

Virginia Soybean Variety Evaluation Tests

2004



Virginia Soybean Variety Evaluation Tests 2004

David L. Holshouser, Soybean Specialist, Virginia Tech

Michael Ellis, Agricultural Technician, Virginia Tech

Patsy Lewis, Agricultural Technician, Virginia Tech

Nathan Carr, Former Research Specialist, Virginia Tech

Tidewater Agricultural Research and Extension Center

6321 Holland Rd.

Suffolk, Virginia 23437

(757) 657-6450

dholshou@vt.edu

erellis@vt.edu

<http://www.vaes.vt.edu/tidewater/soybean/>

Virginia Agricultural Experiment Station
Tidewater Agricultural Research and Extension Center

Disclaimer: Commercial products are named in this publication for informational purposes only. Virginia Cooperative Extension does not endorse these products and does not intend discrimination against other products which also may be suitable.

Table of Contents

Acknowledgments	i
Introduction to Variety Tests	1
Methods and Definitions	2
Production Information	3
Monthly Precipitation	4
Suppliers of Soybean Varieties	5

Tables of Data

Table 1a-h Yield Summaries and Average Relative Yield	7-13
Table 2a-d Performance of Maturity Group III Full-season Entries	14-15
Table 3a-d Performance of Maturity Group III Double-crop Entries	16-17
Table 4a-e Performance of Early-maturity Group IV Full-season Entries	18-21
Table 5a-e Performance of Early-maturity Group IV Double-crop Entries	22-24
Table 6a-e Performance of Late-maturity Group IV Full-season Entries	25-28
Table 7a-e Performance of Late-maturity Group IV Double-crop Entries	29-31
Table 8a-e Performance of Maturity Group V Full-season Entries	32-36
Table 9a-d Performance of Maturity Group V Double-crop Entries	37-40

Acknowledgements

Sincere thanks are given to the many cooperators and contributors who have made the Soybean Variety Evaluation Tests possible.

The cooperation and support offered by commercial seed companies, state crop improvement associations, and several experiment stations in supplying seed and information on varieties are gratefully acknowledged.

Special thanks are given to the following cooperators for supplying land and technical assistance for conducting these tests:

Bobby Ashburn, Tidewater Agricultural Research and Extension Center, Suffolk

Lin Barrack, Eastern Virginia Agricultural Research and Extension Center, Warsaw

Glenn Buss, Department of Crop and Soil Environmental Sciences, Virginia Tech, Blacksburg

Tommy Custis, Eastern Shore Agricultural Research and Extension Center, Painter

Dave Starner, Northern Piedmont Agricultural Research and Extension Center, Orange

Ted Haberland, Producer, Madison County

Ned Jones, Southern Piedmont Agricultural Research and Extension Center, Blackstone

A special note of appreciation is also extended to the unit Extension faculty members who do an excellent job of disseminating the information.

Financial assistance from the Virginia Soybean Board to help fund a portion of these tests is gratefully acknowledged.

Introduction to Variety Tests

The purpose of this publication is to provide performance data of the many soybean varieties offered for sale in Virginia. These data should be of benefit to producers and agribusinesses in making selections of varieties for their use. Not all varieties offered for sale in Virginia are included in these tests. This in no way implies that the varieties not included are inferior in any way, but only that they have not been tested. The private varieties that have been evaluated in these tests were submitted for testing by commercial seed companies.

Variety evaluations were conducted under full-season and double-crop conditions at Blackstone, Chesapeake, Orange, Painter, Suffolk, and/or Warsaw. All double-crop tests were no-till planted following small grains. Due to the number of entries, it was necessary to separate the varieties by maturity in all locations.

This was a very good year for Virginia soybean producers. Rainfall was 50 percent to 90 percent higher than normal and resulted in very high yields. In most cases, variability was low, giving very good results. Still, some locations experienced problems. The Orange double-crop test yield was very low. The MG 3 and early MG 4 tests were also variable. Although the test results are included, only the late MG 4 and MG 5 tests should be used to select varieties. The Warsaw double-crop test was dropped due to deer damage.

Interpreting the Results

Tables 1a through 1h contain yield summaries over all locations. Past analyses of test data indicated that variety selection should be made from multiple years and sites. More locations result in more reliable information. However, average yields over locations should not be used to select the highest yielding variety unless all varieties are tested in all locations because data will be skewed to those varieties that are tested in the highest yielding locations. Therefore, relative yield is a better method of comparing varieties over locations. Relative yield is calculated by dividing the yield of a variety by the average yield of all varieties within the same maturity group at that location. A variety with a relative yield of 105 was 5 percent above the average of all varieties at that location. Relative yield is not an actual yield, but a value that is relative to all other yield values at that location. Varieties are ranked by relative yield in descending order.

Tables 2 through 9 contain detailed yield and other information from each location. The highest average yielding varieties are listed first in each table. It is not statistically correct to compare varieties from different maturity groups. However, producers should select two to three of the highest yielding varieties from each maturity group adapted to their region in order to spread out harvesting time and yield risks associated with timing of summer rainfall patterns. Because of year-to-year variability in variety performance, data for varieties with less than three locations or three years of testing should be considered preliminary. The average performance of a variety over multiple environments is more reliable than its performance in one test. Multiple-year data can be obtained from the authors. Many of the new varieties, which do not have two-year averages, are excellent and will probably earn a share of the Virginia soybean acreage. Other traits also are shown in the tables (maturity, lodging, height, seed quality, purple stain, and seed size) because each producer emphasizes certain traits or a combination of traits when selecting varieties for his/her farm. After examining these results, the producer may want to plant limited quantities of several new better-performing varieties to observe how they perform on his/her farm and under his/her management conditions.

An LSD (least significant difference) was calculated within maturity groups at each location. The LSD is a statistical test calculated at the 10 percent probability level to aid the reader in comparing the yield differences among varieties within a particular maturity group. When two entries are compared and the difference between them is greater than the calculated LSD value, the varieties are considered to be significantly different. The "NS" designation indicates that there were no significant differences for yield among the varieties within that maturity group. The coefficient of variation (CV) is a relative measure of variation and is an indicator of the degree of precision associated with the test. For soybean variety evaluation tests, CV values less than 15 percent indicate that the precision of the test was good in distinguishing differences between varieties. R^2 is also a measure of variability. It gives information regarding significant differences. The higher the R^2 , the more likely that there are significant differences between varieties. When yields are low, R^2 can be a better indicator of degree of precision associated with the test than CV values.

Methods and Definitions

The variety test was evaluated in a randomized, complete block design and replicated three times. All tests were maintained weed free with herbicides and hand weeding. Row widths, number of rows planted and harvested, and length of row harvested are shown on the production information page. Harvests were conducted as near to the date of first harvest maturity as work schedules and weather would permit. Fertilizer was applied according to Virginia Tech soil test recommendations.

Maturity Group	Seeding Rates (seeds/acre)	
	Full-season	Double-crop
III	165,000	240,000
IV	165,000	220,000
V	165,000	220,000

Maturity was taken at the date when 95 percent of the pods turned brown (R8). Detailed maturity date information was not taken at the Painter or the Orange double-crop location due to greater travel distance from the Tidewater AREC.

Lodging notes are recorded on a scale of 1 to 5 according to the following criteria:

1.0 - almost all plants erect

2.0 - either all plants leaning slightly, or a few plants down

3.0 - either all plants leaning moderately (45° angle), or 25 percent to 50 percent down

4.0 - either all plants leaning considerably or 50 percent to 80 percent down

5.0 - all plants down

Plant Height is determined as the average length of plants in a plot from the ground to the uppermost node of the plant at maturity.

Purple Seed Stain (PSS) is the percentage of seed from a 100-seed sample that is affected with that disease.

Seed Quality (SQ) is rated from 1 to 5 according to the following scale:

1.0 = very good; 2.0 = good; 3.0 = fair; 4.0 = poor; 5.0 = very poor.

Seed quality ratings are a good representation of *Phomopsis* seed decay.

Seed Size (SS) is obtained from the weight of a 100-seed sample and is transformed to a number of seed per pound.

Yields were collected with a small-plot combine equipped with scales and a moisture tester. Yields were adjusted to 13 percent moisture. A bushel weight of 60 pounds (at 13 percent moisture) was used to determine bushel-per-acre (BU/AC) yield.

Production Information

Location	Planting Date	Tillage System	Herbicides	Date Applied	Insecticides	Soil Type	Row Width (inches)	Number of Rows Harvested (feet)		Length of Row harvested
								Planted	Harvested	
Blackstone-FS*	6/17	Conv.	Touchdown Dual Mag, Authority Basagran, Poast	4/27 5/20 8/19	None	Dothan-Norfolk Complex	15	5	3	17
Orange-FS	5/26	Conv.	Dual Mag II, Canopy	5/26	None	Starr, Silty Clay Loam	15	5	3	17
Painter-FS	5/13	Conv.	Dual II Mag, Harmony GT	5/18 6/15	None	Bojac sandy loam	15	5	3	17
Suffolk-FS	5/24	No-Till	Gramoxone, Dual Mag, Canopy XL	5/24	None	Lynchburg FSL	15	5	3	17
Warsaw-FS	5/25	Conv.	Python, Dual MagReflex, Select	5/25 8/9	None	Kempsville L	30	4	2	12
Blackstone-DC*	7/07	No-Till	Touchdown Dual Mag, Authority Basagran, Poast	4/27 5/20 8/19	None	Appling Cecil Sandy Loam	15	5	3	17
Orange-DC	7/1	No-Till	Dual Mag, Canopy XL, Roundup Weathermax	7/1	None	Davidson Clay Loam	15	5	3	17
Painter-DC	7/8	No-Till	Dual Mag, Roundup Ultra, Lorox DF Select	7/10 8/26	None	Bojac sandy loam	15"	5	3	17
Suffolk-DC	6/22	No-Till	Gramoxone, Dual Mag, Canopy XL	6/22	None	Lynchburg FSL	15	5	3	17
Warsaw-DC	6/20	No-Till	Roundup Ultra Dual Mag Reflex, Select	6/20 8/9	None	Kempsville L	7.5	5	5	12

*FS = Full-Season, DC = Double-crop

Monthly and Average Percipitation (Inches) During May Through October at Variety Test Locations

Location		May	June	July	Aug.	Sept.	Oct.	Total
Blackstone	2004	2.94	7.07	6.83	9.62	5.03	2.21	33.70
	56-yr Avg.	3.94	4.07	4.75	4.06	3.63	3.28	23.74
Orange	2004	4.77	5.16	9.07	1.78	6.92	0.73	28.43
	63-yr. Avg.	3.85	3.81	4.52	3.92	3.76	3.41	23.27
Painter	2004	2.72	6.19	10.28	9.66	1.77	3.83	34.45
	65-yr Avg.	3.40	3.36	4.53	4.17	3.56	3.38	22.40
Suffolk	2004	4.77	5.10	12.53	11.0	5.60	4.52	43.52
	73-yr. Avg.	4.04	4.22	5.88	5.81	4.19	3.43	27.29
Warsaw	2004	4.49	4.79	10.62	12.24	5.04	1.23	38.41
	40-yr Avg.	4.41	3.81	4.24	4.22	4.28	3.20	24.16

Suppliers of Soybean Varieties Tested in 2004

Supplier	Brand	Variety
Brown Seed Enterprises 289 CR 550 N Neoga, IL 62447	Midland	9A485XRR
Chemgro Seeds P.O. Box 218 East Petersburg, PA 17508	Chemgro	4937RR
Delta King Seed Co. P.O. Box 970 McCrory, AR 72101	Delta King	DKXTJ548, DKXTJ555
Delta & Pine Land Co. 103 Seaboard Ave. Piedmont, AL 36272	D&PL	DP3861RR, DPX3950RR, DP4331RR, DPX4891RR, DP4546RR, DP4690RR, DP4724RR, DP4933RR, DP5414RR, DP5634RR, DP4748S, DP5110S, DPX5808RR, DP5915RR
Featherstone Farm Seed 13941 Genito Rd. Amelia, VA 23002	Delta King Clark	DK4868RR, DK4967RR, DK4461, DK5961RR, DK5967RR, CL54RR
Doebler's INC. 202 Tiadagton Ave Jersey Shore, PA 17740	Doebler's	DB3548, DB4236
Garst Seed Co. 4850 W 350 N Danville, IN 46122	Garst	4212RR/STS/N, 4612RR/N, 4512RR/N, 5012RR/N, 5212RR/N
University of Maryland Room 1112 HJP Hall College Park, MD 20742-5821	Public	Manokin
Monsanto Company 3100 Sycamore Rd. Dekalb, IL 60115	Dekalb Asgrow	DKB46-51 AG4502, AG4603, AG4801, AG4903, AG5301, AG5605, AG5603, AG5903, AG5905
Montague Farms Rt. 2, Box 6 Center Cross, VA 22437	Montague	MFS-591, MFL-159
N.C. Foundation Seed, Inc. 8220 Riley Hill Rd Zebulon, NC 27597	Public	Fowler
Pioneer, A Dupont Co. 6767 Old Madison Pike, Ste 110 Huntsville, AL 35806	Pioneer	94B73, 95B42, 95B96, 94M41, 94M70, 93M90
Royster Clark, Inc. 717 Robinson Road Washington C.H., OH 43160 Stewart Seeds, Inc. P.O. Box 104 2203 E. Co. Rd. 300 N Greensburg, IN 47240	Vigoro Steward	V38N4RR, V39N4RR, V442NRR, V462NRS, V47N3RR, V48N5RR, V52N3RR, V53N5RS, V55N5RR SB4359C

Suppliers of Soybean Varieties Tested in 2004 (cont.)

Supplier	Brand	Variety
Southern States Coop P.O. Box 26234 Richmond, VA 23260	Southern States	5200STS, RT3802N, RT3975, RT3940N, RT4098, RT-4230N, RT4440N, RT446N, RT4502N, RT4980, RT4810N, RT5001N, RT5130N, RT5302N, RT557N, RT5540N, RT5602N, RT5450
Syngenta Seeds, Inc. 1993 Wesley Land Greenville, NC 27858	NK	S39-K6, S42-H1, S49-Q9, S50-N3, S52-U3, S56-D7, S54-G9
TA Seeds P.O. Box 300 Avies, PA 17721	TA	TS 3659
UniSouth Genetics, Inc. 2640-C Nolensville Rd. Nashville, TN 37211	USG	540NRR, 5601T, 550NSTS, 510NRR, 5002T, 7440NRR, 7384NRS, 7393nRR, 7434NRR, 7443NRR, 7484NRR, 7489nRR, 7523NRR, 7524nRR, 7499nRR, 7403nRR, 7482nRR, 7553nRR, 7582NRR, 7494NRR, 7504NRR, 7514NRR
¹ University of Maryland H.J. Paterson Hall College Park, MD 20742	Maryland	Md 96-5722
Virginia Foundation Seed 9124 Atlee Station Road Mechanicsville, VA 23166	Public	Hutcheson, Teejay
Virginia Polytechnic Institute & State University Soybean Breeding Program Dept. Crop & Soil Environ. Sci. Blacksburg, VA 24061	Virginia Tech Breeding Lines	V98-2711, V99-0023, V99-7139, V99-7786, V98-9005, V00-3650

Table 1a. 2004 Yield Summaries and Average Relative Yield of Full-season Maturity Group III Entries

Brand	Variety	Herb. Resist.	ORG	PTR	SUF	WAR	Average	Avg. Rel. Yield
USG	7384nRS	RR/STS		74.9	58.7	63.5	65.7	106
Vigoro	V39N4RR	RR		72.3	59.2	64.5	65.3	105
S.States	RT3940N	RR	60.6		62.4	61.8	61.6	104
Vigoro	V38N4RR	RR		73.5	58.6	59.7	63.9	103
Pioneer	93M90	RR	62.0		59.3	60.1	60.5	102
Doebler's	DB3548	RR	62.6	65.3		62.1	63.4	101
D&PL	DPX3950RR	RR	62.6	66.9	60.6	57.0	61.8	101
USG	7393nRR	RR		65.8	57.4	62.3	61.8	100
NK	S39-K6	RR	63.3		52.9	60.9	59.0	99
T.A. Seed	TS 3659	RR	59.2	64.5	55.3		59.7	97
D&PL	DP3861RR	RR	60.9	62.1	50.1	61.9	58.7	96
S.States	RT3975	RR	54.6		57.6	56.1	56.1	95
S.States	RT3802N	RR	55.8		53.9	55.5	55.1	93
GRAND MEAN			60.2	68.2	57.2	60.4	61.0	100

Table 1b. 2004 Yield Summaries and Average Relative Yield of Double-crop Maturity Group III Entries

Brand	Variety	Herb. Resist.	ORG	PTR	SUF	WAR	Average	Avg. Rel. Yield
Vigoro	V39N4RR	RR	----	38.7	56.6	----	47.6	111
Vigoro	V38N4RR	RR	----	32.2	60.0	----	46.1	104
S.States	RT3802N	RR	----		55.2	----	55.2	102
S.States	RT3975	RR	----		52.7	----	52.7	97
S.States	RT3940N	RR	----		52.5	----	52.5	97
D&PL	DP3861RR	RR	----	27.7	48.3	----	38.0	87
GRAND MEAN			----	32.8	54.2		48.7	100

Table 1c. 2004 Yield Summaries and Average Relative Yield of Full-season, Early-maturity Group IV Entries

Brand	Variety	Herb. Resist.	BLK	ORG	PTR	SUF	WAR	Average	Avg. Rel. Yield
USG	7434nRR	RR			73.9	63.3	66.4	67.9	116
Vigoro	V442NRR	RR			65.5	59.2	66.4	63.7	109
Dekalb	DKB46-51	RR		53.6	64.3		66.2	61.3	108
USG	7440nRR	RR			63.9	59.8	64.7	62.8	108
Asgrow	AG4502	RR		53.4	59.6		68.0	60.3	106
Doebler's	DB4236	RR		54.3		58.3	62.0	58.2	105
USG	7443nRR	RR	59.1		63.8	57.0	65.3	61.3	105
DeltaKing	DK4461RR	RR		56.6	53.5		65.3	58.5	104
D&PL	DP 4331RR	RR	61.1	48.7	61.2	59.4	65.3	59.1	104
USG	7403nRR	RR	55.6		66.3	59.5	59.5	60.2	103
S.States	RT4230N	RR		51.6		62.0	56.3	56.6	102
D&PL	DP 4690RR	RR	64.6	49.2	52.7	61.3	61.2	57.8	101
S.States	RT4502N	RR		54.4		53.4	59.6	55.8	101
NK	S42-H1			50.4		55.9	60.2	55.5	100
D&PL	DP 4546RR	RR	61.2	54.3	53.6	56.7	55.8	56.3	99
Pioneer	94M41	RR		45.7		60.0	57.9	54.5	98
Asgrow	AG4603	RR		46.5	60.6		58.6	55.2	97
Vigoro	V462NRS	RR/STS			55.6	53.6	60.8	56.7	97
S.States	RT4098	RR		50.8		53.8	54.9	53.2	96
Maryland	Md 96-5722				63.3	46.7	56.7	55.6	95
S.States	RT446N	RR		52.4		50.2	54.4	52.3	95
Virginia	V99-7139		57.1	49.1	55.8	51.8	50.6	52.9	93
Public	Manokin		62.1	43.9	44.4	53.2	57.9	52.3	92
Stewart	SB4359C				54.3	49.6	56.2	53.4	92
Virginia	V99-7786		55.0	46.3	53.4	43.2	50.3	49.6	87
GRAND MEAN			59.5	50.7	59.2	55.6	60.0	57.2	100

Table 1d. 2004 Yield Summaries and Average Relative Yield of Double-crop, Early-maturity Group IV Entries

Brand	Variety	Herb. Resist.	BLK	ORG	PTR	SUF	WAR	Average	Avg. Rel. Yield
S.States	RT4502N	RR		21.3		54.5	----	37.9	117
D&PL	DP4331RR	RR	51.4	21.8	38.0	57.7	----	42.2	111
Public	Manokin		55.3	19.7	38.8	58.0	----	43.0	111
Vigoro	V442NRR	RR	51.6	19.7	40.2	55.8	----	41.8	109
D&PL	DP4690RR	RR	56.3	17.3	36.1	61.7	----	42.9	108
Asgrow	AG 4603	RR	50.0	19.3			----	34.7	107
Garst	4212RR/STS/N	RR/STS			35.2	60.3	----	47.7	105
Garst	4512RR/N	RR			37.2	55.8	----	46.5	103
USG	7423nRR	RR			36.6	56.5	----	46.5	103
Maryland	Md 96-5722				38.3	51.3	----	44.8	101
Pioneer	94M41	RR		15.4		54.6	----	35.0	99
D&PL	DP 4546RR	RR	49.4	16.7	36.7	51.8	----	38.6	99
S.States	RT446N	RR		17.6		47.1	----	32.4	98
Garst	4612RR/N	RR			38.1	48.9	----	43.5	98
Dekalb	DKB46-51	RR		15.4	38.0		----	26.7	98
Stewart	SB4359C				36.7	46.3	----	41.5	94
S.States	RT4230N	RR		12.2		56.0	----	34.1	91
Virginia	V99-7786		47.7	12.6	38.8	42.8	----	35.5	89
Asgrow	AG4502	RR/STS		12.6	37.3		----	24.9	88
S.States	RT4098	RR		11.8		51.2	----	31.5	85
Virginia	V99-7139		47.2	14.3	34.0	26.9	----	30.6	80
	GRAND MEAN		51.1	16.5	37.3	52.1		38.2	100

Table 1e. 2004 Yield Summaries and Average Relative Yield of Full-season, Late-maturity Group IV Entries

Brand	Variety	Herb. Resist.	BLK	ORG	PTR	SUF	WAR	Average	Avg. Rel. Yield
Asgrow	AG4903	RR/STS		66.9	54.1		70.1	63.7	109
USG	7484nRR	RR			61.2	65.6	61.4	62.8	107
Asgrow	AG4801	RR		68.0	50.8		68.5	62.4	107
DeltaKing	DKXTJ548	RR/STS			59.9	62.6	62.2	61.6	105
D&PL	DP 4690RR	RR	66.0	63.3	57.8	61.3	64.8	62.6	105
D&PL	DP 4748S	STS	67.4	60.7	50.3	69.7	64.5	62.5	104
Vigoro	V47N3RR	RR			50.8	66.4	67.0	61.4	104
DeltaKing	DK 4967RR	RR			56.8	63.7	62.4	61.0	104
D&PL	DPX4891RR	RR	67.6	56.6	65.5	57.5	61.1	61.7	104
Vigoro	V48N5RR	RR			52.4	62.6	68.1	61.0	104
D&PL	DP 4724RR	RR	62.0	62.5	53.1	63.9	61.7	60.7	102
DeltaKing	DK 4868RR	RR		61.4	52.6	62.4	62.0	59.6	101
USG	7482nRR	RR	62.1		53.2	64.6	60.3	60.0	100
Pioneer	94M70	RR		57.2		64.5	60.5	60.7	99
NK	S50-N3	RR		54.6		61.5	64.7	60.3	99
Pioneer	94B73	RR		61.4		56.1	62.5	60.0	98
NK	S49-Q9	RR		56.7		59.5	63.6	59.9	98
S.States	RT4980	RR		56.6		60.8	61.0	59.5	97
USG	7489RR	RR	65.5		48.2	56.0	62.5	58.0	97
S.States	RT4810N	RR		56.4		58.3	62.7	59.2	97
Public	Manokin		59.3	59.1	41.1	61.2	60.2	56.2	94
Chemgro	4937RR	RR			45.4	57.5	60.8	54.6	93
D&PL	DP 4933RR	RR	53.1	53.8	45.9	52.2	61.1	53.2	89
Midland	9A485X RR	RR			47.9	54.6	49.9	50.8	87
GRAND MEAN			62.9	59.7	52.6	61.0	62.6	59.7	100

Table 1f. 2004 Yield Summaries and Average Relative Yield of Double-crop, Late-maturity Group IV Entries

Brand	Variety	Herb. Resist.	BLK	ORG	PTR	SUF	WAR	Average	Avg. Rel. Yield
D&PL	DP 4748S	STS	57.4	----	41.1	63.2	----	53.9	110
DeltaKing	DK 4868RR	RR		----	41.0	60.8	----	50.9	107
Delta King	DK 4461RR	RR	58.5	----	39.4	59.4	----	52.4	107
Vigoro	V48N5RR	RR		----	44.6	54.7	----	49.6	106
Public	Manokin		54.8	----	42.6	58.0	----	51.8	106
Midland	9A485X RR	RR		----	40.2	57.5	----	48.9	103
Vigoro	V442NRR	RR		----	38.4	58.7	----	48.5	102
D&PL	DP 4690RR	RR	50.4	----	42.8	51.9	----	48.4	100
D&PL	DPX4891RR	RR	52.5	----	38.0	56.2	----	48.9	100
USG	7494nRR	RR		----	39.6	53.1	----	46.4	98
D&PL	DP 4546 RR		48.3	----	38.5	54.1	----	47.0	96
D&PL	DP 4724RR	RR	50.0	----	36.8	54.0	----	47.0	96
Vigoro	V462NRS	RR		----	37.0	52.7	----	44.8	95
DeltaKing	DK 4967RR	RR		----	34.5	54.1	----	44.3	93
D&PL	DP 4933RR	RR	45.6	----	33.9	50.4	----	43.3	88
USG	7499nRR	RR		----	33.5	49.3	----	41.4	87
Vigoro	V47N3RR	RR		----	32.8	48.6	----	40.7	86
Asgrow	AG4903	RR/STS		----	46.3		----	46.3	119
Asgrow	AG4801	RR		----	39.7		----	39.7	102
S.States	RT4980	RR		----		65.0	----	65.0	116
Pioneer	94B73	RR		----		59.7	----	59.7	107
Pioneer	94M70	RR		----		55.4	----	55.4	99
S.States	RT4810N	RR		----		55.9	----	55.9	100
GRAND MEAN			52.2	----	39.0	55.8		49.1	100

Table 1g. 2004 Yield Summaries and Average Relative Yield of Full-season Maturity Group V Entries

Brand	Variety	Herb. Resist.						Avg. Rel. Yield	
			BLK	ORG	PTR	SUF	WAR	Average	
USG	5002T				62.3	71.0	68.4	67.3	119
USG	7553nRS	RR/STS			52.3	67.5	68.5	62.8	110
Virginia	V98-9005		58.4	63.1	51.8	69.3	62.5	61.0	110
Virginia	V98-2711			60.8	47.2	56.7	68.2	64.1	59.4
USG	5601T			50.9	61.7	55.9	62.5	64.2	107
Public	Teejay			56.9	58.5	49.1	67.5	64.7	107
Asgrow	AG5605	RR/STS			57.4	49.4	69.2	64.3	106
D&PL	DP5110S	STS	60.4	62.8	50.7	62.4	57.4	58.8	106
Asgrow	AG5903	RR			53.0	51.0	68.0		104
Asgrow	AG5603	RR/STS	58.4				62.6	61.5	104
USG	7524nRR	RR				48.6	69.1	58.7	58.8
Vigoro	V55N5RR	RR	56.5			47.3	64.8	61.1	103
S.States	RT5540N	RR	59.1			46.9	65.3	58.0	103
Asgrow	AG5905	RR			58.9	44.4	67.6		103
Asgrow	AG5301	RR			55.0	48.4	67.1	60.9	103
DeltaKing	DKXTJ555	RR	56.0			48.9	61.2		102
Vigoro	V52N3RR	RR	57.6			48.5	62.7	57.8	56.6
S.States	RT5130N	RR	56.0	54.0		48.7	61.9	61.5	102
NK	S56-D7	RR	51.5				66.4	60.7	101
D&PL	DP5915RR	RR	47.4			48.4	68.8	61.9	101
S.States	5200STS	STS	59.5			41.5	64.8	59.3	100
D&PL	DP5414RR	RR	47.2	59.4		47.5	66.9	57.7	100
Pioneer	95B42	RR	53.7				65.0	58.1	100
Clark	CL54	RR	58.0			42.8	62.2		100
USG	7582nRR	RR				38.4	67.1	67.2	99
Public	Fowler		57.5	46.3		48.9	62.1	60.0	99
USG	7523nRR	RR				49.4	58.6	60.8	99
Public	Hutcheson		46.0	56.6		48.2	61.8	59.1	98
S.States	RT5602N	RR	48.2			50.6	61.9	56.5	98
S.States	RT-5450N	RR	45.2				65.2	62.4	97
S.States	RT5302N	RR	50.5			45.9	63.9	57.0	97
Vigoro	V53N5RS	RR/STS	37.8			50.5	67.2	59.6	96
Montague	MFL-159		53.0	45.4		40.4	69.7	57.5	95
DeltaKing	DK5967RR	RR	47.7			44.5	62.8		94
DeltaKing	DK5961RR	RR	59.3			36.6	58.6		94
D&PL	DP5634RR	RR	47.7	42.2		45.1	68.0	58.6	94
S.States	RT557N	RR	43.1			42.8	61.3	60.8	93
NK	S52-U3	RR		48.1			60.3	56.9	92
S.States	RT5001N	RR	45.0	55.1		42.7	55.9	53.3	91
USG	550nSTS	STS				42.2	55.1	56.0	90
D&PL	DPX5808RR	RR	46.0			35.0	65.1	53.9	88
Montague	MFS-591			43.5		33.0		48.2	78
	GRAND MEAN		52.2	54.4		46.9	64.6	60.0	100

Table 1h. 2004 Yield Summaries and Average Relative Yield of Double-crop Maturity Group V Entries

Brand	Variety	Herb. Resist.	BLK	PTR	SUF	WAR	Average	Avg. Rel. Yield
S.States	5200STS	STS	55.0		55.0	---	55.0	119
S.States	RT5540N	RR	52.3		53.4	---	52.9	114
Virginia	V98-9005		49.7	47.4	50.6	---	49.2	112
Vigoro	V55N5RR	RR	48.1	40.1	55.4	---	47.9	108
USG	5601T		48.4	40.9	53.8	---	47.7	108
USG	540nRR	RR		41.8	53.4	---	47.6	108
Virginia	V98-2711		48.6	44.3	47.6	---	46.8	107
USG	7504nRR	RR		39.1	54.1	---	46.6	105
Montague	MFL-159		47.4	44.0	46.9	---	46.1	105
Vigoro	V53N5RS	RR/STS	45.6	42.2	50.9	---	46.2	105
S.States	RT5302N	RR	47.1		50.4	---	48.7	105
NK	S56-D7	RR	48.7		48.3	---	48.5	105
D&PL	DP5634RR	RR	50.6	39.4	47.9	---	46.0	105
Public	Teejay		47.0	40.7	50.1	---	45.9	104
D&PL	DP5110S	STS	45.7	42.4	49.0	---	45.7	104
Garst	5012RR/N	RR		36.9	54.9	---	45.9	103
Public	Hutcheson		41.7	40.6	54.0	---	45.4	103
S.States	RT5130N	RR	49.3	37.9	47.9	---	45.0	102
NK	S54-G9	RR	48.3		45.0	---	46.6	101
USG	7514nRR	RR		41.2	46.6	---	43.9	100
D&PL	DP5414RR	RR	40.9	42.5	48.6	---	44.0	100
S.States	RT-5450N	RR	45.5		46.1	---	45.8	99
Public	Fowler		35.9	43.6	49.9	---	43.2	98
USG	510nRR	RR		37.1	47.8	---	42.5	96
Pioneer	95B96	RR	41.3		48.2	---	44.7	96
Pioneer	95B42	RR	43.1	35.7	47.1	---	41.9	95
Clark	CL54RR	RR	38.2	34.0	49.4	---	40.5	92
Pioneer	P 95B42	RR		35.7		---	35.7	91
Garst	5212RR/N	RR		39.0	38.8	---	38.9	90
S.States	RT5001N	RR	36.9	35.6	41.6	---	38.1	87
S.States	RT557N	RR	36.5		41.7	---	39.1	84
S.States	RT5602N	RR	32.3		43.8	---	38.1	82
Montague	MFS-591		30.8	32.4		---	31.6	76
Virginia	V00-3650		36.9	25.5	38.7	---	33.7	76
GRAND MEAN			44.1	39.2	48.6		44.3	99.7

Table 2a. 2004 Performance of Full-season Maturity Group III Entries at Orange, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
NK	S39-K6	RR	24-Sep	2.3	42	0	2.3	3078	63.3
D&PL	DPX3950RR	RR	30-Sep	3.3	42	2	1.7	2390	62.6
Doebler's	DB3548	RR	21-Sep	2.3	42	2	2.7	2934	62.6
Pioneer	93M90	RR	24-Sep	2.0	46	2	2.3	2762	62.0
D&PL	DP3861RR	RR	28-Sep	4.0	41	4	1.0	2921	60.9
S.States	RT3940N	RR	30-Sep	2.7	42	1	2.0	2374	60.6
T.A. Seed	TS 3659	RR	21-Sep	1.8	44	5	2.7	3070	59.2
Virginia	V99-7711		14-Sep	3.3	43	3	3.0	2932	58.9
S.States	RT3802N	RR	21-Sep	2.5	48	0	1.7	3121	55.8
S.States	RT3975	RR	21-Sep	2.5	46	4	1.7	2825	54.6
Virginia	V99-7770		14-Sep	2.2	44	5	3.0	2862	48.7
Grand Average			22-Sep	2.6	55	3	2.2	2862	59.1
R-Squared				0.84	0.74	0.86	0.73	0.72	0.86
CV				0.1	18.6	2.2	55.8	20.8	4.5
LSD (0.10)				3.8	0.6	1.3	2.1	0.6	178
									10.3

Table 2b. 2004 Performance of Full-season Maturity Group III Entries at Painter, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
USG	7384nRS	RR/STS	23-Sep	1.8	33	5	2.7	2897	74.9
Vigoro	V38N4RR	RR	7-Oct	2.3	36	4	3.3	2196	73.5
Vigoro	V39N4RR	RR	23-Sep	2.3	37	6	2.7	2886	72.3
D&PL	DPX3950RR	RR	7-Oct	1.8	35	9	3.3	2317	66.9
USG	7393nRR	RR	7-Oct	2.0	34	9	4.0	2289	65.8
Doebler's	DB3548	RR	22-Sep	1.5	36	11	2.7	2532	65.3
T.A. Seed	TS 3659	RR	29-Sep	1.5	37	15	3.3	3011	64.5
D&PL	DP3861RR	RR	7-Oct	2.0	35	8	3.0	2282	62.1
Virginia	V99-7770		13-Sep	2.2	32	8	3.7	2577	56.0
Virginia	V99-7711		14-Sep	4.8	38	3	3.7	2829	53.0
Grand Average			27-Sep	2.2	35	9	3.2	2621	65.4
R-Squared				0.66	0.84	0.85	0.53	0.76	0.92
CV				0.1	22.8	3.1	59.7	12.4	4.4
LSD (0.10)				11.5	0.7	1.5	6.9	0.5	157
									5.3

Table 2c. 2004 Performance of Full-season Maturity Group III Entries at Suffolk, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
S.States	RT3940N	RR	27-Sep	2.2	32	7.7	2.7	2369	62.4
D&PL	DPX3950RR	RR	27-Sep	2.3	34	7.3	2.3	2541	60.6
Pioneer	93M90	RR	28-Sep	1.8	39	6.0	3.0	2515	59.3
Vigoro	V39N4RR	RR	27-Sep	2.3	34	9.3	2.3	2345	59.2
USG	7384nRS	RR/STS	27-Sep	1.2	35	3.7	2.0	3035	58.7
Vigoro	V38N4RR	RR	27-Sep	2.3	39	7.3	2.0	2808	58.6
S.States	RT3975	RR	24-Sep	1.3	39	7.3	1.7	2936	57.6
USG	7393nRR	RR	27-Sep	2.7	36	7.7	3.0	2360	57.4
T.A. Seed	TS 3659	RR	23-Sep	1.7	36	10.8	2.5	3114	55.3
S.States	RT3802N	RR	27-Sep	2.5	44	5.7	2.0	2689	53.9
NK	S39-K6	RR	27-Sep	2.2	35	3.3	1.7	2743	52.9
D&PL	DP3861RR	RR	25-Sep	2.2	34	8.0	1.3	3327	50.1
Virginia	V99-7770		22-Sep	1.5	34	7.3	3.0	2830	46.8
Virginia	V99-7711		21-Sep	2.0	33	11.0	3.3	2925	41.6
Grand Average			25-Sep	2.0	36	8	2.4	2777	55.3
R-Squared				0.77	0.87	0.80	0.51	0.72	0.86
CV				0.1	12.1	6.4	41.8	18.6	5.3
LSD (0.10)				2.1	0.3	3.1	4.3	0.6	199
									7.4

Table 2d. 2004 Performance of Full-season Maturity Group III Entries at Warsaw, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Vigoro	V39N4RR	RR	2-Oct	2.1	31	5	2.4	2383	64.5
USG	7384nRS	RR/STS	24-Sep	1.8	34	5	2.1	2974	63.5
USG	7393nRR	RR	27-Sep	2.5	33	2	2.3	2343	62.3
Doebler's	DB3548	RR	24-Sep	1.7	32	12	2.7	2789	62.1
D&PL	DP3861RR	RR	24-Sep	2.0	33	9	2.5	3021	61.9
S.States	RT3940N	RR	27-Sep	2.0	33	2	1.9	2458	61.8
NK	S39-K6	RR	24-Sep	1.7	35	2	1.9	2934	60.9
Pioneer	93M90	RR	25-Sep	1.9	37	5	2.7	2738	60.1
Vigoro	V38N4RR	RR	23-Sep	2.0	34	9	2.4	2964	59.7
D&PL	DPX3950RR	RR	27-Sep	1.9	30	1	1.9	2602	57.0
S.States	RT3975	RR	23-Sep	1.8	36	6	2.3	3019	56.1
S.States	RT3802N	RR	23-Sep	2.3	39	5	2.2	2815	55.5
Virginia	V99-7711		20-Sep	1.9	34	21	3.8	2517	46.0
Virginia	V99-7770		23-Sep	1.8	33	25	4.2	2553	43.4
Grand Average			24-Sep	1.9	34	10	2.6	2803	58.0
R-Squared				0.77	0.55	0.74	0.90	0.92	0.95
CV				0.1	1.1	5.0	38.5	9.4	2.7
LSD (0.10)				2.7	0.4	2.3	4.3	0.4	101
									4.3

Table 3a. 2004 Performance of Double-crop Maturity Group III Entries at Orange, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
S.States	RT3802N	RR	----	1.2	19	10.7	3.3	3084	15.8
S.States	RT3975	RR	----	1.0	18	12.0	3.7	3173	13.9
S.States	RT3940N	RR	----	1.0	16	6.0	3.7	2688	13.8
D&PL	DP3861RR	RR	----	1.0	14	12.0	3.0	3467	11.8
Virginia	V99-7711		----	1.0	16	4.3	4.0	4078	6.6
Virginia	V99-7770		----	1.0	17	9.7	4.0	4494	5.8
	Grand Average			1.0	17	9.1	3.6	3497	11.3
	R-Squared			0.41	0.50	0.50	0.71	0.67	0.79
	CV			11.4	13.5	40.6	9.7	19.0	23.4
	LSD (0.10)			0.2	3.3	5.8	0.5	985	3.9

*Maturity readings were not taken on a regular basis

Table 3b. 2004 Performance of Double-crop Maturity Group III Entries at Painter, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Vigoro	V39N4RR	RR	----	1.2	23	2.7	2.0	2237	38.7
Vigoro	V38N4RR	RR	----	1.0	20	2.7	1.0	2730	32.2
Virginia	V99-7711		----	1.2	22	2.0	2.0	2803	29.9
Virginia	V99-7770		----	1.0	20	5.3	2.7	2541	27.7
D&PL	DP3861RR	RR	----	1.2	20	2.3	1.3	2862	27.7
	Grand Average		----	1.1	21	3	1.8	2635	31.2
	R-Squared			0.66	0.51	0.66	0.79	0.98	0.73
	CV			14.4	8.3	54.1	22.7	1.6	10.9
	LSD (0.10)			0.2	2.6	2.5	0.6	66	5.2

*Maturity readings were not taken on a regular basis

Table 3c. 2004 Performance of Double-crop Maturity Group III Entries at Suffolk, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Vigoro	V38N4RR	RR	12-Oct	1.2	34	3	1.7	2955	60.0
Vigoro	V39N4RR	RR	12-Oct	1.2	31	4	1.7	2590	56.6
S.States	RT3802N	RR	14-Oct	1.5	38	2	2.0	2854	55.2
S.States	RT3975	RR	12-Oct	1.2	38	3	2.0	3034	52.7
S.States	RT3940N	RR	12-Oct	1.5	30	0	2.0	2565	52.5
D&PL	DP3861RR	RR	12-Oct	1.0	29	6	1.0	3372	48.3
Virginia	V99-7770		12-Oct	1.0	28	9	3.0	2816	40.9
Virginia	V99-7711		12-Oct	2.8	31	9	3.0	2977	39.2
	Grand Average		12-Oct	1.4	32	5	2.0	2895	50.7
	R-Squared			0.39	0.78	0.93	0.71	0.89	0.91
	CV			0.01	28.4	4.0	55.0	14.6	3.4
	LSD (0.10)			2.0	0.6	1.9	3.6	0.4	143
									6.8

Table 3d. 2004 Performance of Double-crop Maturity Group III Entries at Warsaw, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
-------	---------	------------------	------------------	----------------	---------------	-------	--------	---------------	---------------

DEER DAMAGE; DATA NOT REPORTED

Table 4a. 2004 Performance of Full-season, Early-maturity Group IV Entries at Blackstone, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
D&PL	DP 4690RR	RR	---	2.3	35	3.0	1.0	2600	64.6
Public	Manokin		---	4.2	33	0.3	1.3	3042	62.1
D&PL	DP 4546RR	RR	---	2.3	33	1.0	1.3	2491	61.2
D&PL	DP4331RR	RR	---	1.8	31	1.7	1.0	2923	61.1
USG	7443RR	RR	---	1.0	29	4.0	1.3	2741	59.1
Virginia	V99-7139		---	1.7	26	4.0	3.0	3021	57.1
USG	7403nRR	RR	---	1.0	25	16.3	3.0	2443	55.6
Virginia	V99-7786		---	2.5	33	9.3	3.3	2923	55.0
Grand Average			---	2.1	31	5	1.9	2773	59.5
R-Squared				0.91	0.92	0.85	0.91	1.00	0.54
CV				17.7	4.1	58.1	20.1	1.5	7.5
LSD (0.10)				0.5	1.8	4.1	0.6	61	5.8

*Maturity readings were not taken on a regular basis

Table 4b. 2004 Performance of Full-season, Early-maturity Group IV Entries at Orange, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
DeltaKing	DK4461RR	RR	4-Oct	2.5	48	0.7	1.0	3020	56.6
S.States	RT4502N	RR	30-Sep	1.8	47	0.3	1.7	2862	54.4
D&PL	DP 4546RR	RR	8-Oct	3.5	47	1.3	1.0	2601	54.3
Doebler's	DB4236	RR	27-Sep	1.5	37	1.0	2.7	2722	54.3
Dekalb	DKB46-51	RR	4-Oct	2.7	44	1.3	1.7	2875	53.6
Asgrow	AG4502	RR	Oct-04	2.0	43	1.3	1.7	2676	53.4
S.States	RT446N	RR	30-Sep	1.7	47	0.7	1.7	2678	52.4
S.States	RT4230N	RR	30-Sep	2.5	42	1.0	2.0	2655	51.6
S.States	RT4098	RR	23-Sep	2.2	43	5.0	1.7	3000	50.8
NK	S42-H1		30-Sep	2.5	45	0.0	2.0	2775	50.4
D&PL	DP 4690RR	RR	5-Oct	2.7	49	1.9	1.0	2999	49.2
Virginia	V99-7139		21-Sep	3.8	42	1.5	3.5	3570	49.1
D&PL	DP 4331RR	RR	2-Oct	2.2	47	1.0	1.0	3212	48.7
Asgrow	AG4603	RR	4-Oct	2.2	43	0.7	1.0	2963	46.5
Virginia	V99-7786		20-Sep	3.8	48	1.3	2.3	3232	46.3
Pioneer	94M41	RR	1-Oct	2.3	48	1.0	1.0	2652	45.7
Public	Manokin		8-Oct	4.5	45	0.5	1.0	3235	43.9
Grand Average			1-Oct	2.6	45	1	1.6	2918	50.8
R-Squared				0.88	0.88	0.72	0.62	0.85	0.24
CV				0.1	12.8	5.6	78.7	23.5	4.4
LSD (0.10)				3.1	0.5	3.4	3.1	0.5	10.0

Table 4c. 2004 Performance of Full-season, Early-maturity Group IV Entries at Painter, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
USG	7434nRR	RR	7-Oct	1.8	34	6	3.3	2426	73.9
USG	7403nRR	RR	7-Oct	1.2	32	2	3.0	2759	66.3
Vigoro	V442NRR	RR	7-Oct	2.3	41	2	2.0	3138	65.5
Dekalb	DKB46-51	RR	7-Oct	2.2	39	4	3.0	2870	64.3
USG	7440nRR	RR	7-Oct	2.5	40	2	2.0	3055	63.9
USG	7443nRR	RR	7-Oct	2.0	39	3	2.0	3016	63.8
Maryland	Md 96-5722		13-Oct	2.7	44	2	2.7	2864	63.3
D&PL	DP4331RR	RR	7-Oct	2.5	42	2	2.3	2988	61.2
Asgrow	AG4603	RR	7-Oct	1.8	38	2	2.0	3217	60.6
Asgrow	AG4502	RR	7-Oct	2.0	38	4	3.3	2592	59.6
Virginia	V99-7139		30-Sep	2.7	30	0	3.3	3161	55.8
Vigoro	V462NRS	RR/STS	7-Oct	2.8	40	2	3.0	2872	55.6
Stewart	SB4359C		7-Oct	2.7	43	3	2.7	2764	54.3
D&PL	DP 4546RR	RR	7-Oct	2.8	41	1	2.3	2777	53.6
DeltaKing	DK4461RR	RR	7-Oct	2.5	43	2	2.0	3243	53.5
Virginia	V99-7786		30-Sep	4.2	38	3	3.0	2733	53.4
D&PL	DP 4690RR	RR	10-Oct	2.8	45	3	2.3	2870	52.7
Public	Manokin		7-Oct	3.7	34	0	2.0	3448	44.4
Grand Average			7-Oct	2.5	39	2	2.6	2930	58.9
R-Squared				0.48	0.76	0.89	0.39	0.66	0.85
CV				0.1	18.9	4.6	87.3	17.5	4.3
LSD (0.10)				5.3	0.6	2.5	2.8	0.6	169
									7.8

Table 4d. 2004 Performance of Full-season, Early-maturity Group IV Entries at Suffolk, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
USG	7434nRR	RR	1-Oct	1.5	32	4	3.7	2290	63.3
S.States	RT4230N	RR	2-Oct	2.2	40	5	2.0	2638	62.0
D&PL	DP 4690RR	RR	8-Oct	2.2	43	7	1.5	2740	61.3
Pioneer	94M41	RR	30-Sep	1.8	38	3	2.0	2749	60.0
USG	7440nRR	RR	8-Oct	1.7	41	4	1.0	2960	59.8
USG	7403nRR	RR	30-Sep	1.0	30	3	3.3	2727	59.5
D&PL	DP4331RR	RR	6-Oct	1.8	40	3	4.7	2911	59.4
Vigoro	V442NRR	RR	4-Oct	2.0	41	2	1.0	2917	59.2
Doebler's	DB4236	RR	29-Sep	1.2	33	2	3.3	2695	58.3
USG	7443nRR	RR	2-Oct	1.7	33	5	2.0	2952	57.0
D&PL	DP 4546RR	RR	5-Oct	2.5	42	1	2.0	2705	56.7
NK	S42-H1		27-Sep	1.7	36	2	2.0	2797	55.9
S.States	RT4098	RR	25-Sep	1.3	38	15	3.3	2834	53.8
Vigoro	V462NRS	RR/STS	5-Oct	3.2	43	3	2.3	2844	53.6
S.States	RT4502N	RR	4-Oct	2.2	42	3	2.0	2820	53.4
Public	Manokin		8-Oct	1.5	30	4	2.0	3265	53.2
Virginia	V99-7139		26-Sep	1.8	31	3	4.0	3257	51.8
S.States	RT446N	RR	4-Oct	1.7	39	0	1.7	2789	50.2
Stewart	SB4359C		3-Oct	1.8	43	6	4.0	2864	49.6
Maryland	Md 96-5722		2-Oct	2.2	36	8	4.0	2384	46.7
Virginia	V99-7786		23-Sep	1.5	32	10	3.3	3110	43.2
Grand Average			2-Oct	1.8	38	4	2.6	2818	55.9
R-Squared				0.85	0.68	0.90	0.76	0.49	0.92
CV				0.1	27.9	5.6	50.8	53.8	2.9
LSD (0.10)				3.1	0.7	2.8	3.1	1.9	112
									8.4

Table 4e. 2004 Performance of Full-season, Early-maturity Group IV Entries at Warsaw, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Asgrow	AG4502	RR	4-Oct	2.5	36	4	2.1	2731	68.0
USG	7434nRR	RR	25-Sep	1.7	32	1	2.3	2549	66.4
Vigoro	V442NRR	RR	29-Sep	2.5	37	1	1.9	3303	66.4
Dekalb	DKB46-51	RR	2-Oct	2.6	34	2	1.9	2983	66.2
DeltaKing	DK4461RR	RR	1-Oct	2.3	39	1	2.0	3355	65.3
D&PL	DP4331RR	RR	30-May	2.2	38	1	1.8	3432	65.3
USG	7443nRR	RR	26-Sep	1.9	34	2	1.9	3177	65.3
USG	7440nRR	RR	2-Oct	2.2	40	1	1.8	3222	64.7
Doebler's	DB4236	RR	24-Sep	1.1	30	2	2.3	3016	62.0
D&PL	DP 4690RR	RR	3-Oct	2.3	42	3	2.2	3117	61.2
Vigoro	V462NRS	RR/STS	28-Sep	3.3	38	2	2.1	3131	60.8
NK	S42-H1		24-Sep	2.1	38	1	1.9	3040	60.2
S.States	RT4502N	RR	28-Sep	2.1	38	2	2.0	3090	59.6
USG	7403nRR	RR	24-Sep	1.3	31	1	2.1	3062	59.5
Asgrow	AG4603	RR	29-Sep	1.9	35	0	2.0	3150	58.6
Pioneer	94M41	RR	27-Sep	2.8	38	3	2.0	2810	57.9
Public	Manokin		6-Oct	2.9	32	0	1.7	3511	57.9
Maryland	Md 96-5722		27-Sep	2.3	36	12	3.0	2411	56.7
S.States	RT4230N	RR	29-Sep	2.7	33	3	2.3	3075	56.3
Stewart	SB4359C		25-Sep	2.5	39	2	2.4	2780	56.2
D&PL	DP 4546RR	RR	1-Oct	3.0	38	1	1.6	2880	55.8
S.States	RT4098	RR	24-Sep	1.9	33	8	2.8	2842	54.9
S.States	RT446N	RR	28-Sep	2.1	36	1	1.8	2968	54.4
Virginia	V99-7139		22-Sep	3.3	32	5	2.7	3237	50.6
Virginia	V99-7786		21-Sep	2.2	36	6	2.9	3176	50.3
Grand Average			28-Jan	2.3	36	3	2.2	3044	60.0
R-Squared			0.88	0.80	0.82	0.71	0.85	0.91	0.81
CV			0.6	14.4	4.8	80.9	8.9	3.3	5.0
LSD (0.10)			2.2	0.5	2.4	2.9	0.3	138	4.1

Table 5a. 2004 Performance of Double-crop, Early-maturity Group IV Entries at Blackstone, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
D&PL	DP4690RR	RR	----	1.7	23	5	1.0	2681	56.3
Public	Manokin		----	2.7	21	1	1.0	2962	55.3
Vigoro	V442NRR	RR	----	1.2	21	6	1.0	2967	51.6
D&PL	DP4331RR	RR	----	1.2	20	4	1.0	2962	51.4
Asgrow	AG 4603	RR	----	1.2	21	2	1.0	2942	50.0
D&PL	DP 4546RR	RR	----	1.3	20	1	1.0	2650	49.4
Virginia	V99-7786		----	1.7	20	2	1.0	2731	47.7
Virginia	V99-7139		----	1.5	18	1	1.0	2811	47.2
Grand Average			----	1.5	21	3	1.0	2838	51.1
R-Squared				60.80	0.73	0.60	0.00	0.84	0.65
CV				20.0	5.3	76.7	0.0	2.5	6.8
LSD (0.10)				0.4	1.6	3.0	0.0	102	5.0

*Maturity readings were not taken on a regular basis

Table 5b. 2004 Performance of Double-crop, Early-maturity Group IV Entries at Orange, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
D&PL	DP4331RR	RR	----	1.0	17	7	3.0	3521	21.8
S.States	RT4502N	RR	----	1.0	19	12	2.0	3302	21.3
Public	Manokin		----	1.0	19	4	2.0	3479	19.7
Vigoro	V442NRR	RR	----	1.0	19	6	2.0	3636	19.7
Asgrow	AG 4603	RR	----	1.0	16	10	2.5	3186	19.3
S.States	RT446N	RR	----	1.0	18	10	3.0	2926	17.6
D&PL	DP4690RR	RR	----	1.0	17	8	2.5	3493	17.3
D&PL	DP 4546RR	RR	----	1.0	15	9	2.5	3047	16.7
Dekalb	DKB46-51	RR	----	1.0	15	9	3.5	3017	15.4
Pioneer	94M41	RR	----	1.0	19	8	3.0	3110	15.4
Virginia	V99-7139		----	1.0	18	4	3.0	3662	14.3
Virginia	V99-7786		----	1.0	18	11	4.0	3278	12.6
Asgrow	AG4502	RR/STS	----	1.0	17	9	3.5	3113	12.6
S.States	RT4230N	RR	----	1.0	16	14	3.0	3315	12.2
S.States	RT4098	RR	----	1.0	16	14	4.0	3280	11.8
Grand Average			----	1.0	17	9	2.9	3291	16.4
R-Squared				0.00	0.57	0.70	0.84	0.88	0.87
CV				0.0	9.6	29.0	13.1	3.1	9.9
LSD (0.10)				0.0	2.3	3.4	0.5	141	2.3

*Maturity readings were not taken on a regular basis

Table 5c. 2004 Performance of Double-crop, Early-maturity Group IV Entries at Painter, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Vigoro	V442NRR	RR	----	1.0	22	2	1.0	3154	40.2
Public	Manokin		----	1.5	24	0	1.0	3268	38.8
Virginia	V99-7786		----	1.0	23	0	1.7	2936	38.8
Maryland	Md 96-5722		----	1.2	23	6	2.3	2403	38.3
Garst	4612RR/N	RR	----	1.0	22	2	1.3	2799	38.1
Dekalb	DKB46-51	RR	----	1.0	22	7	1.7	2752	38.0
D&PL	DP4331RR	RR	----	1.0	21	1	1.0	3068	38.0
Asgrow	AG4502	RR/STS	----	1.0	20	2	1.7	2599	37.3
Garst	4512RR/N	RR	----	1.0	21	1	1.3	3134	37.2
Stewart	SB4359C		----	1.0	23	1	1.0	2611	36.7
D&PL	DP 4546RR	RR	----	1.0	21	1	1.0	2786	36.7
USG	7423nRR	RR	----	1.0	20	4	2.7	2222	36.6
D&PL	DP4690RR	RR	----	1.2	24	2	1.0	2858	36.1
Garst	4212RR/STS/N	RR/STS	----	1.0	19	5	2.3	2264	35.2
Virginia	V99-7139		----	1.3	20	2	2.0	3048	34.0
Grand Average				1.3	22	2	1.5	2793	37.3
R-Squared				0.99	0.82	0.76	0.98	0.98	0.95
CV				6.9	6.8	61.5	22.4	2.8	6.5
LSD (0.10)				0.2	2.0	1.9	0.6	108	3.5

*Maturity readings were not taken on a regular basis

Table 5d. 2004 Performance of Double-crop, Early-maturity Group IV Entries at Suffolk, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
D&PL	DP4690RR	RR	27-Oct	2.5	20	2	1.0	2829	61.7
Garst	4212RR/STS/N	RR/STS	19-Oct	1.3	16	4	2.0	2660	60.3
Public	Manokin		27-Oct	2.5	22	0	1.0	3213	58.0
D&PL	DP4331RR	RR	21-Oct	1.7	23	0	1.0	3072	57.7
USG	7423nRR	RR	19-Oct	1.3	30	4	3.0	2372	56.5
S.States	RT4230N	RR	21-Oct	1.8	24	1	1.0	2753	56.0
Garst	4512RR/N	RR	19-Oct	1.5	25	0	1.0	3070	55.8
Vigoro	V442NRR		19-Oct	1.7	24	0	1.0	3119	55.8
Pioneer	94M41	RR	19-Oct	1.8	21	2	1.0	2803	54.6
S.States	RT4502N	RR	19-Oct	1.8	26	1	1.3	3032	54.5
D&PL	DP 4546RR	RR	21-Oct	2.3	26	0	1.3	2752	51.8
Maryland	Md 96-5722		19-Oct	1.7	20	15	3.3	2472	51.3
S.States	RT4098	RR	16-Oct	1.7	20	3	1.0	3049	51.2
Garst	4612RR/N	RR	27-Oct	2.3	23	0	1.0	2898	48.9
S.States	RT446N	RR	14-Oct	2.0	25	0	1.3	2856	47.1
Stewart	SB4359C		16-Oct	1.8	22	5	3.0	2800	46.3
Virginia	V99-7786		12-Oct	1.8	19	6	2.7	2720	42.8
Virginia	V99-7139		22-Oct	1.8	16	3	3.0	3466	26.9
Grand Average			20-Oct	1.9	22	3	1.7	2903	51.6
R-Squared			0.70	0.70	0.87	0.78	0.87	0.83	0.81
CV			0.1	16.9	30.4	94.6	25.3	5.2	9.2
LSD (0.10)			4.7	0.4	9.6	3.4	0.6	209	6.7

Table 5e. 2004 Performance of Double-crop, Early-maturity Group IV Entries at Warsaw, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
-------	---------	------------------	------------------	----------------	---------------	-------	--------	---------------	---------------

DEER DAMAGE; DATA NOT REPORTED

Table 6a. 2004 Performance of Full-season, Late-maturity Group IV Entries at Blackstone, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
D&PL	DPX4891RR	RR	26-Oct	3.2	33	1.3	1.0	2881	67.6
D&PL	DP 4748S	STS	26-Oct	3.2	40	4.0	1.7	2523	67.4
D&PL	DP 4690RR	RR	26-Oct	2.5	36	2.3	1.0	2614	66.0
USG	7489	RR	26-Oct	3.2	37	2.7	1.0	2568	65.5
USG	7482	RR	26-Oct	2.7	32	0.7	1.0	2676	62.1
D&PL	DP 4724RR	RR	26-Oct	2.5	33	0.7	1.0	2704	62.0
Public	Manokin		26-Jul	4.2	35	0.7	1.0	3106	59.3
D&PL	DP 4933RR	RR	28-Oct	2.5	36	2.0	1.0	3585	53.1
	Grand Average		14-Oct	3.0	35	1.8	1.1	2832	62.9
	R-Squared			0.39	0.86	0.89	0.40	0.68	0.96
	CV			0.2	9.8	3.7	100.5	18.8	2.7
	LSD (0.10)			1.8	0.4	1.8	2.6	0.3	112
									5.5

Table 6b. 2004 Performance of Full-season, Late-maturity Group IV Entries at Orange, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Asgrow	AG4801	RR	8-Oct	1.8	44	2	1.3	2509	68.0
Asgrow	AG4903	RR/STS	8-Oct	2.3	49	0	1.0	2632	66.9
D&PL	DP 4690RR	RR	8-Oct	2.9	55	2	1.0	2702	63.3
D&PL	DP 4724RR	RR	8-Oct	3.3	50	2	1.0	2605	62.5
DeltaKing	DK 4868RR	RR	8-Oct	2.3	49	1	1.3	2862	61.4
Pioneer	94B73	RR	8-Oct	3.5	49	1	1.0	2899	61.4
D&PL	DP 4748 S	STS	8-Oct	3.5	58	6	1.0	2459	60.7
Public	Manokin		8-Oct	3.5	38	0	1.0	2929	59.1
Pioneer	94M70	RR	8-Oct	3.3	53	0	1.7	2505	57.2
NK	S49-Q9	RR	8-Oct	2.8	51	2	1.0	3407	56.7
S.States	RT4980	RR	8-Oct	3.2	59	2	1.3	2635	56.6
D&PL	DPX4891RR	RR	8-Oct	4.3	46	1	1.0	2873	56.6
S.States	RT4810N	RR	8-Oct	2.7	49	0	1.0	2786	56.4
NK	S50-N3	RR	8-Oct	3.7	54	1	1.0	3495	54.6
D&PL	DP 4933RR	RR	8-Oct	2.3	54	2	1.0	3206	53.8
	Grand Average		8-Oct	3.0	51	2	1.1	2827	60.0
	R-Squared			0.50	0.80	0.82	0.64	0.47	0.95
	CV			0.1	12.7	5.7	74.2	24.2	2.8
	LSD (0.10)			0.9	0.5	3.9	1.6	0.4	108
									8.9

*Maturity readings were not taken on a regular basis

Table 6c. 2004 Performance of Full-season, Late-maturity Group IV Entries at Painter, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
D&PL	DPX4891RR	RR	8-Oct	3.7	40	0	2.7	3034	65.5
USG	7484nRR	RR	7-Oct	2.8	38	0	2.7	3120	61.2
DeltaKing	DKXTJ548	RR/STS	9-Oct	2.8	41	3	2.3	2895	59.9
D&PL	DP 4690RR	RR	9-Oct	2.8	44	2	2.2	2898	57.8
DeltaKing	DK 4967RR	RR	8-Oct	2.3	40	1	2.7	2886	56.8
Asgrow	AG4903	RR/STS	8-Oct	2.0	42	0	2.7	3019	54.1
USG	7482nRR	RR	8-Oct	2.8	39	1	2.0	2880	53.2
D&PL	DP 4724RR	RR	7-Oct	2.2	36	0	2.0	3008	53.1
DeltaKing	DK 4868RR	RR	9-Oct	2.0	38	1	2.7	3180	52.6
Vigoro	V48N5RR	RR	9-Oct	2.3	39	1	3.0	2712	52.4
Asgrow	AG4801	RR	8-Oct	1.5	36	2	3.3	2989	50.8
Vigoro	V47N3RR	RR	8-Oct	2.5	38	1	3.7	3012	50.8
D&PL	DP 4748S	STS	7-Oct	3.2	45	4	2.3	2792	50.3
USG	7489RR	RR	8-Oct	2.5	43	1	2.0	3002	48.2
Midland	9A485X RR	RR	7-Oct	2.5	42	0	2.7	3028	47.9
D&PL	DP 4933RR	RR	11-Oct	2.5	46	0	2.7	3895	45.9
Chemgro	4937RR	RR	9-Oct	2.3	43	1	3.0	3575	45.4
Public	Manokin		7-Oct	2.8	34	0	2.7	3467	41.1
Grand Average			8-Oct	2.6	40	1	2.6	3068	52.9
R-Squared				0.43	0.72	0.81	0.61	0.58	0.86
CV				0.1	15.6	4.8	98.1	18.3	4.6
LSD (0.10)				3.3	0.5	2.6	1.4	0.6	190
									7.2

Table 6d. 2004 Performance of Full-season, Late-maturity Group IV Entries at Suffolk, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
D&PL	DP 4748S	STS	11-Oct	3.3	48	6	2.0	2506	69.7
Vigoro	V47N3RR	RR	10-Oct	2.2	38	3	2.3	2737	66.4
USG	7484nRR	RR	10-Oct	3.2	39	2	1.7	2997	65.6
USG	7482nRR	RR	10-Oct	3.0	40	1	1.7	2608	64.6
Pioneer	94M70	RR	11-Oct	3.2	42	4	2.0	2620	64.5
D&PL	DP 4724RR	RR	11-Oct	2.8	39	2	1.7	2673	63.9
DeltaKing	DK 4967RR	RR	9-Oct	3.0	40	3	2.0	2651	63.7
Vigoro	V48N5RR	RR	10-Oct	1.8	38	3	2.3	2500	62.6
DeltaKing	DKXTJ548	RR/STS	10-Oct	2.2	43	8	1.3	2850	62.6
DeltaKing	DK 4868RR	RR	11-Oct	2.2	42	5	2.3	2752	62.4
NK	S50-N3	RR	12-Oct	2.7	44	2	1.3	3322	61.5
D&PL	DP 4690RR	RR	11-Oct	2.2	43	9	1.0	2722	61.3
Public	Manokin		11-Oct	1.3	29	0	1.7	3347	61.2
S.States	RT 4980	RR	10-Oct	2.7	45	5	1.3	2687	60.8
NK	S49-Q9	RR	13-Oct	1.5	42	4	1.0	3671	59.5
S.States	RT 4810N	RR	10-Oct	2.2	44	4	1.7	2833	58.3
D&PL	DPX4891RR	RR	10-Oct	3.5	38	2	1.3	3055	57.5
Chemgro	4937RR	RR	11-Oct	2.5	44	2	1.7	3014	57.5
Pioneer	94B73	RR	10-Oct	2.5	41	3	1.0	2860	56.1
USG	7489RR	RR	11-Oct	2.8	44	8	1.7	2580	56.0
Midland	9A485X RR	RR	8-Oct	2.5	43	4	2.0	2895	54.6
D&PL	DP 4933RR	RR	10-Oct	2.3	43	3	1.0	3567	52.2
Grand Average			10-Oct	2.5	41	4	1.6	2877	61.0
R-Squared		0.55	0.76	0.89	0.67	0.67	0.95	0.47	
CV		0.1	17.9	4.1	54.0	25.4	3.0	9.0	
LSD (0.10)		1.9	0.6	2	3	0.6	116	7.4	

Table 6e. 2004 Performance of Full-season, Late-maturity Group IV Entries at Warsaw, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Asgrow	AG4903	RR/STS	3-Oct	1.8	37	1	1.7	3132	70.1
Asgrow	AG4801	RR	3-Oct	1.8	32	1	1.9	2941	68.5
Vigoro	V48N5RR	RR	4-Oct	2.4	35	3	2.2	2636	68.1
Vigoro	V47N3RR	RR	30-Sep	2.4	35	2	2.1	2991	67.0
D&PL	DP 4690RR	RR	3-Oct	2.3	39	3	2.1	3014	64.8
NK	S50-N3	RR	3-Oct	2.8	38	3	1.9	3754	64.7
D&PL	DP 4748S	STS	1-Oct	3.0	41	3	2.0	2754	64.5
NK	S49-Q9	RR	4-Oct	2.1	36	3	2.7	3948	63.6
S.States	RT4810N	RR	1-Oct	2.3	37	2	1.8	3091	62.7
Pioneer	94B73	RR	28-Sep	3.6	37	2	1.9	3160	62.5
USG	7489RR	RR	2-Oct	3.1	36	3	2.2	3058	62.5
DeltaKing	DK4967RR	RR	30-Sep	2.5	35	1	1.7	2912	62.4
DeltaKing	DKXTJ548	RR/STS	30-Sep	2.6	37	3	2.1	3161	62.2
DeltaKing	DK4868RR	RR	28-Sep	2.4	34	1	2.1	3358	62.0
D&PL	DP 4724RR	RR	2-Oct	2.5	36	1	1.5	2949	61.7
USG	7484nRR	RR	29-Sep	3.3	33	1	1.6	3268	61.4
D&PL	DP 4933RR	RR	3-Oct	2.3	39	4	1.9	3692	61.1
D&PL	DPX4891RR	RR	30-Sep	2.8	34	0	1.6	3283	61.1
S.States	RT4980	RR	1-Oct	2.6	35	2	2.1	3128	61.0
Chemgro	4937RR	RR	4-Oct	2.5	39	2	1.8	3432	60.8
Pioneer	94M70	RR	29-Sep	3.2	37	1	1.9	2769	60.5
USG	7482nRR	RR	1-Oct	2.4	35	1	1.8	3000	60.3
Public	Manokin		3-Oct	2.8	35	1	1.5	3605	60.2
Midland	9A485X RR	RR	30-Sep	2.7	35	0	2.1	3355	49.9
Grand Average			1-Oct	2.6	36	2	1.9	3178	62.7
R-Squared			0.65	0.63	0.61	0.53	0.78	0.96	0.84
CV			0.6	15.5	5.8	67.6	9.1	2.5	3.4
LSD (0.10)			1.7	0.5	2.9	1.8	0.2	107	2.9

Table 7a. 2004 Performance of Double-crop, Late-maturity Group IV Entries at Blackstone, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Delta King	DK 4461RR	RR	3-Nov	1.5	23	2	1.0	3076	58.5
D&PL	DP4748S	STS	3-Nov	2.0	24	15	1.0	2485	57.4
Public	Manokin		3-Nov	2.8	22	0	1.0	3048	54.8
D&PL	DPX4891RR	RR	3-Nov	2.0	22	4	1.0	2786	52.5
D&PL	DP4690RR	RR	3-Nov	1.5	23	9	1.0	2666	50.4
D&PL	DP4724RR	RR	3-Nov	1.3	21	4	1.0	2763	50.0
D&PL	DP 4546 RR		3-Nov	1.5	21	2	1.0	2681	48.3
D&PL	DP4933RR	RR	3-Nov	2.0	24	1	1.0	3495	45.6
Grand Average			3-Nov	1.8	22	5	1.0	2875	52.2
R-Squared				0.47	0.73	0.68	0.95	0.00	0.97
CV				0.1	20.3	5.8	32.1	0.0	2.4
LSD (0.10)				1.2	1.8	1.9	2.1	0.0	98
									3.4

Table 7b. 2004 Performance of Double-crop, Late-maturity Group IV Entries at Orange, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Public	Manokin		17-Nov	1.3	18	2	2.5	4001	26.8
Delta King	DK 4461	RR	17-Nov	1.0	17	9	2.5	3667	25.6
D&PL	DPX4891RR	RR	17-Nov	1.0	17	5	2.7	3370	24.4
D&PL	DP 4546RR	RR	17-Nov	1.0	20	9	2.0	3102	23.3
D&PL	DP4724RR	RR	17-Nov	1.0	17	9	2.7	3151	23.2
Pioneer	94B73	RR	17-Nov	1.0	19	9	2.0	3351	23.0
D&PL	DP4690RR	RR	17-Nov	1.0	20	9	2.5	3140	23.0
Asgrow	AG4801	RR	17-Nov	1.0	13	14	2.7	3240	22.9
Pioneer	94M70	RR	17-Nov	1.0	18	16	2.5	3113	22.4
S.States	RT4980	RR	17-Nov	1.0	19	10	2.7	3467	22.4
D&PL	DP4748S	STS	17-Nov	1.0	17	8	2.0	3256	22.4
D&PL	DP4933RR	RR	17-Nov	1.0	16	10	2.0	3876	22.3
Asgrow	AG4903	RR/STS	17-Nov	1.0	16	7	3.0	3175	22.0
S.States	RT4810N	RR	17-Nov	1.0	18	5	2.7	3346	21.0
Grand Average			17-Nov	1.0	17	9	2.5	3363	23.1
R-Squared				0.39	0.55	0.41	0.67	0.47	0.64
CV				0.1	20.1	18.0	37.0	22.3	6.5
LSD (0.10)				6.7	0.3	4.3	4.2	0.7	303
									9.2

Table 7c. 2004 Performance of Double-crop, Late-maturity Group IV Entries at Painter, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Asgrow	AG4903	RR/STS	----	1.0	22	2	1.0	2814	46.3
Vigoro	V48N5RR	RR	----	1.0	21	2	2.0	2638	44.6
D&PL	DP4690RR	RR	----	1.3	24	2	1.0	3064	42.8
Public	Manokin		----	1.7	22	0	1.0	3397	42.6
D&PL	DP4748S	STS	----	1.0	24	4	1.0	2713	41.1
DeltaKing	DK4868RR	RR	----	1.0	21	3	1.0	2905	41.0
Midland	9A485X RR	RR	----	1.2	24	2	1.0	2911	40.2
Asgrow	AG4801	RR	----	1.0	20	4	1.0	2640	39.7
USG	7494nRR	RR	----	1.3	24	4	1.0	2880	39.6
DeltaKing	DK 4461RR	RR	----	1.0	22	3	1.0	3237	39.4
D&PL	DP 4546RR	RR	----	1.0	22	1	1.0	2832	38.5
Vigoro	V442NRR	RR	----	1.0	21	1	1.0	3154	38.4
D&PL	DPX4891RR	RR	----	1.2	21	2	1.0	2930	38.0
Vigoro	V462NRS	RR	----	1.0	21	4	1.0	2874	37.0
D&PL	DP4724RR	RR	----	1.0	20	1	1.3	2862	36.8
DeltaKing	DK4967RR	RR	----	1.0	21	1	1.3	2880	34.5
D&PL	DP4933RR	RR	----	1.0	22	2	1.0	3431	33.9
USG	7499nRR	RR	----	1.0	22	2	1.7	2974	33.5
Vigoro	V47N3RR	RR	----	1.0	20	4	1.7	2833	32.8
Grand Average			----	1.1	22	2	1.2	2946	39.0
R-Squared				0.74	0.62	0.49	0.67	0.91	0.64
CV				12.5	6.3	70.9	23.0	2.9	9.1
LSD (0.10)				0.2	1.9	2.4	0.4	117.0	5

*Maturity readings were not taken on a regular basis

Table. 7d. 2004 Performance of Double-crop, Late-maturity Group IV Entries at Suffolk, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
S.States	RT4980	RR	29-Oct	2.8	35	4	2.0	2707	65.0
D&PL	DP4748S	STS	29-Oct	2.8	39	2	1.3	2629	63.2
DeltaKing	DK4868RR	RR	29-Oct	1.8	30	1	1.7	3030	60.8
Pioneer	94B73	RR	29-Oct	1.3	34	0	0.7	3179	59.7
DeltaKing	DK 4461	RR	29-Oct	1.3	32	1	1.0	3199	59.4
Vigoro	V442NRR	RR	29-Oct	1.5	32	2	1.0	3023	58.7
Public	Manokin		29-Oct	3.8	33	0	0.7	3287	58.0
Midland	9A485X RR	RR	29-Oct	1.8	34	0	1.0	3003	57.5
D&PL	DPX4891RR	RR	29-Oct	3.0	34	0	1.0	3132	56.2
S.States	RT4810N	RR	29-Oct	2.7	36	0	1.3	2882	55.9
Pioneer	94M70	RR	29-Oct	2.7	36	1	1.0	2671	55.4
Vigoro	V48N5RR	RR	29-Oct	1.2	29	2	1.0	2570	54.7
DeltaKing	DK4967RR	RR	29-Oct	2.0	33	1	0.7	2930	54.1
D&PL	DP 4546RR	RR	29-Oct	2.5	36	0	1.0	2637	54.1
D&PL	DP4724RR	RR	29-Oct	1.8	33	1	0.7	2945	54.0
USG	7494nRR	RR	29-Oct	3.7	34	1	0.7	3027	53.1
Vigoro	V462NRS	RR	29-Oct	1.5	34	1	1.0	3036	52.7
D&PL	DP4690RR	RR	29-Oct	2.3	31	3	2.0	2844	51.9
D&PL	DP4933RR	RR	29-Oct	2.2	36	1	0.7	3807	50.4
USG	7499nRR	RR	29-Oct	1.7	33	1	0.7	3024	49.3
Vigoro	V47N3RR	RR	29-Oct	1.5	29	2	1.0	3164	48.6
Grand Average			29-Oct	2.2	34	1	1.0	2987	55.8
R-Squared				0.59	0.78	0.66	0.58	0.35	0.87
CV				0.1	23.8	7.3	93.0	69.9	4.4
LSD (0.10)				1.6	1.7	3.3	1.4	1.0	180
									6.5

Table 7e. 2004 Performance of Double-crop, Late-maturity Group IV Entries at Warsaw, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
-------	---------	---------------	---------------	-------------	------------	-------	--------	------------	------------

DEER DAMAGE; DATA NOT REPORTED

Table 8a. 2004 Performance of Full-season, Maturity Group V Entries at Blackstone, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Virginia	V98-2711		18-Oct	2.5	29	3	1.7	2886	60.8
D&PL	DP5110S	STS	18-Oct	2.7	37	4	1.7	2725	60.4
S.States	5200STS	STS	18-Oct	3.7	42	9	1.7	2595	59.5
DeltaKing	DK5961RR	RR	18-Oct	3.0	34	1	1.7	2477	59.3
S.States	RT5540N	RR	18-Oct	2.5	40	9	1.7	2630	59.1
Asgrow	AG5603	RR/STS	18-Oct	2.5	31	3	1.0	2939	58.4
Virginia	V98-9005		18-Oct	3.2	31	1	2.3	2246	58.4
Clark	CL54	RR	18-Oct	3.3	31	4	2.0	2803	58.0
Vigoro	V52N3RR	RR	18-Oct	2.7	31	3	2.3	3252	57.6
Public	Fowler		18-Oct	3.5	32	5	2.7	2617	57.5
Public	Teejay		18-Oct	3.2	33	7	2.7	2483	56.9
Vigoro	V55N5RR	RR	18-Oct	2.8	40	8	3.0	2555	56.5
DeltaKing	DKXTJ555	RR	18-Oct	3.0	31	3	1.3	2743	56.0
S.States	RT5130N	RR	18-Oct	2.8	34	3	3.0	2434	56.0
Pioneer	95B42	RR	18-Oct	2.8	37	3	2.3	2850	53.7
Montague	MFL-159		18-Oct	3.2	33	13	1.7	1500	53.0
NK	S56-D7	RR	18-Oct	3.7	36	2	2.7	2566	51.5
USG	5601T		18-Oct	3.0	34	4	1.5	2855	50.9
S.States	RT5302N	RR	18-Oct	2.2	34	0	1.3	2697	50.5
S.States	RT5602N	RR	18-Oct	3.2	32	1	2.0	2635	48.2
D&PL	DP5634RR	RR	18-Oct	3.0	38	3	2.7	2381	47.7
DeltaKing	DK5967RR	RR	18-Oct	3.3	34	2	1.3	2752	47.7
D&PL	DP5915RR	RR	18-Oct	2.5	36	3	1.0	2568	47.4
D&PL	DP5414RR	RR	18-Oct	3.2	38	2	2.0	2532	47.2
D&PL	DPX5808RR	RR	18-Oct	4.3	36	2	1.5	2939	46.0
Public	Hutcheson		18-Oct	3.3	30	8	1.7	2578	46.0
S.States	RT-5450N	RR	18-Oct	2.7	32	7	1.0	2456	45.2
S.States	RT5001N	RR	18-Oct	2.5	37	0	1.3	3014	45.0
Montague	MFS-591		18-Oct	4.2	29	1	1.0	5039	43.5
S.States	RT557N	RR	18-Oct	3.5	38	1	1.0	2803	43.1
Vigoro	V53N5RS	RR/STS	18-Oct	2.7	30	6	1.0	2366	37.8
Grand Average			18-Oct	3.0	34	4	1.8	2702	52.1
R-Squared			0.50	0.66	0.86	0.74	6.69	0.98	0.59
CV			0.1	13.7	5.0	59.8	30.2	3.1	12.7
LSD (0.10)			1	0.6	2.4	3.2	0.7	115	9.2

Table 8b. 2004 Performance of Full-season, Maturity Group V Entries at Orange, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Virginia	V98-9005		17-Oct	3.0	47	0	1.7	2565	63.1
D&PL	DP 5110 S	STS	17-Oct	4.0	52	3	1.0	2750	62.8
USG	5601T		17-Oct	4.2	47	0	1.0	2921	61.7
D&PL	DP5414RR	RR	17-Oct	4.0	52	2	1.5	2432	59.4
Asgrow	AG5905	RR	17-Oct	4.2	44	1	1.0	2760	58.9
Public	Teejay		17-Oct	4.2	42	1	1.0	2689	58.5
Asgrow	AG5605	RR	17-Oct	4.0	46	1	1.0	3275	57.4
Public	Hutcheson		17-Oct	3.7	42	1	1.3	2667	56.6
S.States	RT5001N	RR	17-Oct	3.8	52	0	1.0	2894	55.1
Asgrow	AG5301	RR	17-Oct	4.3	44	1	1.0	3051	55.0
S.States	RT5130N	RR	17-Oct	4.3	48	0	1.0	2432	54.0
Asgrow	AG5903	RR	17-Oct	5.0	49	1	1.3	3090	53.0
NK	S52-U3	RR	17-Oct	5.0	43	1	1.0	3263	48.1
Virginia	V98-2711		17-Oct	4.3	41	1	1.3	2962	47.2
Public	Fowler		17-Oct	3.8	44	1	1.5	2847	46.3
Montague	MFL-159		17-Oct	4.8	41	6	1.5	2286	45.4
D&PL	DP5634RR	RR	17-Oct	4.8	47	0	1.0	2769	42.2
Grand Average			17-Oct	4.2	46	1	1.2	2822	54.9
R-Squared				0.47	0.78	0.78	0.75	0.42	0.83
CV				0.1	8.0	5.5	94.9	31.2	5.7
LSD (0.10)				0.9	0.5	3.5	1.5	0.5	222
									11.3

Table 8c. 2004 Performance of Full-season, Maturity Group V Entries at Painter, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
USG	5002T		----	3.2	37	1	2.3	2906	62.3
Virginia	V98-2711		----	3.0	35	2	2.0	3339	56.7
USG	5601T		----	2.2	37	0	1.7	3372	55.9
USG	7553nRS	RR/STS	----	4.5	35	1	2.0	3921	52.3
Virginia	V98-9005		----	3.0	35	0	2.0	2617	51.8
Asgrow	AG5903	RR	----	2.8	38	0	2.3	3323	51.0
D&PL	DP5110S	STS	----	4.3	48	1	1.7	3158	50.7
S.States	RT5602N	RR	----	3.5	39	0	2.5	3255	50.6
Vigoro	V53N5RS	RR/STS	----	3.0	35	1	2.3	2746	50.5
Asgrow	AG5605	RR	----	2.8	38	0	1.7	4191	49.4
USG	7523nRR	RR	----	3.0	36	0	2.7	3145	49.4
Public	Teejay		----	2.3	36	0	2.3	3151	49.1
Public	Fowler		----	3.3	41	0	2.0	3209	48.9
DeltaKing	DKXTJ555	RR	----	4.2	43	0	1.5	3753	48.9
S.States	RT5130N	RR	----	3.2	36	1	3.0	2780	48.7
USG	7524nRR	RR	----	4.3	51	2	2.7	3112	48.6
Vigoro	V52N3RR	RR	----	2.5	34	0	2.3	3812	48.5
Asgrow	AG5301	RR	----	2.7	37	0	2.3	3355	48.4
D&PL	DP5915RR	RR	----	3.2	34	0	2.0	3200	48.4
Public	Hutcheson		----	4.0	42	1	2.0	3419	48.2
D&PL	DP5414RR	RR	----	2.3	32	0	2.0	3132	47.5
Vigoro	V55N5RR	RR	----	3.3	39	0	2.3	3363	47.3
S.States	RT5540N	RR	----	3.2	40	1	2.3	3233	46.9
S.States	RT5302N	RR	----	2.0	35	0	2.3	3149	45.9
D&PL	DP5634RR	RR	----	3.0	38	0	2.0	3023	45.1
DeltaKing	DK5967RR	RR	----	2.8	35	0	1.7	3414	44.5
Asgrow	AG5905	RR	----	2.7	39	0	2.3	3381	44.4
Clark	CL54	RR	----	2.5	31	0	2.0	3734	42.8
S.States	RT557N	RR	----	2.8	36	0	2.0	3270	42.8
S.States	RT5001N	RR	----	2.8	39	1	2.0	3349	42.7
USG	550nSTS	STS	----	2.2	36	0	2.0	3477	42.2
S.States	5200STS	STS	----	4.0	45	1	2.7	3567	41.5
Montague	MFL-159		----	3.0	31	1	2.7	1966	40.4
USG	7582nRR	RR	----	2.5	36	1	2.0	3537	38.4
DeltaKing	DK5961RR	RR	----	2.5	37	1	2.0	3087	36.6
D&PL	DPX5808RR	RR	----	3.5	41	0	2.0	3691	35.0
Montague	MFS-591		----	2.7	39	0	2.0	6275	33.0
Grand Average			----	3.1	38	0	2.2	3360	46.8
R-Squared				0.51	0.51	0.40	0.47	0.94	0.68
CV				92.1	16.6	173.4	47.2	5.8	10.9
LSD (0.10)				4.3	8.6	1.2	1.5	276	7.2

*Maturity readings were not taken on a regular basis

Table 8d. 2004 Performance of Full-season Maturity Group V Entries at Suffolk, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
USG	5002T		19-Oct	1.7	25	4	2.3	2775	71.0
Montague	MFL-159		25-Oct	2.3	32	3	1.0	1734	69.7
Virginia	V98-9005		19-Oct	1.2	29	0	1.3	2694	69.3
Asgrow	AG5605	RR	23-Oct	1.3	30	0	1.0	3774	69.2
USG	7524nRR	RR	19-Oct	3.0	48	6	1.0	2911	69.1
D&PL	DP5915RR	RR	28-Oct	2.5	36	2	1.0	2881	68.8
Virginia	V98-2711		21-Oct	1.0	23	1	1.0	3041	68.2
Asgrow	AG5903	RR	28-Oct	2.2	34	1	1.0	3332	68.0
D&PL	DP5634RR	RR	25-Oct	2.5	39	0	1.0	2736	68.0
Asgrow	AG5905	RR	26-Oct	2.3	42	1	1.3	3243	67.6
USG	7553nRS	RR/STS	23-Oct	1.3	34	0	1.0	3774	67.5
Public	Teejay		19-Oct	1.2	31	1	1.0	2645	67.5
Vigoro	V53N5RS	RR/STS	21-Oct	1.8	31	1	1.0	2500	67.2
Asgrow	AG5301	RR	19-Oct	1.3	33	0	1.0	3267	67.1
USG	7582nRR	RR	27-Oct	1.5	36	0	1.0	3134	67.1
D&PL	DP5414RR	RR	15-Oct	2.5	44	1	1.0	2757	66.9
NK	S56-D7	RR	25-Oct	3.5	36	1	3.0	2676	66.4
S.States	RT5540N	RR	25-Oct	1.8	41	1	1.0	2868	65.3
S.States	RT-5450N	RR	19-Oct	1.8	31	1	1.3	2487	65.2
D&PL	DPX5808RR	RR	23-Oct	3.2	35	1	1.0	3356	65.1
Pioneer	95B42	RR	19-Oct	1.5	38	1	1.0	3054	65.0
Vigoro	V55N5RR	RR	23-Oct	1.8	39	1	1.0	3017	64.8
S.States	5200STS	STS	23-Oct	2.8	50	2	1.3	2763	64.8
S.States	RT5302N	RR	19-Oct	1.3	35	1	1.3	4106	63.9
DeltaKing	DK5967RR	RR	27-Oct	1.7	36	0	1.0	3184	62.8
Vigoro	V52N3RR	RR	19-Oct	1.2	27	3	2.7	3603	62.7
Asgrow	AG5603	RR	25-Oct	1.2	33	0	1.0	3390	62.6
USG	5601T		25-Oct	1.2	30	2	1.0	3089	62.5
D&PL	DP5110S	STS	19-Oct	2.5	46	9	1.0	2833	62.4
Clark	CL54	RR	19-Oct	1.3	32	1	1.0	3153	62.2
Public	Fowler		21-Oct	1.7	29	1	2.3	2910	62.1
S.States	RT5602N	RR	19-Oct	1.7	32	0	1.3	2737	61.9
S.States	RT5130N	RR	19-Oct	1.3	32	3	2.3	2622	61.9
Public	Hutcheson		19-Oct	1.5	28	1	1.0	2758	61.8
S.States	RT557N	RR	21-Oct	2.0	37	0	1.0	3041	61.3
DeltaKing	DKXTJ555	RR	19-Oct	1.5	30	1	1.0	2861	61.2
NK	S52-U3	RR	21-Oct	2.5	31	1	1.0	3315	60.3
DeltaKing	DK5961RR	RR	29-Oct	1.8	36	1	1.0	2742	58.6
USG	7523nRR	RR	19-Oct	1.3	36	0	1.3	2988	58.6
S.States	RT5001N	RR	19-Oct	1.5	38	2	1.0	3096	55.9
USG	550nSTS	STS	19-Oct	1.5	31	2	2.0	3401	55.1
Grand Average			21-Oct	1.8	35	1	1.3	3006	64.6
R-Squared				0.81	0.73	0.90	0.67	0.83	0.73
CV				0.1	25.2	6.9	100.7	23.3	10.3
LSD (0.10)				2.7	0.6	3.2	2.0	0.4	420
									6.1

Table 8e. 2004 Performance of Full-season Maturity Group V Entries at Warsaw, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
USG	7553nRS	RR/STS	12-Oct	2.4	34	0	1.5	4019	68.5
USG	5002T		8-Oct	2.4	31	1	1.5	3103	68.4
USG	7582nRR	RR	19-Oct	2.3	33	1	1.6	3251	67.2
Public	Teejay		8-Oct	2.2	32	2	1.8	3279	64.7
Asgrow	AG5605	RR	13-Oct	2.2	32	0	1.4	4044	64.3
USG	5601T		9-Oct	2.4	33	1	1.8	3550	64.2
Virginia	V98-2711		8-Oct	2.4	30	0	1.7	3575	64.1
Virginia	V98-9005		9-Oct	2.2	31	0	1.6	2957	62.5
S.States	RT-5450N	RR	10-Oct	2.5	30	0	1.4	2742	62.4
D&PL	DP5915RR	RR	21-Oct	2.4	33	2	2.1	2968	61.9
S.States	RT5130N	RR	7-Oct	2.2	36	2	1.6	2892	61.5
Asgrow	AG5603	RR/STS	14-Oct	2.2	33	0	1.3	3715	61.5
Vigoro	V55N5RR	RR	11-Oct	2.3	40	1	2.0	3258	61.1
Asgrow	AG5301	RR	7-Oct	2.1	34	1	1.6	3633	60.9
USG	7523nRR	RR	12-Oct	2.4	36	0	1.3	3265	60.8
S.States	RT557N	RR	11-Oct	2.9	37	1	1.5	3141	60.8
NK	S56-D7	RR	13-Oct	3.5	35	0	1.5	3022	60.7
Public	Fowler		10-Oct	3.1	33	0	1.5	3034	60.0
Vigoro	V53N5RS	RR/STS	10-Oct	2.7	31	0	1.4	2735	59.6
S.States	5200STS	STS	10-Oct	3.0	46	2	1.9	3222	59.3
Public	Hutcheson		8-Oct	3.3	30	2	1.9	3284	59.1
USG	7524nRR	RR	8-Oct	3.2	44	2	2.1	3314	58.7
D&PL	DP5634RR	RR	14-Oct	2.7	37	0	1.5	2944	58.6
Pioneer	95B42	RR	9-Oct	2.7	39	2	1.9	3450	58.1
S.States	RT5540N	RR	10-Oct	2.2	39	1	1.8	3290	58.0
Vigoro	V52N3RR	RR	5-Oct	2.1	31	1	1.4	4116	57.8
D&PL	DP5414RR	RR	10-Oct	2.8	40	0	1.6	3041	57.7
Montague	MFL-159		16-Oct	3.4	32	9	2.2	1763	57.5
D&PL	DP5110S	STS	6-Oct	2.7	42	4	2.2	3243	57.4
S.States	RT5302N	RR	10-Oct	2.2	35	0	1.3	3323	57.0
NK	S52-U3	RR	10-Oct	2.7	30	1	1.7	3784	56.9
S.States	RT5602N	RR	9-Oct	3.0	30	0	1.5	3235	56.5
USG	550nSTS	STS	3-Oct	1.8	31	0	1.5	3722	56.0
D&PL	DPX5808RR	RR	13-Oct	3.7	40	0	1.8	3662	53.9
S.States	RT5001N	RR	5-Oct	2.6	36	1	1.5	3477	53.3
Montague	MFS-591		17-Oct	2.5	31	0	1.7	5983	48.2
Grand Average			10-Oct	2.6	35	1	1.7	3362	60.0
R-Squared				0.95	0.84	0.85	0.74	0.75	0.98
CV				0.4	9.2	6.2	110.4	10.6	2.9
LSD (0.10)				1.5	0.3	2.9	1.6	0.2	132
									4.6

Table 9a. 2004 Performance of Double-crop Maturity Group V Entries at Blackstone, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
S.States	5200STS	STS	---	2.3	33	0	1.0	2886	55.0
S.States	RT5540N	RR	---	1.7	28	1	1.7	2714	52.3
D&PL	DP5634RR	RR	---	2.3	31	0	1.0	2477	50.6
Virginia	V98-9005		---	2.5	22	0	3.0	2481	49.7
S.States	RT5130N	RR	---	1.7	22	1	1.3	2663	49.3
NK	S56-D7	RR	---	2.8	26	0	1.0	2776	48.7
Virginia	V98-2711		---	1.8	18	0	1.3	3054	48.6
USG	5601T		---	2.2	27	0	1.3	3029	48.4
NK	S54-G9	RR	---	1.3	25	0	1.3	3168	48.3
Vigoro	V55N5RR	RR	---	2.2	29	1	1.3	2692	48.1
Montague	MFL-159		---	2.5	24	1	1.0	1771	47.4
S.States	RT5302N	RR	---	2.0	29	0	2.3	2975	47.1
Public	Teejay		---	2.0	25	0	2.7	2568	47.0
D&PL	DP5110S	STS	---	1.5	24	7	1.3	2983	45.7
Vigoro	V53N5RS	RR/STS	---	1.3	22	1	1.0	2605	45.6
S.States	RT-5450N	RR	---	1.7	24	0	1.0	2625	45.5
Pioneer	95B42	RR	---	1.7	26	1	1.0	3036	43.1
Public	Hutcheson		---	1.5	23	1	1.7	2824	41.7
Pioneer	95B96	RR	---	2.0	27	0	1.0	2984	41.3
D&PL	DP5414RR	RR	---	2.2	26	0	2.3	2746	40.9
Clark	CL54RR	RR	---	1.3	24	0	1.0	3117	38.2
S.States	RT5001N	RR	---	2.2	29	1	1.0	2968	36.9
Virginia	V00-3650		---	1.2	21	0	1.0	4702	36.9
S.States	RT557N	RR	---	2.5	31	0	1.0	2797	36.5
Public	Fowler		---	2.5	28	0	1.0	2917	35.9
S.States	RT5602N	RR	---	1.8	20	1	1.3	2843	32.3
Montague	MFS-591		---	1.8	21	0	1.0	5102	30.8
Grand Average			---	1.9	25	1	1.4	2944	44.1
R-Squared			0.50	0.78	0.81	0.79	0.69	0.99	0.59
CV			0.1	17.4	8.7	129.8	30.5	3.1	10.5
LSD (0.10)			1	0.5	3.0	1.2	0.7	127	6.3

*Maturity readings were not taken on a regular basis

Table 9b. 2004 Performance of Double-crop Maturity Group V Entries at Painter, Va.

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Virginia	V98-9005		18-Nov	1.7	21	0	2.0	2620	47.4
Virginia	V98-2711		18-Nov	1.3	20	2	1.7	3117	44.3
Montague	MFL-159		18-Nov	1.7	24	1	1.0	1890	44.0
Public	Fowler		18-Nov	1.7	22	0	2.0	3171	43.6
D&PL	DP5414RR	RR	18-Nov	1.3	24	0	2.0	3061	42.5
D&PL	DP5110S	STS	18-Nov	1.3	24	2	1.0	3168	42.4
Vigoro	V53N5RS	RR/STS	18-Nov	1.2	21	0	2.0	2797	42.2
USG	540nRR	RR	18-Nov	1.3	22	1	2.0	2787	41.8
USG	7514nRR	RR	18-Nov	1.5	23	0	2.0	3315	41.2
USG	5601T		18-Nov	1.2	23	2	2.0	3107	40.9
Public	Teejay		18-Nov	1.7	23	0	2.3	2656	40.7
Public	Hutcheson		18-Nov	1.3	20	0	2.0	2867	40.6
Vigoro	V55N5RR	RR	18-Nov	1.3	28	0	2.7	2987	40.1
D&PL	DP5634RR	RR	18-Nov	1.2	24	0	2.0	2805	39.4
USG	7504nRR	RR	18-Nov	1.3	22	1	1.3	2808	39.1
Garst	5212RR/N	RR	18-Nov	1.2	25	0	2.0	3170	39.0
S.States	RT5130N	RR	18-Nov	1.3	24	0	2.7	2752	37.9
USG	510nRR	RR	18-Nov	1.0	21	4	2.7	3075	37.1
Garst	5012RR/N	RR	18-Nov	1.3	23	1	3.0	2708	36.9
Pioneer	P 95B42	RR	18-Nov	1.2	24	0	2.3	3117	35.7
S.States	RT5001N	RR	18-Nov	1.3	25	0	2.0	3199	35.6
Clark	CL54RR	RR	18-Nov	1.2	23	0	2.0	3117	34.0
Montague	MFS-591		18-Nov	1.5	21	0	1.0	5046	32.4
Virginia	V00-3650		18-Nov	1.0	16	1	1.0	4855	25.5
Grand Average			18-Nov	1.3	23	1	1.9	3091	39.3
R-Squared				0.54	0.54	0.57	0.82	0.99	0.76
CV				19.1	11.3	140.8	16.1	2.9	7.8
LSD (0.10)				0.4	3.5	1.4	0.4	124	4.2

*Maturity readings were not taken on a regular basis

Table 9c. 2004 Performance of Double-crop Maturity Group V Entries at Suffolk, Va.

Brand	Va.riety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
Vigoro	V55N5RR	RR	8-Nov	3.0	40	3	2.0	2826	55.4
S.States	5200STS	STS	8-Nov	3.7	44	3	1.7	2786	55.0
Garst	5012RR/N	RR	8-Nov	3.3	33	1	1.7	2746	54.9
USG	7504nRR	RR	8-Nov	3.5	34	1	1.7	3005	54.1
Public	Hutcheson		8-Nov	3.8	32	3	2.3	2794	54.0
USG	5601T		8-Nov	3.0	34	3	1.0	3333	53.8
S.States	RT5540N	RR	8-Nov	3.5	40	2	1.3	2893	53.4
USG	540nRR	RR	8-Nov	3.0	35	1	1.0	2942	53.4
Vigoro	V53N5RS	RR/STS	8-Nov	2.7	35	4	1.3	2663	50.9
Virginia	V98-9005		8-Nov	3.5	34	1	1.3	2586	50.6
S.States	RT5302N	RR	8-Nov	2.5	41	0	1.0	2930	50.4
Public	Teejay		8-Nov	3.0	32	1	1.7	2774	50.1
Public	Fowler		8-Nov	3.2	33	2	1.3	2944	49.9
Clark	CL54RR	RR	8-Nov	3.5	31	1	1.3	3130	49.4
D&PL	DP5110S	STS	8-Nov	3.8	38	2	1.0	3000	49.0
D&PL	DP5414RR	RR	8-Nov	3.3	38	0	1.3	2839	48.6
NK	S56-D7	RR	8-Nov	4.2	40	2	2.0	2693	48.3
Pioneer	95B96	RR	8-Nov	3.0	36	0	1.0	3070	48.2
S.States	RT5130N	RR	8-Nov	3.7	37	2	1.3	2542	47.9
D&PL	DP5634RR	RR	8-Nov	3.3	38	1	1.3	2692	47.9
USG	510nRR	RR	8-Nov	3.0	36	3	1.0	2940	47.8
Virginia	V98-2711		8-Nov	3.2	29	1	1.3	3176	47.6
Pioneer	95B42	RR	8-Nov	2.7	33	3	1.3	3199	47.1
Montague	MFL-159		8-Nov	3.5	31	7	1.3	1827	46.9
USG	7514nRR	RR	8-Nov	4.2	35	3	1.0	3153	46.6
S.States	RT-5450N	RR	8-Nov	3.7	32	4	1.0	2556	46.1
NK	S54-G9	RR	8-Nov	2.8	36	1	1.0	3126	45.0
S.States	RT5602N	RR	8-Nov	3.5	35	1	1.7	2891	43.8
S.States	RT557N	RR	8-Nov	3.8	40	2	1.0	2808	41.7
S.States	RT5001N	RR	8-Nov	3.3	39	2	1.0	3193	41.6
Garst	5212RR/N	RR	8-Nov	3.3	38	2	1.0	3014	38.8
Virginia	V00-3650		8-Nov	2.2	24	0	1.0	5301	38.7
Grand Average			8-Nov	3.3	35	2	1.3	2949	48.6
R-Squared				0.54	0.50	0.75	0.64	0.51	0.96
CV				0.1	19.1	8.0	69.2	32.3	4.5
LSD (0.10)				0.9	0.9	3.9	1.9	0.6	182
									8.6

Table 9d. 2004 Performance of Double-crop Maturity Group V Entries at Warsaw, Va.

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
-------	---------	------------------	------------------	----------------	---------------	-------	--------	---------------	---------------

DEER DAMAGE; DATA NOT REPORTED

2005

PUBLICATION 424-107

www.ext.vt.edu

Produced by Agriculture and Extension Communications, Virginia Tech

Virginia Cooperative Extension programs and employment are open to all, regardless of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. An equal opportunity/affirmative action employer. Issued in furtherance of Cooperative Extension work, Virginia Polytechnic Institute and State University, Virginia State University, and the U.S. Department of Agriculture cooperating. Mark A. McCann, Interim Director, Virginia Cooperative Extension, Virginia Tech, Blacksburg; Clinton V. Turner, Interim Administrator, 1890 Extension Program, Virginia State, Petersburg.
VT/1105/W/424107