PR-469
UK AGRICULTURAL EXPERIMENT STATION
UNIVERSITY OF KENTUCKY — COLLEGE OF AGRICULTURE

2002 Kentucky Soybean Performance Tests

Eugene Lacefield and Todd Pfeiffer

Tables

Web Site Features

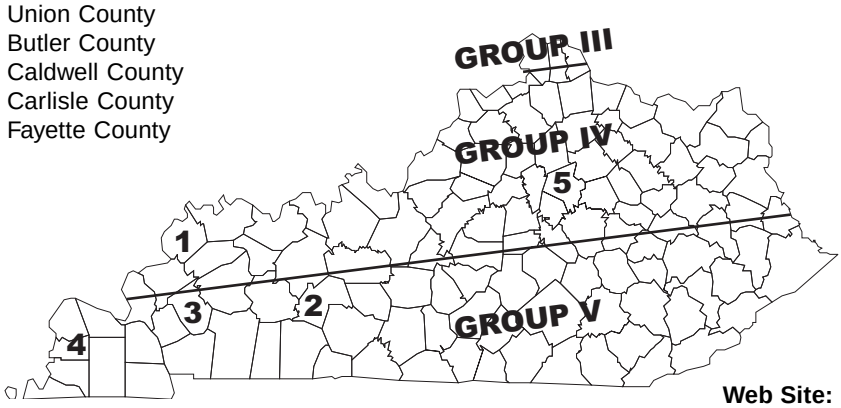
- Selection key to create subsets of Summary Table 4. Description on page 4.
- Nomination form, cover letter, and instructions for 2003 tests entries.

The Kentucky Soybean Performance Tests are conducted to provide an unbiased, objective estimate of the relative performance of soybean varieties in Kentucky. This information may be used by growers and seed producers to aid in selecting varieties that will give the highest total production in a specific situation.

Five soybean tests were planted in 2002 in Kentucky. The test locations are shown below. Soil types, planting dates, and other information are shown in Table 1.

Location of the 2002 Kentucky Soybean Tests

1. Union County
2. Butler County
3. Caldwell County
4. Carlisle County
5. Fayette County



Methods

All tests were planted in a randomized complete block design by maturity group. The tests (Tables 5-8) had two replications (plots) of each variety. The individual plots were 20 feet long and 6 rows wide with 15 inches between rows (seeding rate: five to six viable seeds per foot of row). All plots were treated with herbicides and maintained as weed free as possible.

Harvesting was done with a small plot combine according to maturity; thus, several harvests were made at each location. Sixteen feet of the center rows were harvested from the plots. No allowances were made for soybeans that may have been lost because of combining or shattering.

Yield—Yield is reported in bushels per acre adjusted to 13% moisture.

Lodging—Lodging is rated on a scale of 1 to 5, where 1 = almost all plants erect; 2 = all plants over slightly or a few down; 3 = all plants over moderately or 25% down; 4 = all plants over considerably or 50 to 80% down; 5 = all plants over badly.

Maturity date —A variety is considered mature when 95% of the pods have turned their normal mature color. One to two weeks of good drying weather will be needed beyond the date given before the beans will be ready to combine. Maturity dates were recorded at the Fayette County location, which was not included in this report due to drought.

Plant height—Plant height was measured in inches from the soil surface to the tip of the main stem. Plant height was recorded at the Caldwell County location.

Web Site:
http://www.uky.edu/Ag/GrainCrops/varietytesting.htm

TABLE 1. LOCATION, PLANTING, AND CLIMATIC DATA FOR THE 2002 SOYBEAN PERFORMANCE TESTS

Test	Farmer	Extension Agent	Soil Type	Date of Planting	Soil Test	Fertilizer Applied[1]	50% Chance of Killing Frost[2]
Caldwell County *Full Season*	Princeton Experiment Station		Crider Silt Loam	5/24	P 121 K 711 pH 5.2	None	10/19
Carlisle County *Full Season*	Jeff and Roger Davis	Jason Hodge	Lauren Silt Loam	5/31	P 66 K 200 pH 6.7	150 lb 0-0-60	10/19
Fayette County *Full Season* [3]	Lexington Experiment Station		Maury Silt Loam	5/16	P 199 K 218 pH 6.4	None	10/26
Butler County *Full Season*	Patrick Daugherty	Greg Drake	Newark Silt Loam	6/4	P 103 K 217 pH 6.8	None	10/23
Union County *Full Season*	Randy Hegan	Rankin Powell	Uniontown Silt Loam	5/23	P 78 K 223 pH 6.1	200 lb 0-0-60	10/25

1 Amount per acre.

2 Based on 30-year average.

3 Data not published due to Central Kentucky drought.

Summary Table 4 is the recommended table.

Interpretation

An important step in profitable soybean production is selecting good quality seed of the best varieties for your management system. The Kentucky Soybean Performance Tests are conducted to provide information useful in making this selection.

Performance of soybean varieties is affected by many factors, including year, location, soil type, and time of planting. A particular soybean variety is adapted for full season growth in a band approximately 100 miles wide from north to south (see map, page 1). Thus, the best variety in northern Kentucky may not be the best in southern areas. For this reason, the Kentucky Soybean Performance Tests are conducted at several locations in the major soybean-producing areas of the state. The yields as reported in this publication should be used for relative comparisons; actual yields on a grower's farm may be different.

Performance of the soybean varieties will vary from year to year and location to location, depending on adaptability, weather conditions, and management. The performance data presented in the Table 4 summary have been averaged across years and locations. **Performance of a variety across a period of years and at several locations in the state is the best indicator of its production potential.** (See *Agronomy Notes*, Volume 21, No. 3, "Using Performance Test Results in Soybean Variety Selection in Kentucky.")

Small differences in yield are usually of little importance. The yield of two varieties at a single location can differ because of chance factors (difference in soil characteristics, fertility, or availability of moisture), although the inherent yielding ability is the same. To decide if an observed yield difference is real, use the least significant difference (LSD) values cited at the bottom of each maturity group. The significance level used in the tables is 0.10. If the difference in yield between two varieties is greater than the LSD value, you can be reasonably certain that the varieties actually do differ in yielding ability. Shaded yields in the tables represent top yielding varieties that are not significantly different from the top yielding variety (bold data) of the maturity group and year in which the bold data is located.

Yield is only one factor to consider in selecting a variety for your production system. Maturity, lodging resistance, disease resistance, and time and equipment availability are other factors that need to be considered. The economic management and control of weeds are additional factors to consider with the advent of Roundup Ready soybeans.

The data provided have been divided into maturity groups. Due to weather patterns at a location, maturity alone can affect yield; this impact will be reflected by large differences in the maturity group averages. Selecting varieties from several maturity groups can reduce the impact of these maturity group fluctuations. (See *Agronomy Notes*, Volume 25, No. 3, "Growing Soybean Varieties from Multiple Maturity Groups Can Reduce Yearly Yield Volatility.")

The date of a 50% chance of a fall killing frost is important in determining which variety you select to plant. The dates presented in Table 1 are average dates over a long term. Actual dates will vary from year to year. For the date of a one-year-out-of-ten chance of a fall killing frost, subtract 13 to 18 days from the dates in Table 1. For maximum yield, a variety must mature before the first killing frost in the fall. The relative maturity for each variety is found in Table 3.

If you have soybean cyst nematode problems (SCN), a resistant variety (indicated by a "*" or "**" suffix) should be used in your production system with a recommended crop rotation program. (See Kentucky Cooperative Extension Service publication *Soybean Cyst Nematode* (PPA-3), available at your

county Extension office.) The level of SCN infestation as well as the SCN race can be determined through the SCN laboratory at Princeton. **Test your fields.** Contact your county Extension office for more information on collecting and submitting samples. The importance of resistant varieties has increased as the number of acres affected by SCN has increased. SCN occurs in 32 western Kentucky counties, representing 90% of the state's soybean acreage. Low levels of SCN show few visible symptoms but can cause yield losses of up to 25%.

Soybean mosaic virus (SMV) may cause yield loss if soybean plants are infected prior to flowering. Due to the timing of insect populations that transmit the disease, double-cropped soybeans are more likely to be affected in Kentucky. Planting SMV-resistant varieties will avoid this possible yield loss. However, only a few varieties have been evaluated for SMV resistance. Check Table 3, "Company Disease-Resistance Specifications" for SMV resistance ratings.

Table 4, consisting of a summary of the five full season tests, is recommended for selecting varieties for maximum yield in double crop systems. Better yielding full season varieties are also the better yielding double crop varieties (Todd Pfeiffer 1987. Applied Agricultural Research Vol. 2, No. 3, pp.141-145). The full season environment that maximizes gain is a better indicator of performance than late planted soybeans that have reduced yields. The data from five full season tests, analyzed across years and locations, predict performance of a variety more accurately than a single test, full season or double crop.

Twenty-two novel soybean varieties (indicated by a "NS" prefix) are being tested. These are just a few of the many that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of a much broader market value. Novel soybeans generally yield less, so testing them will enable soybean producers to determine whether premiums for a given trait offset possible yield lag/drag. Examples are triple null soybeans, designed for edible soy products (this variety lacks three enzymes that produce off-flavors); natto soybeans, a small-seeded soybean used for food and export; and tofu, a big-seed/high-protein soybean also used for food and export. Other big-seed/high-protein types are used for animal food, which potentially has a large U.S. market. Oil and protein data are provided in Table 9.

Growing Conditions and Special Circumstances

The 2002 growing season was a year of extremes in Kentucky. The seventh wettest spring was followed by the eleventh hottest and sixteenth driest summer followed by the wettest September/October in the past century. This represented the largest magnitude of rainfall variation by season within a single year. Except for May, all months of the growing season had above average temperatures ranging from +1° F to +4°F statewide. The hot, dry summer reduced soybean yields in Kentucky. The predicted statewide yield average of 31 bu/a is only 75% of that recorded in 2001 (41 bu/a). The Fayette County test location was not included in this report. Only 2 inches of rainfall were recorded there between June 15 and September 1, resulting in soybean yields of less than 10 bu/a.

Soybean Production Information

The Kentucky Cooperative Extension Service has a series of publications, *Soybean Production in Kentucky,* which contain a more detailed discussion of soybean production practices: Part 1: *Status, Uses, and Planning* (AGR-128); Part II: *Seed Selection, Variety Selection, and Fertilization* (AGR-129); Part III: *Planting Practices and Double Cropping* (AGR-130); Part IV: *Weed, Disease, and Insect Control* (AGR-131); and Part V: *A Soybean Planting Rate Guide.* The planting guide is reproduced below from this series for your convenience (Table 2).

Kentucky State Seed Law

The Kentucky State Seed Law requires all seed exposed, offered for sale, or sold in Kentucky to be labeled as to kind and variety for each agricultural seed component present in excess of 5% of the whole and the percentage by weight of each component. All soybean seed blends should be labeled as to the percentage of each variety that makes up the mixture. The term "variety unknown" may no longer be used in place of a variety designation for soybeans, as all soybean seed must be labeled by variety name.

Acknowledgments

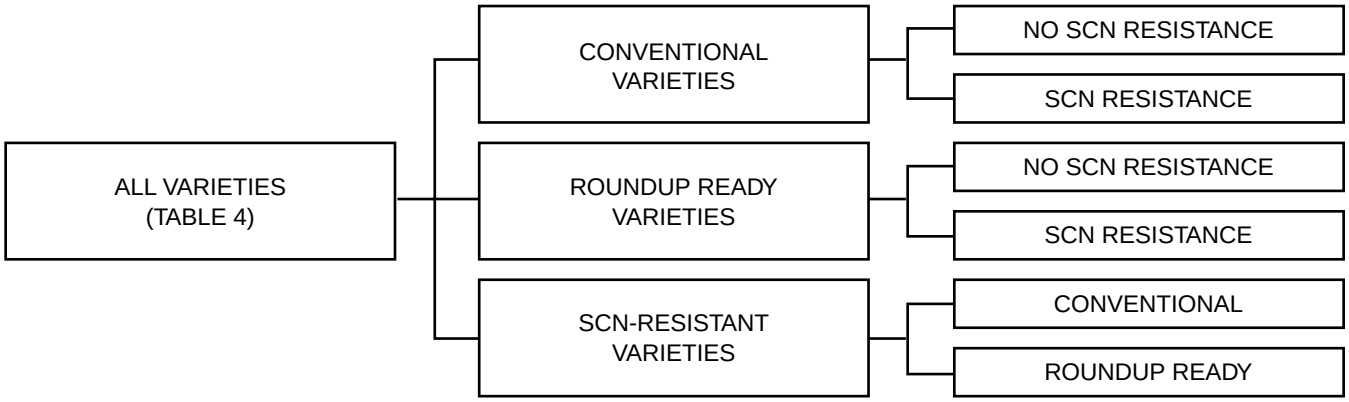
In addition to the county agents and farm cooperators mentioned in Table 1, Thomas R. Stefaniak, Colleen Steele, David Pilcher, Wei Chen, Susan Leopold, Chad Grote, and John Cole have contributed greatly to the production of this publication. Don Hershman, Extension Plant Pathologist at the University of Kentucky Research and Education Center in Princeton, also provided excellent information. The New Crop Opportunity Grain Group is supporting the testing of novel soybean varieties.

TABLE 2. SOYBEAN PLANTING GUIDE

Row Spacing (Inches)	7	15	20	30	36
Seeding Rate (Seeds Per Ft of Row)	2-3	5-6	6-8	8-10	9-11
Viable Seeds Per Pound	Pounds of Seed per Acre				
2,000	80-110	85-105	78-104	70-87	65-80
2,200	73-100	77-95	71-95	64-79	59-72
2,400	66-93	71-88	65-87	58-73	54-66
2,600	61-86	65-81	60-80	54-67	50-61
2,800	57-80	61-75	56-75	50-62	46-56
3,000	53-75	57-70	52-70	46-58	43-53
3,200	50-70	53-66	49-65	44-54	41-49
3,400	47-66	50-62	46-61	41-51	38-46
3,600	44-62	47-58	44-58	39-48	36-44
3,800	42-59	45-55	41-55	37-46	34-42
4,000	40-56	43-53	39-52	35-44	33-40

Selection Key: http://www.uky.edu/Ag/GrainCrops/varietytesting.htm

This feature of the 2002 Kentucky Soybean Performance Test Web site allows subsets of Table 4, Summary: Variety Test Tables 5-8. Sorting of the data in Table 4 provides alternative views of the data to show those varieties that are selected by basic questions a soybean producer might ask. For example, a soybean producer interested in Roundup Ready SCN-resistant varieties would click the "Roundup Ready" box connected to the SCN variety box.



Sources of Seeds

The seed planted in the 2002 Soybean Performance Tests was acquired from the following sources:

Armor Seed Company
P.O. Box 178
Fisher, AR 72429
- ARMOR 39-E9
- ARMOR 42-L2
- ARMOR 44-R4
- ARMOR 47-G7
- ARMOR 52-C2
- ARMOR 53-K3
- ARMOR 54-Z4
- ARMOR 56-J6

Beck's Superior Hybrids
6767 East 276th Street
Atlanta, IN 46031
- BECK 437NRR
- BECK 476NRR

Bio Gene Seeds
5491 Tri-county Highway
Sardinia, OH 45171
- BIO GENE BG 4401NRR

Caverndale Farms, Inc.
1921 Bluegrass Road
Danville, KY 40422
- CAVERNDALE CF 461
- CAVERNDALE CF 492

Crow's Hybrid Corn Company
14575 University
Waukee, IA 50263
- CROW'S C4417R
- CROW'S C4815R
- CROW'S C5118R

Delta King Seed Company
P.O. Box 970
McCrory, AR 72101
- DELTA KING 3862 RR
- DELTA KING 3961 RR
- DELTA KING 3964 RR
- DELTA KING 3968 RR
- DELTA KING 4461 RR
- DELTA KING 4762 RR
- DELTA KING 4763 RR
- DELTA KING 4868 RR
- DELTA KING 4965 RR
- DELTA KING 5366 RR
- DELTA KING 5465 RR

Ebberts Field Seed Inc.
6840 North Street, Route 48
Covington, Ohio 45318
- EBBERTS 1362RR
- EBBERTS 1351RR

Garst Seed Company
7728 State Road
Hickory, KY 42051
- GARST SEED 4312RR/SB/N
- GARST SEED 4512RR/N

Gateway Seed Company
5517 Van Buren Road
Nashville, IL 62263
- GATEWAY 493
- GATEWAY 4R483
- GATEWAY 5R500

Golden Harvest
RR 3 Box 257
Clinton, IL 61727
- GOLDEN HARVEST H-3983RR
- GOLDEN HARVEST H-3945RR
- GOLDEN HARVEST H-4368RR
- GOLDEN HARVEST H-4534RR
- GOLDEN HARVEST H-4772RR
- GOLDEN HARVEST H-4850RR

Great Lakes Hybrids, Inc.
9915 West M-21
Ovid, MI 48866
- GREAT LAKES GL 3819 RR
- GREAT LAKES GL 4109 RR
- GREAT LAKES GL 4409 RR
- GREAT LAKES GL 4800 RR
- GREAT LAKES GL 5319 RR

Hornbeck Seed Co., Inc.
P.O. Box 472, 210 Drier Road
DeWitt, AR 72042-0472
- HORNBECK HBK 4944CX
- HORNBECK HBK R4820

Kentucky Foundation Seed Project
P.O. Box 11950
Lexington, KY 40497
- ANAND
- CAVINESS
- DELSOY 5500
- HOLLADAY
- HUTCHESON
- KS5502N
- STOUT
- STRONG
- STRESSLAND
- TROLL

Land O'Lakes, Inc./Cropland Genetics
4990 North County Road 583
Blytheville, AR 72315
- CROPLAN GENETICS RC3838
- CROPLAN GENETICS RC3939
- CROPLAN GENETICS RC4222
- CROPLAN GENETICS RC4432
- CROPLAN GENETICS RC4444
- CROPLAN GENETICS RC4772

LG Seeds
22827 Shissler Road
Elwood, IL 61529
- LG SEEDS C4112NRR
- LG SEEDS C4444NRR
- LG SEEDS C4725NRR

Miles Seed
P.O. Box 22879
Owensboro, KY 42304
- SOUTHERN CROSS-AARON 4.5N, STS
- SOUTHERN CROSS-JONATHAN 5.1N, RR
- SOUTHERN CROSS-JORDAN 3.6N, RR
- SOUTHERN CROSS-MICHAEL 4.2N, RR
- SOUTHERN CROSS-SILAS 4.4N, RR
- SOUTHERN CROSS-SOLOMON 3.8RR
- SOUTHERN CROSS-TITUS 4.8N, RR

Monsanto
3100 Sycamore Road
Dekalb, IL 60115
- ASGROW AG3703
- ASGROW AG3903
- ASGROW AG4201
- ASGROW AG4403
- ASGROW AG4603
- ASGROW AG4902
- ASGROW AG5301
- ASGROW AG5501
- DEKALB DKB38-51
- DEKALB DKB38-52
- DEKALB DKB40-51
- DEKALB DKB44-51
- DEKALB DKB46-51

Pioneer Hi-Bred Int'l., Inc.
6767 Old Madison Pike, Suite 110
Huntsville, AL 35806
- PIONEER VARIETY 93B67
- PIONEER VARIETY 93B68
- PIONEER VARIETY 93B72
- PIONEER VARIETY 93B87
- PIONEER VARIETY 94B13
- PIONEER VARIETY 94B23
- PIONEER VARIETY 94B73
- PIONEER VARIETY 94B74
- PIONEER VARIETY 95B32
- PIONEER VARIETY 95B42

Royster-Clark, Inc.
70 North Market Street
Mt. Sterling, OH 43143
- VIGORO V382NRR
- VIGORO V42N3RR
- VIGORO V46N3RR
- VIGORO V47N3RR
- VIGORO V49N3RR
- VIGORO V543NRR

Seed Consultants, Inc.
P.O. Box 370
Washington Courthouse, OH 43160
- SEED CONSULTANTS SC 9442 RR
- SEED CONSULTANTS SC 9391 RR

Southern States Cooperative
P.O. Box 26234
Richmond, VA 23260
- SOUTHERN STATES 439
- SOUTHERN STATES RT-5001N
- SOUTHERN STATES RT 4502
- SOUTHERN STATES RT 4810N
- SOUTHERN STATES RT 5302
- SOUTHERN STATES RT-3799N
- SOUTHERN STATES RT-3975
- SOUTHERN STATES RT-4098
- SOUTHERN STATES RT-446N
- SOUTHERN STATES RT-4980
- SOUTHERN STATES RT-540N
- SOUTHERN STATES RT 3802N
- SOUTHERN STATES RT 4702N
- SOUTHERN STATES RT-5602N

Steyer Seeds
5559 North 500 West
McCordsville, IN 46055-9998
- STEYER 4410 RR SCN
- STEYER 4700 RR STS SCN

Stine Seed Company
2225 Laredo Trail
Adel, IA 50003-8240
- STINE S3632-4
- STINE S4202-4
- STINE S4442-4
- STINE S4882-4

Syngenta Seeds
535 Pennyrile Drive
Madisonville, KY 42431
- NK BRAND S37-N4
- NK BRAND S39-Q4
- NK BRAND S40-R9
- NK BRAND S46-G2
- NK BRAND S52-U3

UAP Mid South
57 Germantown Court, Suite 200
Cordova, TN 38018
- DYNA-GRO 3468N RR
- DYNA-GRO 3484N RR
- DYNA-GRO 3443N RR

Unisouth Genetics, Inc.
2640-C Nolensville Road
Nashville, TN 37211
- UNISOUTH GENETICS USG 510nRR
- UNISOUTH GENETICS USG 540nRR
- UNISOUTH GENETICS USG 5601T
- UNISOUTH GENETICS USG 7440nRR
- UNISOUTH GENETICS USG 7459RR
- UNISOUTH GENETICS USG 7449nRR

Novel Soybean Varieties

Excel Brand
Dr. Ronald Secrist
116 East State Street
Camp Point, IL 62320
- DAIRYLAND DST 4203 (large-seeded food type)

Iowa Foundation Seed
Lynn Henn
Committee for Agricultural Development
133 Curtis Hall
Ames, IA 50011-1050
- IA2040LF (lipoxygenase free, large seed)
- IA3006LF (lipoxygenase free, large seed, high protein)
- IA3011 (large seed, high protein)
- IA3015 (large seed)
- IA 3016 (large seed, high protein)
- IA4002 (small seed)

Kansas State University
Bill Schapaugh
Agronomy Department
2004 Throckmorton Plant Sciences Center
Manhattan, KS 66506-5501
- KS4302sp (small seeded food variety)
- KS4402sp (high protein variety)
- KS4702sp (large seeded variety)
- KS5001sp (small seeded food variety)
- KS5201sp (small seeded variety)
- KS5202sp (high protein variety)

Ohio Foundation Seeds
Jack Debolt
11491 Foundation Road, Box 6
Croton, OH 43013
- FG 1 (tofu type)
- FG 3 (tofu type)

Pioneer Hi-Bred International
Supply Logistics Research/Samples Group
7204 NW 70th Avenue
Johnston, IA 50131
- PIONEER VARIETY P9305 (tofu type)

University of Illinois
Dick Bernard
Department of Crop Sciences
AW-101 Turner Hall
1102 South Goodwin Avenue
Urbana, IL 61801-4798
- L96-5104 (natto type)
- L96-5924 (natto type)

University of Nebraska
George L. Graef
Soybean Breeding and Genetics
Department of Agronomy
Lincoln, NE 68583-0915
- U96-1612LS (large seed)
- U96-2831LS (large seed)
- U97-207427 (high protein, high yield)
- U98-310010 (small seed, lipoxygenase 2 null)

TABLE 3. COMPANY DISEASE RESISTANCE SPECIFICATIONS FOR ENTRIES IN THE 2002 KENTUCKY SOYBEAN PERFORMANCE TESTS[A]

	Variety / Brand	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae[B] Resistance Gene Rps	Phytophthora sojae[B] Field Tolerance[C]	Sudden Death Syndrome[C]	Soybean Mosaic Virus[C]	Stem Canker[C]	Other Reported Resistance
P	ANAND	5.7	3, 5, 14					MR	
~	ARMOR 39-E9	3.9	3, MR-14		MT	MR			
~	ARMOR 42-L2	4.2	3, MR-14		MS	MR		S	
~	ARMOR 44-R4	4.4	3, MR-14		MT	MR		MR	
~	ARMOR 47-G7	4.7	3, MR-14		MT	MR		MR	
	ARMOR 52-C2	5.2	3, MR-14		MT	MR		R	
~	ARMOR 53-K3	5.3	3, MR-14		MT			R	
~	ARMOR 54-Z4	5.4	3, MR-14		MT	MR		R	
~	ARMOR 56-J6	5.6	3, MR-14		MT	MR		MR	
~	ASGROW AG3703	3.7	3, MR-14		S	MR		R	
~	ASGROW AG3903	3.9	3	1c		MR			
~	ASGROW AG4201	4.2	3, MR-14		MT				
~	ASGROW AG4403	4.4	3	1a	MS	MR		R	
~	ASGROW AG4603	4.6				MR		MR	
~	ASGROW AG4902	4.9	3, MR-14	1k	MT	MR		R	
~	ASGROW AG5301	5.3	3		MT	R		R	
~	ASGROW AG5501	5.5	3		MT	R		R	
~	BECK 437NRR	4.3	3, 4, 14	1a	MT	MR	S	S	
~	BECK 476NRR	4.7	3, 4, 14		MT	MR	S	MR	
~	BIO GENE BG 4401NRR	4.4	3, 14	1a	MT	MR		MR	
	CAVERNDALE CF 461	4.6		RACE 7					
	CAVERNDALE CF 492	4.9					R	R	
P	CAVINESS	5.7	3, 14		MT	MR		R	
~	CROPLAN GENETICS RC3838	3.8	3, 14	1c, 1k	MT	MR			
~	CROPLAN GENETICS RC3939	3.9	3, 14	1c		MR			
~	CROPLAN GENETICS RC4222	4.2	3, 14		T	MR			R-FROGEYE LEAF SPOT, STS
~	CROPLAN GENETICS RC4432	4.4				MR			
~	CROPLAN GENETICS RC4444	4.4	3, 14	1a					
~	CROPLAN GENETICS RC4772	4.7	3, 14						
~	CROW'S C4417R	4.4	3, 14	1a	MT	MR	MR	MR	MR-FROGEYE LEAF SPOT
~	CROW'S C4815R	4.8	3, 14		T	MR	MR		MR-FROGEYE LEAF SPOT
~	CROW'S C5118R	5.1	3, 14		MT	MR	MR	MR	R-ROOT KNOT NEMATODE
NS	DAIRYLAND DST4203 (large-seeded food type)	4.5			S	R			
~	DEKALB CX480cRR	4.8	3, MR-9, MR-14		MT	MR		R	
~	DEKALB DKB38-51	3.8		1a	MT	MR			
~	DEKALB DKB38-52	3.8	3	1c	MT	MR			
~	DEKALB DKB40-51	4.0	3		MT	MR			
~	DEKALB DKB44-51	4.4	3	1a	MS	MR		R	
P	DELSOY 5500	5.5	3, 14						
~	DELTA KING 3862 RR	3.8	6	1k		MR		R	
~	DELTA KING 3961 RR	3.9	5		S	MR		R	
~	DELTA KING 3964 RR	3.9	3		MS	MR		R	
~	DELTA KING 3968 RR	3.9	3, 6	1c		MS		R	
~	DELTA KING 4461 RR	4.4	5	1a		MR		S	
~	DELTA KING 4762 RR	4.7	3, 5, 14		T	MS		S	
~	DELTA KING 4763 RR	4.7	3, 6		T	MS		S	
~	DELTA KING 4868 RR	4.8	5	1a		R		S	MR-FROGEYE LEAF SPOT
~	DELTA KING 4965 RR	4.9	3		T	MR		R	
~	DELTA KING 5366 RR	5.3	6	1c		MR		MR	
~	DELTA KING 5465 RR	5.4	3, 6	1k		MR		R	
~	DYNA-GRO 3443N RR	4.4	3, 14	1a	T	MR		MR	
~	DYNA-GRO 3468N RR	4.6	3, 14		MT	MR		MR	
~	DYNA-GRO 3484N RR	4.8	3, 14		T	R		MR	
~	EBBERTS 1351RR	3.8		1c	MT	MS			
~	EBBERTS 1362RR	3.7	3, 14	1k	MT	MR			
NS	FG 1 (tofu type)	3.0							
NS	FG 3 (tofu type)	2.9		1k, 1a					
~	GARST SEED 4312RR/SB/N	4.3	3			MR			
~	GARST SEED 4512RR/N	4.5	3, 14	1k		MR			

continued on next page

TABLE 3. COMPANY DISEASE RESISTANCE SPECIFICATIONS FOR ENTRIES IN THE 2002 KENTUCKY SOYBEAN PERFORMANCE TESTS[A]

	Variety / Brand	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae[B] Resistance Gene Rps	Phytophthora sojae[B] Field Tolerance[C]	Sudden Death Syndrome[C]	Soybean Mosaic Virus[C]	Stem Canker[C]	Other Reported Resistance
	GATEWAY 493	4.9	3			R			
~	GATEWAY 4R483	4.8	3, 14			MR			
~	GATEWAY 5R500	5.0				MR			
~	GOLDEN HARVEST H3945RR	3.9	3, 14	1c	MT	MR			
~	GOLDEN HARVEST H3983RR	3.9		1a	MT	MR			
~	GOLDEN HARVEST H4368RR	4.3	3, 14		MS	MR			
~	GOLDEN HARVEST H4534RR	4.5	MR-3, MR-14	1a	MS	MR		MR	
~	GOLDEN HARVEST H4772RR	4.7	3, 14		MT	MS			
~	GOLDEN HARVEST H4850RR	4.8	3, 14		MT	MS		R	
~	GREAT LAKES GL 3819 RR	3.9	3, 14	1c	T	MS			
~	GREAT LAKES GL 4109 RR	4.1	3		MT		S	S	
~	GREAT LAKES GL 4409 RR	4.4	3, 14	1a	MT	MR			
~	GREAT LAKES GL 4800 RR	4.8			MT	MR	S	S	
~	GREAT LAKES GL 5319 RR	5.3	3, 14		MT	MR	S		
P	HOLLADAY	5.5						MR	
	HORNBECK HBK R4660	4.8	1, 3, 4, 5, 9, 14						CYSTX TYPE SOYBEAN
~	HORNBECK HBK R4820	4.8			T	MR	S	S	
P	HUTCHESON	5.4					R	R	R-PEANUT STUNT VIRUS
NS	IA2040LF (lipoxygenase free, large seed)	2.8							
NS	IA3006LF (lipoxygenase free, large seed & h.p.)	3.0							
NS	IA3011 (large seed, high protein)	2.9							
NS	IA3015 (large seed)	3.6							
NS	IA3016 (large seed & high protein)	3.8							
NS	IA4002 (small seed)	4.1							
NS	KS4302sp (small seeded food variety)	early 4							
NS	KS4402sp (high protein variety)	mid 4							
NS	KS4702sp (large seeded variety)	late 4							
NS	KS5001sp (small seeded food variety)	early 5							
NS	KS5201sp (small seeded variety)	early 5							
NS	KS5202sp (high protein variety)	early 5							
P	KS5502N**	mid 5	2, 3, 4, 14						
NS	L96-5104 (natto type)	4.5							
NS	L96-5924 (natto type)	early 3							
~	LG SEEDS C4112NRR	4.1	3, 14		MT	MR			R-FROGEYE LEAF SPOT
~	LG SEEDS C4444NRR	4.4	3, 14	1c	MT	R		MR	R-FROGEYE LEAF SPOT
~	LG SEEDS C4725NRR	4.7	3, 14		MT	MR			MR-FROGEYE LEAF SPOT
~	NK BRAND S37-N4	3.7	3, 14	1c	MT	MR		MR	
~	NK BRAND S39-Q4	3.9		1c	MS	MS	S	R	
~	NK BRAND S40-R9	4.0	3, 14		T	MR		MR	
~	NK BRAND S46-G2	4.6	3, 14		MT	MR		R	
~	NK BRAND S52-U3	5.2	3, 9, 14		MT	MS		R	
~	PIONEER VARIETY 93B67	3.5	3, 14	1c	MT	MR			
~	PIONEER VARIETY 93B68	3.6		1k	MT	MR			
~	PIONEER VARIETY 93B72	3.7		1k	MT	MS			
	PIONEER VARIETY 93B87	3.8		1k	MS	MR			
~	PIONEER VARIETY 94B13	4.1	3, 14		MT	MR			
~	PIONEER VARIETY 94B23	4.2	3		MS	MS			
~	PIONEER VARIETY 94B73	4.7		1k	MS	MS			
~	PIONEER VARIETY 94B74	4.7	3, 14	1k	MT	MR			
~	PIONEER VARIETY 95B32	5.3	3, 14		MT	MR		MR	
~	PIONEER VARIETY 95B42	5.4	3		MT	MR			
NS	PIONEER VARIETY P9305 (tofu type)	3.0							
~	SEED CONSULTANTS SC 9391 RR	3.9		1a	MT	MR			
~	SEED CONSULTANTS SC 9442 RR	4.4	3, 14	1a	MT	MR			
	SOUTHERN CROSS AARON 4.5N, STS	4.5	3, 14	1a		MR			STS
~	SOUTHERN CROSS JONATHAN 5.1N, RR	5.1	3, 14		MT	MR			
~	SOUTHERN CROSS JORDAN 3.6N, RR	3.6	3, 14	1k		MR			
~	SOUTHERN CROSS MICHAEL 4.2N, RR	4.2	3, 14		S	R			MR-BROWN STEM ROT
~	SOUTHERN CROSS SILAS 4.4N, RR	4.4	3, 14	1a		MR			
~	SOUTHERN CROSS SOLOMON 3.8RR	3.8		1a		MR			

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TABLE 3. COMPANY DISEASE RESISTANCE SPECIFICATIONS FOR ENTRIES IN THE 2002 KENTUCKY SOYBEAN PERFORMANCE TESTS[A]

	Variety / Brand	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae[B] Resistance Gene Rps	Phytophthora sojae[B] Field Tolerance[C]	Sudden Death Syndrome[C]	Soybean Mosaic Virus[C]	Stem Canker[C]	Other Reported Resistance
~	SOUTHERN CROSS TITUS 4.8N, RR	4.8	3, 14		MS	MR			
	SOUTHERN STATES 439	4.3			T	R			
~	SOUTHERN STATES RT 3802N	3.8	3, 14		T	MR			
~	SOUTHERN STATES RT 4720N	4.7	3, 14		T	MR			
~	SOUTHERN STATES RT 4810N	4.8	3, 14		T	MR			
~	SOUTHERN STATES RT 5602N	5.6	3, 14		T	MS		R	
~	SOUTHERN STATES RT-3799N	3.7	3, 14		T	MR			
~	SOUTHERN STATES RT-3975	3.9			T	MS			
~	SOUTHERN STATES RT-4098	4.0			T	MR			
~	SOUTHERN STATES RT-446N	4.4	3		T	MS			
~	SOUTHERN STATES RT-4502	4.5	3, 14		T				
~	SOUTHERN STATES RT-4980	4.9			T	MR			
~	SOUTHERN STATES RT-5001N	5.1	3, 14		T	MS		MR	
~	SOUTHERN STATES RT-5302N	5.1	3, 14		T	MR		R	
~	SOUTHERN STATES RT-540N	5.4	3, 14		T	MS		R	
~	STEYER 4410 RR SCN**	4.4	3, 14	1a	MS	MR	MR	MR	
~	STEYER 4700 RR STS SCN**	4.3	3, 14		MT	MR	MR	MR	
~	STINE S3632-4**	3.6	3, 14	1k					
~	STINE S4202-4**	4.2	3, 14						STS
~	STINE S4442-4**	4.4	3, 14						STS
~	STINE S4882-4**	4.8	3, 14						
P	STOUT	3.6		1a	T				
P	STRESSLAND	4.9			T				
P	STRONG	4.0							
NS	U96-1612LS (large seed)	3.2							
NS	U96-2831LS (large seed)	3.0							
NS	U97-207427 (high protein, high yield)	2.9							
NS	U98-310010 (small seed-lipoxygenase 2 null)	3.0							
~	UNISOUTH GENETICS USG 510nRR	5.1	3, 14			R		R	R-ROOT KNOT, MR-FROGEYE
~	UNISOUTH GENETICS USG 540nRR	5.4	3, 14					R	MR-FROGEYE, PRR-5512 GENE
	UNISOUTH GENETICS USG 5601T	5.6					R	R	R-ROOT KNOT, R-FROGEYE
~	UNISOUTH GENETICS USG 7440nRR	4.4	3, 14	1a					MR-FROGEYE LEAF SPOT
~	UNISOUTH GENETICS USG 7449nRR	4.4	3, 14	1k		R			MR-FROGEYE LEAF SPOT
~	UNISOUTH GENETICS USG 7452nRR	4.5	3, 14	1a	T				R-FROGEYE LEAF SPOT
~	VIGORO BRAND V382NRR	3.8	3		MT				MR-FROGEYE LEAF SPOT
~	VIGORO BRAND V42N3RS	4.2	3, 14			MR			R-FROGEYE LEAF SPOT
~	VIGORO BRAND V46N3RR	4.6	3, 14		MT	R			
~	VIGORO BRAND V47N3RR	4.7	3, 14		MT	MS			MR-FROGEYE LEAF SPOT
~	VIGORO BRAND V49N3RR	4.9	3, 14		MS	MR			MR-FROGEYE LEAF SPOT
~	VIGORO BRAND V543NRR	5.4	3, 14		MS	R		S	MS-FROGEYE LEAF SPOT

~ Roundup Ready variety.

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of much broader market value. Testing novel soybeans will enable producers to assess whether premiums for a given trait offset possible yield lag/drag.

A This information is provided by the companies and has not been checked by the soybean variety test project.

B All races of Phytophthora sojae so far identified in Kentucky can be controlled with varieties with Rps 1c or 1k. Race-specific resistance is highly effective, but a proper match between pathogen race and variety is essential. Field tolerance is a lower level of protection to the fungus that will provide good (not excellent) control against all races. Seed and young seedlings of tolerant varieties must be protected with an appropriate fungicide since field tolerance develops after the early seedling growth stage.

C blank spaces = no data provided by seed company or data unknown.
S = susceptible, MS = moderately susceptible, MR = moderately resistant, R = resistant, T = tolerant, MT = moderately tolerant.

TABLE 4. 2002 SUMMARY: VARIETY TEST TABLES 5-8

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02
	EARLY (GROUP III)						
~	GOLDEN HARVEST H-3945RR**	**51.1**			1.6		
~	CROPLAN GENETICS RC3939**	47.4			1.6		
~	GREAT LAKES GL 3819 RR**	46.9			1.5		
~	ARMOR 39-E9**	46.8			1.6		
~	DELTA KING 3968 RR*	46.3	**52.1**		1.6	1.5	
~	DELTA KING 3862 RR	45.4	49.6		1.9	1.9	
~	SEED CONSULTANTS SC 9391 RR	45.3			1.4		
~	NK BRAND S39-Q4	44.3	50.9		1.5	1.7	
~	NK BRAND S37-N4**	43.8			2.3		
~	PIONEER VARIETY 93B67**	43.8	48.7		1.6	1.8	
~	DEKALB DKB38-52*	43.5	50.1		1.8	1.7	
~	SOUTHERN STATES RT-3799N**	43.3	48.6	51.1	1.6	1.7	1.6
~	ASGROW AG3903*	43.2	50.9		2.1	2.2	
~	CROPLAN GENETICS RC3838**	42.9	49.9		1.8	1.8	
	PIONEER VARIETY 93B87	42.6	51.3		2.2	2.1	
~	DEKALB DKB38-51	42.5			1.4		
~	DELTA KING 3961 RR	42.3	48.5		1.9	1.8	
~	GOLDEN HARVEST H-3983RR	42.2	51.3	**54.0**	1.6	1.6	1.6
~	VIGORO BRAND V382NRR*	42.0			1.8		
~	ASGROW AG3703**	41.8			1.4		
~	SOUTHERN STATES RT-3975	40.8	45.8	48.2	2.1	2.1	1.9
~	EBBERTS 1362RR**	40.8			1.8		
~	STINE S3632-4**	40.6	48.1		1.7	1.6	
~	DELTA KING 3964 RR*	39.3	47.2		2.3	2.4	
~	SOUTHERN CROSS JORDAN 3.6N, RR**	39.0			1.6		
~	PIONEER VARIETY 93B68	38.6			1.9		
~	SOUTHERN STATES RT 3802N**	38.4			1.8		
~	SOUTHERN CROSS SOLOMON 3.8RR	37.4	45.7	50.0	1.8	2.0	1.9
~	PIONEER VARIETY 93B72	36.3			2.2		
~	EBBERTS 1351RR	35.0			2.3		
NS	U97-207427 (high protein, high yield)	34.4	39.7	43.9	1.9	2.0	1.9
P	STOUT	32.7			1.3		
NS	U96-1612LS (large seed)	30.5			2.0		
NS	FG 1 (tofu type)	29.8	39.2	43.4	2.2	2.3	2.0
NS	PIONEER VARIETY P9305 (tofu type)	29.1	39.3	42.8	1.6	1.7	1.6
NS	U96-2831LS (large seed)	28.6			2.5		
NS	IA3016 (large seed & high protein)	27.5			1.9		
NS	IA3011 (large seed, high protein)	26.4	35.6	39.6	2.1	1.7	1.7
NS	L96-5924 (natto type)	26.4			2.4		
NS	U98-310010 (small seed-lipoxygenase 2 null)	25.4			2.1		
NS	IA3006LF (lipoxygenase free, large seed & hp)	25.1			1.5		
NS	IA3015 (large seed)	24.5			2.2		
NS	FG 3 (tofu type)	20.3			1.9		
NS	IA2040LF (lipoxygenase free, large seed)	14.8			1.6		
	GROUP III AVERAGE	37.5	47.0	46.6	1.8	1.9	1.8
	LSD (0.10)	2.8	2.2	2.3	0.2	0.2	0.2
	MID-SEASON (GROUP IV)						
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	**48.0**			1.8		
~	DELTA KING 4763 RR*	47.8	**55.2**		2.0	2.3	
~	VIGORO BRAND V42N3RR**	47.7			1.6		
~	VIGORO BRAND V47N3RR**	47.5			1.8		
~	STINE S4442-4**	47.2			1.4		
~	LG SEEDS C4112NRR**	46.8			1.4		
~	STINE S4202-4**	46.6	53.3		1.4	1.7	
~	PIONEER VARIETY 94B74**	46.2			2.2		
~	CROPLAN GENETICS RC4222**	45.8			1.6		
~	ARMOR 47-G7**	45.7			1.9		
~	BECK 437NRR**	45.6			1.8		
~	GREAT LAKES GL 4109 RR*	45.1	48.0		2.0	2.2	
~	VIGORO BRAND V49N3RR**	45.1			2.1		
~	DYNA-GRO 3468N RR**	45.0	43.9	49.3	1.5	1.8	1.7
~	ASGROW AG4201**	44.7			2.1		
~	SEED CONSULTANTS SC 9442 RR**	44.7	51.7		1.8	1.9	
~	GARST SEED 4312RR/SB/N*	44.1			1.6		
~	DELTA KING 4868 RR	43.8	51.0	**53.0**	1.8	2.2	1.9

RECOMMENDED TABLE

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TABLE 4. 2002 SUMMARY: VARIETY TEST TABLES 5-8

		YIELD (BU/AC)[A]			LODGING		
	BRAND -- VARIETY	2002	01-02	00-02	2002	01-02	00-02
~	CROPLAN GENETICS RC4772*	43.7			2.4		
~	UNISOUTH GENETICS USG 7452nRR**	43.7			1.8		
~	GARST SEED 4512RR/N**	43.6			1.8		
~	CROPLAN GENETICS RC4444**	43.4	50.8		1.8	2.0	
~	GOLDEN HARVEST H-4772RR**	43.3			1.7		
~	STEYER 4410 RR SCN**	43.3			1.8		
~	BIO GENE BG 4401NRR**	43.2	50.0		1.6	1.9	
~	LG SEEDS C4725NRR**	42.8			1.5		
~	CROPLAN GENETICS RC4432	42.7			2.0		
~	GOLDEN HARVEST H-4368RR**	42.7			1.4		
~	UNISOUTH GENETICS USG 7449nRR**	42.6			2.4		
~	VIGORO BRAND V46N3RR**	42.6			1.6		
~	NK BRAND S40-R9**	42.5			2.1		
~	GREAT LAKES GL 4409 RR**	42.4			1.6		
~	UNISOUTH GENETICS USG 7440nRR**	42.2			1.7		
~	PIONEER VARIETY 94B23*	42.2	48.2		2.1	2.5	
~	PIONEER VARIETY 94B73	42.1	49.5		1.9	2.4	
~	DELTA KING 4965 RR*	42.1	47.1		1.8	2.1	
NS	DAIRYLAND DST4203 (large-seed food type)	42.0	50.0		1.8	2.0	
~	ASGROW AG4603	42.0			1.7		
	HORNBECK HBK 4944CX**	42.0			2.6		
~	HORNBECK HBK R4820	42.0	50.2		1.8	1.9	
~	ARMOR 44-R4**	41.9			1.6		
~	SOUTHERN CROSS TITUS 4.8N, RR**	41.9	47.7	50.2	2.2	2.4	2.1
~	CROW'S C4417R**	41.7	50.6		1.5	1.9	
~	ASGROW AG4403*	41.7	49.7	51.5	1.9	2.1	1.9
~	CROW'S C4815R**	41.5			1.8		
~	LG SEEDS C4444NRR**	41.5			1.6		
~	DEKALB DKB40-51*	41.5	45.4		1.5	1.7	
~	DEKALB DKB44-51*	41.5	49.6	50.6	1.7	1.9	1.7
~	NK BRAND S46-G2**	41.5	44.9	47.1	2.1	2.2	2.0
~	ASGROW AG4902**	41.4	48.4	51.0	2.0	2.2	2.0
~	GATEWAY 4R483**	41.1	48.4		2.0	2.5	
~	STINE S4882-4**	40.8			1.9		
~	SOUTHERN CROSS SILAS 4.4N, RR**	40.7			1.8		
~	DELTA KING 4762 RR**	40.7	44.0		2.2	2.3	
~	DYNA-GRO 3443N RR**	40.6			1.7		
~	SOUTHERN STATES RT-446N*	40.5	46.2	48.5	1.8	2.0	1.9
~	DELTA KING 4461 RR	40.4	49.6		1.7	1.8	
~	BECK 476NRR**	40.2			1.9		
~	PIONEER VARIETY 94B13**	40.2			1.6		
	GATEWAY 493*	39.9	45.6		1.9	2.7	
~	GOLDEN HARVEST H-4534RR**	39.8	47.3		1.7	1.8	
~	SOUTHERN STATES RT 4720N**	39.7			2.4		
~	DYNA-GRO 3484N RR**	39.7	45.7		2.0	2.0	
~	SOUTHERN STATES RT 4810N**	39.1			2.0		
	SOUTHERN CROSS AARON 4.5N, STS**	39.1	44.9	49.6	2.1	2.6	2.3
~	SOUTHERN STATES RT-4098	39.0	44.8	49.4	2.1	2.4	2.1
~	SOUTHERN STATES RT-4980	39.0	46.8	49.0	2.1	2.5	2.2
~	STEYER 4700 RR STS SCN**	38.7			2.2		
	CAVERNDALE CF 492	38.7	47.1	51.5	1.1	1.9	1.9
NS	KS4702sp (large seeded variety)	38.5			2.5		
NS	KS4402sp (high protein variety)	38.1	40.9		1.5	1.6	
~	GREAT LAKES GL 4800 RR	38.0	46.8	50.4	2.1	2.5	2.2
~	DEKALB CX480cRR**	37.8	45.2		2.0	2.5	
~	SOUTHERN STATES RT 4502**	37.7			1.9		
~	GOLDEN HARVEST H-4850RR**	37.7	45.9		1.9	2.2	
~	ARMOR 42-L2**	37.4			2.6		
	CAVERNDALE CF 461	37.1	44.5	47.5	2.1	2.7	2.4
P	STRESSLAND	37.1	44.5	48.0	2.1	2.6	2.3
	SOUTHERN STATES 439	35.0	42.3	49.2	1.8	2.3	2.1
NS	L96-5104 (natto type)	34.9	37.6	42.7	1.9	2.3	2.1
NS	KS4302sp (small seeded food variety)	30.9	29.4		2.1	2.9	
P	STRONG	30.9			1.2		
NS	IA4002 (small seed)	28.7			2.9		
	GROUP IV AVERAGE	41.4	46.8	49.3	1.9	2.2	2.0
	LSD (0.10)	2.8	2.2	2.1	0.2	0.2	0.2

RECOMMENDED TABLE

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TABLE 4. 2002 SUMMARY: VARIETY TEST TABLES 5-8

		YIELD (BU/AC)[A]			LODGING		
	BRAND -- VARIETY	**2002**	**01-02**	**00-02**	**2002**	**01-02**	**00-02**
	LATE (GROUP V)						
	UNISOUTH GENETICS USG 5601T	**42.3**			2.3		
~	ARMOR 53-K3**	42.1			1.7		
P	DELSOY 5500**	41.1	48.0	50.0	2.1	2.4	2.3
~	SOUTHERN STATES RT 540N**	41.0			2.2		
~	DELTA KING 5465 RR*	41.0	47.1	**50.2**	2.2	2.5	2.2
~	NK BRAND S52-U3**	40.9	**48.7**		2.7	3.0	
~	UNISOUTH GENETICS USG 510nRR**	40.8	47.4	49.2	2.2	2.3	2.1
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	40.7			2.4		
~	ASGROW AG5301*	40.7			2.3		
~	PIONEER VARIETY 95B32**	40.5	46.5	49.9	2.1	2.4	2.1
~	DELTA KING 5366 RR	40.1	44.5		3.1	3.3	
~	VIGORO BRAND V543NRR**	39.7	46.1		2.1	2.4	
~	ASGROW AG5501*	39.7	46.8	50.1	2.0	2.3	2.2
~	ARMOR 54-Z4**	39.5			2.2		
	ARMOR 52-C2**	39.4			2.4		
~	CROW'S C5118R**	39.4	45.9		2.0	2.3	
P	ANAND**	39.3	43.8	46.0	2.0	2.2	1.9
~	ARMOR 56-J6**	39.0			2.9		
~	SOUTHERN STATES RT 5602N**	38.8			2.4		
~	GATEWAY 5R500	38.8			1.9		
~	SOUTHERN STATES RT-5001N**	38.8	42.7		2.3	2.7	
~	SOUTHERN STATES RT 5302N**	38.7			2.1		
P	KS5502N**	38.4	43.0		2.3	2.5	
~	GREAT LAKES GL 5319 RR**	38.3	45.9		2.2	2.3	
~	UNISOUTH GENETICS USG 540nRR**	37.9	44.2		2.2	2.6	
P	HUTCHESON	37.9	45.6	49.9	2.1	2.8	2.5
P	CAVINESS**	37.8	45.3	47.7	2.9	3.5	3.4
~	PIONEER VARIETY 95B42*	37.3			2.3		
NS	KS5202sp (high protein variety)	37.2	46.4		1.8	2.4	
P	HOLLADAY	36.7	46.9	**50.2**	2.1	2.9	2.7
NS	KS5001sp (small seeded food variety)	31.6			1.5		
NS	KS5201sp (small seeded variety)	30.2	36.3		2.9	3.5	
	GROUP V AVERAGE	38.9	45.3	49.2	2.2	2.6	2.4
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	39.8	46.5	48.7	1.9	2.2	2.1

~ Roundup Ready variety.

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of much broader market value. Testing novel soybeans will enable producers to assess whether premiums for a given trait offset possible yield lag/drag.

* Resistant to the soybean cyst nematode (Race 3).

** Resistant to the soybean cyst nematode (Race 3 and Race 14).

A Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

RECOMMENDED TABLE

TABLE 5. 2002 BUTLER COUNTY FULL SEASON VARIETY TEST[A]

		YIELD (BU/AC)[B]			LODGING		
	BRAND -- VARIETY	2002	01-02	00-02	2002	01-02	00-02
	EARLY (GROUP III)						
~	GREAT LAKES GL 3819 RR**	**73.1**			2.5		
~	SEED CONSULTANTS SC 9391 RR	72.7			2.5		
~	DEKALB DKB38-51	70.4			2.8		
~	GOLDEN HARVEST H-3945RR**	68.7			3.0		
~	CROPLAN GENETICS RC3939**	67.5			3.0		
~	DELTA KING 3862 RR	64.3	57.7		3.5	3.0	
~	NK BRAND S39-Q4	64.1	59.5		3.0	2.8	
~	GOLDEN HARVEST H-3983RR	63.7	**60.6**	**67.1**	2.8	2.1	2.4
~	ASGROW AG3903*	63.5	59.8		4.3	3.4	
~	DELTA KING 3968 RR*	63.4	59.4		2.5	2.3	
~	PIONEER VARIETY 93B67**	62.8	56.4		2.8	2.5	
~	SOUTHERN STATES RT-3799N**	62.5	57.4	62.6	3.0	2.5	2.4
~	ARMOR 39-E9**	62.1			2.8		
~	DELTA KING 3961 RR	61.4	57.4		3.3	2.6	
~	DEKALB DKB38-52*	61.0	58.1		2.5	2.3	
~	SOUTHERN CROSS JORDAN 3.6N, RR**	59.8			3.0		
~	VIGORO BRAND V382NRR*	59.2			3.5		
~	EBBERTS 1362RR**	58.2			3.5		
~	STINE S3632-4**	57.6	54.6		2.8	2.3	
~	ASGROW AG3703**	57.2			2.8		
~	PIONEER VARIETY 93B68	55.7			4.0		
~	CROPLAN GENETICS RC3838**	55.7	57.3		3.0	2.5	
~	SOUTHERN STATES RT 3802N**	55.0			3.3		
~	SOUTHERN CROSS SOLOMON 3.8RR	55.0	51.7	63.6	3.5	3.0	3.0
	PIONEER VARIETY 93B87	54.4	55.6		4.8	3.6	
~	NK BRAND S37-N4**	54.2			4.3		
~	SOUTHERN STATES RT-3975	53.1	50.3	58.4	4.0	3.5	3.3
~	EBBERTS 1351RR	51.8			4.5		
~	DELTA KING 3964 RR*	51.5	51.7		3.3	3.1	
~	PIONEER VARIETY 93B72	49.5			4.8		
NS	U97-207427 (high protein, high yield)	47.6	44.9	56.0	4.0	3.4	3.0
P	STOUT	44.7			2.3		
NS	FG 1 (tofu type)	42.8	44.8	53.9	4.0	4.0	3.6
NS	PIONEER VARIETY P9305 (tofu type)	41.8	45.4	56.0	3.3	2.8	2.6
NS	U96-1612LS (large seed)	38.2			4.0		
NS	IA3006LF (lipoxygenase free, large seed & hp)	37.5			2.5		
NS	U98-310010 (small seed-lipoxygenase 2 null)	35.0			4.0		
NS	IA3016 (large seed & high protein)	30.9			4.0		
NS	U96-2831LS (large seed)	28.1			5.0		
NS	IA3011 (large seed, high protein)	26.9	36.2	49.5	4.5	3.4	3.3
NS	IA3015 (large seed)	25.9			5.0		
NS	L96-5924 (natto type)	24.7			4.5		
NS	FG 3 (tofu type)	21.8			4.0		
NS	IA2040LF (lipoxygenase free, large seed)	13.1			2.8		
	GROUP III AVERAGE	51.5	53.6	58.4	3.5	2.9	3.0
	LSD (0.10)	5.6	4.0	4.5	0.7	0.4	0.4
	MID-SEASON (GROUP IV)						
~	VIGORO BRAND V42N3RR**	**69.4**			2.8		
~	LG SEEDS C4112NRR**	68.5			2.3		
~	PIONEER VARIETY 94B73	68.5	**66.1**		4.0	3.3	
~	STINE S4202-4**	68.4	60.9		2.3	2.0	
~	STEYER 4410 RR SCN**	67.6			4.0		
~	BECK 437NRR**	66.8			4.0		
~	PIONEER VARIETY 94B74**	66.7			3.8		
~	CROPLAN GENETICS RC4222**	66.5			3.0		
~	ARMOR 47-G7**	65.4			3.5		
~	BIO GENE BG 4401NRR**	64.3	58.4		3.0	2.5	
~	STINE S4442-4**	64.2			2.5		
~	DELTA KING 4868 RR	64.0	59.9	64.7	3.3	2.8	2.5
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	63.6			3.3		
~	DYNA-GRO 3443N RR**	63.2			3.3		
~	ARMOR 44-R4**	63.2			3.0		
~	CROW'S C4417R**	63.1	58.6		3.0	2.8	
~	DEKALB DKB40-51*	63.0	54.4		2.8	2.3	
~	GARST SEED 4512RR/N**	62.7			3.5		

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TABLE 5. 2002 BUTLER COUNTY FULL SEASON VARIETY TEST[A]

	BRAND -- VARIETY	YIELD (BU/AC)[B] 2002	01-02	00-02	LODGING 2002	01-02	00-02
~	GOLDEN HARVEST H-4772RR**	62.2			3.0		
~	ASGROW AG4403*	62.1	60.6	65.8	3.8	3.1	2.9
~	PIONEER VARIETY 94B13**	61.8			2.8		
~	UNISOUTH GENETICS USG 7440nRR**	61.7			3.0		
NS	DAIRYLAND DST4203 (large-seed food type)	61.5	58.6		3.8	3.0	
~	DELTA KING 4763 RR*	61.4	55.1		3.3	2.9	
~	GARST SEED 4312RR/SB/N*	60.9			2.5		
~	LG SEEDS C4444NRR**	60.8			3.0		
~	VIGORO BRAND V46N3RR**	60.5			3.0		
~	VIGORO BRAND V47N3RR**	60.4			3.0		
~	UNISOUTH GENETICS USG 7452nRR**	60.3			3.8		
~	DELTA KING 4461 RR	60.2	59.3		3.5	2.6	
	SOUTHERN STATES 439	60.2	58.3	**68.7**	3.3	2.8	2.8
~	SEED CONSULTANTS SC 9442 RR**	60.1	63.1		3.5	2.8	
	CAVERNDALE CF 461	60.1	55.7	61.1	3.5	3.4	3.4
~	DEKALB DKB44-51*	59.6	58.7	64.1	3.5	2.9	2.5
~	CROPLAN GENETICS RC4432	59.4			3.8		
~	HORNBECK HBK R4820	59.4	58.4		3.5	2.8	
~	GOLDEN HARVEST H-4534RR**	59.4	58.2		3.5	2.8	
NS	KS4402sp (high protein variety)	59.0	53.9		3.0	2.3	
~	SOUTHERN CROSS SILAS 4.4N, RR**	58.8			3.3		
~	VIGORO BRAND V49N3RR**	58.6			3.5		
~	GOLDEN HARVEST H-4368RR**	58.4			2.3		
~	BECK 476NRR**	58.4			3.0		
~	GREAT LAKES GL 4409 RR**	58.3			2.8		
~	PIONEER VARIETY 94B23*	58.0	56.1		4.3	3.4	
~	SOUTHERN STATES RT 4720N**	57.6			4.5		
~	UNISOUTH GENETICS USG 7449nRR**	57.6			3.8		
~	GREAT LAKES GL 4800 RR	57.5	53.9	61.3	3.8	3.3	3.2
~	GREAT LAKES GL 4109 RR*	57.4	52.6		4.3	3.3	
~	SOUTHERN STATES RT-4098	57.4	54.2	64.7	4.3	3.1	2.9
~	ASGROW AG4902**	57.1	54.3	60.9	3.8	3.0	2.8
~	LG SEEDS C4725NRR**	56.8			3.0		
	SOUTHERN CROSS AARON 4.5N, STS**	56.5	53.0	61.9	4.0	3.5	3.2
~	ASGROW AG4201**	56.4			3.5		
	HORNBECK HBK 4944CX**	56.4			4.5		
~	STINE S4882-4**	56.3			3.8		
~	CROPLAN GENETICS RC4444**	56.3	57.8		3.3	2.9	
~	DYNA-GRO 3468N RR**	56.0	52.9	60.2	2.8	2.5	2.3
~	ASGROW AG4603	55.3			3.3		
NS	KS4702sp (large seeded variety)	54.5			3.5		
~	NK BRAND S46-G2**	54.1	49.2	55.2	4.0	3.0	2.8
~	CROPLAN GENETICS RC4772*	53.8			3.5		
~	CROW'S C4815R**	53.5			3.0		
~	SOUTHERN STATES RT-4980	53.3	51.5	59.8	4.0	3.4	3.3
~	SOUTHERN STATES RT-446N*	52.9	50.2	57.1	3.3	2.8	2.6
~	SOUTHERN CROSS TITUS 4.8N, RR**	52.9	51.5	60.2	4.0	3.3	3.0
~	DYNA-GRO 3484N RR**	52.6	51.6		3.3	2.8	
~	ARMOR 42-L2**	51.4			4.5		
~	NK BRAND S40-R9**	51.4			4.0		
~	GATEWAY 4R483**	51.0	47.7		3.3	3.0	
~	SOUTHERN STATES RT 4502**	50.6			4.0		
~	GOLDEN HARVEST H-4850RR**	50.2	51.0		3.0	2.8	
	CAVERNDALE CF 492	49.3	49.9	58.6	1.5	2.0	2.4
	GATEWAY 493*	49.2	46.0		3.5	3.8	
P	STRONG	48.9			1.8		
~	STEYER 4700 RR STS SCN**	48.7			3.5		
P	STRESSLAND	48.2	50.9	60.7	3.8	3.1	3.3
~	SOUTHERN STATES RT 4810N**	48.1			3.0		
~	DEKALB CX480cRR**	47.6	47.4		3.3	3.0	
~	DELTA KING 4965 RR*	46.7	51.1		3.3	2.6	
~	DELTA KING 4762 RR**	46.6	48.1		4.0	3.1	
NS	KS4302sp (small seeded food variety)	45.0	35.0		3.8	3.9	
NS	L96-5104 (natto type)	40.1	40.6	49.3	4.0	3.0	2.8
NS	IA4002 (small seed)	38.9			4.8		
	GROUP IV AVERAGE	57.5	53.9	60.8	3.4	2.9	2.9
	LSD (0.10)	5.5	3.8	4.0	0.7	0.4	0.2

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TABLE 5. 2002 BUTLER COUNTY FULL SEASON VARIETY TEST[A]

		YIELD (BU/AC)[B]			LODGING		
	BRAND -- VARIETY	2002	01-02	00-02	2002	01-02	00-02
	LATE (GROUP V)						
~	CROW'S C5118R**	**51.6**	55.0		3.0	2.9	
NS	KS5202sp (high protein variety)	51.0	52.8		3.3	3.4	
~	GATEWAY 5R500	50.8			2.8		
~	ASGROW AG5301*	50.7			3.3		
~	UNISOUTH GENETICS USG 540nRR**	50.1	**54.8**		3.5	3.4	
	UNISOUTH GENETICS USG 5601T	49.9			3.3		
~	UNISOUTH GENETICS USG 510nRR**	49.9	53.8	57.1	3.3	3.0	2.8
~	DELTA KING 5465 RR*	49.5	52.2	**59.4**	3.5	3.1	3.0
~	SOUTHERN STATES RT 5302N**	49.3			3.3		
~	ARMOR 53-K3**	49.1			2.3		
~	VIGORO BRAND V543NRR**	49.0	50.8		3.5	3.3	
P	HUTCHESON	48.5	51.0	54.3	3.5	3.6	3.5
~	ASGROW AG5501*	47.6	53.0	57.9	3.3	3.0	3.1
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	46.8			3.5		
~	PIONEER VARIETY 95B32**	46.8	50.4	55.6	3.0	3.3	3.1
~	DELTA KING 5366 RR	46.7	45.7		4.0	4.0	
~	ARMOR 54-Z4**	46.2			3.8		
~	SOUTHERN STATES RT 540N**	46.1			3.5		
P	HOLLADAY	45.4	47.3	53.6	4.3	4.3	4.0
~	PIONEER VARIETY 95B42*	45.1			3.5		
P	DELSOY 5500**	44.2	51.3	55.0	3.5	3.0	3.3
	ARMOR 52-C2**	44.1			4.3		
~	GREAT LAKES GL 5319 RR**	43.8	50.3		3.5	2.8	
~	SOUTHERN STATES RT-5001N**	43.7	46.8		3.5	3.8	
NS	KS5001sp (small seeded food variety)	43.6			3.0		
~	NK BRAND S52-U3**	41.5	46.9		4.3	4.1	
~	SOUTHERN STATES RT 5602N**	41.3			4.0		
NS	KS5201sp (small seeded variety)	41.1	43.2		4.5	4.4	
P	KS5502N**	38.9	41.0		3.8	3.8	
P	ANAND**	36.2	40.1	48.0	4.0	3.8	3.3
P	CAVINESS**	33.4	44.9	49.9	4.0	4.3	4.2
~	ARMOR 56-J6**	32.3			4.0		
	GROUP V AVERAGE	45.4	49.0	54.5	3.6	3.5	3.4
	LSD (0.10)	6.4	4.7	3.5	0.7	0.5	0.3
	GRAND MEAN	53.4	52.6	58.6	3.5	3.1	3.0

~ Roundup Ready variety.

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of much broader market value. Testing novel soybeans will enable producers to assess whether premiums for a given trait offset possible yield lag/drag.

* Resistant to the soybean cyst nematode (Race 3).

** Resistant to the soybean cyst nematode (Race 3 and Race 14).

A 2000 and 2001 data are from Logan County, and the 2002 data are from Butler County.

B Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 6. 2002 CALDWELL COUNTY FULL SEASON VARIETY TEST

		YIELD (BU/AC)[A]			LODGING			HEIGHT (IN)
	BRAND -- VARIETY	2002	01-02	00-02	2002	01-02	00-02	2002
	EARLY (GROUP III)							
~	GOLDEN HARVEST H-3945RR**	**43.5**			1.0			29
~	DELTA KING 3968 RR*	36.5	**49.9**		1.0	1.0		27
~	CROPLAN GENETICS RC3939**	35.6			1.0			30
~	CROPLAN GENETICS RC3838**	35.2	45.0		1.0	1.0		30
	PIONEER VARIETY 93B87	34.7	49.6		1.0	2.0		30
~	NK BRAND S37-N4**	33.3			2.0			31
~	VIGORO BRAND V382NRR*	33.1			1.0			30
~	ARMOR 39-E9**	32.8			1.0			28
~	NK BRAND S39-Q4	32.4	47.4		1.0	1.0		26
~	EBBERTS 1362RR**	32.4			1.0			25
~	SOUTHERN STATES RT-3799N**	31.7	44.1	52.3	1.0	1.0	1.0	28
~	DELTA KING 3964 RR*	31.2	47.5		1.0	2.0		33
~	DELTA KING 3961 RR	30.7	44.9		2.0	2.0		29
~	GREAT LAKES GL 3819 RR**	30.6			1.0			23
~	ASGROW AG3703**	30.4			1.0			28
~	SEED CONSULTANTS SC 9391 RR	30.1			1.0			23
~	DELTA KING 3862 RR	30.0	43.7		1.0	1.0		26
~	DEKALB DKB38-52*	29.9	43.6		1.0	1.0		26
~	SOUTHERN STATES RT-3975	29.4	40.2	45.8	1.0	1.0	1.0	30
NS	IA3011 (large seed, high protein)	29.1	37.0	40.9	1.0	1.0	1.0	25
NS	U96-2831LS (large seed)	29.1			1.0			30
~	STINE S3632-4**	28.8	43.7		1.0	1.0		24
~	SOUTHERN CROSS JORDAN 3.6N, RR**	28.6			1.0			24
NS	U96-1612LS (large seed)	27.7			1.0			30
~	ASGROW AG3903*	27.7	43.2		1.0	1.0		25
~	DEKALB DKB38-51	27.6			1.0			25
~	SOUTHERN CROSS SOLOMON 3.8RR	27.6	44.5	52.2	1.0	2.0	1.0	25
~	PIONEER VARIETY 93B72	26.1			1.0			27
~	GOLDEN HARVEST H-3983RR	26.0	47.0	**55.0**	1.0	1.0	1.0	23
~	SOUTHERN STATES RT 3802N**	25.6			1.0			30
~	PIONEER VARIETY 93B67**	24.4	37.5		1.0	1.0		31
NS	U97-207427 (high protein, high yield)	24.3	33.8	39.7	1.0	1.0	1.0	29
NS	PIONEER VARIETY P9305 (tofu type)	22.9	38.1	44.0	1.0	1.0	1.0	23
~	PIONEER VARIETY 93B68	22.5			1.0			24
NS	U98-310010 (small seed-lipoxygenase 2 null)	22.1			1.0			19
NS	IA3016 (large seed & high protein)	22.0			1.0			24
NS	L96-5924 (natto type)	21.5			2.0			23
~	EBBERTS 1351RR	20.7			1.0			25
NS	FG 3 (tofu type)	20.4			1.0			29
P	STOUT	20.0			1.0			18
NS	FG 1 (tofu type)	18.4	35.7	45.4	1.0	1.0	1.0	26
NS	IA3006LF (lipoxygenase free, large seed & hp)	17.3			1.0			20
NS	IA3015 (large seed)	17.3			1.0			28
NS	IA2040LF (lipoxygenase free, large seed)	14.2			1.0			26
	GROUP III AVERAGE	27.6	43.0	46.9	1.1	1.2	1.0	26
	LSD (0.10)	5.3	3.5	5.4	0.2	0.3	0.3	4
	MID-SEASON (GROUP IV)							
~	GREAT LAKES GL 4409 RR**	**39.4**			1.0			31
~	DYNA-GRO 3468N RR**	38.9	42.0	51.9	1.0	1.5	1.3	29
~	VIGORO BRAND V47N3RR**	38.6			1.0			32
~	SEED CONSULTANTS SC 9442 RR**	38.3	49.2		1.0	1.3		32
~	DELTA KING 4965 RR*	37.2	48.4		1.0	1.8		30
~	DELTA KING 4868 RR	37.0	52.1	54.3	1.0	1.6	1.4	33
~	DELTA KING 4763 RR*	36.8	**54.9**		1.0	1.5		31
~	PIONEER VARIETY 94B73	36.7	46.4		1.0	2.1		30
~	STINE S4442-4**	36.2			1.0			26
NS	L96-5104 (natto type)	35.7	36.0	42.9	1.0	1.6	1.4	30
~	BIO GENE BG 4401NRR**	35.7	47.6		1.0	1.5		29
~	DEKALB DKB44-51*	35.5	49.2	50.8	1.0	1.5	1.3	34
~	UNISOUTH GENETICS USG 7440nRR**	35.1			1.0			29
	HORNBECK HBK 4944CX**	35.0			1.3			39
~	ASGROW AG4902**	34.9	48.2	54.1	1.0	1.5	1.3	31
~	ARMOR 47-G7**	34.8			1.0			33
~	VIGORO BRAND V42N3RR**	34.8			1.0			27
~	HORNBECK HBK R4820	34.4	49.0		1.0	1.5		30

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TABLE 6. 2002 CALDWELL COUNTY FULL SEASON VARIETY TEST

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02	HEIGHT (IN) 2002
~	ASGROW AG4603	33.8			1.0			31
~	CROPLAN GENETICS RC4444**	33.8	46.2		1.0	1.6		30
~	SOUTHERN CROSS SILAS 4.4N, RR**	33.6			1.0			28
~	CROPLAN GENETICS RC4772*	33.5			1.3			34
~	LG SEEDS C4444NRR**	33.5			1.0			31
~	VIGORO BRAND V49N3RR**	33.5			1.3			30
~	UNISOUTH GENETICS USG 7452nRR**	33.3			1.0			29
	CAVERNDALE CF 492	33.3	48.6	**56.0**	1.0	1.5	1.3	23
~	DEKALB DKB40-51*	33.0	38.1		1.0	1.5		32
~	CROW'S C4417R**	33.0	48.4		1.0	1.5		34
~	GATEWAY 4R483**	33.0	47.2		1.0	1.8		35
~	GREAT LAKES GL 4109 RR*	32.9	40.7		1.0	1.3		31
~	SOUTHERN STATES RT-4980	32.8	48.8	52.7	1.0	1.9	1.6	33
~	SOUTHERN STATES RT 4810N**	32.6			1.3			33
~	GARST SEED 4512RR/N**	32.6			1.0			29
~	GOLDEN HARVEST H-4534RR**	32.4	44.5		1.0	1.3		33
~	SOUTHERN CROSS TITUS 4.8N, RR**	32.4	44.5	53.4	1.0	1.8	1.5	35
~	BECK 437NRR**	32.3			1.0			31
~	NK BRAND S40-R9**	32.2			1.0			33
~	CROPLAN GENETICS RC4432	32.1			1.0			34
~	STEYER 4410 RR SCN**	32.1			1.0			30
~	VIGORO BRAND V46N3RR**	32.0			1.0			29
~	DELTA KING 4461 RR	31.9	49.7		1.0	1.4		31
~	GOLDEN HARVEST H-4772RR**	31.7			1.3			30
~	ASGROW AG4201**	31.7			1.0			28
~	STINE S4882-4**	31.4			1.0			30
~	DYNA-GRO 3484N RR**	31.2	41.2		1.0	1.6		34
~	CROW'S C4815R**	31.1			1.0			30
~	DELTA KING 4762 RR**	30.9	44.9		1.3	1.9		36
~	DYNA-GRO 3443N RR**	30.8			1.0			27
~	CROPLAN GENETICS RC4222**	30.7			1.0			28
~	STINE S4202-4**	30.6	44.7		1.0	1.4		28
NS	KS4402sp (high protein variety)	30.4	40.9		1.0	1.4		30
	GATEWAY 493*	30.1	46.2		1.3	1.9		36
~	ARMOR 42-L2**	29.8			1.3			36
~	GARST SEED 4312RR/SB/N*	29.8			1.0			26
~	ARMOR 44-R4**	29.6			1.0			28
~	PIONEER VARIETY 94B74**	29.5			1.0			35
~	ASGROW AG4403*	29.5	45.3	50.3	1.0	1.4	1.3	29
~	UNISOUTH GENETICS USG 7449nRR**	29.4			1.0			31
~	GOLDEN HARVEST H-4850RR**	29.3	43.1		1.0	1.6		34
NS	DAIRYLAND DST4203 (large-seed food type)	29.1	45.8		1.0	1.5		29
~	LG SEEDS C4112NRR**	29.1			1.0			25
~	PIONEER VARIETY 94B13**	29.0			1.0			31
	CAVERNDALE CF 461	28.8	40.7	47.3	1.0	1.8	1.5	36
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	28.7			1.0			27
P	STRESSLAND	28.6	40.1	45.4	1.0	1.9	1.6	34
~	BECK 476NRR**	28.5			1.0			30
~	SOUTHERN STATES RT 4720N**	27.8			1.3			33
~	SOUTHERN STATES RT-4098	27.8	38.0	46.7	1.0	1.9	1.6	30
~	GOLDEN HARVEST H-4368RR**	27.7			1.0			24
~	PIONEER VARIETY 94B23*	27.7	37.8		1.0	2.1		34
~	NK BRAND S46-G2**	27.1	39.3	44.8	1.0	1.5	1.3	36
~	SOUTHERN STATES RT-446N*	26.9	41.4	46.7	1.0	1.5	1.3	29
~	LG SEEDS C4725NRR**	26.8			1.0			28
~	SOUTHERN STATES RT 4502**	26.3			1.0			33
~	DEKALB CX480cRR**	26.3	41.8		1.0	1.8		32
	SOUTHERN CROSS AARON 4.5N, STS**	26.1	36.1	47.7	1.3	1.8	1.5	32
~	STEYER 4700 RR STS SCN**	25.4			1.0			31
NS	KS4302sp (small seeded food variety)	25.3	28.2		1.5	2.0		25
NS	KS4702sp (large seeded variety)	25.1			1.5			28
~	GREAT LAKES GL 4800 RR	25.1	46.6	50.4	1.0	1.9	1.6	34
NS	IA4002 (small seed)	23.1			1.5			31
	SOUTHERN STATES 439	23.0	35.5	46.5	1.0	1.9	1.6	34
P	STRONG	18.2			1.0			20
	GROUP IV AVERAGE	31.3	43.9	49.5	1.1	1.6	1.4	31
	LSD (0.10)	5.1	4.0	3.8	0.2	0.3	0.1	2

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TABLE 6. 2002 CALDWELL COUNTY FULL SEASON VARIETY TEST

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02	HEIGHT (IN) 2002
	LATE (GROUP V)							
	ARMOR 52-C2**	**33.7**			1.5			35
~	NK BRAND S52-U3**	33.3	48.0		2.3	2.5		36
~	PIONEER VARIETY 95B32**	31.7	45.9	51.0	1.5	1.8	1.5	33
~	UNISOUTH GENETICS USG 510nRR**	31.6	50.0	52.9	1.5	1.9	1.6	37
P	DELSOY 5500**	31.5	45.5	51.2	1.3	2.0	1.7	34
P	HOLLADAY	30.9	**51.5**	**58.6**	1.8	2.3	2.0	33
P	HUTCHESON	30.8	44.0	54.2	1.8	2.4	1.9	37
P	KS5502N**	30.8	46.2		1.5	2.0		34
P	ANAND**	30.7	39.2	47.8	1.3	1.6	1.4	31
~	PIONEER VARIETY 95B42*	30.6			1.8			41
~	GATEWAY 5R500	30.5			1.3			33
~	ARMOR 56-J6**	30.1			2.0			41
~	SOUTHERN STATES RT 540N**	30.1			1.5			35
	UNISOUTH GENETICS USG 5601T	30.1			1.5			40
NS	KS5202sp (high protein variety)	29.7	48.5		1.3	1.6		31
~	ASGROW AG5501*	28.8	44.2	52.3	1.3	2.0	2.0	38
~	SOUTHERN STATES RT 5602N**	27.9			1.5			35
~	ARMOR 53-K3**	27.8			1.0			33
~	ASGROW AG5301*	27.6			1.8			37
P	CAVINESS**	27.4	44.9	49.8	1.3	2.3	2.8	36
~	SOUTHERN STATES RT 5302N**	27.0			1.5			39
~	SOUTHERN STATES RT-5001N**	27.0	42.2		1.5	2.0		40
~	CROW'S C5118R**	27.0	43.1		1.5	2.0		37
~	DELTA KING 5366 RR	27.0	42.0		2.5	2.8		40
NS	KS5001sp (small seeded food variety)	26.2			1.0			28
~	VIGORO BRAND V543NRR**	26.0	43.6		1.3	1.9		36
~	GREAT LAKES GL 5319 RR**	25.8	40.4		1.3	1.8		37
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	25.5			1.8			41
~	DELTA KING 5465 RR*	25.2	43.3	50.1	1.5	2.0	1.7	35
~	ARMOR 54-Z4**	24.9			1.3			33
NS	KS5201sp (small seeded variety)	24.8	38.2		2.3	2.9		40
~	UNISOUTH GENETICS USG 540nRR**	20.5	36.4		1.0	2.1		35
	GROUP V AVERAGE	28.5	44.1	52.0	1.5	2.1	1.8	36
	LSD (0.10)	4.3	4.6	3.7	0.4	0.3	0.2	3
	GRAND MEAN	29.7	43.7	49.6	1.2	1.7	1.4	31

~ Roundup Ready variety.

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of much broader market value. Testing novel soybeans will enable producers to assess whether premiums for a given trait offset possible yield lag/drag.

* Resistant to the soybean cyst nematode (Race 3).

** Resistant to the soybean cyst nematode (Race 3 and Race 14).

A Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 7. 2002 CARLISLE COUNTY FULL SEASON VARIETY TEST[A]

	BRAND -- VARIETY	YIELD (BU/AC)[B] 2002	01-02	00-02	LODGING 2002	01-02	00-02
	EARLY (GROUP III)						
~	ARMOR 39-E9**	**50.6**			1.5		
~	DEKALB DKB38-52*	49.8	51.8		2.5	2.0	
~	CROPLAN GENETICS RC3838**	49.5	51.4		1.8	1.5	
~	CROPLAN GENETICS RC3939**	49.4			1.3		
~	DELTA KING 3968 RR*	48.5	**52.8**		1.8	1.5	
~	DELTA KING 3862 RR	47.5	49.0		2.0	1.6	
~	GOLDEN HARVEST H-3945RR**	47.2			1.3		
~	NK BRAND S37-N4**	46.9			2.3		
~	GREAT LAKES GL 3819 RR**	46.8			1.5		
~	PIONEER VARIETY 93B67**	46.8	49.8		1.5	1.5	
~	DELTA KING 3961 RR	46.6	48.2		1.8	1.6	
~	GOLDEN HARVEST H-3983RR	45.3	50.8	**45.2**	1.5	1.6	1.4
~	VIGORO BRAND V382NRR*	44.9			1.8		
~	ASGROW AG3903*	43.6	49.8		2.0	2.1	
~	DEKALB DKB38-51	43.2			1.0		
~	SOUTHERN STATES RT-3975	43.2	46.2	41.8	2.3	2.1	1.8
~	SOUTHERN STATES RT-3799N**	43.2	46.8	43.7	1.3	1.4	1.3
~	EBBERTS 1362RR**	43.0			1.8		
~	SOUTHERN STATES RT 3802N**	42.7			1.8		
~	STINE S3632-4**	42.7	46.9		1.8	1.6	
~	ASGROW AG3703**	42.2			1.0		
~	PIONEER VARIETY 93B68	42.0			1.5		
~	SEED CONSULTANTS SC 9391 RR	41.5			1.0		
~	PIONEER VARIETY 93B72	41.5			1.8		
~	DELTA KING 3964 RR*	41.2	44.3		3.3	2.8	
~	SOUTHERN CROSS SOLOMON 3.8RR	41.2	47.0	42.3	1.5	2.0	1.7
	PIONEER VARIETY 93B87	39.8	47.2		1.5	1.9	
NS	U97-207427 (high protein, high yield)	39.4	40.8	35.8	1.5	1.6	1.4
~	NK BRAND S39-Q4	38.7	46.1		1.0	1.4	
~	EBBERTS 1351RR	38.6			2.5		
NS	PIONEER VARIETY P9305 (tofu type)	36.1	38.9	34.6	1.3	1.6	1.4
~	SOUTHERN CROSS JORDAN 3.6N, RR**	34.5			1.3		
NS	FG 1 (tofu type)	31.9	38.9	36.3	2.8	2.4	1.9
NS	L96-5924 (natto type)	31.5			2.5		
P	STOUT	31.0			1.0		
NS	U96-2831LS (large seed)	30.2			2.8		
NS	U96-1612LS (large seed)	29.7			2.0		
NS	U98-310010 (small seed-lipoxygenase 2 null)	28.1			2.5		
NS	IA3011 (large seed, high protein)	27.9	37.2	32.7	1.8	1.5	1.3
NS	IA3016 (large seed & high protein)	26.8			1.3		
NS	IA3015 (large seed)	25.1			1.3		
NS	IA3006LF (lipoxygenase free, large seed & hp)	23.9			1.3		
NS	FG 3 (tofu type)	21.8			1.8		
NS	IA2040LF (lipoxygenase free, large seed)	17.4			1.8		
	GROUP III AVERAGE	39.2	46.5	39.1	1.7	1.8	1.5
	LSD (0.10)	4.1	3.6	2.4	0.6	0.4	0.3
	MID-SEASON (GROUP IV)						
~	ASGROW AG4201**	**49.5**			2.5		
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	48.6			1.8		
~	CROPLAN GENETICS RC4772*	47.2			3.3		
~	CROPLAN GENETICS RC4222**	46.8			1.5		
~	GARST SEED 4312RR/SB/N*	46.4			1.5		
~	LG SEEDS C4112NRR**	44.7			1.0		
~	BECK 437NRR**	44.6			1.0		
~	UNISOUTH GENETICS USG 7452nRR**	44.3			1.3		
~	VIGORO BRAND V47N3RR**	43.9			1.8		
~	DYNA-GRO 3468N RR**	43.8	40.9	41.6	1.3	1.6	1.4
~	DELTA KING 4763 RR*	43.6	53.9		2.3	3.0	
	CAVERNDALE CF 492	43.4	49.1	**47.8**	1.0	2.6	2.1
~	GOLDEN HARVEST H-4368RR**	43.3			1.5		
~	STINE S4202-4**	43.3	**54.0**		1.5	2.0	
~	GREAT LAKES GL 4109 RR*	43.1	46.8		1.5	2.3	
~	VIGORO BRAND V42N3RR**	42.6			1.3		
~	GATEWAY 4R483**	42.4	50.4		2.0	3.0	
~	STINE S4442-4**	42.3			1.0		

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TABLE 7. 2002 CARLISLE COUNTY FULL SEASON VARIETY TEST[A]

		YIELD (BU/AC)[B]			LODGING		
	BRAND -- VARIETY	2002	01-02	00-02	2002	01-02	00-02
~	PIONEER VARIETY 94B74**	42.2			2.3		
~	ARMOR 47-G7**	42.1			2.0		
~	VIGORO BRAND V49N3RR**	41.8			2.5		
~	NK BRAND S40-R9**	41.7			2.3		
~	LG SEEDS C4725NRR**	41.6			1.0		
~	DELTA KING 4762 RR**	41.6	39.0		2.0	2.1	
~	GARST SEED 4512RR/N**	41.5			1.3		
~	GOLDEN HARVEST H-4850RR**	41.5	46.8		2.3	2.4	
~	ARMOR 44-R4**	41.3			1.5		
~	CROPLAN GENETICS RC4432	41.0			2.0		
~	SEED CONSULTANTS SC 9442 RR**	40.8	46.5		1.5	1.9	
~	DELTA KING 4965 RR*	40.6	42.5		2.0	2.1	
~	PIONEER VARIETY 94B23*	40.5	46.5		2.0	2.4	
~	SOUTHERN CROSS TITUS 4.8N, RR**	40.5	45.0	39.7	2.0	2.4	1.9
~	HORNBECK HBK R4820	40.2	48.2		1.5	2.0	
~	CROW'S C4417R**	40.1	50.8		1.0	1.8	
~	NK BRAND S46-G2**	40.0	41.8	39.8	1.8	2.0	1.7
~	CROW'S C4815R**	39.9			1.8		
~	GREAT LAKES GL 4409 RR**	39.8			1.5		
~	DYNA-GRO 3484N RR**	39.8	45.2		2.0	1.5	
~	ASGROW AG4403*	39.8	48.3	44.8	1.5	1.9	1.6
~	SOUTHERN STATES RT-4098	39.8	47.0	44.5	1.8	2.4	1.9
~	GOLDEN HARVEST H-4772RR**	39.4			1.3		
~	SOUTHERN STATES RT 4720N**	39.2			2.5		
~	STEYER 4410 RR SCN**	39.2			1.0		
~	CROPLAN GENETICS RC4444**	39.2	48.9		1.8	1.8	
~	DELTA KING 4868 RR	39.2	47.9	46.3	1.8	2.4	1.9
~	VIGORO BRAND V46N3RR**	39.1			1.5		
~	SOUTHERN STATES RT-446N*	39.0	45.4	42.1	1.5	2.0	1.7
P	STRESSLAND	39.0	45.4	41.1	2.3	3.0	2.3
~	ASGROW AG4603	38.9			1.5		
~	UNISOUTH GENETICS USG 7440nRR**	38.8			1.8		
~	SOUTHERN CROSS SILAS 4.4N, RR**	38.5			1.5		
	SOUTHERN CROSS AARON 4.5N, STS**	38.4	46.7	43.5	1.5	2.6	2.1
~	LG SEEDS C4444NRR**	38.2			1.3		
NS	DAIRYLAND DST4203 (large-seed food type)	38.1	47.3		1.3	1.9	
~	SOUTHERN STATES RT 4502**	38.0			1.5		
~	PIONEER VARIETY 94B13**	37.7			1.5		
~	DYNA-GRO 3443N RR**	37.2			1.5		
NS	L96-5104 (natto type)	37.1	37.4	38.7	1.8	2.8	2.2
~	SOUTHERN STATES RT-4980	36.7	44.2	42.6	2.6	2.5	2.0
~	SOUTHERN STATES RT 4810N**	36.6			2.3		
~	STINE S4882-4**	36.6			1.5		
~	DEKALB DKB44-51*	36.6	45.5	42.2	1.3	1.8	1.5
~	BIO GENE BG 4401NRR**	36.5	46.0		1.5	1.8	
~	DEKALB CX480cRR**	36.4	42.7		1.8	2.9	
~	STEYER 4700 RR STS SCN**	36.4			2.8		
~	ASGROW AG4902**	36.2	44.0	40.0	2.3	2.6	2.1
NS	KS4702sp (large seeded variety)	36.1			3.0		
~	UNISOUTH GENETICS USG 7449nRR**	35.8			3.0		
~	DEKALB DKB40-51*	35.6	45.7		1.3	1.3	
	GATEWAY 493*	34.8	41.2		1.5	2.8	
~	DELTA KING 4461 RR	34.7	43.3		1.3	1.8	
~	GOLDEN HARVEST H-4534RR**	34.5	42.3		1.3	1.8	
~	ARMOR 42-L2**	33.6			2.5		
~	BECK 476NRR**	33.3			2.3		
	HORNBECK HBK 4944CX**	33.3			2.8		
	CAVERNDALE CF 461	33.1	41.8	41.5	2.0	2.9	2.3
	SOUTHERN STATES 439	32.5	38.0	42.4	1.5	2.1	1.8
~	GREAT LAKES GL 4800 RR	32.3	41.2	44.4	1.8	2.5	2.0
~	PIONEER VARIETY 94B73	32.1	43.2		1.3	1.8	
NS	KS4402sp (high protein variety)	32.0	34.4		1.0	1.3	
P	STRONG	28.7			1.0		
NS	IA4002 (small seed)	27.1			3.5		
NS	KS4302sp (small seeded food variety)	26.2	28.7		2.0	3.5	
	GROUP IV AVERAGE	39.1	44.6	42.5	1.8	2.2	1.9
	LSD (0.10)	5.7	3.9	3.4	0.6	0.6	0.4

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TABLE 7. 2002 CARLISLE COUNTY FULL SEASON VARIETY TEST[A]

		YIELD (BU/AC)[B]			LODGING		
	BRAND -- VARIETY	2002	01-02	00-02	2002	01-02	00-02
	LATE (GROUP V)						
~	ARMOR 56-J6**	**45.9**			3.0		
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	45.2			2.5		
P	ANAND**	45.1	46.3	42.8	1.3	1.3	1.2
~	ARMOR 54-Z4**	45.0			2.0		
	UNISOUTH GENETICS USG 5601T	44.1			2.3		
~	PIONEER VARIETY 95B32**	44.0	45.6	**50.8**	2.0	2.4	1.9
P	DELSOY 5500**	43.5	47.6	46.8	2.0	2.4	1.9
P	KS5502N**	43.1	42.7		1.5	1.3	
~	ARMOR 53-K3**	43.0			1.8		
~	SOUTHERN STATES RT 540N**	42.9			1.8		
~	SOUTHERN STATES RT-5001N**	42.6	39.8		2.0	2.5	
~	DELTA KING 5366 RR	42.4	44.8		3.3	3.4	
~	DELTA KING 5465 RR*	42.4	44.9	43.9	2.3	2.6	2.1
~	NK BRAND S52-U3**	41.5	**47.8**		2.3	2.6	
~	GATEWAY 5R500	41.2			2.3		
~	ASGROW AG5301*	40.4			2.0		
	ARMOR 52-C2**	40.1			1.5		
~	ASGROW AG5501*	40.1	44.5	44.4	1.8	2.1	1.8
~	GREAT LAKES GL 5319 RR**	39.9	44.6		2.0	2.3	
~	VIGORO BRAND V543NRR**	39.6	44.0		1.8	2.3	
~	SOUTHERN STATES RT 5602N**	39.2			2.0		
P	CAVINESS**	39.1	42.4	43.6	3.0	3.5	2.7
~	UNISOUTH GENETICS USG 510nRR**	38.6	40.9	42.3	2.0	2.1	1.8
P	HOLLADAY	38.2	46.1	43.4	1.5	2.9	2.3
~	CROW'S C5118R**	37.8	42.1		1.8	2.1	
~	UNISOUTH GENETICS USG 540nRR**	37.1	39.0		2.3	2.5	
~	PIONEER VARIETY 95B42*	36.2			1.8		
P	HUTCHESON	36.0	46.6	47.0	1.8	2.9	2.3
~	SOUTHERN STATES RT 5302N**	35.3			1.8		
NS	KS5202sp (high protein variety)	33.5	42.0		1.0	2.4	
NS	KS5201sp (small seeded variety)	28.5	32.4		2.8	3.4	
NS	KS5001sp (small seeded food variety)	28.5			1.0		
	GROUP V AVERAGE	40.0	43.4	45.0	2.0	2.5	2.0
	LSD (0.10)	3.7	4.2	4.0	0.5	0.6	0.4
	GRAND MEAN	39.3	44.8	42.4	1.8	2.2	1.8

~ Roundup Ready variety.

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of much broader market value. Testing novel soybeans will enable producers to assess whether premiums for a given trait offset possible yield lag/drag.

* Resistant to the soybean cyst nematode (Race 3).

** Resistant to the soybean cyst nematode (Race 3 and Race 14).

A 2002 and 2001 data are from Carlisle County, and the 2000 data are from Calloway County.

B Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 8. 2002 UNION COUNTY FULL SEASON VARIETY TEST

	BRAND -- VARIETY		YIELD (BU/AC)[A] 2002[B]	01-02	00-02	LODGING 2002	01-02	00-02
	EARLY (GROUP III)							
~	GOLDEN HARVEST H-3945RR**		**45.0**			1.0		
~	NK BRAND S39-Q4		42.1	50.6		1.0	1.5	
~	ARMOR 39-E9**		41.7			1.0		
	PIONEER VARIETY 93B87		41.6	**52.8**		1.3	1.4	
~	PIONEER VARIETY 93B67**		41.5	51.3		1.0	1.6	
~	NK BRAND S37-N4**		41.0			1.0		
~	DELTA KING 3862 RR		40.1	48.2		1.0	1.6	
~	ASGROW AG3903*		37.9	51.0		1.0	1.8	
~	ASGROW AG3703**		37.5			1.0		
~	SOUTHERN STATES RT-3975		37.5	46.5	46.7	1.0	1.5	1.5
~	GREAT LAKES GL 3819 RR**		37.3			1.0		
~	CROPLAN GENETICS RC3939**		37.0			1.0		
~	SEED CONSULTANTS SC 9391 RR		36.9			1.0		
~	DELTA KING 3968 RR*		36.8	46.2		1.0	1.0	
~	SOUTHERN STATES RT-3799N**		35.8	46.3	45.8	1.0	1.5	1.4
P	STOUT		35.3			1.0		
~	PIONEER VARIETY 93B68		34.3			1.0		
~	GOLDEN HARVEST H-3983RR		34.0	46.9	**48.8**	1.0	1.4	1.3
~	DEKALB DKB38-52*		33.5	47.0		1.0	1.4	
~	DELTA KING 3964 RR*		33.5	45.3		1.5	2.0	
~	SOUTHERN CROSS JORDAN 3.6N, RR**		33.2			1.0		
~	STINE S3632-4**		33.2	47.2		1.0	1.1	
~	CROPLAN GENETICS RC3838**		31.1	46.0		1.0	1.6	
~	VIGORO BRAND V382NRR*		31.0			1.0		
~	DELTA KING 3961 RR		30.7	43.6		1.0	1.4	
~	SOUTHERN STATES RT 3802N**		30.5			1.0		
NS	IA3016 (large seed & high protein)	LS	30.5			1.3		
~	EBBERTS 1362RR**		29.6			1.0		
NS	IA3015 (large seed)		29.5			1.5		
~	DEKALB DKB38-51		28.9			1.0		
~	EBBERTS 1351RR		28.9			1.3		
~	PIONEER VARIETY 93B72		28.1			1.3		
NS	L96-5924 (natto type)		28.0			1.0		
NS	U96-2831LS (large seed)		27.0			1.0		
NS	U96-1612LS (large seed)	MS	26.7			1.0		
NS	U97-207427 (high protein, high yield)	LS	26.4	39.1	44.2	1.0	1.5	1.6
NS	FG 1 (tofu type)	LS	26.3	37.7	38.1	1.0	1.6	1.4
~	SOUTHERN CROSS SOLOMON 3.8RR		25.8	39.7	42.0	1.0	1.5	1.4
NS	IA3006LF (lipoxygenase free, large seed & hp)	HS	22.0			1.0		
NS	IA3011 (large seed, high protein)	LS	21.6	32.0	35.1	1.0	1.0	1.0
NS	FG 3 (tofu type)	MS	17.3			1.0		
NS	U98-310010 (small seed-lipoxygenase 2 null)	HS	16.4			1.0		
NS	PIONEER VARIETY P9305 (tofu type)	HS	15.7	34.6	36.9	1.0	1.4	1.3
NS	IA2040LF (lipoxygenase free, large seed)	MS	14.4			1.0		
	GROUP III AVERAGE		31.7	44.8	42.2	1.1	1.5	1.4
	LSD (0.10)		7.0	4.8	4.4	0.2	0.4	0.3
	MID-SEASON (GROUP IV)							
~	SOUTHERN CROSS MICHAEL 4.2N, RR**		**51.1**			1.0		
~	DELTA KING 4763 RR*		49.6	**56.9**		1.5	2.0	
~	UNISOUTH GENETICS USG 7449nRR**		47.5			2.0		
~	GREAT LAKES GL 4109 RR*		47.1	51.9		1.3	2.0	
~	VIGORO BRAND V47N3RR**		47.1			1.3		
~	VIGORO BRAND V49N3RR**		46.7			1.3		
~	PIONEER VARIETY 94B74**		46.7			1.8		
~	STINE S4442-4**		46.1			1.0		
~	LG SEEDS C4725NRR**		45.9			1.0		
	GATEWAY 493*		45.6	49.2		1.5	2.3	
~	LG SEEDS C4112NRR**		45.0			1.5		
~	NK BRAND S40-R9**		44.8			1.3		
~	NK BRAND S46-G2**		44.8	49.5	**48.9**	1.5	2.4	2.3
~	STEYER 4700 RR STS SCN**		44.3			1.5		
~	CROPLAN GENETICS RC4444**		44.3	50.3		1.3	1.9	
~	VIGORO BRAND V42N3RR**		44.2			1.3		
~	STINE S4202-4**		44.2	53.7		1.0	1.4	
~	DELTA KING 4965 RR*		43.9	46.4		1.0	2.0	

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TABLE 8. 2002 UNION COUNTY FULL SEASON VARIETY TEST

		YIELD (BU/AC)[A]			LODGING		
	BRAND -- VARIETY	2002[B]	01-02	00-02	2002	01-02	00-02
~	DELTA KING 4762 RR**	43.9	44.0		1.5	2.0	
~	SOUTHERN STATES RT-446N*	43.3	47.8	48.0	1.3	1.9	1.9
	HORNBECK HBK 4944CX**	43.2			1.8		
~	PIONEER VARIETY 94B23*	42.8	52.4		1.3	2.3	
~	SOUTHERN CROSS TITUS 4.8N, RR**	41.7	49.8	47.5	1.8	2.4	2.2
~	CROW'S C4815R**	41.6			1.3		
~	GOLDEN HARVEST H-4368RR**	41.3			1.0		
~	DYNA-GRO 3468N RR**	41.3	39.7	43.6	1.0	1.8	1.8
~	ASGROW AG4201**	41.1			1.5		
~	DEKALB CX480cRR**	41.0	49.1		2.0	2.5	
~	BECK 476NRR**	40.7			1.5		
~	ARMOR 47-G7**	40.4			1.0		
~	CROPLAN GENETICS RC4772*	40.3			1.5		
~	ASGROW AG4603	39.9			1.0		
~	GOLDEN HARVEST H-4772RR**	39.8			1.3		
NS	DAIRYLAND DST4203 (large-seed food type)	39.6	48.4		1.3	1.8	
~	SEED CONSULTANTS SC 9442 RR**	39.6	47.8		1.3	1.9	
~	GARST SEED 4312RR/SB/N*	39.5			1.3		
~	CROPLAN GENETICS RC4222**	39.3			1.0		
~	SOUTHERN STATES RT 4810N**	39.2			1.5		
~	STINE S4882-4**	39.0			1.5		
~	VIGORO BRAND V46N3RR**	39.0			1.0		
~	BECK 437NRR**	38.8			1.3		
~	CROPLAN GENETICS RC4432	38.3			1.3		
NS	KS4702sp (large seeded variety)	38.3			2.0		
~	GATEWAY 4R483**	38.3	48.4		1.8	2.4	
~	GARST SEED 4512RR/N**	37.9			1.5		
~	ASGROW AG4902**	37.4	47.3	48.8	1.0	1.8	1.8
~	GREAT LAKES GL 4800 RR	37.2	45.5	45.4	1.8	2.4	2.2
~	UNISOUTH GENETICS USG 7452nRR**	37.0			1.0		
~	BIO GENE BG 4401NRR**	36.4	48.1		1.0	1.9	
~	SOUTHERN STATES RT 4502**	35.9			1.0		
~	DYNA-GRO 3484N RR**	35.5	44.8		1.8	2.1	
	SOUTHERN CROSS AARON 4.5N, STS**	35.5	43.7	45.4	1.5	2.5	2.3
~	ASGROW AG4403*	35.4	44.6	45.2	1.3	2.1	1.8
~	DELTA KING 4868 RR	35.0	44.3	46.6	1.0	1.9	1.9
~	ARMOR 42-L2**	34.9			2.0		
~	DELTA KING 4461 RR	34.7	46.0		1.0	1.6	
~	DEKALB DKB40-51*	34.6	43.6		1.0	1.9	
~	STEYER 4410 RR SCN**	34.5			1.3		
~	SOUTHERN STATES RT 4720N**	34.3			1.3		
~	DEKALB DKB44-51*	34.2	45.2	45.2	1.0	1.5	1.6
~	HORNBECK HBK R4820	33.9	45.4		1.0	1.5	
~	LG SEEDS C4444NRR**	33.6			1.0		
~	ARMOR 44-R4**	33.5			1.0		
~	SOUTHERN STATES RT-4980	33.4	42.9	41.0	1.0	2.1	1.9
~	UNISOUTH GENETICS USG 7440nRR**	33.3			1.0		
~	GOLDEN HARVEST H-4534RR**	33.2	44.3		1.0	1.5	
P	STRESSLAND	32.7	41.5	44.7	1.3	2.5	2.2
~	PIONEER VARIETY 94B13**	32.3			1.0		
~	GREAT LAKES GL 4409 RR**	32.2			1.3		
~	SOUTHERN CROSS SILAS 4.4N, RR**	32.0			1.3		
~	DYNA-GRO 3443N RR**	31.4			1.0		
~	PIONEER VARIETY 94B73	31.3	42.3		1.3	2.4	
NS	KS4402sp (high protein variety)	31.2	34.5		1.0	1.5	
~	SOUTHERN STATES RT-4098	30.9	40.1	41.7	1.3	2.3	2.2
~	CROW'S C4417R**	30.6	44.5		1.0	1.8	
~	GOLDEN HARVEST H-4850RR**	30.0	42.8		1.5	2.1	
	CAVERNDALE CF 492	28.9	40.9	43.6	1.0	1.6	1.7
P	STRONG	28.0			1.0		
NS	KS4302sp (small seeded food variety)	27.0	25.7		1.3	2.3	
NS	L96-5104 (natto type)	26.9	36.2	40.0	1.0	2.0	2.1
	CAVERNDALE CF 461	26.6	40.1	40.0	2.0	2.9	2.4
NS	IA4002 (small seed)	25.7			1.8		
	SOUTHERN STATES 439	24.5	37.7	39.3	1.5	2.6	2.3
	GROUP IV AVERAGE	38.0	44.9	44.4	1.3	2.0	2.0
	LSD (0.10)	6.2	3.8	4.1	0.4	0.4	0.4

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TABLE 8. 2002 UNION COUNTY FULL SEASON VARIETY TEST

		YIELD (BU/AC)[A]			LODGING		
	BRAND -- VARIETY	2002[B]	01-02	00-02	2002	01-02	00-02
	LATE (GROUP V)						
P	CAVINESS**	**51.6**	48.8	47.3	3.3	3.9	3.8
~	ARMOR 53-K3**	48.6			1.8		
~	ARMOR 56-J6**	47.6			2.5		
~	NK BRAND S52-U3**	47.3	**52.2**		2.0	2.9	
~	DELTA KING 5465 RR*	47.0	48.0	**47.5**	1.5	2.1	1.9
~	SOUTHERN STATES RT 5602N**	46.7			2.3		
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	45.2			2.0		
P	ANAND**	45.2	49.4	45.6	1.5	2.0	1.8
	UNISOUTH GENETICS USG 5601T	45.1			2.0		
P	DELSOY 5500**	45.0	47.7	47.1	1.8	2.3	2.3
~	SOUTHERN STATES RT 540N**	44.9			2.0		
~	DELTA KING 5366 RR	44.4	45.4		2.5	3.3	
~	VIGORO BRAND V543NRR**	44.3	46.1		1.8	2.1	
~	ASGROW AG5301*	44.2			2.0		
~	UNISOUTH GENETICS USG 540nRR**	44.1	46.7		2.0	2.3	
~	GREAT LAKES GL 5319 RR**	43.7	48.3		2.0	2.3	
~	SOUTHERN STATES RT 5302N**	43.5			2.0		
~	UNISOUTH GENETICS USG 510nRR**	43.2	44.9	44.4	2.0	2.4	2.4
~	ASGROW AG5501*	42.5	45.7	45.7	1.8	2.3	2.0
~	ARMOR 54-Z4**	42.1			1.8		
~	SOUTHERN STATES RT-5001N**	41.8	41.9		2.0	2.4	
~	CROW'S C5118R**	41.2	43.7		1.8	2.0	
P	KS5502N**	41.0	42.3		2.3	3.1	
	ARMOR 52-C2**	39.6			2.3		
~	PIONEER VARIETY 95B32**	39.5	44.2	42.1	1.8	2.3	2.1
~	PIONEER VARIETY 95B42*	37.3			2.0		
P	HUTCHESON	36.5	41.0	44.3	1.3	2.1	2.4
NS	KS5202sp (high protein variety)	34.5	42.3		1.5	2.3	
~	GATEWAY 5R500	32.7			1.3		
P	HOLLADAY	32.6	42.9	45.0	1.0	2.3	2.4
NS	KS5001sp (small seeded food variety)	28.3			1.0		
NS	KS5201sp (small seeded variety)	26.4	31.6		2.0	3.3	
	GROUP V AVERAGE	41.8	44.9	45.4	1.9	2.5	2.3
	LSD (0.10)	5.8	3.4	3.3	0.4	0.3	0.3
	GRAND MEAN	37.0	44.9	44.2	1.4	2.0	2.0

~ Roundup Ready variety.

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of much broader market value. Testing novel soybeans will enable producers to assess whether premiums for a given trait offset possible yield lag/drag.

* Resistant to the soybean cyst nematode (Race 3).

** Resistant to the soybean cyst nematode (Race 3 and Race 14).

A Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

B 2002 yield data prefix: LS = light shattering, MS = moderate shattering, HS = heavy shattering.

TABLE 9. 2002 KENTUCKY SOYBEAN PERFORMANCE TEST PROTEIN AND OIL COMPOSITION[A]

	VARIETY/BRAND	PROTEIN%	OIL%		VARIETY/BRAND	PROTEIN%	OIL%
P	ANAND**	33.9	17.8	~	DELTA KING 3961 RR	35.7	17.1
~	ARMOR 39-E9**	31.8	18.5	~	DELTA KING 3964 RR*	32.5	17.3
~	ARMOR 42-L2**	33.6	16.9	~	DELTA KING 3968 RR*	33.6	17.9
~	ARMOR 44-R4**	32.1	18.4	~	DELTA KING 4461 RR	32.0	19.5
~	ARMOR 47-G7**	34.0	17.9	~	DELTA KING 4762 RR**	34.7	18.2
	ARMOR 52-C2**	32.7	18.0	~	DELTA KING 4763 RR*	34.3	17.1
~	ARMOR 53-K3**	33.0	18.3	~	DELTA KING 4868 RR	33.2	17.9
~	ARMOR 54-Z4**	32.8	18.7	~	DELTA KING 4965 RR*	33.9	18.3
~	ARMOR 56-J6**	33.6	17.8	~	DELTA KING 5366 RR	33.3	18.1
~	ASGROW AG3703**	34.7	17.4	~	DELTA KING 5465 RR*	33.3	17.9
~	ASGROW AG3903*	32.9	18.0	~	DYNA-GRO 3443N RR**	31.4	19.8
~	ASGROW AG4201**	33.9	18.1	~	DYNA-GRO 3468N RR**	32.9	19.3
~	ASGROW AG4403*	31.4	19.1	~	DYNA-GRO 3484N RR**	34.0	17.9
~	ASGROW AG4603	32.5	18.1	~	EBBERTS 1351RR	34.5	15.1
~	ASGROW AG4902**	34.8	17.7	~	EBBERTS 1362RR**	30.5	18.3
~	ASGROW AG5301*	33.5	18.1	NS	FG 1 (tofu type)	36.3	17.2
~	ASGROW AG5501*	33.1	18.1	NS	FG 3 (tofu type)	40.2	15.8
~	BECK 437NRR**	32.7	19.4	~	GARST SEED 4312RR/SB/N*	32.8	17.7
~	BECK 476NRR**	33.6	18.5	~	GARST SEED 4512RR/N**	32.6	19.3
~	BIO GENE BG 4401NRR**	32.2	19.3		GATEWAY 493*	33.1	18.4
	CAVERNDALE CF 461	34.2	17.5	~	GATEWAY 4R483**	33.2	18.1
	CAVERNDALE CF 492	33.1	18.7	~	GATEWAY 5R500	32.0	19.5
P	CAVINESS**	34.2	17.7	~	GOLDEN HARVEST H-3945RR**	32.2	18.0
~	CROPLAN GENETICS RC3838**	32.6	17.2	~	GOLDEN HARVEST H-3983RR	33.2	16.9
~	CROPLAN GENETICS RC3939**	33.2	17.9	~	GOLDEN HARVEST H-4368RR**	32.6	18.6
~	CROPLAN GENETICS RC4222**	33.2	17.4	~	GOLDEN HARVEST H-4534RR**	31.1	19.4
~	CROPLAN GENETICS RC4432	33.6	18.4	~	GOLDEN HARVEST H-4772RR**	33.0	18.7
~	CROPLAN GENETICS RC4444**	31.8	19.4	~	GOLDEN HARVEST H-4850RR**	33.8	18.0
~	CROPLAN GENETICS RC4772*	32.5	18.6	~	GREAT LAKES GL 3819 RR**	31.8	18.3
~	CROW'S C4417R**	30.9	19.1	~	GREAT LAKES GL 4109 RR*	31.9	18.3
~	CROW'S C4815R**	30.6	18.4	~	GREAT LAKES GL 4409 RR**	31.3	18.7
~	CROW'S C5118R**	32.7	18.3	~	GREAT LAKES GL 4800 RR	32.6	18.6
NS	DAIRYLAND DST4203 (large-seed food type)	35.0	18.0	~	GREAT LAKES GL 5319 RR**	34.6	17.6
~	DEKALB CX480cRR**	33.7	17.9	P	HOLLADAY	32.3	18.2
~	DEKALB DKB38-51	32.7	18.7		HORNBECK HBK 4944CX**	31.2	18.6
~	DEKALB DKB38-52*	32.5	18.3	~	HORNBECK HBK R4820	32.9	18.1
~	DEKALB DKB40-51*	32.7	19.1	P	HUTCHESON	32.7	18.8
~	DEKALB DKB44-51*	31.7	19.5	NS	IA2040LF (lipoxygenase free, large seed)	37.7	15.8
P	DELSOY 5500**	33.7	18.8	NS	IA3006LF (lipoxygenase free, large seed & hp)	38.2	15.2
~	DELTA KING 3862 RR	33.5	17.4	NS	IA3011 (large seed, high protein)	39.5	16.5

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TABLE 9. 2002 KENTUCKY SOYBEAN PERFORMANCE TEST PROTEIN AND OIL COMPOSITION[A]

	VARIETY/BRAND	PROTEIN%	OIL%		VARIETY/BRAND	PROTEIN%	OIL%
NS	IA3015 (large seed)	38.2	16.4	~	SOUTHERN STATES RT-5001N**	33.5	18.5
NS	IA3016 (large seed & high protein)	38.3	16.1		SOUTHERN STATES 439	34.7	17.0
NS	IA4002 (small seed)	36.0	15.8	~	SOUTHERN STATES RT 3802N**	32.6	18.1
NS	KS4302sp (small seeded food variety)	35.0	16.7	~	SOUTHERN STATES RT 4502**	33.2	18.7
NS	KS4402sp (high protein variety)	38.2	16.1	~	SOUTHERN STATES RT 4720N**	33.8	17.9
NS	KS4702sp (large seeded variety)	34.9	17.4	~	SOUTHERN STATES RT 4810N**	34.5	17.9
NS	KS5001sp (small seeded food variety)	36.0	17.3	~	SOUTHERN STATES RT 5302N**	33.5	18.5
NS	KS5201sp (small seeded variety)	34.0	18.2	~	SOUTHERN STATES RT 540N**	33.3	18.4
NS	KS5202sp (high protein variety)	36.4	19.9	~	SOUTHERN STATES RT 5602N**	34.0	18.4
P	KS5502N**	32.5	17.1	~	SOUTHERN STATES RT-3799N**	32.9	17.7
NS	L96-5104 (natto type)	36.9	16.4	~	SOUTHERN STATES RT-3975	34.3	17.4
NS	L96-5924 (natto type)	35.1	16.9	~	SOUTHERN STATES RT-4098	33.6	18.1
~	LG SEEDS C4112NRR**	32.2	18.5	~	SOUTHERN STATES RT-446N*	34.3	18.9
~	LG SEEDS C4444NRR**	32.1	18.3	~	SOUTHERN STATES RT-4980	32.5	18.4
~	LG SEEDS C4725NRR**	33.0	18.1	~	STEYER 4410 RR SCN**	32.3	19.4
~	NK BRAND S37-N4**	32.8	17.8	~	STEYER 4700 RR STS SCN**	34.1	18.1
~	NK BRAND S39-Q4	33.5	17.2	~	STINE S3632-4**	30.7	17.8
~	NK BRAND S40-R9**	33.0	17.2	~	STINE S4202-4**	33.4	17.5
~	NK BRAND S46-G2**	33.5	18.1	~	STINE S4442-4**	32.9	17.9
~	NK BRAND S52-U3**	31.4	18.9	~	STINE S4882-4**	33.9	18.3
~	PIONEER VARIETY 93B67**	34.1	16.7	P	STOUT	31.8	18.0
~	PIONEER VARIETY 93B68	32.9	17.6	P	STRESSLAND	34.1	17.5
~	PIONEER VARIETY 93B72	31.3	17.9	P	STRONG	35.4	17.7
	PIONEER VARIETY 93B87	32.1	18.0	NS	U96-1612LS (large seed)	37.2	16.3
~	PIONEER VARIETY 94B13**	32.3	17.7	NS	U96-2831LS (large seed)	38.6	17.4
~	PIONEER VARIETY 94B23*	33.8	18.2	NS	U97-207427 (high protein, high yield)	35.9	17.6
~	PIONEER VARIETY 94B73	33.0	17.7	NS	U98-310010 (small seed-lipoxygenase 2 null)	32.7	15.8
~	PIONEER VARIETY 94B74**	33.8	18.1	~	UNISOUTH GENETICS USG 510nRR**	32.7	18.1
~	PIONEER VARIETY 95B32**	33.3	17.1	~	UNISOUTH GENETICS USG 540nRR**	33.4	18.1
~	PIONEER VARIETY 95B42*	33.6	18.2		UNISOUTH GENETICS USG 5601T	33.2	18.1
NS	PIONEER VARIETY P9305 (tofu type)	35.3	17.5	~	UNISOUTH GENETICS USG 7440nRR**	32.6	19.4
~	SEED CONSULTANTS SC 9391 RR	32.4	18.6	~	UNISOUTH GENETICS USG 7449nRR**	32.9	19.0
~	SEED CONSULTANTS SC 9442 RR**	32.2	19.5	~	UNISOUTH GENETICS USG 7452nRR**	32.1	19.9
	SOUTHERN CROSS AARON 4.5N, STS**	34.5	17.4	~	VIGORO BRAND V382NRR*	32.1	17.8
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	34.0	18.3	~	VIGORO BRAND V42N3RR**	32.4	18.2
~	SOUTHERN CROSS JORDAN 3.6N, RR**	33.2	18.1	~	VIGORO BRAND V46N3RR**	32.7	18.5
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	32.2	18.5	~	VIGORO BRAND V47N3RR**	34.0	17.9
~	SOUTHERN CROSS SILAS 4.4N, RR**	31.3	19.1	~	VIGORO BRAND V49N3RR**	33.7	18.4
~	SOUTHERN CROSS SOLOMON 3.8RR	33.3	17.1	~	VIGORO BRAND V543NRR**	33.8	17.5
~	SOUTHERN CROSS TITUS 4.8N, RR**	33.7	18.3				

[A] Variety protein and oil concentration were determined at the Union County location (all test locations for NS entries) and expressed on the basis of 13% moisture.
The mean protein concentration was 33.5%, and the mean oil concentration was 17.9%.
These data were provided by the Kentucky Corn Grain Laboratory using near-infrared (NIR) analysis.

~ Roundup Ready variety.

* Resistant to the soybean cyst nematode (Race 3).

** Resistant to the soybean cyst nematode (Race 3 and Race 14).

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties.

Notes

Notes

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The following pages are not part of the printed PR-469 publication.

The selection key and tables "4A-4I" are a web site feature.

The nomination form, cover letter and instructions are for seed companies and others interested in entering varieties in the KY 2003 Soybean Performance Tests.

Questions or comments?

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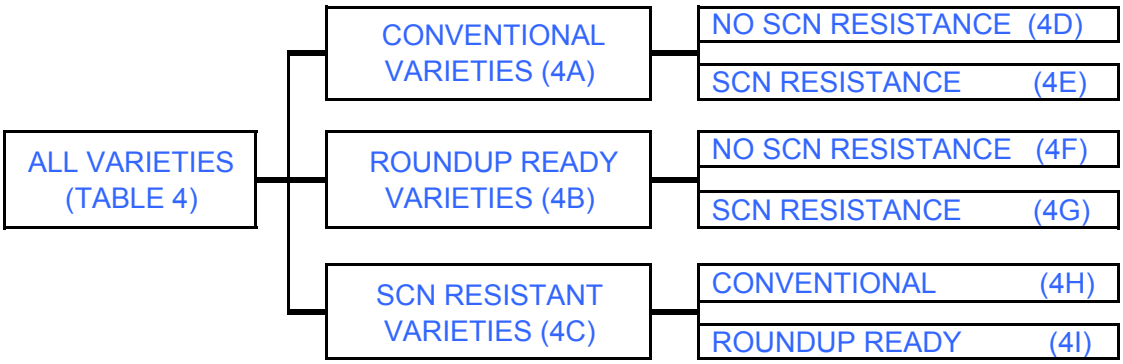
SELECTION KEY TO CREATE SUBSETS OF TABLE 4
(2002 SUMMARY 0F THE CONVENTIONAL TEST TABLES 5-8)



Selected varieties found by using this key should also be found in the summary table containing all varieties (table 4) to observe potential yield loss by the chosen key restraints. The selected variety can be easily located in table 4 by finding it's 2002 yield in the appropriate maturity group.

BACK TO
LIST OF TABLES
PAGE 1

This page and the following pages are not part of the printed PR-451 publication. The selection key and tables "4A-4I" are a web site feature which provides alternate views of the Summary Table 4.

TABLE 4. 2002 SUMMARY: VARIETY TEST TABLES 5-8

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
	EARLY (GROUP III)						
~	GOLDEN HARVEST H-3945RR**	**51.1**			1.6		
~	CROPLAN GENETICS RC3939**	47.4			1.6		
~	GREAT LAKES GL 3819 RR**	46.9			1.5		
~	ARMOR 39-E9**	46.8			1.6		
~	DELTA KING 3968 RR*	46.3	**52.1**		1.6	1.5	
~	DELTA KING 3862 RR	45.4	49.6		1.9	1.9	
~	SEED CONSULTANTS SC 9391 RR	45.3			1.4		
~	NK BRAND S39-Q4	44.3	50.9		1.5	1.7	
~	NK BRAND S37-N4**	43.8			2.3		
~	PIONEER VARIETY 93B67**	43.8	48.7		1.6	1.8	
~	DEKALB DKB38-52*	43.5	50.1		1.8	1.7	
~	SOUTHERN STATES RT-3799N**	43.3	48.6	51.1	1.6	1.7	1.6
~	ASGROW AG3903*	43.2	50.9		2.1	2.2	
~	CROPLAN GENETICS RC3838**	42.9	49.9		1.8	1.8	
	PIONEER VARIETY 93B87	42.6	51.3		2.2	2.1	
~	DEKALB DKB38-51	42.5			1.4		
~	DELTA KING 3961 RR	42.3	48.5		1.9	1.8	
~	GOLDEN HARVEST H-3983RR	42.2	51.3	**54.0**	1.6	1.6	1.6
~	VIGORO BRAND V382NRR*	42.0			1.8		
~	ASGROW AG3703**	41.8			1.4		
~	SOUTHERN STATES RT-3975	40.8	45.8	48.2	2.1	2.1	1.9
~	EBBERTS 1362RR**	40.8			1.8		
~	STINE S3632-4**	40.6	48.1		1.7	1.6	
~	DELTA KING 3964 RR*	39.3	47.2		2.3	2.4	
~	SOUTHERN CROSS JORDAN 3.6N, RR**	39.0			1.6		
~	PIONEER VARIETY 93B68	38.6			1.9		
~	SOUTHERN STATES RT 3802N**	38.4			1.8		
~	SOUTHERN CROSS SOLOMON 3.8RR	37.4	45.7	50.0	1.8	2.0	1.9
~	PIONEER VARIETY 93B72	36.3			2.2		
~	EBBERTS 1351RR	35.0			2.3		
NS	U97-207427 (high protein, high yield)	34.4	39.7	43.9	1.9	2.0	1.9
P	STOUT	32.7			1.3		
NS	U96-1612LS (large seed)	30.5			2.0		
NS	FG 1 (tofu type)	29.8	39.2	43.4	2.2	2.3	2.0
NS	PIONEER VARIETY P9305 (tofu type)	29.1	39.3	42.8	1.6	1.7	1.6
NS	U96-2831LS (large seed)	28.6			2.5		
NS	IA3016 (large seed & high protein)	27.5			1.9		
NS	IA3011 (large seed, high protein)	26.4	35.6	39.6	2.1	1.7	1.7
NS	L96-5924 (natto type)	26.4			2.4		
NS	U98-310010 (small seed-lipoxygenase 2 null)	25.4			2.1		
NS	IA3006LF (lipoxygenase free, large seed & hp)	25.1			1.5		
NS	IA3015 (large seed)	24.5			2.2		
NS	FG 3 (tofu type)	20.3			1.9		
NS	IA2040LF (lipoxygenase free, large seed)	14.8			1.6		
	GROUP III AVERAGE	37.5	47.0	46.6	1.8	1.9	1.8
	LSD (0.10)	2.8	2.2	2.3	0.2	0.2	0.2

TABLE 4. 2002 SUMMARY: VARIETY TEST TABLES 5-8

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
	MID-SEASON (GROUP IV)						
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	**48.0**			1.8		
~	DELTA KING 4763 RR*	47.8	**55.2**		2.0	2.3	
~	VIGORO BRAND V42N3RR**	47.7			1.6		
~	VIGORO BRAND V47N3RR**	47.5			1.8		
~	STINE S4442-4**	47.2			1.4		
~	LG SEEDS C4112NRR**	46.8			1.4		
~	STINE S4202-4**	46.6	53.3		1.4	1.7	
~	PIONEER VARIETY 94B74**	46.2			2.2		
~	CROPLAN GENETICS RC4222**	45.8			1.6		
~	ARMOR 47-G7**	45.7			1.9		
~	BECK 437NRR**	45.6			1.8		
~	GREAT LAKES GL 4109 RR*	45.1	48.0		2.0	2.2	
~	VIGORO BRAND V49N3RR**	45.1			2.1		
~	DYNA-GRO 3468N RR**	45.0	43.9	49.3	1.5	1.8	1.7
~	ASGROW AG4201**	44.7			2.1		
~	SEED CONSULTANTS SC 9442 RR**	44.7	51.7		1.8	1.9	
~	GARST SEED 4312RR/SB/N*	44.1			1.6		
~	DELTA KING 4868 RR	43.8	51.0	**53.0**	1.8	2.2	1.9
~	CROPLAN GENETICS RC4772*	43.7			2.4		
~	UNISOUTH GENETICS USG 7452nRR**	43.7			1.8		
~	GARST SEED 4512RR/N**	43.6			1.8		
~	CROPLAN GENETICS RC4444**	43.4	50.8		1.8	2.0	
~	GOLDEN HARVEST H-4772RR**	43.3			1.7		
~	STEYER 4410 RR SCN**	43.3			1.8		
~	BIO GENE BG 4401NRR**	43.2	50.0		1.6	1.9	
~	LG SEEDS C4725NRR**	42.8			1.5		
~	CROPLAN GENETICS RC4432	42.7			2.0		
~	GOLDEN HARVEST H-4368RR**	42.7			1.4		
~	UNISOUTH GENETICS USG 7449nRR**	42.6			2.4		
~	VIGORO BRAND V46N3RR**	42.6			1.6		
~	NK BRAND S40-R9**	42.5			2.1		
~	GREAT LAKES GL 4409 RR**	42.4			1.6		
~	UNISOUTH GENETICS USG 7440nRR**	42.2			1.7		
~	PIONEER VARIETY 94B23*	42.2	48.2		2.1	2.5	
~	PIONEER VARIETY 94B73	42.1	49.5		1.9	2.4	
~	DELTA KING 4965 RR*	42.1	47.1		1.8	2.1	
NS	DAIRYLAND DST4203 (large-seed food type)	42.0	50.0		1.8	2.0	
~	ASGROW AG4603	42.0			1.7		
	HORNBECK HBK 4944CX**	42.0			2.6		
~	HORNBECK HBK R4820	42.0	50.2		1.8	1.9	
~	ARMOR 44-R4**	41.9			1.6		
~	SOUTHERN CROSS TITUS 4.8N, RR**	41.9	47.7	50.2	2.2	2.4	2.1
~	CROW'S C4417R**	41.7	50.6		1.5	1.9	
~	ASGROW AG4403*	41.7	49.7	51.5	1.9	2.1	1.9
~	CROW'S C4815R**	41.5			1.8		
~	LG SEEDS C4444NRR**	41.5			1.6		
~	DEKALB DKB40-51*	41.5	45.4		1.5	1.7	
~	DEKALB DKB44-51*	41.5	49.6	50.6	1.7	1.9	1.7
~	NK BRAND S46-G2**	41.5	44.9	47.1	2.1	2.2	2.0
~	ASGROW AG4902**	41.4	48.4	51.0	2.0	2.2	2.0
~	GATEWAY 4R483**	41.1	48.4		2.0	2.5	
~	STINE S4882-4**	40.8			1.9		

TABLE 4. 2002 SUMMARY: VARIETY TEST TABLES 5-8

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
~	SOUTHERN CROSS SILAS 4.4N, RR**	40.7			1.8		
~	DELTA KING 4762 RR**	40.7	44.0		2.2	2.3	
~	DYNA-GRO 3443N RR**	40.6			1.7		
~	SOUTHERN STATES RT-446N*	40.5	46.2	48.5	1.8	2.0	1.9
~	DELTA KING 4461 RR	40.4	49.6		1.7	1.8	
~	BECK 476NRR**	40.2			1.9		
~	PIONEER VARIETY 94B13**	40.2			1.6		
	GATEWAY 493*	39.9	45.6		1.9	2.7	
~	GOLDEN HARVEST H-4534RR**	39.8	47.3		1.7	1.8	
~	SOUTHERN STATES RT 4720N**	39.7			2.4		
~	DYNA-GRO 3484N RR**	39.7	45.7		2.0	2.0	
~	SOUTHERN STATES RT 4810N**	39.1			2.0		
	SOUTHERN CROSS AARON 4.5N, STS**	39.1	44.9	49.6	2.1	2.6	2.3
~	SOUTHERN STATES RT-4098	39.0	44.8	49.4	2.1	2.4	2.1
~	SOUTHERN STATES RT-4980	39.0	46.8	49.0	2.1	2.5	2.2
~	STEYER 4700 RR STS SCN**	38.7			2.2		
	CAVERNDALE CF 492	38.7	47.1	51.5	1.1	1.9	1.9
NS	KS4702sp (large seeded variety)	38.5			2.5		
NS	KS4402sp (high protein variety)	38.1	40.9		1.5	1.6	
~	GREAT LAKES GL 4800 RR	38.0	46.8	50.4	2.1	2.5	2.2
~	DEKALB CX480cRR**	37.8	45.2		2.0	2.5	
~	SOUTHERN STATES RT 4502**	37.7			1.9		
~	GOLDEN HARVEST H-4850RR**	37.7	45.9		1.9	2.2	
~	ARMOR 42-L2**	37.4			2.6		
	CAVERNDALE CF 461	37.1	44.5	47.5	2.1	2.7	2.4
P	STRESSLAND	37.1	44.5	48.0	2.1	2.6	2.3
	SOUTHERN STATES 439	35.0	42.3	49.2	1.8	2.3	2.1
NS	L96-5104 (natto type)	34.9	37.6	42.7	1.9	2.3	2.1
NS	KS4302sp (small seeded food variety)	30.9	29.4		2.1	2.9	
P	STRONG	30.9			1.2		
NS	IA4002 (small seed)	28.7			2.9		
	GROUP IV AVERAGE	41.4	46.8	49.3	1.9	2.2	2.0
	LSD (0.10)	2.8	2.2	2.1	0.2	0.2	0.2

TABLE 4. 2002 SUMMARY: VARIETY TEST TABLES 5-8

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
	LATE (GROUP V)						
	UNISOUTH GENETICS USG 5601T	**42.3**			2.3		
~	ARMOR 53-K3**	42.1			1.7		
P	DELSOY 5500**	41.1	48.0	50.0	2.1	2.4	2.3
~	SOUTHERN STATES RT 540N**	41.0			2.2		
~	DELTA KING 5465 RR*	41.0	47.1	**50.2**	2.2	2.5	2.2
~	NK BRAND S52-U3**	40.9	**48.7**		2.7	3.0	
~	UNISOUTH GENETICS USG 510nRR**	40.8	47.4	49.2	2.2	2.3	2.1
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	40.7			2.4		
~	ASGROW AG5301*	40.7			2.3		
~	PIONEER VARIETY 95B32**	40.5	46.5	49.9	2.1	2.4	2.1
~	DELTA KING 5366 RR	40.1	44.5		3.1	3.3	
~	VIGORO BRAND V543NRR**	39.7	46.1		2.1	2.4	
~	ASGROW AG5501*	39.7	46.8	50.1	2.0	2.3	2.2
~	ARMOR 54-Z4**	39.5			2.2		
	ARMOR 52-C2**	39.4			2.4		
~	CROW'S C5118R**	39.4	45.9		2.0	2.3	
P	ANAND**	39.3	43.8	46.0	2.0	2.2	1.9
~	ARMOR 56-J6**	39.0			2.9		
~	SOUTHERN STATES RT 5602N**	38.8			2.4		
~	GATEWAY 5R500	38.8			1.9		
~	SOUTHERN STATES RT-5001N**	38.8	42.7		2.3	2.7	
~	SOUTHERN STATES RT 5302N**	38.7			2.1		
P	KS5502N**	38.4	43.0		2.3	2.5	
~	GREAT LAKES GL 5319 RR**	38.3	45.9		2.2	2.3	
~	UNISOUTH GENETICS USG 540nRR**	37.9	44.2		2.2	2.6	
P	HUTCHESON	37.9	45.6	49.9	2.1	2.8	2.5
P	CAVINESS**	37.8	45.3	47.7	2.9	3.5	3.4
~	PIONEER VARIETY 95B42*	37.3			2.3		
NS	KS5202sp (high protein variety)	37.2	46.4		1.8	2.4	
P	HOLLADAY	36.7	46.9	**50.2**	2.1	2.9	2.7
NS	KS5001sp (small seeded food variety)	31.6			1.5		
NS	KS5201sp (small seeded variety)	30.2	36.3		2.9	3.5	
	GROUP V AVERAGE	38.9	45.3	49.2	2.2	2.6	2.4
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	39.8	46.5	48.7	1.9	2.2	2.1

~ Roundup Ready variety

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of much broader market value. Testing novel soybeans will enable producers to assess whether premiums for a given trait offset possible yield lag/drag.

* Resistant to the soybean cyst nematode (Race 3)

** Resistant to the soybean cyst nematode (Race 3 and Race 14)

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 4A. Conventional varieties - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02
	EARLY (GROUP III)						
	PIONEER VARIETY 93B87	**42.6**	**51.3**		2.2	2.1	
NS	U97-207427 (high protein, high yield)	34.4	39.7	**43.9**	1.9	2.0	1.9
P	STOUT	32.7			1.3		
NS	U96-1612LS (large seed)	30.5			2.0		
NS	FG 1 (tofu type)	29.8	39.2	43.4	2.2	2.3	2.0
NS	PIONEER VARIETY P9305 (tofu type)	29.1	39.3	42.8	1.6	1.7	1.6
NS	U96-2831LS (large seed)	28.6			2.5		
NS	IA3016 (large seed & high protein)	27.5			1.9		
NS	IA3011 (large seed, high protein)	26.4	35.6	39.6	2.1	1.7	1.7
NS	L96-5924 (natto type)	26.4			2.4		
NS	U98-310010 (small seed-lipoxygenase 2 null)	25.4			2.1		
NS	IA3006LF (lipoxygenase free, large seed & hp)	25.1			1.5		
NS	IA3015 (large seed)	24.5			2.2		
NS	FG 3 (tofu type)	20.3			1.9		
NS	IA2040LF (lipoxygenase free, large seed)	14.8			1.6		
	GROUP III AVERAGE	27.9	41.0	42.4	2.0	2.0	1.8
	LSD (0.10)	2.8	2.2	2.3	0.2	0.2	0.2
	MID-SEASON (GROUP IV)						
NS	DAIRYLAND DST4203 (large-seed food type)	**42.0**	**50.0**		1.8	2.0	
	HORNBECK HBK 4944CX**	**42.0**			2.6		
	GATEWAY 493*	39.9	45.6		1.9	2.7	
	SOUTHERN CROSS AARON 4.5N, STS**	39.1	44.9	49.6	2.1	2.6	2.3
	CAVERNDALE CF 492	38.7	47.1	**51.5**	1.1	1.9	1.9
NS	KS4702sp (large seeded variety)	38.5			2.5		
NS	KS4402sp (high protein variety)	38.1	40.9		1.5	1.6	
	CAVERNDALE CF 461	37.1	44.5	47.5	2.1	2.7	2.4
P	STRESSLAND	37.1	44.5	48.0	2.1	2.6	2.3
	SOUTHERN STATES 439	35.0	42.3	49.2	1.8	2.3	2.1
NS	L96-5104 (natto type)	34.9	37.6	42.7	1.9	2.3	2.1
NS	KS4302sp (small seeded food variety)	30.9	29.4		2.1	2.9	
P	STRONG	30.9			1.2		
NS	IA4002 (small seed)	28.7			2.9		
	GROUP IV AVERAGE	36.6	42.7	48.1	2.0	2.4	2.2
	LSD (0.10)	2.8	2.2	2.1	0.2	0.2	0.2
	LATE (GROUP V)						
	UNISOUTH GENETICS USG 5601T	**42.3**			2.3		
P	DELSOY 5500**	41.1	**48.0**	50.0	2.1	2.4	2.3
	ARMOR 52-C2**	39.4			2.4		
P	ANAND**	39.3	43.8	46.0	2.0	2.2	1.9
P	KS5502N**	38.4	43.0		2.3	2.5	
P	HUTCHESON	37.9	45.6	49.9	2.1	2.8	2.5
P	CAVINESS**	37.8	45.3	47.7	2.9	3.5	3.4
NS	KS5202sp (high protein variety)	37.2	46.4		1.8	2.4	
P	HOLLADAY	36.7	46.9	**50.2**	2.1	2.9	2.7
NS	KS5001sp (small seeded food variety)	31.6			1.5		
NS	KS5201sp (small seeded variety)	30.2	36.3		2.9	3.5	
	GROUP V AVERAGE	37.4	44.4	48.8	2.2	2.8	2.6
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	33.6	42.9	46.8	2.0	2.4	2.2

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of much broader market value. Testing novel soybeans will enable producers to assess whether premiums for a given trait offset possible yield lag/drag.

* Resistant to the soybean cyst nematode (Race 3)

** Resistant to the soybean cyst nematode (Race 3 and Race 14)

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 4B. Roundup Ready varieties - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02
	EARLY (GROUP III)						
~	GOLDEN HARVEST H-3945RR**	**51.1**			1.6		
~	CROPLAN GENETICS RC3939**	47.4			1.6		
~	GREAT LAKES GL 3819 RR**	46.9			1.5		
~	ARMOR 39-E9**	46.8			1.6		
~	DELTA KING 3968 RR*	46.3	**52.1**		1.6	1.5	
~	DELTA KING 3862 RR	45.4	49.6		1.9	1.9	
~	SEED CONSULTANTS SC 9391 RR	45.3			1.4		
~	NK BRAND S39-Q4	44.3	50.9		1.5	1.7	
~	NK BRAND S37-N4**	43.8			2.3		
~	PIONEER VARIETY 93B67**	43.8	48.7		1.6	1.8	
~	DEKALB DKB38-52*	43.5	50.1		1.8	1.7	
~	SOUTHERN STATES RT-3799N**	43.3	48.6	51.1	1.6	1.7	1.6
~	ASGROW AG3903*	43.2	50.9		2.1	2.2	
~	CROPLAN GENETICS RC3838**	42.9	49.9		1.8	1.8	
~	DEKALB DKB38-51	42.5			1.4		
~	DELTA KING 3961 RR	42.3	48.5		1.9	1.8	
~	GOLDEN HARVEST H-3983RR	42.2	51.3	**54.0**	1.6	1.6	1.6
~	VIGORO BRAND V382NRR*	42.0			1.8		
~	ASGROW AG3703**	41.8			1.4		
~	SOUTHERN STATES RT-3975	40.8	45.8	48.2	2.1	2.1	1.9
~	EBBERTS 1362RR**	40.8			1.8		
~	STINE S3632-4**	40.6	48.1		1.7	1.6	
~	DELTA KING 3964 RR*	39.3	47.2		2.3	2.4	
~	SOUTHERN CROSS JORDAN 3.6N, RR**	39.0			1.6		
~	PIONEER VARIETY 93B68	38.6			1.9		
~	SOUTHERN STATES RT 3802N**	38.4			1.8		
~	SOUTHERN CROSS SOLOMON 3.8RR	37.4	45.7	50.0	1.8	2.0	1.9
~	PIONEER VARIETY 93B72	36.3			2.2		
~	EBBERTS 1351RR	35.0			2.3		
	GROUP III AVERAGE	42.4	49.1	50.8	1.8	1.8	1.8
	LSD (0.10)	2.8	2.2	2.3	0.2	0.2	0.2
	MID-SEASON (GROUP IV)						
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	**48.0**			1.8		
~	DELTA KING 4763 RR*	47.8	**55.2**		2.0	2.3	
~	VIGORO BRAND V42N3RR**	47.7			1.6		
~	VIGORO BRAND V47N3RR**	47.5			1.8		
~	STINE S4442-4**	47.2			1.4		
~	LG SEEDS C4112NRR**	46.8			1.4		
~	STINE S4202-4**	46.6	53.3		1.4	1.7	
~	PIONEER VARIETY 94B74**	46.2			2.2		
~	CROPLAN GENETICS RC4222**	45.8			1.6		
~	ARMOR 47-G7**	45.7			1.9		
~	BECK 437NRR**	45.6			1.8		
~	GREAT LAKES GL 4109 RR*	45.1	48.0		2.0	2.2	
~	VIGORO BRAND V49N3RR**	45.1			2.1		
~	DYNA-GRO 3468N RR**	45.0	43.9	49.3	1.5	1.8	1.7
~	ASGROW AG4201**	44.7			2.1		
~	SEED CONSULTANTS SC 9442 RR**	44.7	51.7		1.8	1.9	
~	GARST SEED 4312RR/SB/N*	44.1			1.6		
~	DELTA KING 4868 RR	43.8	51.0	**53.0**	1.8	2.2	1.9
~	CROPLAN GENETICS RC4772*	43.7			2.4		

TABLE 4B. Roundup Ready varieties - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A]			LODGING		
		2002	01-02	00-02	2002	01-02	00-02
~	UNISOUTH GENETICS USG 7452nRR**	43.7			1.8		
~	GARST SEED 4512RR/N**	43.6			1.8		
~	CROPLAN GENETICS RC4444**	43.4	50.8		1.8	2.0	
~	GOLDEN HARVEST H-4772RR**	43.3			1.7		
~	STEYER 4410 RR SCN**	43.3			1.8		
~	BIO GENE BG 4401NRR**	43.2	50.0		1.6	1.9	
~	LG SEEDS C4725NRR**	42.8			1.5		
~	CROPLAN GENETICS RC4432	42.7			2.0		
~	GOLDEN HARVEST H-4368RR**	42.7			1.4		
~	UNISOUTH GENETICS USG 7449nRR**	42.6			2.4		
~	VIGORO BRAND V46N3RR**	42.6			1.6		
~	NK BRAND S40-R9**	42.5			2.1		
~	GREAT LAKES GL 4409 RR**	42.4			1.6		
~	UNISOUTH GENETICS USG 7440nRR**	42.2			1.7		
~	PIONEER VARIETY 94B23*	42.2	48.2		2.1	2.5	
~	PIONEER VARIETY 94B73	42.1	49.5		1.9	2.4	
~	DELTA KING 4965 RR*	42.1	47.1		1.8	2.1	
~	ASGROW AG4603	42.0			1.7		
~	HORNBECK HBK R4820	42.0	50.2		1.8	1.9	
~	ARMOR 44-R4**	41.9			1.6		
~	SOUTHERN CROSS TITUS 4.8N, RR**	41.9	47.7	50.2	2.2	2.4	2.1
~	CROW'S C4417R**	41.7	50.6		1.5	1.9	
~	ASGROW AG4403*	41.7	49.7	51.5	1.9	2.1	1.9
~	CROW'S C4815R**	41.5			1.8		
~	LG SEEDS C4444NRR**	41.5			1.6		
~	DEKALB DKB40-51*	41.5	45.4		1.5	1.7	
~	DEKALB DKB44-51*	41.5	49.6	50.6	1.7	1.9	1.7
~	NK BRAND S46-G2**	41.5	44.9	47.1	2.1	2.2	2.0
~	ASGROW AG4902**	41.4	48.4	51.0	2.0	2.2	2.0
~	GATEWAY 4R483**	41.1	48.4		2.0	2.5	
~	STINE S4882-4**	40.8			1.9		
~	SOUTHERN CROSS SILAS 4.4N, RR**	40.7			1.8		
~	DELTA KING 4762 RR**	40.7	44.0		2.2	2.3	
~	DYNA-GRO 3443N RR**	40.6			1.7		
~	SOUTHERN STATES RT-446N*	40.5	46.2	48.5	1.8	2.0	1.9
~	DELTA KING 4461 RR	40.4	49.6		1.7	1.8	
~	BECK 476NRR**	40.2			1.9		
~	PIONEER VARIETY 94B13**	40.2			1.6		
~	GOLDEN HARVEST H-4534RR**	39.8	47.3		1.7	1.8	
~	SOUTHERN STATES RT 4720N**	39.7			2.4		
~	DYNA-GRO 3484N RR**	39.7	45.7		2.0	2.0	
~	SOUTHERN STATES RT 4810N**	39.1			2.0		
~	SOUTHERN STATES RT-4098	39.0	44.8	49.4	2.1	2.4	2.1
~	SOUTHERN STATES RT-4980	39.0	46.8	49.0	2.1	2.5	2.2
~	STEYER 4700 RR STS SCN**	38.7			2.2		
~	GREAT LAKES GL 4800 RR	38.0	46.8	50.4	2.1	2.5	2.2
~	DEKALB CX480cRR**	37.8	45.2		2.0	2.5	
~	SOUTHERN STATES RT 4502**	37.7			1.9		
~	GOLDEN HARVEST H-4850RR**	37.7	45.9		1.9	2.2	
~	ARMOR 42-L2**	37.4			2.6		
	GROUP IV AVERAGE	42.4	48.2	50.0	1.9	2.1	2.0
	LSD (0.10)	2.8	2.2	2.1	0.2	0.2	0.2

TABLE 4B. Roundup Ready varieties - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02
	LATE (GROUP V)						
~	ARMOR 53-K3**	**42.1**			1.7		
~	SOUTHERN STATES RT 540N**	41.0			2.2		
~	DELTA KING 5465 RR*	41.0	47.1	**50.2**	2.2	2.5	2.2
~	NK BRAND S52-U3**	40.9	**48.7**		2.7	3.0	
~	UNISOUTH GENETICS USG 510nRR**	40.8	47.4	49.2	2.2	2.3	2.1
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	40.7			2.4		
~	ASGROW AG5301*	40.7			2.3		
~	PIONEER VARIETY 95B32**	40.5	46.5	49.9	2.1	2.4	2.1
~	DELTA KING 5366 RR	40.1	44.5		3.1	3.3	
~	VIGORO BRAND V543NRR**	39.7	46.1		2.1	2.4	
~	ASGROW AG5501*	39.7	46.8	50.1	2.0	2.3	2.2
~	ARMOR 54-Z4**	39.5			2.2		
~	CROW'S C5118R**	39.4	45.9		2.0	2.3	
~	ARMOR 56-J6**	39.0			2.9		
~	SOUTHERN STATES RT 5602N**	38.8			2.4		
~	GATEWAY 5R500	38.8			1.9		
~	SOUTHERN STATES RT-5001N**	38.8	42.7		2.3	2.7	
~	SOUTHERN STATES RT 5302N**	38.7			2.1		
~	GREAT LAKES GL 5319 RR**	38.3	45.9		2.2	2.3	
~	UNISOUTH GENETICS USG 540nRR**	37.9	44.2		2.2	2.6	
~	PIONEER VARIETY 95B42*	37.3			2.3		
	GROUP V AVERAGE	39.7	46.0	49.9	2.3	2.6	2.2
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	42.0	48.0	50.1	1.9	2.1	2.0

~ Roundup Ready variety

* Resistant to the soybean cyst nematode (Race 3)

** Resistant to the soybean cyst nematode (Race 3 and Race 14)

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 4C. SCN resistant varieties - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
	EARLY (GROUP III)						
~	GOLDEN HARVEST H-3945RR**	**51.1**			1.6		
~	CROPLAN GENETICS RC3939**	47.4			1.6		
~	GREAT LAKES GL 3819 RR**	46.9			1.5		
~	ARMOR 39-E9**	46.8			1.6		
~	DELTA KING 3968 RR*	46.3	**52.1**		1.6	1.5	
~	NK BRAND S37-N4**	43.8			2.3		
~	PIONEER VARIETY 93B67**	43.8	48.7		1.6	1.8	
~	DEKALB DKB38-52*	43.5	50.1		1.8	1.7	
~	SOUTHERN STATES RT-3799N**	43.3	48.6	51.1	1.6	1.7	1.6
~	ASGROW AG3903*	43.2	50.9		2.1	2.2	
~	CROPLAN GENETICS RC3838**	42.9	49.9		1.8	1.8	
~	VIGORO BRAND V382NRR*	42.0			1.8		
~	ASGROW AG3703**	41.8			1.4		
~	EBBERTS 1362RR**	40.8			1.8		
~	STINE S3632-4**	40.6	48.1		1.7	1.6	
~	DELTA KING 3964 RR*	39.3	47.2		2.3	2.4	
~	SOUTHERN CROSS JORDAN 3.6N, RR**	39.0			1.6		
~	SOUTHERN STATES RT 3802N**	38.4			1.8		
	GROUP III AVERAGE	43.4	49.5	51.1	1.8	1.8	1.6
	LSD (0.10)	2.8	2.2	2.3	0.2	0.2	0.2
	MID-SEASON (GROUP IV)						
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	**48.0**			1.8		
~	DELTA KING 4763 RR*	47.8	**55.2**		2.0	2.3	
~	VIGORO BRAND V42N3RR**	47.7			1.6		
~	VIGORO BRAND V47N3RR**	47.5			1.8		
~	STINE S4442-4**	47.2			1.4		
~	LG SEEDS C4112NRR**	46.8			1.4		
~	STINE S4202-4**	46.6	53.3		1.4	1.7	
~	PIONEER VARIETY 94B74**	46.2			2.2		
~	CROPLAN GENETICS RC4222**	45.8			1.6		
~	ARMOR 47-G7**	45.7			1.9		
~	BECK 437NRR**	45.6			1.8		
~	GREAT LAKES GL 4109 RR*	45.1	48.0		2.0	2.2	
~	VIGORO BRAND V49N3RR**	45.1			2.1		
~	DYNA-GRO 3468N RR**	45.0	43.9	49.3	1.5	1.8	1.7
~	ASGROW AG4201**	44.7			2.1		
~	SEED CONSULTANTS SC 9442 RR**	44.7	51.7		1.8	1.9	
~	GARST SEED 4312RR/SB/N*	44.1			1.6		
~	CROPLAN GENETICS RC4772*	43.7			2.4		
~	UNISOUTH GENETICS USG 7452nRR**	43.7			1.8		
~	GARST SEED 4512RR/N**	43.6			1.8		
~	CROPLAN GENETICS RC4444**	43.4	50.8		1.8	2.0	
~	GOLDEN HARVEST H-4772RR**	43.3			1.7		
~	STEYER 4410 RR SCN**	43.3			1.8		
~	BIO GENE BG 4401NRR**	43.2	50.0		1.6	1.9	
~	LG SEEDS C4725NRR**	42.8			1.5		
~	GOLDEN HARVEST H-4368RR**	42.7			1.4		
~	UNISOUTH GENETICS USG 7449nRR**	42.6			2.4		
~	VIGORO BRAND V46N3RR**	42.6			1.6		

TABLE 4C. SCN resistant varieties - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
~	NK BRAND S40-R9**	42.5			2.1		
~	GREAT LAKES GL 4409 RR**	42.4			1.6		
~	UNISOUTH GENETICS USG 7440nRR**	42.2			1.7		
~	PIONEER VARIETY 94B23*	42.2	48.2		2.1	2.5	
~	DELTA KING 4965 RR*	42.1	47.1		1.8	2.1	
	HORNBECK HBK 4944CX**	42.0			2.6		
~	ARMOR 44-R4**	41.9			1.6		
~	SOUTHERN CROSS TITUS 4.8N, RR**	41.9	47.7	50.2	2.2	2.4	2.1
~	CROW'S C4417R**	41.7	50.6		1.5	1.9	
~	ASGROW AG4403*	41.7	49.7	**51.5**	1.9	2.1	1.9
~	CROW'S C4815R**	41.5			1.8		
~	LG SEEDS C4444NRR**	41.5			1.6		
~	DEKALB DKB40-51*	41.5	45.4		1.5	1.7	
~	DEKALB DKB44-51*	41.5	49.6	50.6	1.7	1.9	1.7
~	NK BRAND S46-G2**	41.5	44.9	47.1	2.1	2.2	2.0
~	ASGROW AG4902**	41.4	48.4	51.0	2.0	2.2	2.0
~	GATEWAY 4R483**	41.1	48.4		2.0	2.5	
~	STINE S4882-4**	40.8			1.9		
~	SOUTHERN CROSS SILAS 4.4N, RR**	40.7			1.8		
~	DELTA KING 4762 RR**	40.7	44.0		2.2	2.3	
~	DYNA-GRO 3443N RR**	40.6			1.7		
~	SOUTHERN STATES RT-446N*	40.5	46.2	48.5	1.8	2.0	1.9
~	BECK 476NRR**	40.2			1.9		
~	PIONEER VARIETY 94B13**	40.2			1.6		
	GATEWAY 493*	39.9	45.6		1.9	2.7	
~	GOLDEN HARVEST H-4534RR**	39.8	47.3		1.7	1.8	
~	SOUTHERN STATES RT 4720N**	39.7			2.4		
~	DYNA-GRO 3484N RR**	39.7	45.7		2.0	2.0	
~	SOUTHERN STATES RT 4810N**	39.1			2.0		
	SOUTHERN CROSS AARON 4.5N, STS**	39.1	44.9	49.6	2.1	2.6	2.3
~	STEYER 4700 RR STS SCN**	38.7			2.2		
~	DEKALB CX480cRR**	37.8	45.2		2.0	2.5	
~	SOUTHERN STATES RT 4502**	37.7			1.9		
~	GOLDEN HARVEST H-4850RR**	37.7	45.9		1.9	2.2	
~	ARMOR 42-L2**	37.4			2.6		
	GROUP IV AVERAGE	42.5	47.9	49.7	1.9	2.1	2.0
	LSD (0.10)	2.8	2.2	2.1	0.2	0.2	0.2

TABLE 4C. SCN resistant varieties - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02
	LATE (GROUP V)						
~	ARMOR 53-K3**	**42.1**			1.7		
P	DELSOY 5500**	41.1	48.0	50.0	2.1	2.4	2.3
~	SOUTHERN STATES RT 540N**	41.0			2.2		
~	DELTA KING 5465 RR*	41.0	47.1	**50.2**	2.2	2.5	2.2
~	NK BRAND S52-U3**	40.9	**48.7**		2.7	3.0	
~	UNISOUTH GENETICS USG 510nRR**	40.8	47.4	49.2	2.2	2.3	2.1
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	40.7			2.4		
~	ASGROW AG5301*	40.7			2.3		
~	PIONEER VARIETY 95B32**	40.5	46.5	49.9	2.1	2.4	2.1
~	VIGORO BRAND V543NRR**	39.7	46.1		2.1	2.4	
~	ASGROW AG5501*	39.7	46.8	50.1	2.0	2.3	2.2
~	ARMOR 54-Z4**	39.5			2.2		
	ARMOR 52-C2**	39.4			2.4		
~	CROW'S C5118R**	39.4	45.9		2.0	2.3	
P	ANAND**	39.3	43.8	46.0	2.0	2.2	1.9
~	ARMOR 56-J6**	39.0			2.9		
~	SOUTHERN STATES RT 5602N**	38.8			2.4		
~	SOUTHERN STATES RT-5001N**	38.8	42.7		2.3	2.7	
~	SOUTHERN STATES RT 5302N**	38.7			2.1		
P	KS5502N**	38.4	43.0		2.3	2.5	
~	GREAT LAKES GL 5319 RR**	38.3	45.9		2.2	2.3	
~	UNISOUTH GENETICS USG 540nRR**	37.9	44.2		2.2	2.6	
P	CAVINESS**	37.8	45.3	47.7	2.9	3.5	3.4
~	PIONEER VARIETY 95B42*	37.3			2.3		
	GROUP V AVERAGE	39.6	45.8	49.0	2.3	2.5	2.3
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	42.0	47.5	49.5	1.9	2.2	2.1

~ Roundup Ready variety

P Entries with a P prefix are public varieties.

* Resistant to the soybean cyst nematode (Race 3)

** Resistant to the soybean cyst nematode (Race 3 and Race 14)

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 4D. Conventional varieties with no SCN resistance - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
	EARLY (GROUP III)						
	PIONEER VARIETY 93B87	**42.6**	**51.3**		2.2	2.1	
NS	U97-207427 (high protein, high yield)	34.4	39.7	**43.9**	1.9	2.0	1.9
P	STOUT	32.7			1.3		
NS	U96-1612LS (large seed)	30.5			2.0		
NS	FG 1 (tofu type)	29.8	39.2	43.4	2.2	2.3	2.0
NS	PIONEER VARIETY P9305 (tofu type)	29.1	39.3	42.8	1.6	1.7	1.6
NS	U96-2831LS (large seed)	28.6			2.5		
NS	IA3016 (large seed & high protein)	27.5			1.9		
NS	IA3011 (large seed, high protein)	26.4	35.6	39.6	2.1	1.7	1.7
NS	L96-5924 (natto type)	26.4			2.4		
NS	U98-310010 (small seed-lipoxygenase 2 null)	25.4			2.1		
NS	IA3006LF (lipoxygenase free, large seed & hp)	25.1			1.5		
NS	IA3015 (large seed)	24.5			2.2		
NS	FG 3 (tofu type)	20.3			1.9		
NS	IA2040LF (lipoxygenase free, large seed)	14.8			1.6		
	GROUP III AVERAGE	27.9	41.0	42.4	2.0	2.0	1.8
	LSD (0.10)	2.8	2.2	2.3	0.2	0.2	0.2
	MID-SEASON (GROUP IV)						
NS	DAIRYLAND DST4203 (large-seed food type)	**42.0**	**50.0**		1.8	2.0	
	CAVERNDALE CF 492	38.7	47.1	**51.5**	1.1	1.9	1.9
NS	KS4702sp (large seeded variety)	38.5			2.5		
NS	KS4402sp (high protein variety)	38.1	40.9		1.5	1.6	
	CAVERNDALE CF 461	37.1	44.5	47.5	2.1	2.7	2.4
P	STRESSLAND	37.1	44.5	48.0	2.1	2.6	2.3
	SOUTHERN STATES 439	35.0	42.3	49.2	1.8	2.3	2.1
NS	L96-5104 (natto type)	34.9	37.6	42.7	1.9	2.3	2.1
NS	KS4302sp (small seeded food variety)	30.9	29.4		2.1	2.9	
P	STRONG	30.9			1.2		
NS	IA4002 (small seed)	28.7			2.9		
	GROUP IV AVERAGE	35.6	42.0	47.8	1.9	2.3	2.2
	LSD (0.10)	2.8	2.2	2.1	0.2	0.2	0.2
	LATE (GROUP V)						
	UNISOUTH GENETICS USG 5601T	**42.3**			2.3		
P	HUTCHESON	37.9	45.6	49.9	2.1	2.8	2.5
NS	KS5202sp (high protein variety)	37.2	46.4		1.8	2.4	
P	HOLLADAY	36.7	**46.9**	**50.2**	2.1	2.9	2.7
NS	KS5001sp (small seeded food variety)	31.6			1.5		
NS	KS5201sp (small seeded variety)	30.2	36.3		2.9	3.5	
	GROUP V AVERAGE	36.0	43.8	50.1	2.1	2.9	2.6
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	32.1	42.2	46.2	2.0	2.3	2.1

P Entries with a P prefix are public varieties.

NS Entries with a NS prefix are novel soybean varieties that are emerging from both the public and private sectors. Some of these value-added soybean types will supply relatively small market niches, while others may be of much broader market value. Testing novel soybeans will enable producers to assess whether premiums for a given trait offset possible yield lag/drag.

* Resistant to the soybean cyst nematode (Race 3)

** Resistant to the soybean cyst nematode (Race 3 and Race 14)

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 4E. Conventional varieties with SCN resistance - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
	EARLY (GROUP III)						
	None present						
	MID-SEASON (GROUP IV)						
	HORNBECK HBK 4944CX**	**42.0**			2.6		
	GATEWAY 493*	39.9	**45.6**		1.9	2.7	
	SOUTHERN CROSS AARON 4.5N, STS**	39.1	44.9	49.6	2.1	2.6	2.3
	GROUP IV AVERAGE	40.3	45.3		2.2	2.7	
	LSD (0.10)	2.8	2.2		0.2	0.2	
	LATE (GROUP V)						
P	DELSOY 5500**	**41.1**	**48.0**	**50.0**	2.1	2.4	2.3
	ARMOR 52-C2**	39.4			2.4		
P	ANAND**	39.3	43.8	46.0	2.0	2.2	1.9
P	KS5502N**	38.4	43.0		2.3	2.5	
P	CAVINESS**	37.8	45.3	47.7	2.9	3.5	3.4
	GROUP V AVERAGE	39.2	45.0	47.9	2.3	2.7	2.5
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	39.6	45.1	48.3	2.3	2.7	2.5

P Entries with a P prefix are public varieties.

* Resistant to the soybean cyst nematode (Race 3)

** Resistant to the soybean cyst nematode (Race 3 and Race 14)

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 4F. Roundup Ready varieties with no SCN resistance - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
	EARLY (GROUP III)						
~	DELTA KING 3862 RR	**45.4**	49.6		1.9	1.9	
~	SEED CONSULTANTS SC 9391 RR	45.3			1.4		
~	NK BRAND S39-Q4	44.3	50.9		1.5	1.7	
~	DEKALB DKB38-51	42.5			1.4		
~	DELTA KING 3961 RR	42.3	48.5		1.9	1.8	
~	GOLDEN HARVEST H-3983RR	42.2	**51.3**	**54.0**	1.6	1.6	1.6
~	SOUTHERN STATES RT-3975	40.8	45.8	48.2	2.1	2.1	1.9
~	PIONEER VARIETY 93B68	38.6			1.9		
~	SOUTHERN CROSS SOLOMON 3.8RR	37.4	45.7	50.0	1.8	2.0	1.9
~	PIONEER VARIETY 93B72	36.3			2.2		
~	EBBERTS 1351RR	35.0			2.3		
	GROUP III AVERAGE	40.9	48.6	50.7	1.8	1.9	1.8
	LSD (0.10)	2.8	2.2	2.3	0.2	0.2	0.2
	MID-SEASON (GROUP IV)						
~	DELTA KING 4868 RR	**43.8**	**51.0**	**53.0**	1.8	2.2	1.9
~	CROPLAN GENETICS RC4432	42.7			2.0		
~	PIONEER VARIETY 94B73	42.1	49.5		1.9	2.4	
~	ASGROW AG4603	42.0			1.7		
~	HORNBECK HBK R4820	42.0	50.2		1.8	1.9	
~	DELTA KING 4461 RR	40.4	49.6		1.7	1.8	
~	SOUTHERN STATES RT-4098	39.0	44.8	49.4	2.1	2.4	2.1
~	SOUTHERN STATES RT-4980	39.0	46.8	49.0	2.1	2.5	2.2
~	GREAT LAKES GL 4800 RR	38.0	46.8	50.4	2.1	2.5	2.2
	GROUP IV AVERAGE	41.0	48.4	50.5	1.9	2.2	2.1
	LSD (0.10)	2.8	2.2	2.1	0.2	0.2	0.2
	LATE (GROUP V)						
~	DELTA KING 5366 RR	**40.1**	44.5		3.1	3.3	
~	GATEWAY 5R500	38.8			1.9		
	GROUP V AVERAGE	39.5			2.5		
	LSD (0.10)	2.5			0.3		
	GRAND MEAN	40.8	48.2	50.6	1.9	2.2	2.0

~ Roundup Ready variety

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 4G. Roundup Ready varieties with SCN resistance - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02
	EARLY (GROUP III)						
~	GOLDEN HARVEST H-3945RR**	**51.1**			1.6		
~	CROPLAN GENETICS RC3939**	47.4			1.6		
~	GREAT LAKES GL 3819 RR**	46.9			1.5		
~	ARMOR 39-E9**	46.8			1.6		
~	DELTA KING 3968 RR*	46.3	**52.1**		1.6	1.5	
~	NK BRAND S37-N4**	43.8			2.3		
~	PIONEER VARIETY 93B67**	43.8	48.7		1.6	1.8	
~	DEKALB DKB38-52*	43.5	50.1		1.8	1.7	
~	SOUTHERN STATES RT-3799N**	43.3	48.6	51.1	1.6	1.7	1.6
~	ASGROW AG3903*	43.2	50.9		2.1	2.2	
~	CROPLAN GENETICS RC3838**	42.9	49.9		1.8	1.8	
~	VIGORO BRAND V382NRR*	42.0			1.8		
~	ASGROW AG3703**	41.8			1.4		
~	EBBERTS 1362RR**	40.8			1.8		
~	STINE S3632-4**	40.6	48.1		1.7	1.6	
~	DELTA KING 3964 RR*	39.3	47.2		2.3	2.4	
~	SOUTHERN CROSS JORDAN 3.6N, RR**	39.0			1.6		
~	SOUTHERN STATES RT 3802N**	38.4			1.8		
	GROUP III AVERAGE	43.4	49.5		1.8	1.8	
	LSD (0.10)	2.8	2.2		0.2	0.2	
	MID-SEASON (GROUP IV)						
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	**48.0**			1.8		
~	DELTA KING 4763 RR*	47.8	**55.2**		2.0	2.3	
~	VIGORO BRAND V42N3RR**	47.7			1.6		
~	VIGORO BRAND V47N3RR**	47.5			1.8		
~	STINE S4442-4**	47.2			1.4		
~	LG SEEDS C4112NRR**	46.8			1.4		
~	STINE S4202-4**	46.6	53.3		1.4	1.7	
~	PIONEER VARIETY 94B74**	46.2			2.2		
~	CROPLAN GENETICS RC4222**	45.8			1.6		
~	ARMOR 47-G7**	45.7			1.9		
~	BECK 437NRR**	45.6			1.8		
~	GREAT LAKES GL 4109 RR*	45.1	48.0		2.0	2.2	
~	VIGORO BRAND V49N3RR**	45.1			2.1		
~	DYNA-GRO 3468N RR**	45.0	43.9	49.3	1.5	1.8	1.7
~	ASGROW AG4201**	44.7			2.1		
~	SEED CONSULTANTS SC 9442 RR**	44.7	51.7		1.8	1.9	
~	GARST SEED 4312RR/SB/N*	44.1			1.6		
~	CROPLAN GENETICS RC4772*	43.7			2.4		
~	UNISOUTH GENETICS USG 7452nRR**	43.7			1.8		
~	GARST SEED 4512RR/N**	43.6			1.8		
~	CROPLAN GENETICS RC4444**	43.4	50.8		1.8	2.0	
~	GOLDEN HARVEST H-4772RR**	43.3			1.7		
~	STEYER 4410 RR SCN**	43.3			1.8		
~	BIO GENE BG 4401NRR**	43.2	50.0		1.6	1.9	
~	LG SEEDS C4725NRR**	42.8			1.5		
~	GOLDEN HARVEST H-4368RR**	42.7			1.4		
~	UNISOUTH GENETICS USG 7449nRR**	42.6			2.4		
~	VIGORO BRAND V46N3RR**	42.6			1.6		
~	NK BRAND S40-R9**	42.5			2.1		
~	GREAT LAKES GL 4409 RR**	42.4			1.6		
~	UNISOUTH GENETICS USG 7440nRR**	42.2			1.7		
~	PIONEER VARIETY 94B23*	42.2	48.2		2.1	2.5	
~	DELTA KING 4965 RR*	42.1	47.1		1.8	2.1	
~	ARMOR 44-R4**	41.9			1.6		
~	SOUTHERN CROSS TITUS 4.8N, RR**	41.9	47.7	50.2	2.2	2.4	2.1
~	CROW'S C4417R**	41.7	50.6		1.5	1.9	

TABLE 4G. Roundup Ready varieties with SCN resistance - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02
~	ASGROW AG4403*	41.7	49.7	**51.5**	1.9	2.1	1.9
~	CROW'S C4815R**	41.5			1.8		
~	LG SEEDS C4444NRR**	41.5			1.6		
~	DEKALB DKB40-51*	41.5	45.4		1.5	1.7	
~	DEKALB DKB44-51*	41.5	49.6	50.6	1.7	1.9	1.7
~	NK BRAND S46-G2**	41.5	44.9	47.1	2.1	2.2	2.0
~	ASGROW AG4902**	41.4	48.4	51.0	2.0	2.2	2.0
~	GATEWAY 4R483**	41.1	48.4		2.0	2.5	
~	STINE S4882-4**	40.8			1.9		
~	SOUTHERN CROSS SILAS 4.4N, RR**	40.7			1.8		
~	DELTA KING 4762 RR**	40.7	44.0		2.2	2.3	
~	DYNA-GRO 3443N RR**	40.6			1.7		
~	SOUTHERN STATES RT-446N*	40.5	46.2	48.5	1.8	2.0	1.9
~	BECK 476NRR**	40.2			1.9		
~	PIONEER VARIETY 94B13**	40.2			1.6		
~	GOLDEN HARVEST H-4534RR**	39.8	47.3		1.7	1.8	
~	SOUTHERN STATES RT 4720N**	39.7			2.4		
~	DYNA-GRO 3484N RR**	39.7	45.7		2.0	2.0	
~	SOUTHERN STATES RT 4810N**	39.1			2.0		
~	STEYER 4700 RR STS SCN**	38.7			2.2		
~	DEKALB CX480cRR**	37.8	45.2		2.0	2.5	
~	SOUTHERN STATES RT 4502**	37.7			1.9		
~	GOLDEN HARVEST H-4850RR**	37.7	45.9		1.9	2.2	
~	ARMOR 42-L2**	37.4			2.6		
	GROUP IV AVERAGE	42.6	48.1	49.7	1.8	2.1	1.9
	LSD (0.10)	2.8	2.2	2.1	0.2	0.2	0.2
	LATE (GROUP V)						
~	ARMOR 53-K3**	**42.1**			1.7		
~	SOUTHERN STATES RT 540N**	41.0			2.2		
~	DELTA KING 5465 RR*	41.0	47.1	**50.2**	2.2	2.5	2.2
~	NK BRAND S52-U3**	40.9	**48.7**		2.7	3.0	
~	UNISOUTH GENETICS USG 510nRR**	40.8	47.4	49.2	2.2	2.3	2.1
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	40.7			2.4		
~	ASGROW AG5301*	40.7			2.3		
~	PIONEER VARIETY 95B32**	40.5	46.5	49.9	2.1	2.4	2.1
~	VIGORO BRAND V543NRR**	39.7	46.1		2.1	2.4	
~	ASGROW AG5501*	39.7	46.8	50.1	2.0	2.3	2.2
~	ARMOR 54-Z4**	39.5			2.2		
~	CROW'S C5118R**	39.4	45.9		2.0	2.3	
~	ARMOR 56-J6**	39.0			2.9		
~	SOUTHERN STATES RT 5602N**	38.8			2.4		
~	SOUTHERN STATES RT-5001N**	38.8	42.7		2.3	2.7	
~	SOUTHERN STATES RT 5302N**	38.7			2.1		
~	GREAT LAKES GL 5319 RR**	38.3	45.9		2.2	2.3	
~	UNISOUTH GENETICS USG 540nRR**	37.9	44.2		2.2	2.6	
~	PIONEER VARIETY 95B42*	37.3			2.3		
	GROUP V AVERAGE	39.7	46.1	49.9	2.2	2.5	2.2
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	42.2	47.9	49.9	1.9	2.1	2.0

~ Roundup Ready variety

* Resistant to the soybean cyst nematode (Race 3)

** Resistant to the soybean cyst nematode (Race 3 and Race 14)

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 4H. Conventional varieties with SCN resistance - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02
	EARLY (GROUP III)						
	None present						
	MID-SEASON (GROUP IV)						
	HORNBECK HBK 4944CX**	**42.0**			2.6		
	GATEWAY 493*	39.9	**45.6**		1.9	2.7	
	SOUTHERN CROSS AARON 4.5N, STS**	39.1	44.9	49.6	2.1	2.6	2.3
	GROUP IV AVERAGE	40.3	45.3		2.2	2.7	
	LSD (0.10)	2.8	2.2		0.2	0.2	
	LATE (GROUP V)						
P	DELSOY 5500**	**41.1**	**48.0**	**50.0**	2.1	2.4	2.3
	ARMOR 52-C2**	39.4			2.4		
P	ANAND**	39.3	43.8	46.0	2.0	2.2	1.9
P	KS5502N**	38.4	43.0		2.3	2.5	
P	CAVINESS**	37.8	45.3	47.7	2.9	3.5	3.4
	GROUP V AVERAGE	39.2	45.0	47.9	2.3	2.7	2.5
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	39.6	45.1	48.3	2.3	2.7	2.5

P Entries with a P prefix are public varieties.

* Resistant to the soybean cyst nematode (Race 3)

** Resistant to the soybean cyst nematode (Race 3 and Race 14)

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

TABLE 4I. Roundup Ready varieties with SCN resistance - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	01-02	00-02	LODGING 2002	01-02	00-02
	EARLY (GROUP III)						
~	GOLDEN HARVEST H-3945RR**	**51.1**			1.6		
~	CROPLAN GENETICS RC3939**	47.4			1.6		
~	GREAT LAKES GL 3819 RR**	46.9			1.5		
~	ARMOR 39-E9**	46.8			1.6		
~	DELTA KING 3968 RR*	46.3	**52.1**		1.6	1.5	
~	NK BRAND S37-N4**	43.8			2.3		
~	PIONEER VARIETY 93B67**	43.8	48.7		1.6	1.8	
~	DEKALB DKB38-52*	43.5	50.1		1.8	1.7	
~	SOUTHERN STATES RT-3799N**	43.3	48.6	51.1	1.6	1.7	1.6
~	ASGROW AG3903*	43.2	50.9		2.1	2.2	
~	CROPLAN GENETICS RC3838**	42.9	49.9		1.8	1.8	
~	VIGORO BRAND V382NRR*	42.0			1.8		
~	ASGROW AG3703**	41.8			1.4		
~	EBBERTS 1362RR**	40.8			1.8		
~	STINE S3632-4**	40.6	48.1		1.7	1.6	
~	DELTA KING 3964 RR*	39.3	47.2		2.3	2.4	
~	SOUTHERN CROSS JORDAN 3.6N, RR**	39.0			1.6		
~	SOUTHERN STATES RT 3802N**	38.4			1.8		
	GROUP III AVERAGE	43.4	49.5		1.8	1.8	
	LSD (0.10)	2.8	2.2		0.2	0.2	
	MID-SEASON (GROUP IV)						
~	SOUTHERN CROSS MICHAEL 4.2N, RR**	**48.0**			1.8		
~	DELTA KING 4763 RR*	47.8	**55.2**		2.0	2.3	
~	VIGORO BRAND V42N3RR**	47.7			1.6		
~	VIGORO BRAND V47N3RR**	47.5			1.8		
~	STINE S4442-4**	47.2			1.4		
~	LG SEEDS C4112NRR**	46.8			1.4		
~	STINE S4202-4**	46.6	53.3		1.4	1.7	
~	PIONEER VARIETY 94B74**	46.2			2.2		
~	CROPLAN GENETICS RC4222**	45.8			1.6		
~	ARMOR 47-G7**	45.7			1.9		
~	BECK 437NRR**	45.6			1.8		
~	GREAT LAKES GL 4109 RR*	45.1	48.0		2.0	2.2	
~	VIGORO BRAND V49N3RR**	45.1			2.1		
~	DYNA-GRO 3468N RR**	45.0	43.9	49.3	1.5	1.8	1.7
~	ASGROW AG4201**	44.7			2.1		
~	SEED CONSULTANTS SC 9442 RR**	44.7	51.7		1.8	1.9	
~	GARST SEED 4312RR/SB/N*	44.1			1.6		
~	CROPLAN GENETICS RC4772*	43.7			2.4		
~	UNISOUTH GENETICS USG 7452nRR**	43.7			1.8		
~	GARST SEED 4512RR/N**	43.6			1.8		
~	CROPLAN GENETICS RC4444**	43.4	50.8		1.8	2.0	
~	GOLDEN HARVEST H-4772RR**	43.3			1.7		
~	STEYER 4410 RR SCN**	43.3			1.8		
~	BIO GENE BG 4401NRR**	43.2	50.0		1.6	1.9	
~	LG SEEDS C4725NRR**	42.8			1.5		
~	GOLDEN HARVEST H-4368RR**	42.7			1.4		

TABLE 4I. Roundup Ready varieties with SCN resistance - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A]			LODGING		
		2002	01-02	00-02	2002	01-02	00-02
~	UNISOUTH GENETICS USG 7449nRR**	42.6			2.4		
~	VIGORO BRAND V46N3RR**	42.6			1.6		
~	NK BRAND S40-R9**	42.5			2.1		
~	GREAT LAKES GL 4409 RR**	42.4			1.6		
~	UNISOUTH GENETICS USG 7440nRR**	42.2			1.7		
~	PIONEER VARIETY 94B23*	42.2	48.2		2.1	2.5	
~	DELTA KING 4965 RR*	42.1	47.1		1.8	2.1	
~	ARMOR 44-R4**	41.9			1.6		
~	SOUTHERN CROSS TITUS 4.8N, RR**	41.9	47.7	50.2	2.2	2.4	2.1
~	CROW'S C4417R**	41.7	50.6		1.5	1.9	
~	ASGROW AG4403*	41.7	49.7	**51.5**	1.9	2.1	1.9
~	CROW'S C4815R**	41.5			1.8		
~	LG SEEDS C4444NRR**	41.5			1.6		
~	DEKALB DKB40-51*	41.5	45.4		1.5	1.7	
~	DEKALB DKB44-51*	41.5	49.6	50.6	1.7	1.9	1.7
~	NK BRAND S46-G2**	41.5	44.9	47.1	2.1	2.2	2.0
~	ASGROW AG4902**	41.4	48.4	51.0	2.0	2.2	2.0
~	GATEWAY 4R483**	41.1	48.4		2.0	2.5	
~	STINE S4882-4**	40.8			1.9		
~	SOUTHERN CROSS SILAS 4.4N, RR**	40.7			1.8		
~	DELTA KING 4762 RR**	40.7	44.0		2.2	2.3	
~	DYNA-GRO 3443N RR**	40.6			1.7		
~	SOUTHERN STATES RT-446N*	40.5	46.2	48.5	1.8	2.0	1.9
~	BECK 476NRR**	40.2			1.9		
~	PIONEER VARIETY 94B13**	40.2			1.6		
~	GOLDEN HARVEST H-4534RR**	39.8	47.3		1.7	1.8	
~	SOUTHERN STATES RT 4720N**	39.7			2.4		
~	DYNA-GRO 3484N RR**	39.7	45.7		2.0	2.0	
~	SOUTHERN STATES RT 4810N**	39.1			2.0		
~	STEYER 4700 RR STS SCN**	38.7			2.2		
~	DEKALB CX480cRR**	37.8	45.2		2.0	2.5	
~	SOUTHERN STATES RT 4502**	37.7			1.9		
~	GOLDEN HARVEST H-4850RR**	37.7	45.9		1.9	2.2	
~	ARMOR 42-L2**	37.4			2.6		
	GROUP IV AVERAGE	42.6	48.1	49.7	1.8	2.1	1.9
	LSD (0.10)	2.8	2.2	2.1	0.2	0.2	0.2

TABLE 4I. Roundup Ready varieties with SCN resistance - subset of the 2002 Summary Table 4

BACK TO SELECTION KEY

	BRAND -- VARIETY	YIELD (BU/AC)[A] 2002	YIELD (BU/AC)[A] 01-02	YIELD (BU/AC)[A] 00-02	LODGING 2002	LODGING 01-02	LODGING 00-02
	LATE (GROUP V)						
~	ARMOR 53-K3**	**42.1**			1.7		
~	SOUTHERN STATES RT 540N**	41.0			2.2		
~	DELTA KING 5465 RR*	41.0	47.1	**50.2**	2.2	2.5	2.2
~	NK BRAND S52-U3**	40.9	**48.7**		2.7	3.0	
~	UNISOUTH GENETICS USG 510nRR**	40.8	47.4	49.2	2.2	2.3	2.1
~	SOUTHERN CROSS JONATHAN 5.1N, RR**	40.7			2.4		
~	ASGROW AG5301*	40.7			2.3		
~	PIONEER VARIETY 95B32**	40.5	46.5	49.9	2.1	2.4	2.1
~	VIGORO BRAND V543NRR**	39.7	46.1		2.1	2.4	
~	ASGROW AG5501*	39.7	46.8	50.1	2.0	2.3	2.2
~	ARMOR 54-Z4**	39.5			2.2		
~	CROW'S C5118R**	39.4	45.9		2.0	2.3	
~	ARMOR 56-J6**	39.0			2.9		
~	SOUTHERN STATES RT 5602N**	38.8			2.4		
~	SOUTHERN STATES RT-5001N**	38.8	42.7		2.3	2.7	
~	SOUTHERN STATES RT 5302N**	38.7			2.1		
~	GREAT LAKES GL 5319 RR**	38.3	45.9		2.2	2.3	
~	UNISOUTH GENETICS USG 540nRR**	37.9	44.2		2.2	2.6	
~	PIONEER VARIETY 95B42*	37.3			2.3		
	GROUP V AVERAGE	39.7	46.1	49.9	2.2	2.5	2.2
	LSD (0.10)	2.5	2.2	2.2	0.3	0.2	0.2
	GRAND MEAN	42.2	47.9	49.9	1.9	2.1	2.0

~ Roundup Ready variety

* Resistant to the soybean cyst nematode (Race 3)

** Resistant to the soybean cyst nematode (Race 3 and Race 14)

[A] Within a maturity group, shaded yields are not significantly different (0.10 level) from the highest yielding cultivar (bold data) of that maturity group and year column.

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Memorandum

Date: November, 2002

TO: Soybean Seed Producers

FROM: Eugene Lacefield, Research Specialist

SUBJECT: 2003 Kentucky Soybean Performance Tests

The Kentucky Soybean Performance Tests are conducted to provide an unbiased, objective estimate of the relative performance of soybean varieties in Kentucky. If you have soybean varieties for sale in Kentucky and would like to enter them in the state trials, please read the following pages carefully. Fill out the nomination form completely (typing prevents errors) and note that it is due back by February 20. You will be notified in early March which entries are accepted for testing (usually all entries). Instructions will then be sent for shipping seed. After all tests have been planted, a statement of fees will be sent along with instructions for remittance of fees.

DO NOT SEND CHECK FOR FEE UNTIL YOU HAVE BEEN BILLED.

This year's publication web sit is http://www.uky.edu/Ag/GrainCrops/varietytesting.htm Pages 1–28 are the printed publication. 5000 copies are distributed across Kentucky annually in December or late November. Pages after page 28 comprise web site additions which feature a selection key that will sort the summary table by basic questions a soybean producer might ask (description on page 4 of the publication), this cover memo, a nomination form, and instructions for entering soybean varieties in the 2003 tests. The publication web site which was activated December 1, 1999, was accessed over 2500 times through November 2000 (2000 publication) and more than 4000 times for the 2001 publication.

If, due to rapid changes in the agriculture industry, this memorandum has not reached the correct contact person please forward or e-mail me the correct information. Thank you for participating in the Variety Test Program and for being interested in marketing tested varieties in Kentucky. Your involvement helps all the soybean producers of Kentucky.

If you have any questions or would like additional information, call, write, or e-mail:

Eugene Lacefield
Department of Agronomy
University of Kentucky
N-222C Ag. Science Center North
Lexington, KY 40546-0991
Tel: 859-257-2993
Fax: 859-323-1952
E-mail elace0@pop.uky.edu

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KENTUCKY SOYBEAN PERFORMANCE TESTS

Purpose

The soybean performance tests are conducted annually by the Kentucky Agricultural Experiment Station and are designed as a direct service and benefit to agriculture in the state of Kentucky. Results of these tests are published to provide information to producers and seedsmen on the relative performance of soybean varieties offered for sale in the state of Kentucky.

Eligibility for variety nomination

Seed companies and producers of soybean seed to be sold or offered for sale in Kentucky and the Kentucky Agricultural Experiment Station may nominate varieties for the soybean testing program. Exceptions will be made for novel soybeans and experimental entries.

Requirements for nomination and testing

1. Named soybean varieties within maturity groups III, IV and V will be tested.

2. Named varieties offered for sale or sold in the state of Kentucky during the test year or following year are eligible for nomination for testing as indicated by specifying the market outlet in Kentucky. Some experimental lines will be tested but the data will not be published. The experimental data will be given to the nominating company after the state publication is finished and will enable 2 and 3 year data to be provided for new named varieties offered for sale in Kentucky the following year.

3. Entries must meet the standards for a variety as defined by the U S Federal Seed Act and the Plant Variety Protection Act if it is a protected variety.

4. Entries must comply with the Kentucky State Seed Law.

   All entries (except experimental and novel soybeans) in the Kentucky soybean performance test must be identified by the name(s) required to be on the seed tag or label by the Kentucky Seed Law, i.e., listed in the manner by which the seed will be sold or offered for sale in Kentucky. The law requires the variety designation whether name, or number, or combination of both. Use of a brand name or trademark is not acceptable unless it is clearly identified as being other than a part of the variety designation. A brand name or trademark can never be used instead of the variety.

   Examples of proper identification of entries on the nomination form are:

   A. Without a brand name - Bountiful (Soybean)

   B. With a brand name - Ajax Brand Bountiful (Soybean)

   This complete designation, brand and variety name will be published in the performance bulletin. Experimentals (not published) will have an EXP prefix – example: EXP Ajax Brand etc. Novel entries will have a NS prefix.

5. Brands representing a single variety are not eligible for testing if the variety in question is already represented.

6. Nomination forms must be completely filled out.

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Requirements for nomination and testing (continued)

7. All nominations accepted for testing will be placed in the conventional full season tests and evaluated at five locations.
8. A fee of $420 per entry will be required for each entry accepted for testing. Selected novel soybeans such as high protein, high oil, natto, tofu, and other value-added types will be tested for free (please provide a description on a separate sheet of paper).
9. The nominating organization will supply 10 pounds of seed of entries accepted for testing by March 15 (shipping address at bottom of page).
10. Nominated entries that are dropped by the nominating company after March 15 will be charged the full entry fee for non-used space in the test. A replacement variety may be provided after March 15 by special request.

Selection Procedure

1. The size of the conventional tests will be approximately 180 entries. Approximately 20 test slots will be used for standard public varieties, experimentals, and new public releases, 20 test slots will be used for novel soybean varieties, and 140 test slots for private entries.
2. Organizations will nominate entries. List the entries on the nomination form in order of priority with the highest priority first and the lowest priority last. Experimental entries will have the lowest priority and should have a "EXP" prefix – example: EXP AJAX BRAND ZTQ 445RR.
3. Nominations of equal priority from each organization will be entered in the test until all test slots are filled. If more eligible nominations are received than the size limit of the test, a random drawing of equal priority nominations may be used to select the entries to fill the test slots. In the past all nominations have been accepted except experimental and novel soybeans.
4. Standard public varieties and new publicly released varieties will be entered by the Kentucky Agricultural Experiment Station.
5. To assure that the needs of agriculture in the state of Kentucky are met, the Kentucky Agricultural Experiment Station may revise the list of entries to compensate for obvious deficiencies of varieties of soybeans being grown by farmers in Kentucky.

Important dates

Nominating forms and instructions (available at publication web site-see below: **Pub. of results**) will be mailed in mid-January. The nomination forms must be returned by February 20. Notification of nominations accepted for testing and instructions for seed shipment will be mailed the first week of March. Ten pounds of seed of nominations accepted for testing must be sent to the University of Kentucky by March 15. The Kentucky Agricultural Experiment Station reserves the right to sample seed for testing from marketing outlets in Kentucky. Failure to meet the stated deadlines may eliminate a nomination from the test. Instructions for the remittance of fees and a statement of fees will be sent in early July after all tests have been planted. Payment will be due ten days after receipt of the billing. Mail forms and ship seed to:

Eugene Lacefield
Department of Agronomy
N-222C Ag. Science Center North
University of Kentucky
Lexington, KY 40546-0091

Phone: (859) 257-2993
Fax: (859) 323-1952
E-mail: elace0@pop.uky.edu

Testing methods

The tests will sample a range of environments of the soybean producing areas of the state of Kentucky. The number of tests, type, and specific locations may vary from year to year. In 2003 there will be five full season conventional tests. Entries will be replicated 2 times in each test.

Six row plots will be 20 feet long with a row spacing of 15 inches. All entries will be planted at a seeding rate of 5-6 viable seeds per foot of row unless specific requests are attached to the nominating form. Correction for germination will be made provided the percent germination is listed on the nomination form. If no germination percentage is listed, it will be assumed to be 100%.

Cultural practices recommended by the University of Kentucky will be used. Procedures used for planting, weed control and harvesting will be similar to those used in actual commercial production of conventional soybeans. Plots will be end-trimmed to 16 feet. A small combine will be used for harvesting the center 4 rows from the 6-row plots.

Data to be collected at all tests will be grain yield and lodging score. Maturity date and plant height will be taken at the Fayette County (Lexington) location. Other observations (such as seed shattering scores, hail damage, pest information, etc.) may be taken if warranted.

For detailed information see the University of Kentucky progress report 469, "Kentucky Soybean Performance Tests - 2002".

Publication of results

Data for all entries in the Kentucky Soybean Performance Test will be published according to the policies established by the Kentucky Agricultural Experiment Station. If for any reason the results of the tests are judged to be unreliable or possibly misleading the results will not be published. Results will be published annually in the University of Kentucky progress report "Kentucky Soybean Performance Tests - 200x". The bulletin will be made available in limited quantities to all interested concerns at no charge. It can also be found at the Web site shown below. Look for PR-469 under Research Reports.

http://www.uky.edu/Ag/GrainCrop/varietytesting.htm

Disclaimer

Every possible effort will be made to plant, harvest and tabulate results for each entry accepted for testing. Certain conditions such as weather, floods, hail damage, herbicide carry-over and drift, insect and disease problems, plot availability, etc. may make this impossible. Therefore, the Kentucky Agricultural Experiment Station assumes absolutely no responsibility for any damages resulting from these tests. If for any reason the tests cannot be completed, test fees will not be refunded. Trade names of products mentioned or similar products not named is neither intended as an endorsement nor criticism of such products by the Kentucky Agricultural Experiment Station.

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RESET ENTRIES

RESET FORM

KENTUCKY SOYBEAN PERFORMANCE TEST NOMINATION FORM

PLEASE TYPE - FORM MUST BE FILLED IN COMPLETELY-PRINT AND MAIL

RETURN TO LIST OF TABLES

Marketing Outlet in Kentucky

Organization name ______________________

Nominators name ______________________ Name ______________________

Address ______________________ Address ______________________

______________________ ______________________

Phone ______________________ Phone ______________________

Email ______________________

Return form by February 20 to:
Eugene Lacefield
Agronomy Department, N-222C ASCN
University of Kentucky
Lexington, KY 40546-0091
Phone: (859) 257-2993
Fax: (859) 323-1952
E-mail: elace0@pop.uky.edu

List nominations with top priority for testing first. Any number of nominations may be made but we cannot guarantee that all will be tested. Information listed below may be used in the performance bulletin publication. Experimental entries should have a "EXP" prefix. Novel soybeans should have a "NS" prefix. **PLEASE TYPE**

Entry: type name exactly as it will appear in the publication	New this year[1] ✔	Maturity Group example 4.7	Roundup Ready ✔	Percent Germ[2]	Race (s) of Soybean Cyst Nematode Resistance	Check the appropriate race & resistance[3] Phytophtora sojae: Resistance Gene Rps	Phytophtora sojae: Field tolerance	Sudden Death Syndrome	Sybean Mosaic Virus	Stem Canker	Other
					1 3 4 5 9 14	1a 1b 1c 1d 1k 3a 6 7	S MS MT T	S MS MR R	S MR R	S MR R	
					1 3 4 5 9 14	1a 1b 1c 1d 1k 3a 6 7	S MS MT T	S MS MR R	S MR R	S MR R	
					1 3 4 5 9 14	1a 1b 1c 1d 1k 3a 6 7	S MS MT T	S MS MR R	S MR R	S MR R	
					1 3 4 5 9 14	1a 1b 1c 1d 1k 3a 6 7	S MS MT T	S MS MR R	S MR R	S MR R	
					1 3 4 5 9 14	1a 1b 1c 1d 1k 3a 6 7	S MS MT T	S MS MR R	S MR R	S MR R	
					1 3 4 5 9 14	1a 1b 1c 1d 1k 3a 6 7	S MS MT T	S MS MR R	S MR R	S MR R	
					1 3 4 5 9 14	1a 1b 1c 1d 1k 3a 6 7	S MS MT T	S MS MR R	S MR R	S MR R	

[1] Check if the entry was not in the KY test in 2002. If entry was in last years test as an experimental or the name has been changed please add a note to this effect.
[2] If not specified, 100% will be assumed.
[3] Use provided choices: S=susceptible, MS=moderately susceptible, MR=moderately resistant, R=resistant, T=tolerant MT=moderately tolerant
DO NOT SEND MONEY WITH THIS FORM. You will be notified at a later date which nominations have been accepted for testing and procedures for remittance of all fees.

I affirm that I have carefully studied the plans, rules, and procedures for the Kentucky Soybean Performance Tests and I will comply with all rules and procedures. Remittance of the fees will be made within 10 days after receiving the statement of fees from the Kentucky Agricultural Experiment Station.

Signature ______________________ Date ______________ Title ______________________