4 34
Grand mean	68.7	9-26	129	1.4 34
Two-year average (2004, 2005)				
SC Hoshea N	76.3 *	9-21	134	1.0 38
3906N Garst	75.0 *	9-21	134	1.6 37
Grand mean	75.7	9-21	134	1.3 38
B LSD (k=100)	ns	ns	ns	ns
C.V. (%)	6.4	3	1	19.2 3
2005 results(4)				
SC Benjamin N	85.8 *	9-30	144	2.0 37
SC Hoshea N	81.0 *	9-26	140	1.0 38
CPS 7402STS	80.8 *	9-28	142	3.0 36
Hoosier HP 3542	80.6 *	9-23	137	1.0 32
IP 4242N	80.4 *	9-28	142	2.0 37
IP 3920	78.8 *	9-25	139	2.0 35
3906N Garst	78.4 *	9-27	141	2.0 36
Grand mean	80.8	9-27	141	1.9 36
B LSD (k=100)	ns	1	1	0.4 3
C.V. (%)	5.4	1	1	16.6 6

- (1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.
- (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
- (3) 1 (erect) to 5 (flat).
- (4) Conducted on the Southeast-Purdue Agricultural Center, Butlerville.
Donald J. Biehle, superintendent.
Randomized complete block design: 4 blocks
Soil type: Avonburg.
Soil test for conventional soybeans: pH 6.4,
P 22 ppm (medium), K 124 ppm (medium).
Date of planting: May 9, 2005.
Date of harvest: October 3, 2005.
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Table 14. Results of Maturity Group III, Roundup Ready® soybean performance trials in Jennings Co., Location 5, southeast Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Three-year average (2003, 2004, 2005)				
AG 3905 Asgrow	65.0	9-25	128	1.3 35
Grand mean	65.0	9-25	128	1.3 35
Two-year average (2004, 2005)				
AG 3906 Asgrow	80.2 *	9-21	134	1.5 34
AG 3602 Asgrow	77.4 *	9-16	129	1.4 35
V38N5RS Vigoro	77.1 *	9-20	133	1.3 34
TL 334RR	76.4 *	9-14	127	1.8 36
AG 3802 Asgrow	76.4 *	9-18	131	1.4 41
3624RR/N Garst	76.2 *	9-16	129	2.1 35
V39N4RR Vigoro	75.4 *	9-18	131	2.1 33
BioGene BG 3620NRR	74.3 *	9-20	133	1.5 32
TL 364RR	74.2 *	9-18	131	2.9 39
Hoosier HP 3502CRR	74.1 *	9-13	126	1.3 38
TL 382RR	72.9 *	9-16	129	2.1 35
AG 3905 Asgrow	72.6 *	9-20	133	1.5 38
Hoosier HP 3715RR	71.1 *	9-17	130	2.8 37
TL 353RR	69.8 *	9-13	126	1.9 35
SC Stephen NRR	69.8 *	9-19	132	2.1 33
Hoosier HP 3934CRR	69.0 *	9-20	133	1.4 38
Grand mean	74.2	9-17	130	1.8 36
B LSD (k=100)	ns	4	4	1.2 3
C.V. (%)	9.3	5	2	27.5 6
2005 results(4)				
BioGene BG 3806RN	85.4 *	9-24	138	1.5 36
AG 3906 Asgrow	84.4 *	9-25	139	2.0 35
V36N5RR Vigoro	82.8 *	9-22	136	2.0 39
CPS 6383NRR	82.8 *	9-24	138	2.3 34
BioGene BG 3606RN	81.6 *	9-23	137	1.8 36
Dyna-Gro 32C38	80.9 *	9-24	138	2.0 33
AG 3802 Asgrow	80.5 *	9-24	138	1.8 42
Steyer 3830RR SCN	79.9 *	9-24	138	2.0 41
Hoosier HP 3844CRS	78.9 *	9-26	140	1.5 33
Hoosier HP 3832CRR	78.7 *	9-25	139	1.8 33
V39N4RR Vigoro	78.5 *	9-24	138	2.3 33
DKB 36-52 DeKalb	77.8 *	9-19	133	1.3 36
3624RR/N Garst	77.8 *	9-19	133	2.5 35
V38N5RS Vigoro	77.6 *	9-24	138	1.5 34
AG 3602 Asgrow	77.0 *	9-20	134	1.8 36
TL 350RR	76.9 *	9-21	135	2.5 36
Hoosier HP 3934CRR	75.8	9-26	140	1.8 38

Table 14 contd. Results of Maturity Group III, Roundup Ready® soybean performance trials in Jennings Co., Location 5, southeast Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
2005 results, continued(4)				
Adler 384RRN	73.8	9-22	136	2.3 40
Hoosier HP 3502CRR	73.6	9-16	130	1.5 39
TL 364RR	73.5	9-20	134	2.5 39
TL 334RR	73.0	9-17	131	2.0 36
Hoosier HP 3715RR	72.8	9-22	136	2.5 37
TL 382RR	72.5	9-20	134	2.8 34
SC Stephen NRR	72.0	9-23	137	2.0 34
BioGene BG 3620NRR	71.3	9-25	139	1.5 30
Adler 374RRN	70.8	9-18	132	2.5 34
AG 3905 Asgrow	70.5	9-24	138	1.5 38
Adler 382RRN	68.3	9-20	134	2.8 36
TL 353RR	64.8	9-17	131	2.8 37
Grand mean	76.4	9-22	136	2.0 36
BLSD (k=100)	9.6	3	3	0.7 3
C.V. (%)	7.9	5	2	22.8 6

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 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
 (4) Conducted on the Southeast-Purdue Agricultural Center, Butlerville.
 Donald J. Biehle, superintendent.
 Randomized complete block design: 4 blocks
 Soil type: Avonburg.
 Soil test for Roundup Ready® soybeans, maturity group III: pH 6.5, P 21 ppm (medium), K 124 ppm (medium).
 Date of planting: May 9, 2005.
 Date of harvest: October 3, 2005.
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Table 15. Results of Maturity Group IV, Roundup Ready® soybean performance trials in Jennings Co., Location 5, southeast Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Three-year average (2003, 2004, 2005)				
SC Michael NRR/STS	71.4	9-27	130	1.0 32
Grand mean	71.4	9-27	130	1.0 32
Two-year average (2004, 2005)				
4112RR/N Garst	86.9 *	9-21	134	1.0 34
V42N3RR Vigoro	85.1 *	9-22	135	1.0 34
4212RR/STS/NGarst	83.4 *	9-22	135	1.0 34
CPS 6444NRR	82.1 *	9-23	136	1.0 34
Steyer 4000RR SCN	80.8 *	9-21	134	1.0 34
SC Michael NRR/STS	79.1 *	9-23	136	1.0 34
Grand mean	82.9	9-22	135	1.0 34
BLSD (k=100)	ns	2	2	ns ns
C.V. (%)	7.5	2	1	6
2005 results(4)				
4112RR/N Garst	96.0 *	9-26	140	1.0 35
Beck 444NRR	96.0 *	9-30	144	1.8 47
4212RR/STS/NGarst	95.8 *	9-27	141	1.0 34
DKB 42-51 DeKalb	95.5 *	9-29	143	1.0 40
SC Moab NRR	95.1 *	9-29	143	2.0 46
AG 4404 Asgrow	94.1 *	9-30	144	1.0 41
V42N3RR Vigoro	94.0 *	9-28	142	1.0 36
V44N6RR Vigoro	91.9 *	9-30	144	2.0 45
CPS 6402NRR	91.1 *	9-26	140	2.0 34
Dyna-Gro DG3437NRR	89.2 *	9-28	142	1.0 35
DKB 44-51 DeKalb	89.0 *	9-30	144	1.0 43
Dyna-Gro 39G43	88.8 *	9-30	144	1.0 40
Hoosier HP 4453CRS	88.6 *	9-29	143	1.0 35
Steyer 4000RR SCN	87.7 *	9-27	141	1.0 35
Steyer 4420RR SCN	87.4 *	9-29	143	2.0 46
SC Levi NRR	86.9 *	9-30	144	1.0 39
SC Michael NRR/STS	86.2	9-28	142	1.0 35
Dyna-Gro 35B40	85.8	9-26	140	1.0 40
CPS 6444NRR	85.0	9-28	142	1.0 36
Hoosier HP 4413CRR	82.0	9-29	143	1.0 36
SC Abraham NRR	79.8	9-27	141	1.0 33
Grand mean	89.8	9-28	142	1.2 39
BLSD (k=100)	9.4	1	1	0.1 3
C.V. (%)	6.4	1	1	8.9 5

Table 15. Results of Maturity Group IV, Roundup Ready® soybean performance trials in Jennings Co., Location 5, southeast Indiana.

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 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
 (4) Conducted on the Southeast-Purdue Agricultural Center, Butlerville.
 Donald J. Biehle, superintendent.
 Randomized complete block design: 4 blocks
 Soil type: Avonburg.
 Soil test for Roundup Ready® soybeans, maturity group IV: pH 6.6, P 19 ppm (low), K 127 ppm (medium).
 Date of planting: May 9, 2005.
 Date of harvest: October 3, 2005.
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Table 16. Results of Conventional Soybean, Maturity Groups III and IV, performance trials in Knox Co., Location 6, southwest Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Three-year average (2003, 2004, 2005)				
3906N	Garst 66.1	9-13	131	1.8 37
Grand mean	66.1	9-13	131	1.8 37
Two-year average (2004, 2005)				
3906N	Garst 68.3 *	9-13	131	1.9 35
SC Hoshea N	66.6 *	9-15	134	1.1 37
Grand mean	67.4	9-14	133	1.5 36
BLSD (k=100)	ns	ns	ns	ns
C.V. (%)	11.9	5	2	33.3 14

Table 16 contd. Results of Conventional Soybean, Maturity Groups III and IV, performance trials in Knox Co., Location 6, southwest Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
2005 results(4)				
SC Benjamin N	78.8 *	9-22	139	1.5 39
IP 4242N	69.6	9-21	138	1.5 34
SC Hoshea N	64.2	9-15	132	1.3 36
3906N	Garst 63.3	9-15	132	2.8 37
IP 3920	54.6	9-12	129	1.3 31
CPS 7402STS	53.2	9-20	137	2.0 36
Grand mean	64.0	9-18	135	1.7 36
BLSD (k=100)	6.6	2	2	1.0 5
C.V. (%)	7.3	4	1	35.8 8

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 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
 (4) Conducted on the Southwest-Purdue Agricultural Center, Vincennes.
 Melborn K. Lang, superintendent.
 Randomized complete block design: 4 blocks
 Soil type: Ade loamy fine sand.
 Soil test for conventional soybeans: pH 5.7, P 98 ppm (very high), K 222 ppm (very high).
 Date of planting: May 6, 2005.
 Date of harvest: September 30, 2005.
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Table 17. Results of Maturity Group III, Roundup Ready® soybean performance trials in Knox Co., Location 6, southwest Indiana.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
		bu./A.			in.
Three-year average (2003, 2004, 2005)					
AG 3905	Asgrow	82.0 *	9-17	135	1.3
SC Stephen NRR		75.5 *	9-16	135	1.3
Grand mean		78.8	9-17	135	1.3
B LSD (k=100)		ns		ns	3
C.V. (%)		9.9		22.2	6
Two-year average (2004, 2005)					
AG 3905	Asgrow	88.9 *	9-17	135	1.1
AG 3906	Asgrow	87.7 *	9-17	135	1.1
AG 3802	Asgrow	83.0 *	9-11	130	1.1
TL 382RR		81.8 *	9-06	125	1.5
Hoosier HP 3934CRR		80.2 *	9-15	134	1.1
V38N5RS	Vigoro	77.5 *	9-13	132	1.0
SC Stephen NRR		77.3 *	9-16	135	1.1
3624RR/N	Garst	76.8 *	9-07	125	2.0
V39N4RR	Vigoro	76.6 *	9-11	130	1.3
Adler 374RRN		76.5 *	9-07	126	1.4
Hoosier HP 3502CRR		74.6 *	9-07	126	1.0
BioGene BG 3620NRR		73.5 *	9-16	134	1.0
Grand mean		79.5	9-12	131	1.2
B LSD (k=100)		16.2	3	3	0.6
C.V. (%)		8.6	5	1	26.1
2005 results(4)					
Steyer 3830RR SCN		92.3 *	9-19	136	1.0
AG 3905	Asgrow	90.5 *	9-21	138	1.0
CPS 6383NRR		90.0 *	9-17	134	1.0
V36N5RR	Vigoro	88.3 *	9-15	132	1.0
AG 3906	Asgrow	87.2 *	9-21	138	1.3
Hoosier HP 3934CRR		86.1 *	9-21	138	1.0
Adler 382RRN		85.4 *	9-21	138	1.0
TL 382RR		84.1 *	9-12	129	1.0
AG 3802	Asgrow	83.7 *	9-17	134	1.0
BioGene BG 3620NRR		83.1 *	9-23	140	1.0
Adler 384RRN		83.0 *	9-18	135	1.0
Dyna-Gro 32C38		81.7 *	9-18	135	1.0
SC Stephen NRR		80.9	9-22	139	1.3
V38N5RS	Vigoro	78.8	9-18	135	1.0
BioGene BG 3606RN		78.1	9-18	135	1.0
Hoosier HP 3502CRR		76.0	9-13	130	1.0

Table 17 contd. Results of Maturity Group III, Roundup Ready® soybean performance trials in Knox Co., Location 6, southwest Indiana.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
		bu./A.			in.
2005 results, continued(4)					
BioGene BG 3806RN		74.8	9-21	138	1.0
Adler 374RRN		74.1	9-11	128	1.3
V39N4RR	Vigoro	73.2	9-15	132	1.0
3624RR/N	Garst	72.3	9-10	127	1.8
Grand mean		82.2	9-18	135	1.1
B LSD (k=100)		11.3	3	3	0.4
C.V. (%)		8.6	4	1	20.2

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 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
 (4) Conducted on the Southwest-Purdue Agricultural Center, Vincennes.
 Melborn K. Lang, superintendent.
 Randomized complete block design: 4 blocks
 Soil type: Ade loamy fine sand.
 Soil test for Roundup Ready® soybeans, maturity group III: pH 5.8, P 123 ppm (very high), K 215 ppm (very high).
 Date of planting: May 6, 2005.
 Date of harvest: September 30, 2005.
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Table 18. Results of Maturity Group IV, Roundup Ready® soybean performance trials in Knox Co., Location 6, southwest Indiana.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Three-year average (2003, 2004, 2005)				
SC Michael NRR/STS	77.7	9-20	138	1.2 35
Grand mean	77.7	9-20	138	1.2 35
Two-year average (2004, 2005)				
4212RR/STS/N Garst	89.0 *	9-18	137	1.0 32
V42N3RR Vigoro	86.5 *	9-18	136	1.0 34
CPS 6444NRR	85.2 *	9-19	137	1.0 34
SC Michael NRR/STS	82.8 *	9-20	138	1.0 34
4112RR/N Garst	76.6	9-15	133	1.0 32
Steyer 4000RR SCN	75.3	9-14	133	1.0 32
Grand mean	82.6	9-17	136	1.0 33
BLSD (k=100)	9.3	4	4	ns ns
C.V. (%)	5.7	4	1	8
2005 results(4)				
V44N6RR Vigoro	99.5 *	9-26	143	1.0 37
Beck 444NRR	98.0 *	9-27	144	1.3 38
SC Moab NRR	96.8 *	9-25	142	1.0 38
4212RR/STS/N Garst	92.8	9-24	141	1.0 34
Steyer 4420RR SCN	92.0	9-25	142	1.3 38
Dyna-Gro 39G43	89.4	9-24	141	1.0 33
V42N3RR Vigoro	88.8	9-23	140	1.0 33
Dyna-Gro 35B40	88.4	9-21	138	1.3 33
AG 4404 Asgrow	88.3	9-26	143	1.0 33
Hoosier HP 4453CRS	87.3	9-25	142	1.0 34
DKB 42-51 DeKalb	85.8	9-25	142	1.0 34
SC Levi NRR	85.8	9-26	143	1.0 33
SC Michael NRR/STS	84.3	9-25	142	1.0 33
DKB 44-51 DeKalb	82.7	9-27	144	1.0 35
Dyna-Gro DG3437NRR	82.6	9-24	141	1.0 32
CPS 6444NRR	82.4	9-25	142	1.0 32
4112RR/N Garst	80.3	9-20	137	1.0 31
Steyer 4000RR SCN	75.6	9-22	139	1.0 32
Hoosier HP 4413CRR	75.3	9-25	142	1.0 31
CPS 6402NRR	75.2	9-25	142	1.0 25
SC Abraham NRR	72.1	9-22	139	1.0 30
Grand mean	85.9	9-24	141	1.0 33
BLSD (k=100)	5.6	2	2	ns 3
C.V. (%)	5.0	3	1	18.0 6

Table 18 contd. Results of Maturity Group IV, Roundup Ready® soybean performance trials in Knox Co., Location 6, southwest Indiana.

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 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
 (4) Conducted on the Southwest-Purdue Agricultural Center, Vincennes.
 Melborn K. Lang, superintendent.
 Randomized complete block design: 4 blocks
 Soil type: Ade loamy fine sand.
 Soil test for Roundup Ready® soybeans, maturity group IV: pH 5.8, P 113 ppm (very high), K 205 ppm (high).
 Date of planting: May 6, 2005.
 Date of harvest: September 30, 2005.
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Table 19. Results of the 2005, Conventional Soybean performance trials, combined across Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 1 and 2				
IP 2902N	64.7 *	9-14	129	1.0 26
IP 3002	53.9 *	9-14	129	1.0 28
IP 2702	49.3 *	9-06	121	1.1 25
Grand mean	56.0	9-11	126	1.0 26
BLSD (k=100)	ns	2	2	ns ns
C.V. (%)	10.3	2	1	19.8 4
Locations 1, 4 and 5				
Hoosier HP 3542	83.7	9-23	136	1.0 34
Grand mean	83.7	9-23	136	1.0 34

Table 19 contd. Results of the 2005, Conventional Soybean performance trials, combined across Indiana Locations 1 through 6.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height	
		bu./A.			in.	
Locations 3 and 4						
3585N	Garst	79.8 *	9-21	126	1.1	41
IP 3250N		79.8 *	9-24	129	1.0	40
3906N	Garst	79.5 *	9-26	132	1.0	43
IP 3602		70.9 *	9-26	131	1.0	40
Grand mean		77.5	9-24	130	1.0	41
BLSD (k=100)		ns	ns	ns	ns	1
C.V. (%)		9.1	3	1	17.2	3
Locations 3, 4, 5 and 6						
3906N	Garst	75.2	9-24	134	1.7	40
Grand mean		75.2	9-24	134	1.7	40
Locations 4 and 5						
Hoosier HP 3542		85.6 *	9-24	134	1.0	35
3906N	Garst	83.4 *	9-28	138	1.5	39
IP 3920		80.7 *	9-26	136	1.6	37
Grand mean		83.2	9-26	136	1.4	37
BLSD (k=100)		ns	1	1	ns	3
C.V. (%)		5.8	3	1	14.9	6
Locations 4, 5 and 6						
3906N	Garst	76.7 *	9-24	136	1.9	38
IP 3920		72.0 *	9-21	134	1.5	35
Grand mean		74.3	9-23	135	1.7	37
BLSD (k=100)		ns	1	1	ns	ns
C.V. (%)		7.5	3	1	26.8	6
Locations 5 and 6						
SC Benjamin N		82.3 *	9-26	142	1.8	38
IP 4242N		75.0 *	9-25	140	1.8	35
SC Hoshea N		72.6 *	9-20	136	1.1	37
3906N	Garst	70.8 *	9-21	137	2.4	36
CPS 7402STS		67.0 *	9-24	139	2.5	36
IP 3920		66.7	9-18	134	1.6	33
Grand mean		72.4	9-22	138	1.9	36
BLSD (k=100)		15.4	5	5	1.3	4
C.V. (%)		6.5	3	1	26.7	7

Table 19 contd. Results of the 2005, Conventional Soybean performance trials, combined across Indiana Locations 1 through 6.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height	
		bu./A.			in.	
Locations 1 and 2						
Beck 297NRR		61.5 *	9-12	127	1.0	26
DKB 29-51 DeKalb		60.8 *	9-10	125	1.0	25
Adler 296RRN		60.5 *	9-13	128	1.0	26
Adler 292RRN		59.2 *	9-11	126	1.0	24
AG 2801 Asgrow		56.7 *	9-11	126	1.0	23
TL 290RR		56.2 *	9-12	127	1.0	23
DSR-2800/RRSTS		56.1 *	9-08	123	1.0	26
2721RR/N Garst		56.0 *	9-09	124	1.0	26
Rupp RS 4295RR		54.7 *	9-12	127	1.0	28
DSR-2700/RRSTS		54.3 *	9-06	121	1.0	24
Dyna-Gro 39V26		52.4 *	9-08	123	1.0	22
Dyna-Gro 37B28		52.0 *	9-10	125	1.0	26
DSR-2600/RR		51.5 *	9-06	121	1.0	21
Rupp RS 4232NRR		44.3 *	9-06	121	1.0	21
Grand mean		55.4	9-10	125	1.0	24
BLSD (k=100)		ns	6	6	ns	4
C.V. (%)		10.6	4	1		8

(1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.

(2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.

(3) 1 (erect) to 5 (flat).

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Table 20. Results of the 2005 Roundup Ready® soybean, Maturity Group II, performance trials combined across Indiana Locations 1 through 4.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height	
		bu./A.			in.	
Locations 1 and 2						
Beck 297NRR		61.5 *	9-12	127	1.0	26
DKB 29-51 DeKalb		60.8 *	9-10	125	1.0	25
Adler 296RRN		60.5 *	9-13	128	1.0	26
Adler 292RRN		59.2 *	9-11	126	1.0	24
AG 2801 Asgrow		56.7 *	9-11	126	1.0	23
TL 290RR		56.2 *	9-12	127	1.0	23
DSR-2800/RRSTS		56.1 *	9-08	123	1.0	26
2721RR/N Garst		56.0 *	9-09	124	1.0	26
Rupp RS 4295RR		54.7 *	9-12	127	1.0	28
DSR-2700/RRSTS		54.3 *	9-06	121	1.0	24
Dyna-Gro 39V26		52.4 *	9-08	123	1.0	22
Dyna-Gro 37B28		52.0 *	9-10	125	1.0	26
DSR-2600/RR		51.5 *	9-06	121	1.0	21
Rupp RS 4232NRR		44.3 *	9-06	121	1.0	21
Grand mean		55.4	9-10	125	1.0	24
BLSD (k=100)		ns	6	6	ns	4
C.V. (%)		10.6	4	1		8

Table 20 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group II, performance trials combined across Indiana Locations 1 through 4.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 1, 2 and 3				
DKB 29-51 DeKalb	63.8 *	9-08	125	1.0 28
AG 2801 Asgrow	62.9 *	9-10	126	1.0 27
Adler 292RRN	62.3 *	9-09	126	1.0 27
2721RR/N Garst	61.9 *	9-08	124	1.0 28
DSR-2800/RRSTS	60.0 *	9-06	123	1.0 28
DSR-2700/RRSTS	59.3 *	9-06	122	1.0 26
DSR-2600/RR	55.9 *	9-05	121	1.0 23
Grand mean	60.9	9-07	124	1.0 27
BLSD (k=100)	8.4	4	4	ns 3
C.V. (%)	8.8	4	1	7
Locations 1, 2, 3 and 4				
Adler 292RRN	66.2	9-11	125	1.0 29
Grand mean	66.2	9-11	125	1.0 29
Locations 1, 2 and 4				
Adler 296RRN	67.5 *	9-16	128	1.0 30
Rupp RS 4295RR	66.6 *	9-14	126	1.0 31
Adler 292RRN	65.5 *	9-13	125	1.0 27
Grand mean	66.5	9-14	126	1.0 29
BLSD (k=100)	ns	2	2	ns 3
C.V. (%)	6.4	3	1	5
Locations 1 and 3				
AG 2801 Asgrow	76.9 *	9-09	128	1.0 32
2721RR/N Garst	75.9 *	9-07	126	1.0 33
DSR-2700/RRSTS	75.6 *	9-07	126	1.0 32
Hoosier HP 2824CRR	75.0 *	9-08	127	1.0 31
DKB 29-51 DeKalb	74.8 *	9-09	128	1.0 33
Hoosier HP 2955CRR	74.6 *	9-09	128	1.0 33
DSR-2800/RRSTS	73.2 *	9-07	126	1.0 33
Adler 292RRN	73.2 *	9-09	128	1.0 31
Wyckoff W2963CRR	72.6 *	9-07	126	1.0 32
Hoosier HP 3041RR	70.7 *	9-08	127	1.0 31
DSR-2600/RR	69.9 *	9-06	125	1.0 28
Grand mean	73.9	9-08	127	1.0 32
BLSD (k=100)	8.2	3	3	ns 5
C.V. (%)	6.6	2	1	6

Table 20 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group II, performance trials combined across Indiana Locations 1 through 4.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 1, 3 and 4				
Adler 292RRN	74.8	9-12	126	1.0 32
Grand mean	74.8	9-12	126	1.0 32
Locations 1 and 4				
Rupp RS 4295RR	81.7 *	9-16	128	1.0 36
Adler 292RRN	78.1 *	9-15	127	1.0 32
Adler 296RRN	74.5 *	9-18	130	1.0 34
Grand mean	78.1	9-16	128	1.0 34
BLSD (k=100)	ns	1	1	ns ns
C.V. (%)	6.2	3	1	3
Locations 2 and 3				
DKB 29-51 DeKalb	55.8 *	9-07	123	1.0 25
AG 2801 Asgrow	55.0 *	9-09	125	1.0 25
Adler 292RRN	54.4 *	9-08	124	1.0 25
2721RR/N Garst	53.9 *	9-07	123	1.0 27
DSR-2800/RRSTS	50.6 *	9-04	120	1.0 26
DSR-2700/RRSTS	47.9 *	9-03	119	1.0 23
DSR-2600/RR	46.4 *	9-02	118	1.0 20
Grand mean	52.0	9-06	122	1.0 24
BLSD (k=100)	11.8	5	5	ns 3
C.V. (%)	10.7	5	2	9
Locations 2, 3 and 4				
Adler 292RRN	62.3	9-11	124	1.0 28
Grand mean	62.3	9-11	124	1.0 28
Locations 2 and 4				
Adler 296RRN	67.5 *	9-17	126	1.0 29
Rupp RS 4295RR	63.3 *	9-15	124	1.0 30
Adler 292RRN	59.3 *	9-14	123	1.0 26
Grand mean	63.4	9-15	124	1.0 28
BLSD (k=100)	ns	ns	ns	ns 2
C.V. (%)	6.5	3	1	6

Table 20 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group II, performance trials combined across Indiana Locations 1 through 4.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height	
				bu./A.	in.
Locations 3 and 4					
V275RR	Vigoro 74.7 *	9-15	128	1.0	35
Adler 292RRN	73.3 *	9-12	125	1.0	34
V29N6RR	Vigoro 69.6 *	9-13	126	1.0	35
M-627RR	Martin 68.8 *	9-13	126	1.0	28
Grand mean	71.6	9-13	126	1.0	33
BLSD (k=100)	ns	ns	ns	ns	5
C.V. (%)	9.6	5	2		6

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(1) Proprietary names are company or brand names, generally associated in the trade with variety, brand, or blend names.

(2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.

(3) 1 (erect) to 5 (flat).

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Table 21. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across two locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height	
				bu./A.	in.
Locations 1 and 2					
Adler 338RRN	62.6 *	9-15	130	1.0	28
Beck 333RR	62.3 *	9-15	130	1.0	26
3212RR/N	Garst 61.4 *	9-18	133	1.0	27
DSR-3101/RRSTS	58.6 *	9-13	128	1.0	28
TL 304RR	56.4 *	9-15	130	1.0	27
3448RR/N	Garst 56.0 *	9-14	129	1.0	24
Dyna-Gro 31T31	53.5 *	9-15	130	1.0	25
Dyna-Gro 37K32	51.7 *	9-11	126	1.0	26
AG 3203	Asgrow 51.2 *	9-14	129	1.0	23
Rupp RS 4314RR	48.5 *	9-10	125	1.0	26
DSR-3000/RRSTS	48.0 *	9-08	123	1.0	21
Grand mean	55.5	9-13	128	1.0	26
BLSD (k=100)	ns	4	4	ns	5
C.V. (%)	9.3	3	1		6
Locations 1 and 3					
Wyckoff W3262CRR	70.4 *	9-14	132	1.0	37
3448RR/N	Garst 69.3 *	9-12	130	1.0	32
AG 3203	Asgrow 68.6 *	9-12	130	1.0	32
Adler 338RRN	67.9 *	9-14	132	1.0	35
Hoosier HP 3155CRR	65.9 *	9-11	129	1.0	33
Beck 333RR	65.8 *	9-14	132	1.0	32
Dyna-Gro 37K32	65.4 *	9-10	128	1.0	34
Wyckoff W3463CRR	65.3 *	9-14	133	1.0	32
Rupp RS 4314RR	63.2 *	9-09	127	1.0	34
DSR-3101/RRSTS	63.2 *	9-11	130	1.0	35
Grand mean	66.5	9-12	130	1.0	34
BLSD (k=100)	ns	2	2	ns	4
C.V. (%)	6.0	2	1		7

Table 21 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across two locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 1 and 4				
3448RR/N Garst	78.4 *	9-18	130	1.0 33
Hoosier HP 3155CRR	76.3 *	9-16	128	1.1 32
Adler 338RRN	74.9 *	9-20	132	1.0 33
Hoosier HP 3502CRR	74.3 *	9-19	131	1.0 38
Rupp RS 4314RR	72.6 *	9-13	125	1.0 34
AG 3203 Asgrow	72.5 *	9-18	130	1.0 32
Beck 333RR	70.4 *	9-18	130	1.0 33
Dyna-Gro 37K32	66.5 *	9-14	126	1.0 33
Hoosier HP 3934CRR	64.3 *	9-24	136	1.0 38
Grand mean	72.2	9-18	130	1.0 34
BLSD (k=100)	ns	2	2	ns 2
C.V. (%)	9.8	5	2	11.7 5
Locations 1 and 5				
Hoosier HP 3502CRR	72.8 *	9-16	132	1.3 38
Hoosier HP 3934CRR	68.2 *	9-24	140	1.4 37
Grand mean	70.5	9-20	136	1.3 38
BLSD (k=100)	ns	6	6	ns ns
C.V. (%)	4.5	6	2	18.5 6
Locations 1 and 6				
Hoosier HP 3502CRR	74.0 *	9-15	132	1.0 35
Hoosier HP 3934CRR	73.3 *	9-21	139	1.0 36
Grand mean	73.7	9-18	136	1.0 36
BLSD (k=100)	ns	2	2	ns ns
C.V. (%)	6.0	3	1	9

Table 21 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across two locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 2 and 3				
3624RR/N Garst	59.3 *	9-13	128	1.0 29
Adler 338RRN	59.1 *	9-12	127	1.0 31
AG 3602 Asgrow	54.8 *	9-12	128	1.0 27
DKB 31-51 DeKalb	54.4 *	9-11	127	1.0 26
Rupp RS 4345RR	53.1 *	9-11	127	1.0 26
AG 3305 Asgrow	52.0 *	9-12	127	1.0 24
Beck 333RR	51.4 *	9-11	127	1.0 25
DSR-3101/RRSTS	50.6 *	9-12	127	1.0 28
3448RR/N Garst	49.4 *	9-10	126	1.0 24
Dyna-Gro 37K32	47.7 *	9-09	124	1.0 27
AG 3203 Asgrow	47.1 *	9-11	126	1.0 25
Rupp RS 4314RR	39.4	9-08	123	1.0 27
Grand mean	51.5	9-11	126	1.0 27
BLSD (k=100)	18.5	2	2	ns 3
C.V. (%)	10.8	3	1	10
Locations 2 and 4				
AG 3602 Asgrow	66.9 *	9-19	128	1.1 29
Adler 338RRN	66.0 *	9-18	127	1.0 29
Rupp RS 4345RR	65.9 *	9-17	126	1.0 26
3624RR/N Garst	60.6 *	9-19	128	1.3 29
AG 3305 Asgrow	58.7 *	9-19	128	1.0 26
3448RR/N Garst	58.5 *	9-17	126	1.0 26
DKB 31-51 DeKalb	57.7 *	9-19	128	1.0 27
Beck 333RR	56.1 *	9-16	125	1.0 26
AG 3203 Asgrow	51.0 *	9-17	126	1.0 24
Rupp RS 4314RR	48.9 *	9-12	121	1.0 27
Dyna-Gro 37K32	48.9 *	9-14	123	1.0 27
Grand mean	58.1	9-17	126	1.0 27
BLSD (k=100)	22.7	3	3	ns 5
C.V. (%)	11.8	6	2	15.3 8
Locations 2 and 5				
3624RR/N Garst	64.9 *	9-17	130	1.8 29
AG 3602 Asgrow	61.9 *	9-17	130	1.4 28
Grand mean	63.4	9-17	130	1.6 29
BLSD (k=100)	ns	ns	ns	ns ns
C.V. (%)	9.3	6	2	15.6 12

Table 21 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across two locations, at Indiana Locations 1 through 6.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height	
		bu./A.			in.	
Locations 2 and 6						
3624RR/N	Garst	62.2	9-12	126	1.4	27
Grand mean		62.2	9-12	126	1.4	27
Locations 3 and 4						
AG 3006	Asgrow	78.7 *	9-11	123	1.1	35
V345RR	Vigoro	76.4 *	9-17	130	1.0	34
Hoosier HP 3155CRR		75.6 *	9-14	126	1.1	33
AG 3602	Asgrow	74.9 *	9-17	129	1.1	35
DSR-3801/RR		73.9 *	9-19	131	1.1	36
V35N6RR	Vigoro	73.7 *	9-17	130	1.1	38
M-631NRR	Martin	73.4 *	9-13	125	1.1	35
DSR-3600/RR		73.0 *	9-20	133	1.3	37
M-538NRR	Martin	72.9 *	9-20	132	1.0	33
V31N6RR	Vigoro	72.8 *	9-14	126	1.0	35
DSR-3601/RRSTS		72.3 *	9-17	130	1.4	38
DSR-3502/RR		72.1 *	9-15	127	1.3	36
Rupp RS 4345RR		71.9 *	9-15	127	1.0	33
Beck 349NRR		71.9 *	9-16	129	1.0	32
3448RR/N	Garst	71.8 *	9-14	127	1.0	33
Adler 338RRN		71.4 *	9-17	130	1.0	36
DSR-385/RR		70.5 *	9-25	137	1.0	34
V33N6RR	Vigoro	70.1 *	9-19	131	1.0	36
V315RR	Vigoro	69.8 *	9-11	124	1.1	34
Dyna-Gro 35D33		69.5 *	9-16	128	1.3	36
Rupp RS 4372NRR		69.5 *	9-17	130	1.3	33
DSR-3500/RR		69.0 *	9-19	131	1.1	38
Dyna-Gro 32C38		68.8 *	9-20	132	1.0	31
3712RR/N	Garst	68.6 *	9-16	129	1.1	37
AG 3203	Asgrow	68.5 *	9-15	127	1.0	33
AG 3305	Asgrow	68.2 *	9-17	130	1.0	32
DKB 36-52	DeKalb	68.0 *	9-19	131	1.1	38
3624RR/N	Garst	67.8 *	9-18	130	1.3	35
DSR-3501/RR		67.6 *	9-18	131	1.3	39
DKB 31-51	DeKalb	67.4 *	9-16	128	1.0	34
M-435NRR	Martin	67.4 *	9-20	133	1.5	38
Dyna-Gro 33A37		67.2 *	9-18	131	1.0	34
AG 3101	Asgrow	66.8 *	9-14	127	1.0	34
AG 3505	Asgrow	66.8 *	9-16	128	1.0	35
V36N5RR	Vigoro	66.8 *	9-21	133	1.3	38
Beck 321NRR		66.4 *	9-15	127	1.0	33
Adler 358RRN		66.2 *	9-19	132	1.0	33
V386RR	Vigoro	64.2 *	9-20	132	1.0	34

Table 21 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across two locations, at Indiana Locations 1 through 6.

Entry name(1)		Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height	
		bu./A.			in.	
Locations 3 and 4, continued						
V354RR	Vigoro	63.9 *	9-17	129	1.0	36
Beck 323RR		63.8 *	9-14	127	1.1	34
V38N5RS	Vigoro	63.7 *	9-20	133	1.0	34
Rupp RS 4314RR		63.5 *	9-11	123	1.0	35
Dyna-Gro 37K32		62.5 *	9-12	125	1.0	35
M-533RR	Martin	60.0 *	9-15	127	1.0	32
Beck 333RR		59.5 *	9-15	127	1.0	32
Grand mean		69.1	9-17	129	1.1	35
BLSD (k=100)		ns	4	4	ns	3
C.V. (%)		10.9	5	2	22.2	7
Locations 3 and 5						
Dyna-Gro 32C38		72.3 *	9-17	134	1.5	31
3624RR/N	Garst	72.1 *	9-15	132	1.8	35
V36N5RR	Vigoro	72.1 *	9-18	134	1.5	38
V38N5RS	Vigoro	71.5 *	9-18	134	1.3	33
AG 3602	Asgrow	69.9 *	9-15	131	1.4	35
DKB 36-52	DeKalb	69.7 *	9-15	132	1.1	37
TL 350RR		69.7 *	9-16	132	1.8	35
TL 334RR		67.1 *	9-13	130	1.5	36
TL 364RR		65.8 *	9-15	132	1.8	38
AG 3905	Asgrow	64.3 *	9-21	138	1.3	39
TL 353RR		63.5 *	9-14	130	1.9	35
Grand mean		68.9	9-16	133	1.5	36
BLSD (k=100)		9.1	5	5	ns	3
C.V. (%)		8.0	4	1	21.6	6
Locations 3 and 6						
V36N5RR	Vigoro	74.9 *	9-14	132	1.0	36
AG 3905	Asgrow	74.2 *	9-20	138	1.0	38
Dyna-Gro 32C38		72.7 *	9-14	132	1.0	30
V38N5RS	Vigoro	72.2 *	9-15	133	1.0	30
3624RR/N	Garst	69.3 *	9-11	129	1.4	33
Grand mean		72.7	9-15	133	1.1	33
BLSD (k=100)		ns	7	7	ns	5
C.V. (%)		10.5	4	1	14.6	6

Table 21 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across two locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 4 and 5				
AG 3602 Asgrow	82.0 *	9-22	132	1.5 37
Hoosier HP 3844CRS	81.2 *	9-27	137	1.3 34
BioGene BG 3806RN	77.7 *	9-27	137	1.3 36
V36N5RR Vigoro	77.4 *	9-24	134	1.8 39
Dyna-Gro 32C38	77.4 *	9-26	136	1.5 33
BioGene BG 3606RN	76.7 *	9-26	136	1.4 37
DKB 36-52 DeKalb	76.2 *	9-22	132	1.3 36
Hoosier HP 3502CRR	75.1 *	9-18	128	1.3 40
AG 3802 Asgrow	74.0 *	9-26	136	1.4 40
3624RR/N Garst	73.5 *	9-22	132	2.0 35
Hoosier HP 3832CRR	72.3 *	9-27	137	1.4 34
Hoosier HP 3934CRR	71.8 *	9-26	136	1.4 38
Adler 374RRN	71.0 *	9-23	133	2.0 35
V38N5RS Vigoro	69.7 *	9-27	137	1.3 34
BioGene BG 3620NRR	69.1 *	9-27	137	1.3 31
Hoosier HP 3715RR	67.4 *	9-26	136	2.0 39
Grand mean	74.5	9-25	135	1.5 36
B LSD (k=100)	16.7	3	3	0.4 3
C.V. (%)	12.5	4	2	25.4 7
Locations 4 and 6				
V36N5RR Vigoro	80.1 *	9-21	133	1.3 37
Dyna-Gro 32C38	77.8 *	9-23	135	1.0 31
Hoosier HP 3934CRR	77.0 *	9-24	135	1.0 37
Hoosier HP 3502CRR	76.3 *	9-17	129	1.0 36
AG 3802 Asgrow	75.5 *	9-22	134	1.0 36
BioGene BG 3606RN	74.9 *	9-23	135	1.0 35
BioGene BG 3620NRR	74.9 *	9-26	137	1.0 32
Adler 374RRN	72.7 *	9-19	131	1.4 32
BioGene BG 3806RN	72.4 *	9-25	137	1.0 34
3624RR/N Garst	70.7 *	9-17	128	1.6 33
V38N5RS Vigoro	70.3 *	9-24	135	1.0 30
Grand mean	74.8	9-22	134	1.1 34
B LSD (k=100)	ns	5	5	0.3 4
C.V. (%)	13.3	4	2	22.7 8

Table 21 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across two locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 5 and 6				
CPS 6383NRR	86.4 *	9-21	136	1.6 33
Steyer 3830RR SCN	86.1 *	9-21	137	1.5 37
AG 3906 Asgrow	85.8 *	9-23	138	1.6 36
V36N5RR Vigoro	85.5 *	9-18	134	1.5 37
AG 3802 Asgrow	82.1 *	9-20	136	1.4 38
Dyna-Gro 32C38	81.3 *	9-21	136	1.5 32
Hoosier HP 3934CRR	80.9 *	9-23	139	1.4 36
AG 3905 Asgrow	80.5 *	9-23	138	1.3 37
BioGene BG 3806RN	80.1 *	9-23	138	1.3 34
BioGene BG 3606RN	79.8 *	9-20	136	1.4 33
Adler 384RRN	78.4 *	9-20	135	1.6 38
TL 382RR	78.3 *	9-16	131	1.9 32
V38N5RS Vigoro	78.2 *	9-21	137	1.3 30
BioGene BG 3620NRR	77.2 *	9-24	139	1.3 31
Adler 382RRN	76.9 *	9-20	136	1.9 34
SC Stephen NRR	76.4 *	9-23	138	1.6 33
V39N4RR Vigoro	75.8 *	9-19	135	1.6 32
3624RR/N Garst	75.0 *	9-15	130	2.1 33
Hoosier HP 3502CRR	74.8 *	9-14	130	1.3 36
Adler 374RRN	72.5 *	9-14	130	1.9 31
Grand mean	79.6	9-20	135	1.5 34
B LSD (k=100)	ns	4	4	0.8 5
C.V. (%)	8.3	4	2	23.2 7

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 (2) Yields followed by an asterisk (*) are not, statistically, significantly different from the highest yield in the sub-table.
 (3) 1 (erect) to 5 (flat).
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Table 22. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across three locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 1, 2 and 3				
Adler 338RRN	63.2 *	9-14	130	31
Beck 333RR	59.8 *	9-13	130	28
3448RR/N Garst	58.2 *	9-12	128	27
DSR-3101/RRSTS	57.5 *	9-12	128	30
AG 3203 Asgrow	55.6 *	9-12	128	27
Dyna-Gro 37K32	55.0 *	9-10	126	29
Rupp RS 4314RR	50.4 *	9-09	125	29
Grand mean	57.1	9-12	128	29
BLSD (k=100)	ns	2	2	3
C.V. (%)	8.7	3	1	7
Locations 1, 3 and 4				
3448RR/N Garst	73.2 *	9-15	129	33
Hoosier HP 3155CRR	72.6 *	9-13	128	33
Adler 338RRN	71.4 *	9-17	132	35
AG 3203 Asgrow	69.9 *	9-15	129	32
Rupp RS 4314RR	66.4 *	9-11	125	34
Beck 333RR	65.2 *	9-16	130	32
Dyna-Gro 37K32	64.8 *	9-12	126	34
Grand mean	69.1	9-14	128	33
BLSD (k=100)	ns	2	2	ns
C.V. (%)	8.3	5	2	10.8
Locations 1, 5 and 6				
Hoosier HP 3934CRR	74.1 *	9-23	139	36
Hoosier HP 3502CRR	73.9 *	9-15	131	36
Grand mean	74.0	9-19	135	36
BLSD (k=100)	ns	4	4	ns
C.V. (%)	5.5	5	2	16.3
Locations 2, 3 and 4				
AG 3602 Asgrow	65.5 *	9-16	128	30
Adler 338RRN	65.5 *	9-16	128	32
Rupp RS 4345RR	63.6 *	9-14	127	28
3624RR/N Garst	62.6 *	9-16	129	31
3448RR/N Garst	59.9 *	9-14	126	27
DKB 31-51 DeKalb	59.8 *	9-15	128	29
AG 3305 Asgrow	59.6 *	9-16	128	28
Beck 333RR	55.7 *	9-14	126	28
AG 3203 Asgrow	55.5 *	9-14	126	27

Table 22 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across three locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 2, 3 and 4, continued				
Dyna-Gro 37K32	53.0 *	9-12	124	30
Rupp RS 4314RR	50.6 *	9-10	122	29
Grand mean	59.2	9-14	127	29
BLSD (k=100)	15.1	2	2	3
C.V. (%)	10.4	5	2	8
Locations 2, 5 and 6				
3624RR/N Garst	67.4	9-14	129	29
Grand mean	67.4	9-14	129	29
Locations 3, 4 and 5				
AG 3602 Asgrow	75.6 *	9-18	131	36
Dyna-Gro 32C38	72.8 *	9-21	134	32
V36N5RR Vigoro	72.1 *	9-21	134	38
DKB 36-52 DeKalb	71.3 *	9-19	132	37
3624RR/N Garst	71.1 *	9-18	131	35
V38N5RS Vigoro	68.3 *	9-22	135	34
Grand mean	71.9	9-20	133	35
BLSD (k=100)	ns	3	3	2
C.V. (%)	9.1	4	2	6
Locations 3, 5 and 6				
V36N5RR Vigoro	77.5 *	9-17	133	37
Dyna-Gro 32C38	75.4 *	9-17	134	31
V38N5RS Vigoro	74.0 *	9-18	135	31
AG 3905 Asgrow	73.0 *	9-21	138	38
3624RR/N Garst	72.2 *	9-14	130	33
Grand mean	74.4	9-17	134	34
BLSD (k=100)	ns	4	4	3
C.V. (%)	10.0	4	1	6
Locations 4, 5 and 6				
V36N5RR Vigoro	81.0 *	9-21	134	38
Dyna-Gro 32C38	78.9 *	9-23	136	32
AG 3802 Asgrow	77.2 *	9-23	135	38
BioGene BG 3606RN	77.1 *	9-23	136	35
BioGene BG 3806RN	76.8 *	9-25	137	34
Hoosier HP 3934CRR	76.6 *	9-24	137	37
Hoosier HP 3502CRR	75.4 *	9-17	129	37

Table 22 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across three locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 4, 5 and 6, continued				
BioGene BG 3620NRR	73.8 *	9-25	138	1.2 31
3624RR/N Garst	73.1 *	9-18	130	1.9 34
V38N5RS Vigoro	72.7 *	9-24	136	1.2 32
Adler 374RRN	72.1 *	9-19	131	1.8 33
Grand mean	75.9	9-22	134	1.4 35
B LSD (k=100)	ns	3	3	0.3 3
C.V. (%)	11.4	4	2	24.0 7

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(3) 1 (erect) to 5 (flat).

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Table 23. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across four locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 1, 2, 3 and 4				
Adler 338RRN	67.0 *	9-16	130	1.0 32
3448RR/N Garst	63.9 *	9-14	128	1.0 29
Beck 333RR	60.9 *	9-15	129	1.0 29
AG 3203 Asgrow	59.8 *	9-14	128	1.0 28
Dyna-Gro 37K32	57.1 *	9-12	125	1.0 30
Rupp RS 4314RR	56.0 *	9-10	124	1.0 30
Grand mean	60.8	9-14	127	1.0 30
B LSD (k=100)	ns	2	2	ns 3
C.V. (%)	8.9	5	2	7

Table 23 contd. Results of the 2005 Roundup Ready® soybean, Maturity Group III, performance trials combined across four locations, at Indiana Locations 1 through 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 1, 4, 5 and 6				
Hoosier HP 3502CRR	74.5 *	9-16	130	1.1 37
Hoosier HP 3934CRR	72.6 *	9-24	137	1.2 37
Grand mean	73.6	9-20	134	1.2 37
B LSD (k=100)	ns	3	3	ns ns
C.V. (%)	7.8	4	2	15.4 8

Locations 2, 3, 4 and 5				
AG 3602 Asgrow	68.4 *	9-17	130	1.3 32
3624RR/N Garst	66.4 *	9-17	130	1.5 32
Grand mean	67.4	9-17	130	1.4 32
B LSD (k=100)	ns	ns	ns	ns ns
C.V. (%)	8.8	6	2	17.9 8

Locations 2, 3, 5 and 6				
3624RR/N Garst	67.1	9-14	129	1.6 31
Grand mean	67.1	9-14	129	1.6 31

Locations 3, 4, 5 and 6				
V36N5RR Vigoro	76.1 *	9-19	133	1.4 37
Dyna-Gro 32C38	75.0 *	9-20	134	1.3 31
3624RR/N Garst	71.4 *	9-16	130	1.7 34
V38N5RS Vigoro	70.9 *	9-21	135	1.1 32
Grand mean	73.3	9-19	133	1.4 34
B LSD (k=100)	ns	3	3	0.4 2
C.V. (%)	8.8	4	1	21.2 6

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(3) 1 (erect) to 5 (flat).

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Table 24. Results of the 2005 Roundup Ready® soybean, Maturity Group IV, performance trials combined across Indiana Locations 5 and 6.

Entry name(1)	Yield est.(2)	Maturity date-days	Lodging score(3)	Plant height
	bu./A.			in.
Locations 5 and 6				
Beck 444NRR	97.0 *	9-28	144	1.5 43
SC Moab NRR	95.9 *	9-27	143	1.5 42
V44N6RR Vigoro	95.7 *	9-28	143	1.5 41
4212RR/STS/N Garst	94.3 *	9-26	141	1.0 34
V42N3RR Vigoro	91.4 *	9-25	141	1.0 35
AG 4404 Asgrow	91.2 *	9-28	143	1.0 37
DKB 42-51 DeKalb	90.7 *	9-27	143	1.0 37
Steyer 4420RR SCN	89.7 *	9-27	142	1.6 42
Dyna-Gro 39G43	89.1 *	9-27	143	1.0 36
4112RR/N Garst	88.2 *	9-23	139	1.0 33
Hoosier HP 4453CRS	88.0 *	9-27	142	1.0 34
Dyna-Gro 35B40	87.1 *	9-24	139	1.1 36
SC Levi NRR	86.3	9-28	143	1.0 36
Dyna-Gro DG3437NRR	85.9	9-26	141	1.0 33
DKB 44-51 DeKalb	85.8	9-28	144	1.0 39
SC Michael NRR/STS	85.2	9-26	142	1.0 34
CPS 6444NRR	83.7	9-27	142	1.0 34
CPS 6402NRR	83.1	9-25	141	1.5 29
Steyer 4000RR SCN	81.6	9-24	140	1.0 33
Hoosier HP 4413CRR	78.7	9-27	142	1.0 33
SC Abraham NRR	75.9	9-25	140	1.0 32
Grand mean	87.8	9-26	142	1.1 36
BLSD (k=100)	10.5	1	1	0.9 4
C.V. (%)	5.8	2	1	13.6 6

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(3) 1 (erect) to 5 (flat).

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