

Virginia Soybean Variety Evaluation Tests

2005



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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. It is realized that not all varieties that are offered for sale in Virginia are included in these tests. There is no implication that 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 cop conditions at Blackstone, Orange, Painter, the Shenandoah Valley, Suffolk, and Warsaw. All double-crop tests were no-till planted following small grain. Due to the number of entries, it was necessary to separate the varieties by maturity in all locations.

The year began as a good one, with adequate rainfall to allow the full-season crop to emerge and develop adequate leaf area. However, droughty conditions persisted through much of June, resulting in poor growth for the double-crop plantings. Rain resumed in August, but little rain fell from mid-August through mid-October in most regions. Small seed size was a result of the droughty conditions during seed fill in the full-season tests. Rainy and warm weather conditions in mid-October during the maturity stages caused phomopsis seed decay to develop rapidly. Therefore, seed quality suffered. Yield for the double-crop plantings was lower due to poor leaf area development, but the October rains filled out the seed; seed size was closer to average than one might expect.

Interpreting the Results

Table 1 contains yield summaries over all locations. Past analysis 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% 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, it is recommended that producers select two to three of the highest yielding varieties from each maturity group adapted to his 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 it is suggested that data for varieties with less than three locations or years testing 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 are also shown in the tables (maturity, lodging, height, seed quality, purple stain, and seed size) because each producer emphasizes certain of these traits or a combination of them when selecting varieties for his 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 farm and under his 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% 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% indicates that the precision of the test was good in distinguishing differences between varieties.

R₂ is also a measure of variability. It gives information regarding significant differences. The higher the R₂, the more likely there are significant differences

between varieties. When yields are low, R2 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. Harvest was 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	220,000
IV	165,000	220,000
V	165,000	220,000

Maturity was taken at the date when 95% of the pods turned brown (R8). Detailed maturity date information was not taken at each location due to greater travel distances 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 to 50% down
- 4.0 - either all plants leaning considerably or 50 to 80% 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 are 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 number of seed per pound.

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

Production Information

Location*	Planting Date	Tillage System	Herbicides	Date Applied				Insecticides/Fungicides	Soil Type	Row Width	Planted	Harvested	Length of Row
				5/17	Dual II Mag	5/17	None						
Blackstone-FS	5/17	No-Till	Dual II Mag										
		Authority	Sencor										
Orange-FS	6/1	Conv.	Dual II Mag Canopy XL	5/23	None			Davidson	15"		5	3	17'
			Sencor					Clay Loam					
Painter-FS	5/12	Conv.	Dual II Mag, Sencor	5/12	Stratego	8/30/05		Bojac/sandy loam	15"		5	3	17'
			Dual II Mag,	5/23	Quadris	8/16/05		Dragston / Eunola fine	15"		5	3	17'
Suffolk-FS	5/18	Conv	Dual II Mag,					sandy loam					
Warsaw-FS	5/30	Conv.	Python, Dual Mag Reflex Select	5/10 7/11 7/7	Warrior T			Kempsville	30"		4	2	12'
			Roundup WeatherMax, Classic	7/12	None			silt loam					
Shenandoah-FS	6/1	Conv.	Dual II Mag, Sencor, Authority	6/21	None			Tempersville	15		5	3	17
					Appling/ Cecil sandy loam								
Blackstone-DC	6/29	No-Till	Roundup	7/31	None			Davidson	15"		5	3	17'
			Dual II Mag					Clay loam					
Orange-DC	7/11	No-Till	Roundup										
Painter-DC	7/7	No-Till	Touchdown, Sencor, Dual II Mag	7/7	Mustang Max	Bojac/sandy loam	15"						
					8/18	Stratego							
			Select, Classic	8/26	9/19								
Suffolk-DC	6/30	No-Till	Dual II Mag, Canopy XL	7/1	Quadris	Dragston	15"				5	3	17'
			Roundup WeatherMax		9/12	sandy loam							
Warsaw-DC	7/14	No-Till	Roundup Weather Max Dual Mag	6/17 9/1	Warrior T	Kempsville	7.5"				5	5	12'
						loam							
			Select, Basagran, Reflex	8/3									
			Select, Basagran	9/1									

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

Monthly Precipitation (inches) and Average Rainfall May through October at Variety Test Locations.

Location		May	June	July	Aug.	Sept.	Oct.	Total
Blackstone	2005	2.53	2.11	4.65	2.96	1.34	3.50	17.09
	54-yr Avg.	3.96	4.02	4.72	3.96	3.60	3.30	23.56
Orange	2005	3.19	0.85	3.64	2.95	2.29	9.71	22.63
	62-yr. Avg.	3.85	3.81	4.52	3.92	3.76	3.41	23.27
Painter	2005	4.56	6.75	5.82	5.76	1.32	7.05	31.26
	63-yr Avg.	3.38	3.37	4.51	4.13	3.53	3.36	22.28
Suffolk	2005	4.78	2.64	5.19	4.5	3.08	5.68	25.87
	71-yr. Avg.	3.97	4.21	5.79	5.74	4.17	3.41	27.29
Warsaw	2005	4.10	2.51	5.16	3.09	1.44	6.57	22.87
	39-yr Avg.	4.41	3.81	4.24	4.22	4.28	3.20	24.16

Suppliers Of Soybean Varieties Tested In 2005

Supplier	Brand	Variety
Delta and Pine Land Company 103 Seaboard Ave. Piedmont, AL 36272	D&PL	DP3861RR, DPX1908RR, DP4331RR, DP4546RR, DP4724RR, DP4960RR, DP5414RR, DP5634RR, DP5808RR, DP5915RR
Delta King Seed Co P.O. Box 970 McCrory, AR 72101	Delta King	DK4366, DK4866, DK5066, DK5567, DKXTJ652, DKXTJ6P51
Featherstone Farm 13941 Genito Rd. Amelia, VA 23002	Clark Delta King	CL54RR DK4461RR, DK4868RR
Garst Seed Co. 4850 W 350 N Danville, IN 46122	Garst	3824RR, 3960RR, 4512RR, 4612RR
Meherrin Ag& Chemical P.O. Box 7040 Suffolk, VA 23437	Asgrow	AG5605
Monsanto Company 4312 Carol Ave Cortland, IL 60112	Asgrow	AG4404, AG 4503, AG4703, AG4801, AG4903, AG5301, AG5605
NK Brand Seeds 25 Red Oak DR Lititz, PA 17543	NK	S40-R9, S43-B1, S49-Q9, S52-U3
Pioneer Hi-Bred International Inc. 7501 Memorial Parkway Huntsville, AL 35802	Pioneer	93M92, 94M30, 94M50, 94B73, 94M80, 95M50, 95M81
Progeny Ag Products 1529 Hwy 193 Wynne, AR 72396	Progeny	3900, 4401, 4949, 5660, 5822
R.W. White Farms, Inc Virginia Beach, VA	Public	Hutcheson, Teejay
Royster-Clark, Inc. 717 Robinson Road Washington C.H., OH 43160	Vigoro	V39N4RR, EX340078, V442NRR, V44N6RR, V48N5RR, V49N6RR, EX340079, V51N6RR, V53N5RS, V55N5RR
Southern States Coop P.O. Box 26234 Richmond, VA 23260	Southern States	RT3851, RT3951, RT4151, RT4230, RT4440, RT4451, RT4502, RT4551, RT4651, RT4808, RT4981, RT5130, RT5302, RT5540, RT5401, RT5450, RT3802.
T.A. Seeds P.O. Box 300 Avis, PA 17721	T.A. Seeds	TS3999R, TS4399R, TS4599R, TS4659R
UniSouth Genetics, Inc. 2640-C Nolensville Rd. Nashville, TN 37211	USG	7393nRR, 7415nRR, 7423nRS, 7434nRR, 7440nRR, 7455nRR, 7484nRR, 7494nRR, 7499nRR, 7504nRR, 7505nRR, 7515nRR, 7553nRR, 7582nRR, 7443nRR, 7489RR, 7482nRR, 7495nRR, 540nRR, 444nSTS, 550nSTS, 5002T, 5601T

Suppliers Of Soybean Varieties Tested In 2005 (cont.)

Supplier	Brand	Variety
University of Maryland Room 1112 HJ Patterson Hall College Park, MD 20742-5821	Maryland Public	Md96-57222 Manokin
University of Tennessee 2431 Joe Johnson Dr. Knoxville, TN 37996-4561	Tennessee	TN05-547RR, TN05-548RR
United Agri Products 544 Pridgen Pond Rd Kenston, AL 36453	Dyna Gro	3392, 3443
UAP Northeast P.O. Box 6 Eastville, VA 23347	Dyna Gro	3390, 3437, 38T47

Table 1a 2005 Yield Summaries and Average Relative Yield* of Full Season Maturity Group III Entries

Brand	Variety	Herb.	Resist.	ORG	PTR	SHV	SUF	WAR	Average	Avg. Rel.
Pioneer	93M92	RR	29.7	58.3	37.9	60.6	50.4	39.3	112	
S. States	RT3851N	RR	27.8	41.3	40.1	60.0	41.9	46.0	104	
S. States	RT3951N	RR	24.8	55.4	40.1	60.0	50.5	46.2	104	
Progeny	3900	RR	28.0	57.7	37.9	59.1	46.4	45.8	104	
Vigoro	V39N4RR	RR	26.5	52.9	36.5	63.3	48.5	45.5	103	
Garst	3824RR/N	RR	64.4	35.1	59.2	36.5	48.8	48.8	99	
D&PL	DF3861RR	RR	26.8	59.6	35.1	63.0	35.4	44.0	99	
S. States	RT3802N	RR	28.2	31.8	31.8	56.6	44.4	40.3	99	
USG	7393nRR	RR	55.5	37.2	60.4	38.6	38.6	47.9	98	
T.A.Seeds	TS3999R	RR	24.1	53.3	33.1	57.3	43.2	34.8	98	
DynaGro	3392	RR	21.1	57.2	31.9	42.4	42.4	47.9	94	
DynaGro	3390	RR	52.7	36.7	51.4	37.2	44.5	38.2	92	
Garst	3960RR/N	RR	26.3	56.7	36.3	59.1	42.9	43.8	92	
GRAND AVERAGE										
										100

Table 1b 2005 Yield Summaries and Average Relative Yield* of Double Crop Maturity Group III Entries

Brand	Variety	Herb.	Resist.	ORG	PTR	SUF	WAR	Average	Avg. Rel.
Dyna-Gro	DG33A37	RR	30.9	29.6	29.4	31.1	30.2	113.0	
S. States	RT3851N	RR	20.3	30.7	33.0	31.9	29.0	107.3	
S. States	RT3951N	RR	25.2	24.8	28.1	26.7	26.2	97.6	
Pioneer	93M90	RR	22.4	21.9	26.3	28.6	24.8	92.2	
S. States	RT3802N	RR	24.1	23.7	26.8	21.8	24.1	90.0	
GRAND AVERAGE									
								26.9	100.0

Table 1c 2005 Yield Summaries and Average Relative Yield* of Full Season Early Maturity Group IV Entries

Brand	Variety	Herb. Resist.	BLK	ORG	PTR	SHV	SUF	WAR	Average	Avg. Rel. Yield
S. States	RT4451N	RR	40.0		43.4	55.2	44.2	45.7	111	
USG	7434nRR	RR		67.4	35.6	62.0	46.5	52.8	108	
Pioneer	94M30	RR	38.2		39.8		40.1	39.4	107	
Asgrow	AG4404	RR/STS	41.0	52.9		41.8	45.3	45.3	107	
USG	7415nRR	RR		58.5	40.4	59.4	45.0	50.8	105	
USG	7443nRR	RR		65.3	35.8	55.6	47.6	51.1	105	
Vigoro	V44N6RR	RR	34.7	62.0		59.8	40.1	49.1	104	
USG	7423nRS	RR/STS		54.5	39.1	63.0	45.3	50.5	104	
NK	S43-B1	RR	29.6		43.5	62.9	40.3	44.1	104	
Asgrow	AG4503	RR	39.8	53.7		38.3	43.9	43.9	104	
USG	7440nRR	RR		61.2	36.9	63.7	41.1	50.7	103	
T.A.Seed	TS4659R	RR	34.5		36.2	58.1	42.9	37.9	103	
DynaGro	3443	RR	34.6	63.0		59.2	39.9	51.9	103	
Progeny	4401	RR	34.2	34.8	60.5		40.9	44.5	102	
Pioneer	94M50	RR		32.0		40.2		37.7	102	
USG	7455nRR	RR		63.7		55.5	40.4	53.2	102	
S. States	RT4502N	RR	36.0		35.9	53.1	43.5	42.2	102	
Vigoro	EX340078	RR		58.3		55.6	42.3	52.1	101	
S. States	RT4551N	RR	36.7	55.8	37.6	48.8	42.9	44.3	100	
Vigoro	V442NRR	RR		29.4	58.4	60.2	41.0	47.3	99	
DeltaKing	DK4461RR	RR	34.7	32.1	57.0	38.2	53.3	39.1	98	
T.A.Seed	TS4399R	RR		29.0		41.2		36.2	98	
S. States	RT4651N	RR	32.5	56.9		38.7	48.6	42.3	43.8	
S. States	RT4151N	RR	29.8		40.4	55.6	38.3	41.0	98	
S. States	RT4230N	RR	30.2	62.3	39.7	57.2	34.4	44.7	97	
T.A.Seed	TS4599R	RR	30.6		38.0		38.9	35.9	97	
D&PL	DP4331RR	RR	35.7	30.8	59.8	37.2	60.0	32.4	42.7	97
NK	S40-R9	RR		28.2		39.5	59.5	36.0	40.8	96
Maryland	Md96-5722		36.6	30.0	52.3		62.8	32.5	42.8	96
D&PL	DPX1908RR	RR	34.0	28.3	57.5	39.0	54.3	37.3	41.7	95
D&PL	DF4690RR	RR	31.2	27.3	60.3	36.4	55.1	34.8	40.8	92
S. States	RT4440N	RR		24.7		39.1	59.8	32.2	38.9	91
DynaGro	3437	RR/STS		25.7	58.3	37.0		32.1	38.3	89
	GRAND AVERAGE		34.4	32.2	59.1	38.7	57.5	39.7	44.6	100

Table 1d 2005 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	RT4151N	RR		31.0			45.4	36.7	37.7	113
S. States	RT4651N	RR		25.1			46.5	36.9	36.2	106
S. States	RT4451N	RR		23.9			44.8	39.8	36.2	106
S. States	RT4551N	RR		22.1			46.2	40.8	36.4	106
DynaGro	3443	RR		29.0	27.0		44.2		33.4	105
Garst	4512RR/N	RR		26.3	30.1		44.6	33.7	33.7	104
Vigoro	V44N6RR	RR		26.0	29.0		46.1	35.7	34.2	102
Vigoro	Ex340078	RR		29.8	44.3		31.4		35.2	100
USG	444nSTS	STS		28.8	36.0		39.0		34.6	100
Maryland	Ma96-5722	RR		28.5	30.5	43.8	29.8		33.2	100
DeltaKing	Dk4461RR	RR		30.2	41.4	32.9	32.9		34.8	100
Vigoro	V442NRR	RR		28.2	42.6	34.4	34.4		33.2	100
D&PL	DP4546RR	RR		28.8	25.4	28.9	44.9	29.9	31.6	100
S. States	RT4502N	RR		24.3	29.3		39.5	36.3	32.4	100
S. States	RT4440N	RR		27.4		41.5	30.5		33.1	99
Pioneer	94M50	RR		27.1		38.2	33.1		32.8	99
D&PL	DP4331RR	RR		25.2	30.5	42.1	28.4	30.8	30.8	98
D&PL	DP4690RR	RR		26.1	29.4	44.0	30.7	30.9	30.9	98
Garst	4612RR/N	RR		23.5	28.3	43.1	30.2	31.3	31.3	96
S. States	RT4230N	RR		20.9	25.2	44.2	29.3	29.9	29.9	90
D&PL	DPX1908RR	RR		23.2	25.8	33.2	27.2	27.5	27.5	89
	GRAND AVERAGE			27.5	25.3	28.9	42.7	33.3	31.5	100

Table 1e 2005 Yield Summaries and Average Relative Yield* of Full Season Late Maturity Group IV Entries

Brand	Variety	Herb.	Resist.	BLK	ORG	PTR	SHV	SUF	WAR	Average	Avg. Rel. Yield		
Vigoro	V49N6RR	RR	41.6	69.0			53.1			54.6	110		
DeltaKing	Dk4866RR	RR	42.2				45.0		38.2	41.8	109		
USG	7489RR	RR		60.9			55.4		32.9	49.7	108		
Delta King	Dk4868RR	RR	41.0		61.8		51.6		33.2	46.9	106		
Asgrow	AG4903	RR/STS		39.3		62.8		49.8		34.1	46.5	106	
S.States	RT4808N	RR		41.0		65.0		33.9		51.5	30.6	44.4	105
Progeny	4949	RR	37.7	41.5		56.9		34.4		47.2	35.9	42.3	103
USG	7494nRR	RR		39.1		64.3		50.3		28.0	47.5	101	
Asgrow	AG4801	RR		39.4		66.8		54.9		55.0	29.6	44.7	101
DeltaKing	DKXTJ6P51	RR		37.3				49.5		30.4	39.7	101	
USG	7484nRR	RR		34.6		61.6				45.6	29.2	47.2	101
Pioneer	94AM80	RR		44.0				34.7		48.4	26.0	38.3	100
Pioneer	94B73	RR		39.7		63.1		33.6		56.6	26.5	38.5	100
Asgrow	AG4703	RR		34.6		59.2				52.2	26.2	42.3	99
Vigoro	V48N5RR	RR						45.9		28.8	44.3	99	
Vigoro	Ex340079	RR								28.1	40.0	97	
Clarks	CL48RR	RR		41.2		51.7		33.7		50.4	28.6	42.0	96
D&PL	DP4724RR	RR		40.2		35.4							96
D&PL	DP4690RR	RR		33.9		57.1				56.2	28.5	43.6	96
NK	S49-Q9	RR		34.3		65.9				48.0	26.2	41.1	97
S.States	RT4981N	RR		35.1		57.0		33.5		45.5	30.2	40.3	96
USG	7482nRR	RR						52.8		50.9	26.1	43.2	93
Public	Manokin	RR		37.6		41.1				46.6	29.3	39.3	93
USG	7499nRR	RR						55.3		42.9	26.6	41.6	90
GRAND AVERAGE				39.0		38.4		59.3		34.0	49.7	41.7	100

Table 1f 2005 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
USG	7495nRS	RR/STS RR/STS RR			38.1	48.4	44.3	43.6	117
Asgrow	AG4903				38.0	47.4	42.0	38.5	111
Vigoro	V49N6RR	27.1			34.1	46.7	42.9	37.7	110
S. States	RT4808N	RR	28.0			48.4	37.8	38.1	108
S. States	RT4981N	RR	22.5		36.0	52.5	39.0	37.5	107
Vigoro	Ex340079	RR			34.5	45.9	38.5	39.6	106
Pioneer	94M80	RR	29.1			38.3	40.0	35.8	104
Asgrow	AG4801	RR	27.3		32.6	42.2	40.4	35.6	104
Progeny	4949	RR	27.6	25.3	32.4	43.4	37.0	33.1	102
Clarks	CL482NRR	RR	23.2		31.9				
Public	Manokin		22.9		24.6	41.6	40.5	32.4	94
DeltaKing	Dk4868RR	RR	24.2		30.7	37.0	33.7	29.6	94
USG	7489nRR	RR			33.0	40.4	29.6	34.3	92
USG	7484nRR	RR			28.4	39.2	34.5	34.0	91
Pioneer	94B73	RR	22.5			37.4	35.5	31.8	90
Vigoro	V48N5RR	RR	24.1		28.3	35.4	32.5	30.1	89
DynaGro	38T47	RR			31.9	26.6	27.0	27.0	86
GRAND AVERAGE		24.9	25.5	32.5	43.0	36.9	32.5	100	

Table 19 2005 Yield Summaries and Average Relative Yield* of Full Season Maturity Group V Entries

Brand	Variety	Herb. Resist.	BLK	ORG	PTR	SUF	WAR	Average	Avg. Rel. Yield
Virginia	V98-9005		38.8	52.2	58.6	43.6	41.0	46.8	109
USG	5002T				56.6	47.7	42.9	49.1	109
S. States	RT5450N	RR	35.7	48.2	57.1	47.6	44.9	46.7	108
Public	Teejay	RR	38.1	45.3	59.9	46.8	43.1	46.6	108
DeltaKing	Dk5066RR	RR	39.6			46.6	38.3	41.5	108
Progeny	5822	RR	39.1	46.3	58.0	44.7	42.8	46.2	107
Asgrow	AG5605	RRSTS			60.0				
USG	7553nRS	RRSTS			60.5	47.2	41.3	49.5	107
Virginia	V98-2711		35.3	50.1	60.0	42.8	38.1	48.6	106
Vigoro	V53N5RS	RRSTS	35.8		56.6	46.5	40.4	44.8	105
S. States	RT5130N	RR	39.5	44.7	50.3	46.6	39.0	44.0	103
Tennessee	TN05-547RR	RR	32.8	53.3	52.5	43.9	39.2	44.3	103
Progeny	5660	RR	30.6	45.9	55.7	51.3	36.9	44.1	101
USG	5601T		30.2	49.9	57.2	45.5	37.5	44.1	101
Vigoro	V51N6RR	RR	35.0		50.5	42.8	41.0	42.3	100
Public	Hutcheson		35.4	42.3	52.8	41.0	43.0	42.9	100
Asgrow	AG5301	RR		42.7	56.3		39.6	46.2	100
Tennessee	TN05-548RR	RR	36.7	44.1	48.4	45.9	38.1	42.6	100
USG	7582nRR	RR			51.7	45.3	37.0	44.7	99
DeltaKing	Dk5567RR	RR	37.6			39.1	35.4	37.4	98
DeltaKing	DKXTJ652	RR	30.7			42.3	40.2	37.8	98
Pioneer	95M50	RRSTS	32.5			40.4	39.3	37.4	97
D&PL	DP5915RR	RR	27.8	46.6	55.1	43.5	36.9	42.0	96
S. States	RT5401N	RR	35.6	45.7	52.0	39.4	34.1	41.4	96
NK	S52-U3	RR			55.3	40.6	34.5	43.5	95
S. States	RT5540N	RR	32.9	45.6	53.0	37.5	36.2	41.0	95
Pioneer	95M81	RR	31.0			41.6	36.2	36.3	94
Vigoro	V55N5RR	RR	32.4		49.4	40.8	36.1	39.7	94
D&PL	DP5634RR	RR	33.2	39.5	49.5	42.1	36.0	40.1	93
D&PL	DF5414RR	RR	30.6	47.2	52.2	37.3	33.8	40.2	93
D&PL	DF5808RR	RR	31.6	42.0	48.6	41.4	34.6	39.6	92
Clark	CL54RR	RR	28.3		54.0	39.2	35.8	39.3	92
S. States	RT5302N	RR	29.8	37.2	50.3	41.6	33.9	38.6	89
	GRAND AVERAGE		33.9	45.8	54.4	43.3	38.5	43.2	100

Table 1h 2005 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
Asgrow	AG5605	RR	24.0	55.2	49.0	38.3	42.8	110.5
USG	540nRR	RR		52.0	47.8	46.0	46.0	109.0
USG	7505nRR	RR		53.9	48.2	33.9	45.3	106.4
Virginia	V98-9005	RR/STS	24.7	48.1	45.2	40.1	39.5	106.3
USG	7553nRS	RR	27.6	51.0	42.8	40.0	44.6	106.1
S. States	RT5130N			50.1	42.4	35.3	38.8	105.4
Public	Teijay	RR	22.9	51.1	48.1	37.1	39.8	105.3
Vigoro	V51N6RR	RR	23.7	49.6	41.2	41.9	39.1	104.9
S. States	RT5450N	RR	23.8	47.5	46.5	38.7	39.1	104.8
USG	7515nRR	RR		55.7	40.9	35.9	44.2	104.0
USG	5601T		26.4	45.3	41.2	39.6	38.1	103.9
Public	Hutcheson		22.9	52.0	42.6	38.5	39.0	103.8
Virginia	V98-2711	RR/STS	22.7	47.5	43.6	36.5	37.6	100.3
Vigoro	V53N5RS	STS	21.9	45.1	45.7	36.8	37.4	99.6
USG	550nSTS			44.0	45.0	36.4	41.8	99.6
D&PL	DP5634RR	RR	21.0	46.7	44.0	38.2	37.5	99.5
Pioneer	95M81	RR	21.8		46.8	32.9	33.8	98.6
S. States	RT5540N	RR	23.7	45.3	45.1	30.4	36.1	96.7
Tennessee	TN05-548RR	RR	21.6	49.2	41.3	33.5	36.4	96.5
Pioneer	95M50	RR/STS	21.9		39.2	36.3	32.5	96.1
S. States	RT5401N	RR	21.7	44.6	44.9	33.0	36.1	95.9
Tennessee	TN05-547RR	RR	24.0	44.7	42.3	31.0	35.5	95.5
Vigoro	V55N5RR	RR	23.7	48.1	40.9	29.2	35.5	94.9
D&PL	DP5414RR	RR	22.1	43.8	37.4	35.2	34.6	93.2
Clarks	CL54RR	RR	21.5	44.0	43.7	28.1	34.3	91.3
USG	7504nRR	RR		46.8	38.9	29.2	38.3	89.9
S. States	RT5302N	RR	21.6	43.5	37.6	27.8	32.6	87.3
GRAND AVERAGE		23.1	48.2	43.4	35.1	37.5	100.0	

TABLE 2a 2005 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
Pioneer	93M92	RR	9/20	1.0	20	0	4.0	3534	29.7
S.States	RT3802	RR	9/20	1.0	25	0	3.3	3848	28.2
Progeny	3900	RR	9/20	1.0	21	1	3.7	3111	28.0
S.States	RT3851N	RR	9/20	1.0	23	0	3.7	3929	27.8
D&PL	DP3861RR	RR	9/20	1.0	20	0	2.0	3861	26.8
Vigoro	V39N4RR	RR	9/20	1.0	20	0	4.0	3198	26.5
S.States	RT3951N	RR	9/20	1.0	20	0	3.3	4713	24.8
T.A.Seeds	TS3999R	RR	9/20	1.0	20	0	3.7	3458	24.1
DynaGro	3390	RR	9/20	1.0	18	0	3.7	3971	21.1
Grand Average			9/20	1.0	21	0	3.5	3757	26.3
R-Squared				NA	NA	0.77	0.58	0.76	0.97
CV				NA	NA	7.4	237.0	12.5	2.9
LSD (0.10)				NS	NS	1.8	0.4	0.6	15.5
									6.1

TABLE 2b 2005 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
Garst	3824RR/N	RR	----	1.2	30	6	4.0	3532	64.4
D&PL	DP3861RR	RR	----	1.0	29	10	3.8	3227	59.6
S.States	RT3851N	RR	----	1.2	30	5	3.7	3540	58.3
Progeny	3900	RR	----	1.0	31	8	4.0	2419	57.7
DynaGro	3390	RR	----	1.2	28	8	4.0	3434	57.2
USG	7393	RR	----	1.0	33	8	4.0	2538	55.5
S.States	RT3951N	RR	----	1.5	35	4	3.5	3209	55.4
DynaGro	3392	RR	----	1.4	33	8	4.0	3151	53.3
Vigoro	V39N4RR	RR	----	1.0	31	11	4.0	2359	52.9
Garst	3960RR/N	RR	----	1.3	32	7	4.0	3252	52.7
Grand Average			----	1.2	31	8	3.9	3093	56.8
R-Squared				0.58	0.44	0.62	0.50	0.98	0.50
CV				15.2	8.5	25.7	6.7	2.4	7.7
LSD (0.10)				0.2	3.2	2.3	0.3	90.0	5.3

*Maturity ratings were not taken on a regular basis

TABLE 2c 2005 Performance of Full Season Maturity Group III Entries, Shenandoah Valley, VA									
Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
S.States	RT3851N	RR	---	1.0	24	1	3.0	2901	41.3
S.States	RT3951N	RR	---	1.0	22	3	3.0	3365	40.1
Progeny	3900	RR	---	1.0	22	4	3.0	2421	37.9
Pioneer	93M92	RR	---	1.0	19	3	4.0	2602	37.9
USG	7393nRR	RR	---	1.0	21	5	3.0	2346	37.2
T.A.Seeds	TS3999R	RR	---	1.0	21	2	3.0	2773	37.1
Garst	3960RR/N	RR	---	1.0	23	1	2.5	3017	36.7
Vigoro	V39N4RR	RR	---	1.0	22	5	3.0	2335	36.5
D&PL	DP3861RR	RR	---	1.0	20	2	2.5	2901	35.1
Garst	3824RR/N	RR	---	1.0	19	3	4.0	2941	35.1
DynaGro	3392	RR	---	1.0	22	3	3.0	3028	33.1
DynaGro	3390	RR	---	1.0	19	3	4.0	3029	31.9
S.States	RT3802N	RR	---	1.0	25	2	3.0	3078	31.8
Grand Average			---	1.0	21	3	3.2	2826	36.3
R-Squared			---	NA	0.72	0.65	0.89	0.96	0.43
CV			---	NA	7.7	55.4	8.4	3.1	13.2
LSD (0.10)			---	NS	2.9	2.6	0.5	154.0	8.5

*Maturity ratings were not taken on a regular basis

TABLE 2d 2005 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
Vigoro	V39N4RR	RR	9/19	1.0	37	1	2.0	2716	63.3
D&PL	DP3861RR	RR	9/19	1.0	32	1	1.0	3487	63.0
S.States	RT3851N	RR	9/20	1.3	41	0	1.8	4084	60.6
USG	7393nRR	RR	9/19	1.0	36	0	2.0	2768	60.4
S.States	RT3951N	RR	9/20	1.3	40	1	1.8	3563	60.0
Garst	3824RR/N	RR	9/19	1.0	32	2	2.0	3627	59.2
Progeny	3900	RR	9/20	1.0	36	1	2.3	2794	59.1
DynaGro	3392	RR	9/21	1.4	35	2	2.5	3499	57.3
S.States	RT3802N	RR	9/20	1.3	43	1	2.0	3353	56.6
Garst	3960RR/N	RR	9/20	1.0	37	2	1.0	3625	51.4
Grand Average			9/19	1.1	37	1	1.8	3352	59.1
R-Squared			0.19	0.58	0.70	0.35	0.60	0.93	0.33
CV			0.0	14.7	7.5	128.0	26.6	4.1	11.5
LSD (0.10)			2.0	1.7	3.3	1.3	0.6	167.0	8.2

TABLE 2e 2005 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
S.States	RT3951N	RR	9/19	19.3	1	32	2.7	1879	50.5
Pioneer	93M92	RR	9/19	19.3	1	30	1.7	1866	50.4
Vigoro	V39N4	RR	9/20	20.7	1	27	3.0	1801	48.5
Progeny	3900	RR	9/20	20.3	1	29	5.7	1724	46.4
S.States	RT3802N	RR	9/18	18.0	1	35	2.0	1652	44.4
T.A.Seeds	TS3999R	RR	9/20	20.7	1	28	0.7	1602	43.2
DynaGro	3390	RR	9/17	17.0	1	26	2.0	1572	42.4
S.States	RT3851N	RR	9/16	16.7	1	34	1.3	1565	41.9
USG	7393nRR	RR	9/20	20.0	1	26	4.3	1436	38.6
Garst	3960RR/N	RR	9/15	15.3	1	30	0.7	1384	37.2
Garst	3824RR/N	RR	9/17	17.3	1	25	3.0	1356	36.5
D&PL	DP3861RR	RR	9/15	15.7	1	26	3.7	1317	35.4
Grand Average			9/18	18.4	1	29	2.6	1596	42.9
R-Squared			0.86	0.58	0.72	0.56	0.47	0.95	0.56
CV			0.0	11.4	10.0	67.6	19.9	14.1	17.3
LSD (0.10)			1.4	0.2	4.1	2.4	0.6	192.0	10.4

TABLE 3a 2005 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
Dyna-Gro	DG33A37	RR	----	1.0	26	7	3.0	2566	30.9
S.States	RT3951N	RR	----	1.0	28	7	3.7	3230	25.2
S.States	RT3802N	RR	----	1.0	26	3	2.7	3586	24.1
Pioneer	93M90	RR	----	1.0	24	5	3.0	3110	22.4
S.States	RT3851N	RR	----	1.0	25	4	3.3	3820	20.3
Grand Average			----	1.0	26	5	3.1	3262	24.6
R-Squared			----	NA	0.62	0.76	0.61	0.94	0.87
CV			----	NA	6.1	27.0	13.7	4.5	9.0
LSD (0.10)			----	NS	2.4	2.1	0.6	224.0	3.4

*Maturity readings were not taken on a regular basis

TABLE 3b 2005 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
S.States	RT3851N	RR	----	1.5	22	3	3.0	3638	30.7
Dyna-Gro	DG33A37	RR	----	1.5	22	8	4.0	2512	29.6
S.States	RT3951N	RR	----	1.5	21	4	3.0	3270	24.8
S.States	RT3802N	RR	----	1.5	23	8	3.3	3016	23.7
Pioneer	93M90	RR	----	1.0	20	6	3.3	3041	21.9
Grand Average			----	1.4	22	6	3.3	3095	26.1
R-Squared			----	1.00	0.45	0.61	0.69	0.94	0.84
CV			----	0.0	6.9	46.3	9.9	4.2	9.5
LSD (0.10)			----	0.0	1.9	3.4	0.4	162.0	3.1

*Maturity readings were not taken on a regular basis

TABLE 3c 2005 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
S.States	RT3851N	RR	10/19	2.0	28	4	2.3	4158	33.0
Dyna-Gro	DG33A37	RR	10/15	2.3	29	6	3.0	3107	29.4
S.States	RT3951N	RR	10/19	2.3	29	8	2.7	3464	28.1
S.States	RT3802N	RR	10/22	2.5	31	3	2.5	3362	26.8
Pioneer	93M90	RR	10/24	1.5	27	5	2.3	3229	26.3
Grand Average			10/20	2.1	29	5	2.6	3477	28.7
R-Squared			0.55	0.62	0.47	0.22	0.60	0.88	0.26
CV			0.0	17.4	8.4	83.0	18.2	5.0	24.9
LSD (0.10)			5.2	0.5	3.0	5.1	0.6	220.0	8.7

TABLE 3d 2005 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
S.States	RT3851N	RR	10/16	1.1	22	23	3.6	4546	31.9
Dyna-Gro	33A37	RR	10/17	1.2	22	29	3.4	2924	31.1
Pioneer	93M90	RR	10/14	1.0	18	16	2.8	3628	28.6
S.States	RT3951N	RR	10/15	1.1	21	21	3.3	3851	26.7
S.States	RT3802N	RR	10/15	1.1	18	21	3.4	3963	21.8
Grand Average			10/15	1.1	20	22	3.3	3782	28.0
R-Squared			0.69	0.50	0.68	0.86	0.82	0.97	0.82
CV			0.0	8.8	7.8	11.0	5.6	3.3	8.8
LSD (0.10)			1.5	0.2	2.4	3.7	0.3	191.0	3.7

TABLE 4a 2005 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
Maryland	Md96-5722		9/16	1.0	26	1	3.0	3045	36.6
D&PL	DP4331RR	RR	9/14	1.0	27	1	3.0	3903	35.7
Delta King	DK4461RR	RR	9/16	1.0	26	0	3.0	4083	34.7
DynaGro	3443	RR	9/16	1.0	26	1	2.7	4031	34.6
Progeny	4401	RR	9/14	1.0	27	1	2.7	3995	34.2
D&PL	DPX1908RR	RR	9/16	1.0	25	0	2.3	3843	34.0
D&PL	DP4690RR	RR	9/16	1.0	29	0	2.0	3905	31.2
Grand Average			9/16	1.0	27	1	2.7	3829	34.4
R-Squared			0.85	NA	0.52	0.33	0.59	0.94	0.38
CV			0.1	NA	6.3	126.0	14.9	3.0	9.3
LSD (0.10)			0.4	NS	2.4	1.1	0.6	168.0	4.6

TABLE 4b 2005 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
Asgrow	AG4404	RR,STS	9/22	1.0	23	0	2.3	3796	41.0
S.States	RT4451N	RR	9/22	1.0	27	1	3.0	4368	40.0
Asgrow	AG4503	RR	9/24	1.0	23	0	3.0	3133	39.8
Pioneer	94M30	RR	9/23	1.0	22	0	2.7	3473	38.2
S.States	RT4551N	RR	10/8	1.0	20	0	2.0	3578	36.7
S.States	RT4502N	RR	9/24	1.0	27	0	2.7	3851	36.0
Progeny	4401	RR	9/22	1.0	24	1	2.3	4325	34.8
Vigoro	V44N6RR	RR	9/26	1.0	21	0	3.0	4158	34.7
T.A.Seeds	TS4659R	RR	9/27	1.0	28	0	2.0	4205	34.5
S.States	RT4651N	RR	10/1	1.0	21	1	1.7	3882	32.5
DeltaKing	DK4461RR	RR	9/23	1.0	21	1	2.0	4067	32.1
Pioneer	94M50	RR	9/23	1.0	20	0	4.0	3615	32.0
D&PL	DP4331	RR	9/22	1.0	21	1	2.7	4093	30.8
T.A.Seeds	TS4599R	RR	9/24	1.0	20	0	3.0	3266	30.6
S.States	RT4230N	RR	9/23	1.0	20	1	3.3	3824	30.2
Maryland	Md96-5722		9/21	1.0	23	0	3.3	3323	30.0
S.States	RT4151N	RR	9/25	1.0	23	0	3.3	3774	29.8
NK	S43-B1	RR	9/21	1.0	21	0	3.3	4060	29.6
Vigoro	V442NRR	RR	9/23	1.0	20	0	2.7	4134	29.4
T.A.Seeds	TS4399R	RR	9/22	1.0	22	1	2.5	4185	29.0
D&PL	DPX1908	RR	9/23	1.0	21	0	2.7	4311	28.3
NK	S40-R9	RR	9/23	1.0	23	0	3.7	3671	28.2
D&PL	DP4690RR	RR	9/27	1.0	24	1	3.0	4073	27.3
DynaGro	3437	RR,STS	9/21	1.0	21	1	3.0	3372	25.7
S.States	RT4440N	RR	9/22	1.0	23	0	3.0	4096	24.7
Grand Average			9/24	1.0	22	0	3.2	3866	32.3
R-Squared			0.37	0.00	0.67	0.24	0.72	0.89	0.64
CV			0.2	0.0	9.1	177.0	15.3	3.9	13.3
LSD (0.10)			0.8	0.0	2.8	0.9	1.7	206.0	5.9

TABLE 4c 2005 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	---	1.0	28	5	3.8	2453	67.4
USG	7443nRR	RR	---	1.0	32	5	3.3	3156	65.3
USG	7455nRR	RR	---	2.1	37	4	2.5	3619	63.7
DynaGro	3443	RR	---	1.3	34	2	2.5	3417	63.0
S.States	RT4230N	RR	---	1.0	29	7	3.3	3019	62.3
Vigoro	V44N6RR	RR	---	1.4	33	1	2.3	3627	62.0
USG	7440nRR	RR	---	1.0	32	2	2.8	3309	61.2
DeltaKing	DK4366	RR	---	1.5	37	3	3.0	3305	60.7
Progeny	4401	RR	---	1.1	32	1	2.5	3355	60.5
D&PL	DP4690	RR	---	1.3	34	1	2.5	3105	60.3
D&PL	DP4331	RR	---	1.1	30	3	2.8	3338	59.8
USG	7415nRR	RR	---	1.1	32	5	3.8	2606	58.5
Vigoro	V442NRR	RR	---	1.1	33	2	3.0	3223	58.4
Vigoro	EX34oo78	RR	---	1.1	31	6	3.8	2492	58.3
DynaGro	3437	RR,STS	---	1.0	28	7	4.0	2569	58.3
D&PL	DPX1908RR	RR	---	1.3	30	0	2.5	3329	57.5
Delta King	DK4461RR	RR	---	1.1	30	2	2.3	3339	57.0
S.States	RT4651N	RR	---	1.1	34	1	2.5	3434	56.9
S.States	RT4551N	RR	---	2.4	34	1	3.5	3271	55.8
USG	7423nRS	RR/STS	---	1.1	28	4	4.0	2500	54.5
Asgrow	AG4503	RR	---	1.0	31	3	4.0	2680	53.7
Asgrow	AG4404	RR/STS	---	1.0	32	2	3.5	3102	52.9
Maryland	Md96-5722	---	---	1.4	31	14	4.0	2441	52.3
Grand Average			---	1.2	32	3	3.1	3073	59.1
R-Squared			---	0.72	0.59	0.73	0.71	0.94	0.40
CV			---	21.0	8.7	63.2	15.3	3.7	9.6
LSD (0.10)			---	0.3	3.3	2.5	0.6	134.0	6.7

*Maturity readings were not taken on a regular basis

TABLE 4d 2005 Performance of Full Season Early Maturity Group IV Entries, Shenandoah Valley, VA

Brand	Variety	Herb. Resist.	Maturity Date*	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS seed/lb	Yield Bu/A
NK	S43-B1	RR	---	1.2	26	2	3.0	3368	43.5
S.States	RT4451N	RR	---	1.0	25	2	2.7	3298	43.4
T.A.Seed	TS4399R	RR	---	1.2	27	1	2.7	3431	41.2
S.States	RT4151N	RR	---	1.0	22	3	2.7	3013	40.4
USG	7415nRR	RR	---	1.0	25	1	3.0	2822	40.4
Pioneer	94M50	RR	---	1.2	23	2	3.0	2831	40.2
Pioneer	94M30	RR	---	1.0	24	3	3.3	2864	39.8
S.States	RT4230N	RR	---	1.2	25	5	3.0	2924	39.7
NK	S40-R9	RR	---	1.0	26	2	2.7	3145	39.5
USG	7423nRS	RR/STS	---	1.0	23	2	3.7	2547	39.1
S.States	RT4440N	RR	---	1.0	24	3	2.3	3299	39.1
D&PL	DPX1908RR	RR	---	1.2	24	2	3.3	3382	39.0
S.States	RT4651N	RR	---	1.0	25	3	1.3	3683	38.7
Progeny	4401	RR	---	1.0	24	3	2.0	3520	38.6
Delta King	DK4461RR	RR	---	1.0	25	2	2.0	3484	38.2
T.A.Seed	TS4599R	RR	---	1.0	19	2	2.0	3393	38.0
S.States	RT4551N	RR	---	1.5	29	3	1.3	3424	37.6
D&PL	DP4331RR	RR	---	1.0	23	2	2.7	2886	37.2
DynaGro	3437	RR,STS	---	1.0	20	6	3.0	2533	37.0
USG	7440nRR	RR	---	1.0	26	1	2.7	3479	36.9
D&PL	DP4690RR	RR	---	1.3	25	3	2.7	3000	36.4
T.A.Seed	TS4659R	RR	---	1.0	29	2	2.7	3160	36.2
S.States	RT4502N	RR	---	1.0	25	2	2.0	3360	35.9
USG	7443nRR	RR	---	1.0	23	5	2.3	3196	35.8
USG	7434nRR	RR	---	1.0	21	6	4.0	2821	35.6
Grand Average			---	1.1	24	3	2.6	3154	38.7
R-Squared			---	0.57	0.69	0.39	0.60	0.80	0.74
CV			---	14.5	9.2	86.7	25.1	6.3	9.9
LSD (0.10)			---	0.2	3.1	3.2	0.9	273.0	5.2

*Maturity readings were not taken on a regular basis

TABLE 4e 2005 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	7440nRR	RR	9/26	1.1	43	1	1.0	3787	63.7
USG	7423nRR	RR	9/26	1.0	36	3	2.5	2850	63.0
NK	S43-B1	RR	9/24	1.1	39	1	1.5	2490	62.9
Maryland	Md96-5722	RR	9/26	1.8	43	5	3.0	2613	62.8
USG	7434nRR	RR	9/26	1.0	34	2	2.8	2806	62.0
Vigoro	V442NRR	RR	9/26	1.0	41	1	1.3	3686	60.2
D&PL	DP4331RR	RR	9/26	1.0	42	1	1.3	3672	60.0
Vigoro	V44N6RR	RR	9/26	2.0	45	2	1.0	3996	59.8
S.States	RT4440N	RR	9/26	1.1	41	1	1.3	2824	59.8
NK	S40-R9	RR	9/22	1.6	41	1	1.3	3322	59.5
USG	7415nRR	RR	9/26	1.0	40	2	2.0	2954	59.4
Progeny	4401	RR	9/26	1.0	42	1	1.5	3874	59.2
DynaGro	3443	RR	9/26	1.0	41	1	1.0	3720	58.1
S.States	RT4230N	RR	9/24	1.1	42	2	2.0	3239	57.2
DeltaKing	DK4366	RR	9/26	1.0	44	2	1.3	3715	56.8
Vigoro	EX34oo78	RR	9/26	1.1	39	2	2.3	2990	55.6
USG	7443nRR	RR	9/26	1.0	39	2	1.0	3465	55.6
S.States	RT4151N	RR	9/22	1.0	39	2	2.3	2941	55.6
USG	7455nRR	RR	9/26	2.4	46	3	1.3	4109	55.5
S.States	RT4451N	RR	9/26	1.9	46	2	1.0	4168	55.2
D&PL	DP4690RR	RR	9/26	1.1	45	0	2.5	3645	55.1
D&PL	DPX1908RR	RR	9/26	1.0	40	0	2.0	3774	54.3
Delta King	DK4461RR	RR	9/26	1.0	41	1	1.0	3709	53.3
S.States	RT4502N	RR	9/26	1.1	47	1	1.3	3696	53.1
S.States	RT4551N	RR	9/26	2.1	44	1	4.8	3586	48.8
S.States	RT4651N	RR	9/26	1.0	40	1	1.5	4038	48.6
Grand Average			9/26	1.3	41	1	1.7	3449	57.5
R-Squared			0.44	0.76	0.80	0.43	0.86	0.57	0.49
CV			0.0	21.6	4.5	96.1	23.4	14.6	8.5
LSD (0.10)			1.7	0.3	2.2	1.6	0.5	592.0	5.7

TABLE 4f 2005 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
USG	7443nRR	RR	9/22	1.1	28	2	1.9	3666	47.6
USG	7434nRR	RR	9/20	1.1	25	2	2.3	2733	46.5
USG	7423nRS	RR	9/20	1.1	25	2	2.1	2776	45.3
USG	7415nRR	RR	9/21	1.3	29	2	1.7	3081	45.0
S.States	RT4451N	RR	9/20	1.1	30	2	1.8	4130	44.2
S.States	RT4502N	RR	9/22	1.3	35	1	1.3	3766	43.5
T.A.Seeds	TS4659R	RR	9/23	1.5	41	1	1.3	4065	42.9
S.States	RT4551N	RR	10/3	1.7	33	2	2.3	3785	42.9
Vigoro	EX340078	RR	9/22	1.1	28	2	1.7	3109	42.3
S.States	RT4651N	RR	9/23	1.1	32	2	1.5	3911	42.3
Asgrow	AG4404	RR,STS	9/21	1.1	30	2	2.1	3313	41.8
USG	7440nRR	RR	9/22	1.1	28	2	1.9	3747	41.1
Vigoro	V442NRR	RR	9/20	1.1	30	2	2.2	3698	41.0
Pioneer	94M50	RR	9/21	1.1	25	2	2.1	3247	40.9
USG	7455nRR	RR	9/18	1.3	31	2	1.8	4216	40.4
NK	S43-B1	RR	9/17	1.2	28	2	1.8	3407	40.3
Vigoro	V44N6RR	RR	9/18	1.3	31	2	2.1	3974	40.1
Pioneer	94M30	RR	9/21	1.1	27	2	2.1	3291	40.1
Progeny	4401	RR	9/22	1.1	29	2	1.9	3832	39.9
Delta King	DK4461RR	RR	9/19	1.1	29	2	1.9	3840	39.1
T.A.Seeds	TS4599R	RR	9/21	1.0	26	2	2.0	2869	38.9
S.States	RT4151N	RR	9/22	1.1	29	2	1.9	3103	38.3
T.A.Seeds	TS4399R	RR	9/21	1.1	28	2	2.2	3676	38.3
Asgrow	AG4503	RR	9/21	1.0	29	2	1.8	2798	38.3
Delta King	DK4366	RR	9/19	1.2	30	2	1.8	3803	37.4
D&PL	DPX1908RR	RR	9/19	1.1	27	2	1.6	3804	37.3
NK	S40-R9	RR	9/16	1.3	29	2	1.7	3350	36.0
D&PL	DP4690RR	RR	9/24	1.1	29	2	1.9	3574	34.8
S.States	RT4230N	RR	9/20	1.0	26	2	2.1	3307	34.4
Maryland	Md96-5722		9/20	1.3	28	3	2.9	2776	32.5
D&PL	DP4331RR	RR	9/19	1.1	25	2	2.3	3646	32.4
S.States	RT4440	RR	9/20	1.0	25	2	1.9	3712	32.2
DynaGro	3437	RR,STS	9/20	1.0	23	3	2.5	2951	32.1
Grand Average			9/21	1.1	29	2	2.0	3484	39.7
R-Squared			0.79	0.69	0.83	0.58	0.68	0.93	0.76
CV			0.0	13.1	9.5	17.7	15.7	4.4	16.5
LSD (0.10)			2.4	0.2	3.7	0.5	0.4	209.0	8.9

TABLE 5a 2005 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
DynaGro	3443	RR	----	1.0	26	2	2.0	4702	29.0
D&PL	DP4546RR	RR	----	1.2	27	4	3.0	4059	28.8
Maryland	Md96-5722		----	1.0	24	3	4.0	3360	28.5
D&PL	DPX1908RR	RR	----	1.0	23	1	3.0	4451	28.4
D&PL	DP4331RR	RR	----	1.0	23	2	2.3	4834	27.8
Vigoro	V442NRR	RR	----	1.0	25	1	2.0	4955	27.5
Vigoro	V44N6RR	RR	----	1.2	25	1	2.0	5343	26.0
D&PL	DP4690RR	RR	----	1.0	27	4	2.7	4635	24.3
Grand Average			----	1.0	25	2	2.6	4542	27.5
R-Squared			----	0.45	0.84	0.42	0.91	0.93	0.38
CV			----	12.8	4.3	89.6	10.6	4.5	9.2
LSD (0.10)			----	0.2	1.5	2.6	0.4	294.0	3.7

*Maturity readings were not taken on a regular basis

TABLE 5b 2005 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
S.States	RT4151N	RR	----	1.0	18	8	3.0	2645	31.0
Asgrow	AG4503	RR	----	1.0	25	3	2.3	2994	28.7
S.States	RT4440N	RR	----	1.0	25	2	2.0	3799	27.4
Pioneer	94M50	RR	----	1.0	24	10	2.7	2973	27.1
DynaGro	3443	RR	----	1.2	26	4	2.3	3848	27.0
Garst	4512RR/N	RR	----	1.0	25	8	2.7	3733	26.3
D&PL	DP4690RR	RR	----	1.2	29	4	2.3	3447	26.1
D&PL	DP4546RR	RR	----	1.3	29	2	2.7	3077	25.4
D&PL	DP4331RR	RR	----	1.0	25	5	2.7	3723	25.2
S.States	RT4651N	RR	----	1.0	27	0	1.0	3306	25.1
S.States	RT4502N	RR	----	1.0	27	2	2.0	3241	24.3
S.States	RT4451N	RR	----	1.0	24	11	2.7	3870	23.9
Garst	4612RR/N	RR	----	1.0	22	5	3.0	3243	23.5
D&PL	DPX1908RR	RR	----	1.3	26	5	3.3	3524	23.2
S.States	RT4551N	RR	----	1.5	32	1	3.0	3449	22.1
S.States	RT4230N	RR	----	1.0	24	11	3.0	3110	20.9
Grand Average			----	1.1	25	5	2.5	3374	25.5
R-Squared			----	0.51	0.45	0.63	0.71	0.90	0.41
CV			----	17.8	17.6	66.1	17.3	4.5	19.7
LSD (0.10)			----	0.3	6.2	4.6	0.6	211.0	7.0

*Maturity readings were not taken on a regular basis

TABLE 5c 2005 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
Maryland	Md96-5722		----	1.4	23	13	3.8	2674	30.5
D&PL	DP4331RR	RR	----	1.1	22	4	2.8	3640	30.5
DeltaKing	DK4461RR	RR	----	1.3	23	4	2.5	3766	30.2
Garst	4512RR/N	RR	----	1.4	22	4	2.0	3778	30.1
Vigoro	EX340078	RR	----	1.5	22	6	2.3	2817	29.8
D&PL	DP4690RR	RR	----	1.5	24	2	2.0	3462	29.4
S.States	RT4502N	RR	----	1.0	24	8	2.3	3089	29.3
Vigoro	V44N6RR	RR	----	1.3	22	7	2.3	3847	29.0
D&PL	DP4546RR	RR	----	1.3	20	6	2.8	3220	28.9
USG	444nSTS	STS	----	1.5	23	7	3.0	3199	28.8
Garst	4612RR/N	RR	----	1.4	22	8	2.5	3095	28.3
Vigoro	V442NRR	RR	----	1.4	21	4	2.3	3671	28.2
D&PL	DPX1908RR	RR	----	1.3	22	4	3.0	3299	25.8
S.States	RT4230N	RR	----	1.5	21	9	2.5	3079	25.2
Grand Average			----	1.3	22	6	2.5	3339	28.9
R-Squared			----	0.52	0.56	0.82	0.53	0.92	0.49
CV			----	14.3	7.0	33.1	20.9	3.7	11.2
LSD (0.10)			----	0.2	1.8	2.4	0.6	146.0	3.9

*Maturity readings were not taken on a regular basis

TABLE 5d 2005 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
S.States	RT4651N	RR	10/22	1.9	34	10	3.0	3333	46.5
S.States	RT4551N	RR	11/3	2.1	34	2	2.0	3359	46.2
Vigoro	V44N6RR	RR	10/27	2.1	34	17	3.3	3618	46.1
S.States	RT4151N	RR	10/25	1.9	33	12	3.0	2750	45.4
D&PL	DP4546RR	RR	10/23	2.3	34	2	3.0	3185	44.9
S.States	RT4451N	RR	10/27	2.0	33	14	3.0	3619	44.8
Garst	4512RR/N	RR	10/21	1.9	32	8	2.5	3309	44.6
Vigoro	EX340078	RR	10/25	1.7	30	7	2.7	2775	44.3
DynaGro	3443	RR	10/22	2.0	31	7	2.0	3561	44.2
S.States	RT4230N	RR	10/21	2.1	31	6	3.8	3060	44.2
D&PL	DP4690RR	RR	10/25	2.4	33	17	2.8	3165	44.0
Maryland	Md96-5722		10/27	2.1	32	12	4.3	2681	43.8
Garst	4612RR/N	RR	10/27	2.3	30	5	3.8	3143	43.1
Vigoro	V442NRR	RR	10/25	1.9	30	2	2.3	3521	42.6
D&PL	DP4331RR	RR	10/21	1.9	31	3	2.3	3521	42.1
S.States	RT4440N	RR	10/24	1.8	31	3	2.3	3565	41.5
DeltaKing	DK4461RR	RR	10/21	2.0	31	9	2.5	3520	41.4
S.States	RT4502N	RR	10/23	2.0	34	6	3.3	3142	39.5
Pioneer	94M50	RR	11/1	2.1	25	5	3.0	3173	38.2
USG	444nSTS	STS	10/25	2.5	33	3	3.5	3191	36.0
D&PL	DPX1908RR	RR	10/21	1.8	27	1	2.5	3808	33.2
Grand Average			10/25	2.0	31	7	2.9	3287	42.7
R-Squared				0.44	0.45	0.63	0.70	0.55	0.74
CV				0.0	13.7	7.4	72.3	20.9	5.8
LSD (0.10)				5.5	0.3	2.8	6.0	0.7	227.0

TABLE 5e 2005 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
S.States	RT4551N	RR	10/29	1.1	25	4	2.0	3985	40.8
S.States	RT4451N	RR	10/18	1.2	23	15	2.8	4142	39.8
USG	444nSTS	STS	10/18	1.3	24	14	3.3	3512	39.0
S.States	RT4651N	RR	10/24	1.0	22	1	1.4	3983	36.9
S.States	RT4151N	RR	10/19	1.1	21	7	2.5	3163	36.7
S.States	RT4502N	RR	10/19	1.0	22	6	2.2	3692	36.3
Vigoro	V44N6RR	RR	10/18	1.1	25	14	2.8	4256	35.7
Vigoro	V442NRR	RR	10/17	1.0	20	19	2.8	4033	34.4
Garst	4512RR/N	RR	10/18	1.1	22	13	2.8	4130	33.7
Pioneer	94M50	RR	10/19	1.1	20	22	3.2	3635	33.1
DeltaKing	DK4461RR	RR	10/18	1.1	21	17	2.9	3809	32.9
Vigoro	EX340078	RR	10/18	1.1	20	13	2.9	3306	31.4
D&PL	DP4690RR	RR	10/21	1.2	21	3	1.8	3691	30.7
S.States	RT4440N	RR	10/18	1.1	19	19	2.9	4129	30.5
Garst	4612RR/N	RR	10/19	1.0	20	5	2.1	3548	30.2
D&PL	DP4546RR	RR	10/19	1.3	19	9	2.7	3615	29.9
Maryland	Md96-5722		10/15	1.1	20	38	3.7	3125	29.8
S.States	RT4230N	RR	10/19	1.1	20	21	3.4	3459	29.3
D&PL	DP4331RR	RR	10/15	1.0	18	17	2.8	4207	28.4
D&PL	DPX1908RR	RR	10/18	1.2	19	17	3.2	4217	27.2
Grand Average			10/1	1.1	21	14	2.7	3782	33.3
R-Squared			0.35	0.59	0.69	0.79	0.93	0.96	0.67
CV			0.4	8.8	8.2	40.3	7.2	2.3	10.7
LSD (0.10)			193.0	0.1	2.4	7.5	0.3	118.0	4.9

TABLE 6a 2005 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
DeltaKing	DK4866	RR	9/23	1.0	27	4	1.7	3560	42.2
Vigoro	49N6RR	RR	9/26	1.0	30	2	1.3	3520	41.6
Clarks	CL48RR	RR	9/22	1.0	23	1	3.0	3244	41.2
Delta King	DK4868RR	RR	9/24	1.0	27	0	4.0	3780	41.0
D&PL	DP4724RR	RR	9/21	1.0	25	1	3.0	3339	40.2
Vigoro	V48N5RR	RR	9/25	1.0	26	1	3.0	3205	39.7
DeltaKing	DKXTJ6P51	RR	9/25	1.0	29	1	1.7	3520	39.4
Progeny	4949	RR	9/25	1.0	27	2	1.0	3148	37.7
Public	Manokin		9/26	1.0	21	0	2.7	3986	37.6
NK	S49-Q9	RR	9/24	1.3	29	0	1.0	4746	34.3
D&PL	DP4690RR	RR	9/23	1.3	28	2	2.0	3930	33.9
Grand Average			9/24	1.1	26	1	2.2	3634	39.0
R-Squared			0.71	0.42	0.83	0.58	0.94	0.96	0.46
CV			0.0	22.0	5.7	86.3	13.9	3.3	9.9
LSD (0.10)			1.9	0.3	2.1	1.5	0.4	168.0	5.4

TABLE 6b 2005 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
Pioneer	94M80	RR	9/24	1.0	27	1	2.0	3634	44.0
Progeny	4949	RR	10/5	1.0	26	2	1.0	3034	41.5
Public	Manokin		10/4	1.0	24	1	1.3	3992	41.1
S.States	RT4808N	RR	9/24	1.0	28	1	2.0	3880	41.0
Asgrow	AG4903	RR,STS	10/3	1.0	27	0	1.3	3712	39.3
Asgrow	AG4801	RR	10/3	1.0	26	3	2.0	3586	39.1
Pioneer	94B73	RR	9/23	1.0	26	1	2.0	3903	37.3
D&PL	DP4724RR	RR	9/23	1.0	24	0	2.3	3495	35.4
S.States	RT4981N	RR	10/4	1.0	31	1	1.0	3966	35.1
Asgrow	AG4703	RR	9/22	1.0	23	1	1.7	3809	34.6
D&PL	DP4690RR	RR	9/22	1.0	28	1	2.3	4246	34.3
	Grand Average		9/27	1.0	26	1	1.7	3745	38.4
	R-Squared		0.98	0.00	0.46	0.54	0.68	0.89	0.56
	CV		0.0	0.0	11.9	76.9	23.6	3.6	12.7
	LSD (0.10)		1.6	0.0	4.4	1.2	0.6	190.0	6.9

*Maturity readings were not taken on a regular basis

TABLE 6c 2005 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
Vigoro	V49N6RR	RR	---	1.6	40	2	3.3	2889	69.0
USG	7484nRR	RR	---	1.5	33	2	2.0	3179	66.8
NK	S49-Q9	RR	---	1.5	36	1	2.5	3598	65.9
S.States	RT4808N	RR	---	1.0	32	1	2.3	2882	65.0
USG	7494nRR	RR	---	1.4	34	1	2.5	2931	64.3
Vigoro	EX34oo79	RR	---	1.4	41	1	3.0	3131	63.1
Asgrow	AG4903	RR	---	1.4	35	1	2.5	2954	62.8
Delta King	DK4868RR	RR	---	1.0	35	2	2.3	3081	61.8
Asgrow	AG4703	RR	---	1.0	31	0	3.3	2979	61.6
USG	7489RR	RR	---	1.3	35	3	2.5	2959	60.9
Vigoro	V48N5RR	RR	---	1.1	34	1	3.0	2559	59.2
D&PL	DP4690RR	RR	---	1.1	33	3	2.5	3012	57.1
S.States	RT4981N	RR	---	1.4	41	1	3.0	3102	57.0
Progeny	4949	RR	---	1.0	36	3	3.0	2636	56.9
USG	7499nRR	RR	---	1.4	36	1	3.0	2921	55.3
Asgrow	AG4801	RR	---	1.0	30	3	3.3	2764	54.9
Clarks	CL48RR	RR	---	1.4	30	2	3.0	2823	53.9
USG	7482nRR	RR	---	1.6	33	1	2.8	2962	52.8
D&PL	DP4724RR	RR	---	1.5	31	1	2.8	2882	51.7
Public	Manokin		---	2.8	33	2	2.5	3297	46.6
	Grand Average		---	1.4	34	1	2.7	2977	59.3
	R-Squared		---	0.74	0.87	0.38	0.5	0.83	0.58
	CV		---	19.8	4.5	91.1	16.0	4.0	9.7
	LSD (0.10)		---	0.3	1.8	1.5	0.5	139.0	6.8

*Maturity readings were not taken on a regular basis

TABLE 6d 2005 Performance of Full Season Late Maturity Group IV Entries Shenandoah Valley, VA

Brand	Variety	Herb. Resist.	Maturity Date	Lodging 1-5	Height in.	PSS %	SQ 1-5	SS Seed/lb	Yield Bu/A
Pioneer	94M80	RR	----	1.0	24	3	2.7	2994	34.7
Progeny	4949	RR	----	1.0	24	4	2.3	2776	34.4
S.States	RT4808N	RR	----	1.0	22	4	2.3	3078	33.9
DP&L	DP4724RR	RR	----	1.0	21	2	3.0	2987	33.7
Pioneer	94B73	RR	----	1.0	21	2	3.0	3111	33.6
S.States	RT4981	RR	----	1.0	27	3	1.3	3271	33.5
Grand Average			----	1.0	23	3	2.4	3036	34.0
R-Squared			----	0.0	0.83	0.42	0.85	0.72	0.39
CV			----	0.0	5.4	48.6	14.3	4.6	10.3
LSD (0.10)			----	0.0	1.9	2.0	0.5	207.0	5.2

*Maturity readings were not taken on a regular basis

TABLE 6e 2005 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
Pioneer	94B73	RR	9/29	1.8	43	3	4.0	3585	56.6
D&PL	DP4690RR	RR	10/2	1.5	42	2	3.5	3813	56.2
USG	7489nRR	RR	10/9	2.0	44	2	3.3	3641	55.4
Asgrow	AG4801	RR	10/9	1.4	39	1	4.0	3563	55.0
Vigoro	V49N6RR	RR	10/20	1.9	46	3	3.5	3625	53.1
Vigoro	V48N5RR	RR	10/7	1.5	42	1	4.0	3252	52.2
Delta King	DK4868RR	RR	9/29	1.3	43	1	4.3	4212	51.6
S.States	RT4808N	RR	10/3	1.5	43	2	4.0	3769	51.5
USG	7482nRR	RR	10/14	3.0	39	2	3.3	3480	50.9
D&PL	DP4724RR	RR	9/29	2.4	43	0	4.0	3523	50.4
USG	7494nRR	RR	9/30	2.1	43	0	4.0	3789	50.3
Asgrow	AG4903	RR	10/4	1.8	43	0	3.8	3860	49.8
DeltaKing	DKXTJ6P51	RR	10/11	2.4	45	4	4.0	3709	49.5
Pioneer	94M80	RR	9/29	2.0	42	1	4.5	3374	48.4
NK	S49-Q9	RR	10/2	1.5	45	2	3.8	4633	48.0
Progeny	4949	RR	10/6	1.8	47	1	4.0	3341	47.2
Vigoro	EX340079	RR	10/11	1.9	48	1	3.5	4195	45.9
USG	7484nRR	RR	9/30	2.6	42	0	4.3	4067	45.6
S.States	RT4981N	RR	10/8	1.6	49	1	3.5	4238	45.5
DeltaKing	DK4866RR	RR	9/29	1.4	44	1	4.5	4149	45.0
USG	7499nRR	RR	10/6	2.1	46	0	3.3	3659	42.9
Public	Manokin		9/30	1.9	39	0	4.0	4368	42.0
Grand Average			10/5	1.9	43	1	3.9	3809	49.7
R-Squared			0.56	0.60	0.70	0.63	0.45	0.76	0.52
CV			0.0	23.0	4.9	80.1	12.6	6.5	11.5
LSD (0.10)			7.2	0.5	2.5	1.1	0.6	292.0	6.8

TABLE 6f 2005 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
DeltaKing	DK4866RR	RR	9/24	1.1	30	2	2.4	3494	38.2
Progeny	4949	RR	9/27	1.2	31	5	2.6	2914	35.9
Asgrow	AG4903	RR,STS	9/26	1.2	30	4	2.3	3558	34.1
Delta King	DK4868RR	RR	9/23	1.2	27	4	3.6	3744	33.2
USG	7489nRR	RR	9/23	1.1	31	3	3.0	3533	32.9
Asgrow	AG4703	RR	9/22	1.0	23	4	3.4	3702	30.7
S.States	RT4808N	RR	9/23	1.1	25	3	2.8	3331	30.6
DeltaKing	DKXTJ6P51	RR	9/25	1.1	29	4	3.0	3523	30.4
S.States	RT4981N	RR	9/28	1.1	32	3	2.3	3681	30.2
Asgrow	AG4801	RR	9/23	1.0	27	3	3.7	3148	29.6
Public	Manokin		9/26	1.7	31	2	2.1	4438	29.3
USG	7484nRR	RR	9/22	1.1	26	2	4.2	3648	29.2
Vigoro	Ex340079	RR	9/28	1.1	30	4	2.5	3799	28.8
D&PL	DP4724RR	RR	9/22	1.0	26	5	3.2	3083	28.6
D&PL	DP4690RR	RR	9/23	1.0	30	5	3.3	3539	28.5
Clarks	CL48RR	RR	9/21	1.0	25	6	3.3	3110	28.1
USG	7494nRR	RR	9/23	1.1	26	4	4.0	3529	28.0
USG	7499nRR	RR	9/24	1.0	28	4	3.1	3675	26.6
Pioneer	94B73	RR	9/21	1.1	24	7	3.7	3423	26.5
NK	S49-Q9	RR	9/23	1.1	27	6	3.0	4258	26.2
Vigoro	V48N5RR	RR	9/23	1.0	26	3	3.3	3052	26.2
USG	7482nRR	RR	9/22	1.0	24	7	3.3	3054	26.1
Pioneer	94M80	RR	9/22	1.0	30	6	2.7	3325	26.0
Grand Average			9/23	1.1	28	4	3.1	3503	29.7
R-Squared			0.90	0.77	0.81	0.44	0.80	0.93	0.65
CV			0.0	8.8	7.0	54.2	11.9	3.7	11.8
LSD (0.10)			1.9	0.1	2.7	3.1	0.5	177.0	4.8

TABLE 7a 2005 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
Progeny	4949	RR	----	1.0	25	8	3.0	3466	27.6
Vigoro	V49N6RR	RR	----	1.0	27	4	2.0	4027	27.1
DeltaKing	DK4868RR	RR	----	1.0	23	2	2.3	4703	24.2
Vigoro	V48N5RR	RR	----	1.0	25	6	3.0	3732	24.1
Clarks	CL482NRR	RR	----	1.0	24	2	2.0	4289	23.2
Public	Manokin		----	1.3	24	3	4.0	4911	22.9
Grand Average			----	1.1	25	4	2.8	4182	24.9
R-Squared			----	0.69	0.54	0.67	0.94	0.92	0.69
CV			----	11.2	5.5	65.5	8.7	4.8	7.7
LSD (0.10)			----	0.2	2.0	3.9	0.4	297.0	2.8

*Maturity readings were not taken on a regular basis

TABLE 7b 2005 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
Pioneer	94M80	RR	----	1.0	29	4	3.0	3252	29.1
S.States	RT4808N	RR	----	1.0	23	2	2.3	3400	28.0
Asgrow	AG4801	RR	----	1.0	25	2	2.3	3319	27.3
Asgrow	4903	RR/STS	----	1.0	26	1	1.0	3252	26.6
Progeny	4949	RR	----	1.0	27	2	1.7	2743	25.3
DynaGro	38T47	RR	----	1.0	27	2	1.7	3664	22.6
Pioneer	94B73	RR	----	1.0	26	5	2.7	3636	22.5
S.States	RT4981N	RR	----	1.0	30	1	2.7	3514	22.5
Grand Average		----	1.0	27	2	2.2	3347	25.5	
R-Squared		----	0.00	0.64	0.63	0.74	0.82	0.41	
CV		----	0.0	9.9	54.5	22.8	5.0	16.2	
LSD (0.10)		----	0.0	3.8	1.9	0.7	242.0	5.9	

*Maturity readings were not taken on a regular basis

TABLE 7c 2005 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
USG	7495nRS	RR/STS	----	1.4	26	6	2.0	3642	38.1
Asgrow	AG4903	RR/STS	----	1.1	26	3	2.0	3585	38.0
S.States	RT4981N	RR	----	1.3	29	7	2.5	3278	36.0
Vigoro	EX340079	RR	----	1.3	30	3	2.3	3165	34.5
Vigoro	V49N6RR	RR	----	1.3	27	7	2.0	3148	34.1
USG	7489nRR	RR	----	1.5	24	8	2.0	3558	33.0
Asgrow	AG4801	RR	----	1.1	24	8	2.8	3064	32.6
Progeny	4949	RR	----	1.4	25	4	2.0	2918	32.4
Clarks	CL482NRR	RR	----	1.3	24	8	2.3	3193	31.9
DynaGro	38T47	RR	----	1.3	24	9	3.3	3385	31.9
DeltaKing	DK4868RR	RR	----	1.3	23	6	2.3	3539	30.7
USG	7484nRR	RR	----	1.5	24	7	2.3	3687	28.4
Vigoro	V48N5RR	RR	----	1.3	24	9	3.3	3135	28.3
Public	Manokin	----	----	2.6	22	4	1.8	4197	24.6
Grand Average		----	1.4	25	6	2.3	3392	32.5	
R-Squared		----	0.66	0.58	0.41	0.68	0.82	0.61	
CV		----	24.2	9.2	53.2	16.6	5.2	11.9	
LSD (0.10)		----	0.4	2.7	3.9	0.5	212.0	4.6	

*Maturity readings were not taken on a regular basis

TABLE 7d 2005 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	RT4981N	RR	11/3	2.0	38	2	1.0	2803	52.5
USG	7495nRS	RR/STS	10/29	2.3	34	3	2.0	3071	48.4
S.States	RT4808N	RR	10/25	2.0	30	14	3.0	3110	48.4
Asgrow	AG4903	RR/STS	10/29	1.9	34	5	1.8	3037	47.4
Vigoro	V49N6RR	RR	11/3	2.3	33	8	1.5	3084	46.7
Vigoro	EX340079	RR	11/3	2.1	36	1	1.0	2939	45.9
Progeny	4949	RR	10/27	1.9	33	16	2.3	2490	43.4
Asgrow	AG4801	RR	10/22	1.9	32	7	3.0	3216	42.2
Public	Manokin		10/26	2.5	31	7	3.8	3726	41.6
USG	7489nRR	RR	10/24	2.5	34	12	2.8	3172	40.4
USG	7484nRR	RR	10/29	2.4	29	14	3.0	3226	39.2
Pioneer	94M80	RR	10/26	2.3	30	7	3.3	3110	38.3
Pioneer	94B73	RR	10/22	2.1	33	6	3.3	3337	37.4
DeltaKing	DK4868RR	RR	10/31	2.0	27	12	3.3	3235	37.0
Vigoro	V48N5RR	RR	10/30	1.9	29	13	3.5	2906	35.4
Grand Average			10/28	2.1	32	8	2.5	3097	43.0
R-Squared			0.64	0.56	0.65	0.65	0.86	0.90	0.74
CV			0.0	12.1	7.7	73.2	16.5	3.4	9.0
LSD (0.10)			4.4	0.3	2.9	7.1	0.5	124.0	4.6

TABLE 7e 2005 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
USG	7495nRS	RR/STS	10/27	1.2	22	2	1.6	3713	44.3
Vigoro	V49N6RR	RR	10/26	1.3	24	4	2.3	3522	42.9
Asgrow	AG4903	RR/STS	10/27	1.1	22	1	1.4	3427	42.0
Public	Manokin		10/26	2.1	22	4	1.8	3963	40.5
Asgrow	AG4801	RR	10/22	1.0	20	2	2.0	3441	40.4
Pioneer	94M80	RR	10/19	1.2	23	17	2.8	3415	40.0
S.States	RT4981N	RR	10/30	1.1	25	2	1.5	3609	39.0
Vigoro	EX340079		10/30	1.1	22	1	1.6	3578	38.5
S.States	RT4808N	RR	10/21	1.1	20	6	1.9	3604	37.8
Progeny	4949	RR	10/25	1.1	20	3	1.8	2989	37.0
Pioneer	94B73	RR	10/18	1.0	22	27	3.4	3511	35.5
USG	7484nRR	RR	10/24	1.4	21	2	1.6	3615	34.5
Clarks	CL482NRR	RR	10/19	1.0	20	10	2.8	3441	33.7
DeltaKing	DK4868RR	RR	10/20	1.3	20	12	2.9	3685	33.3
Vigoro	V48N5RR	RR	10/21	1.0	19	5	2.0	3260	32.5
USG	7489nRR	RR	10/22	1.5	21	8	2.2	3630	29.6
DynaGro	38T47	RR	10/20	1.1	19	10	2.8	3708	26.6
Grand Average			10/23	1.2	21	7	2.1	3536	36.9
R-Squared			0.85	0.91	0.52	0.86	0.94	0.80	0.57
CV			0.0	8.8	9.3	50.5	8.8	3.6	15.3
LSD (0.10)			2.7	0.2	2.7	4.7	0.3	178.0	7.8

TABLE 8a 2005 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
DeltaKing	DK5066	RR	---	1.8	28	0	3.0	3760	39.6
S.States	RT5130N	RR	---	1.7	26	3	4.0	3243	39.5
Progeny	5822	RR	---	1.0	28	5	2.0	3636	39.1
Virginia	V98-9005		---	1.0	23	0	3.0	3285	38.8
Public	Teejay		---	1.0	21	3	3.3	3076	38.1
DeltaKing	DK5567	RR	---	1.2	25	1	2.3	3824	37.6
Tennessee	TN05-548RR	RR	---	1.3	29	2	1.7	4107	36.7
Vigoro	V53N5RS	RR/STS	---	1.0	24	1	2.3	3280	35.8
S.States	RT5450N	RR	---	1.2	22	3	2.3	3399	35.7
S.States	RT5401N	RR	---	1.3	26	1	2.0	3886	35.6
Public	Hutcheson		---	1.2	22	2	3.7	3803	35.4
Virginia	V98-2711		---	1.5	22	1	2.3	4191	35.3
Vigoro	V51N6RR	RR	---	1.0	21	2	1.7	3934	35.0
D&PL	DP5634RR	RR	---	1.3	31	1	3.7	3837	33.2
S.States	RT5540N	RR	---	1.3	30	1	2.7	4042	32.9
Tennessee	TN05-547RR	RR	---	1.0	27	2	1.7	4067	32.8
Pioneer	95M50	RR/STS	---	1.2	22	1	2.7	3494	32.5
Vigoro	V55N5RR	RR	---	1.2	28	1	2.0	4169	32.4
D&PL	DP5808RR	RR	---	1.7	28	1	2.7	4362	31.6
Pioneer	95M81	RR	---	1.0	23	2	2.0	4211	31.0
DeltaKing	DKXTJ652	RR	---	1.0	32	6	2.7	3850	30.7
Progeny	5660	RR	---	1.3	29	6	2.3	4244	30.6
D&PL	DP5414RR	RR	---	1.8	29	0	3.0	3819	30.6
USG	5601T		---	1.3	25	2	1.5	3931	30.2
S.States	RT5302N	RR	---	1.0	28	3	3.0	3805	29.8
Clark	CL54RR	RR	---	1.2	26	1	3.3	4352	28.3
D&PL	DP5915RR	RR	---	1.0	23	6	2.0	3647	27.8
Grand Average			---	1.2	26	2	2.6	3823	33.9
R-Squared			---	0.69	0.86	0.65	0.79	0.82	0.68
CV			---	18.1	6.6	79.6	16.8	5.3	9.0
LSD (0.10)			---	0.3	2.3	2.3	0.6	279.0	4.2

*Maturity readings were not taken on a regular basis

TABLE 8b 2005 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
Tennessee	TN05-547RR	RR	10/15	1.0	29	6	2.0	3676	53.3
Virginia	V98-9005		10/9	1.0	25	2	3.0	2769	52.2
Virginia	V98-2711		10/8	1.3	28	2	3.0	3692	50.1
USG	5601T	RR	10/8	1.3	34	4	2.5	3302	49.9
S.states	RT5450N	RR	10/8	1.3	29	4	3.0	2867	48.2
D&PL	DP5414RR	RR	10/7	1.2	31	0	2.5	3197	47.2
Asgrow	AG5605	RR/STS	10/10	1.3	32	5	2.0	3831	47.2
D&PL	DP5915RR	RR	10/14	1.3	31	7	2.0	3037	46.6
Progeny	5822	RR	10/15	1.0	33	11	2.5	3110	46.3
Progeny	5660	RR	10/15	1.2	32	6	2.0	3428	45.9
S.states	RT5401N	RR	10/10	1.0	28	6	2.5	3176	45.7
S.states	RT5540N	RR	10/10	1.0	32	2	3.0	3363	45.6
Public	Teejay		10/6	1.0	23	4	3.0	2752	45.3
S.states	RT5130N	RR	10/5	1.0	23	2	3.0	2939	44.7
Tennessee	TN05-548RR	RR	10/14	1.0	26	2	2.0	3533	44.1
Asgrow	AG5301	RR	10/11	1.3	29	4	2.5	3562	42.7
Public	Hutcheson		10/9	1.0	23	2	3.0	2993	42.3
D&PL	DP5808RR	RR	10/12	1.3	33	5	2.5	3604	42.0
D&PL	DP5634RR	RR	10/12	1.0	30	3	3.0	3089	39.5
S.states	RT5302N	RR	10/6	1.0	24	2	3.0	3278	37.2
Grand Average			10/10	1.1	29	4	2.6	3260	45.8
R-Squared			0.79	0.49	0.65	0.68	0.78	0.98	0.47
CV			0.0	15.4	11.8	54.9	10.4	1.7	11.5
LSD (0.10)			2.7	0.2	4.7	2.9	0.4	78.6	7.2

TABLE 8c 2005 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	7553nRS	RR/STS	---	1.3	37	1	2.0	3809	60.5
Asgrow	AG5605	RR,STS	---	1.3	34	1	2.0	3783	60.0
Virginia	V98-2711		---	1.1	31	1	2.8	2821	60.0
Public	Teejay		---	1.0	33	0	2.8	2336	59.9
Virginia	V98-9005		---	1.1	33	0	2.0	2353	58.6
Progeny	5822	RR	---	1.5	38	2	3.3	3042	58.0
USG	5601T		---	1.4	35	1	2.5	2852	57.2
S.states	RT5450N	RR	---	1.0	36	2	2.7	2369	57.1
USG	5002T		---	1.4	32	0	2.0	2509	56.6
Vigoro	V53N5RS	RR/STS	---	1.1	33	1	3.0	2388	56.6
Asgrow	AG5301	RR	---	1.0	34	0	2.3	3115	56.3
Progeny	5660	RR	---	1.6	38	1	3.3	3281	55.7
NK	S52-U3	RR	---	2.0	36	1	3.5	3322	55.3
D&PL	DP5915RR	RR	---	1.5	33	2	2.3	3217	55.1
Clarks	CL54RR	RR	---	1.4	33	0	3.5	3053	54.0
S.states	RT5540N	RR	---	1.6	41	1	2.8	3143	53.0
Public	Hutcheson		---	1.2	32	0	3.0	2570	52.8
Tennessee	TN05-547RR	RR	---	1.4	38	1	2.5	3200	52.5
D&PL	DP5414RR	RR	---	2.0	39	0	2.3	2792	52.2
S.states	RT5401N	RR	---	1.0	31	0	2.0	2806	52.0
USG	7582nRR	RR	---	1.1	38	2	3.3	2941	51.7
Vigoro	V51N6RR	RR	---	1.0	31	3	2.8	2933	50.5
S.states	RT5302N	RR	---	1.0	37	0	2.3	2946	50.3
S.states	RT5130N	RR	---	1.8	37	0	3.0	2341	50.3
D&PL	DP5634RR	RR	---	2.3	37	1	3.0	2934	49.5
Vigoro	V55N5RR	RR	---	1.8	37	0	3.0	3075	49.4
D&PL	DP5808RR	RR	---	2.5	36	1	3.0	3279	48.6
Tennessee	TN05-548RR	RR	---	1.6	36	2	3.3	3223	48.4
Grand Average		---	1.4	35	1	2.7	2958	54.4	
R-Squared		---	0.71	0.63	0.54	0.60	0.94	0.47	
CV		---	22.5	6.8	126.0	17.3	0.4	8.7	
LSD (0.10)		---	0.4	2.8	1.2	0.6	132.0	5.5	

*Maturity readings were not taken on a regular basis

TABLE 8d 2005 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
Progeny	5660	RR	10/26	1.9	41	7	4.0	4011	51.3
USG	5002T		10/20	2.3	32	0	4.0	3649	47.7
S.states	RT5450N	RR	10/20	2.0	37	2	3.0	3084	47.6
USG	7553nRS	RR	10/14	2.0	40	2	3.3	4567	47.2
Public	Teejay		10/14	2.0	38	2	4.8	3443	46.8
S.states	RT5130N	RR	10/20	2.3	40	2	4.3	3172	46.6
DeltaKing	DK5066	RR	10/14	2.4	39	2	3.8	3845	46.6
Vigoro	V53N5RS	RR/STS	10/14	2.3	38	1	3.5	3455	46.5
Tennessee	TN05-548RR	RR	10/20	2.4	43	4	3.3	4037	45.9
USG	5601T		10/14	2.9	42	2	4.0	5172	45.5
USG	7582nRR	RR	10/23	1.8	38	4	3.0	3710	45.3
Progeny	5822	RR	10/23	1.4	39	4	3.3	3623	44.7
Tennessee	TN05-547RR	RR	10/14	1.9	37	1	3.0	4123	43.9
Virginia	V98-9005		10/20	2.3	33	0	3.8	3627	43.6
D&PL	DP5915RR	RR	10/20	2.3	38	4	3.5	3542	43.5
Virginia	V98-2711		10/20	3.1	32	1	3.8	4240	42.8
Vigoro	V51N6RR	RR	10/14	1.4	35	1	3.0	3801	42.8
DeltaKing	DKXTJ652	RR	10/20	1.9	45	9	3.8	3497	42.3
D&PL	DP5634RR	RR	10/20	2.4	43	2	3.3	3591	42.1
Pioneer	95M81	RR	10/20	1.4	38	2	3.0	4190	41.6
S.states	RT5302N	RR	10/14	2.3	39	2	3.5	4042	41.6
D&PL	DP5808RR	RR	10/20	2.8	45	2	3.3	4133	41.4
Public	Hutcheson		10/20	2.8	38	0	4.5	3972	41.0
Vigoro	V55N5RR	RR	10/20	2.4	41	3	4.0	4133	40.8
NK	S52-U3	RR	10/20	2.5	38	2	4.3	4236	40.6
Pioneer	95M50	RR/STS	10/20	2.4	39	1	3.8	3703	40.4
S.states	RT5401N	RR	10/20	1.8	39	2	3.8	4208	39.4
Clarks	CL54RR	RR	10/14	2.0	37	1	4.5	4373	39.2
DeltaKing	DK5567	RR	10/23	1.9	37	3	3.8	4078	39.1
S.states	RT5540N	RR	10/20	2.3	46	1	4.0	4156	37.5
D&PL	DP5414RR	RR	10/20	2.5	40	0	2.8	3869	37.3
Grand Average			10/18	2.2	39	2	3.7	3910	43.1
R-Squared			0.31	0.53	0.66	0.52	0.65	0.57	0.44
CV			0.0	20.9	7.6	107.0	12.6	11.8	10.9
LSD (0.10)			7.8	0.5	3.5	2.6	0.5	542.0	5.6

TABLE 8e 2005 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
S.states	RT5450N	RR	9/28	1.5	39	3	2.0	3654	44.9
Public	Teejay		9/30	1.2	32	4	2.6	3551	43.1
Public	Hutcheson		9/29	1.7	33	3	2.3	4062	43.0
USG	5002T		9/25	1.2	31	3	1.9	4127	42.9
Progeny	5822	RR	10/7	1.8	38	17	3.4	4078	42.8
Virginia	V98-2711		9/28	1.8	30	2	2.1	4610	42.0
Asgrow	AG5605	RR/STS	10/4	1.6	39	4	2.4	5367	41.3
Virginia	V98-9005		9/30	1.4	30	0	2.1	3570	41.0
Vigoro	V51N6RR	RR	10/2	1.1	33	7	2.6	4230	41.0
Vigoro	V53N5RS	RR/STS	9/30	1.5	37	5	2.3	3522	40.4
DeltaKing	DKXTJ652	RR	10/4	1.2	39	14	3.1	3763	40.2
Asgrow	AG5301	RR	9/29	1.4	36	2	1.9	4495	39.6
Pioneer	95M50	RR/STS	10/2	1.3	38	3	1.9	3716	39.3
Tennessee	TN05-547RR	RR	10/8	1.5	40	10	2.7	4571	39.2
S.states	RT5130N	RR	9/27	1.5	34	10	3.1	3207	39.0
DeltaKing	DK5066	RR	9/26	1.3	35	4	2.7	3794	38.3
USG	7553nRS	RR/STS	10/3	1.4	36	7	2.2	5325	38.1
Tennessee	TN05-548RR	RR	10/9	1.5	39	8	2.9	4556	38.1
USG	5601T		10/1	1.3	37	3	2.1	4447	37.5
USG	7582nRR	RR	10/8	1.6	38	15	3.3	4072	37.0
D&PL	DP5915RR	RR	10/9	1.4	36	14	3.2	3985	36.9
Progeny	5660	RR	10/9	1.7	38	13	3.3	4338	36.9
S.states	RT5540N	RR	10/4	1.5	40	5	2.7	4208	36.2
Pioneer	95M81	RR	10/4	1.3	35	5	2.3	4774	36.2
Vigoro	V55N5RR	RR	10/4	1.5	38	6	2.8	4168	36.1
D&PL	DP5634RR	RR	10/4	1.3	37	4	2.3	4101	36.0
Clarks	CL54RR	RR	10/2	1.5	32	2	2.3	4803	35.8
DeltaKing	DK5567	RR	10/4	1.3	32	3	2.2	4160	35.4
D&PL	DP5808RR	RR	10/4	1.8	38	5	2.7	4639	34.6
NK	S52-U3	RR	10/3	1.4	33	2	2.4	4655	34.5
S.states	RT5401N	RR	10/2	1.1	33	3	2.1	4286	34.1
S.states	RT5302N	RR	10/1	1.2	40	3	2.4	4128	33.9
D&PL	DP5414RR	RR	9/30	1.9	42	2	2.2	4355	33.8
Grand Average			10/2	1.5	36	6	2.5	4222	38.5
R-Squared			0.93	0.62	0.79	0.73	0.79	0.87	0.48
CV			0.0	15.7	6.4	57.6	11.5	5.6	10.6
LSD (0.10)			1.7	0.3	3.1	4.5	0.4	322.0	5.6

TABLE 9a 2005 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	RT5130N	RR	---	1.3	25	11	4.0	3797	27.6
USG	5601T		---	1.2	26	4	2.7	4786	26.4
Virginia	V98-9005		---	1.0	23	6	3.0	3745	24.7
Asgrow	AG5605	RR	---	1.0	26	14	2.0	5445	24.0
Tennessee	TN05-547RR	RR	---	1.0	30	5	1.7	4546	24.0
S.States	RT5450N	RR	---	1.2	25	17	3.3	3872	23.8
Vigoro	V51N6RR	RR	---	1.0	25	29	3.3	4606	23.7
Vigoro	V55N5RR	RR	---	1.5	32	14	3.7	4342	23.7
S.States	RT5540N	RR	---	1.3	29	10	3.7	4545	23.7
Public	Hutcheson		---	1.2	23	7	3.7	4357	22.9
Public	Teejay		---	1.0	23	15	3.7	3567	22.9
Virginia	V98-2711		---	1.0	23	7	3.7	4995	22.7
D&PL	DP5414RR	RR	---	1.3	30	6	3.3	4366	22.1
Vigoro	V53N5RS	RR/STS	---	1.2	23	15	3.3	3734	21.9
Pioneer	95M50	RR/STS	---	1.2	27	6	3.0	4128	21.9
Pioneer	95M81	RR	---	1.0	25	2	1.3	4801	21.8
S.States	RT5401N	RR	---	1.0	25	8	2.3	4297	21.7
Tennessee	TN05-548RR	RR	---	1.0	29	7	1.7	4300	21.6
S.States	RT5302N	RR	---	1.0	29	13	3.0	4123	21.6
Clarks	CL54RR	RR	---	1.0	24	9	3.3	4883	21.5
D&PL	DP5634RR	RR	---	1.3	29	8	2.7	3842	21.0
Grand Average			---	1.1	26	10	3.0	4337	23.1
R-Squared			---	0.53	0.68	0.87	0.74	0.89	0.53
CV			---	16.6	9.1	27.3	18.9	4.7	8.5
LSD (0.10)			---	0.3	3.3	3.8	0.8	282.0	2.7

*Maturity readings were not taken on a regular basis

TABLE 9b 2005 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
USG	7515nRR	RR	---	1.5	26	3	1.5	3688	55.7
Asgrow	AG5605	RR	---	1.3	26	2	1.0	4141	55.2
USG	7505nRR	RR	---	1.5	26	6	2.3	3277	53.9
Public	Hutcheson		---	1.6	20	1	1.8	3268	52.0
USG	540nRR	RR	---	1.3	24	2	1.8	3578	52.0
Public	Teejay		---	1.6	22	2	2.0	3025	51.1
USG	7553nRS	RR/STS	---	1.3	28	0	1.3	4194	51.0
S.States	RT5130N	RR	---	1.4	22	2	1.5	3152	50.1
Vigoro	V51N6RR	RR	---	1.1	21	2	1.8	3494	49.6
Tennessee	TN05-548RR	RR	---	1.6	26	1	1.0	3782	49.2
Virginia	V98-9005		---	1.5	21	0	1.3	3002	48.1
Vigoro	V55N5RR	RR	---	1.5	27	2	2.0	3738	48.1
S.States	RT5450N	RR	---	1.5	22	2	2.0	3288	47.5
Virginia	V98-2711		---	1.5	18	2	2.0	3516	47.5
USG	7504nRR	RR	---	1.9	25	5	2.0	3441	46.8
D&PL	DP5634RR	RR	---	1.7	27	0	1.3	3424	46.7
S.States	RT5540N	RR	---	1.3	26	1	2.0	3678	45.3
USG	5601T		---	1.4	22	3	2.0	3248	45.3
Vigoro	V53N5RS	RR/STS	---	1.3	22	1	1.8	3298	45.1
Tennessee	TN05-547RR	RR	---	1.5	23	1	1.3	3665	44.7
S.States	RT5401N	RR	---	1.4	24	2	1.5	3328	44.6
USG	550nSTS	STS	---	1.4	24	3	2.0	3858	44.0
Clarks	CL54RR	RR	---	1.5	24	1	2.0	3983	44.0
D&PL	DP5414RR	RR	---	1.9	24	1	1.3	3754	43.8
S.States	RT5302N	RR	---	1.5	24	1	1.5	3518	43.5
Grand Average			---	1.5	24	2	1.7	3528	48.1
R-Squared			---	0.43	0.66	0.69	0.51	0.88	0.54
CV			---	17.0	10.0	85.9	25.5	3.8	9.6
LSD (0.10)			---	0.3	2.8	1.7	0.5	157.0	5.4

*Maturity readings were not taken on a regular basis

TABLE 9c 2005 Performance of Double Crop 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
Asgrow	AG5605	RR	11/11	2.6	33	1	1.0	3533	49.0
USG	7505nRR	RR	11/11	2.4	35	10	2.0	2790	48.2
Public	Teejay		11/8	2.3	30	3	2.3	2430	48.1
USG	540nRR	RR	11/11	2.6	33	2	1.5	2780	47.8
Pioneer	95M81	RR	11/11	2.3	30	0	1.0	3408	46.8
S.States	RT5450N	RR	11/8	2.6	28	1	1.8	2684	46.5
Vigoro	V53N5RS	RR/STS	11/7	3.0	28	1	1.5	2570	45.7
Virginia	V98-9005		11/8	1.8	25	0	2.3	2449	45.2
S.States	RT5540N	RR	11/11	2.6	35	1	1.8	2883	45.1
USG	550nSTS	STS	10/31	2.6	34	8	2.8	3229	45.0
S.States	RT5401N	RR	11/11	1.9	32	4	1.5	2928	44.9
D&PL	DP5634RR	RR	11/11	3.0	32	1	1.8	2918	44.0
Clarks	CL54RR	RR	11/4	2.5	29	1	2.0	2871	43.7
Virginia	V98-2711		11/11	2.0	24	7	2.3	3011	43.6
USG	7553nRS	RR/STS	11/11	2.0	27	2	1.0	3537	42.8
Public	Hutcheson		11/11	2.3	27	4	2.3	2768	42.6
S.States	RT5130N	RR	11/4	3.0	28	7	2.3	2630	42.4
Tennessee	TN05-547RR	RR	11/11	2.6	34	1	1.0	3402	42.3
Tennessee	TN05-548RR	RR	11/11	2.5	34	1	1.0	3233	41.3
USG	5601T		11/11	2.5	29	4	1.8	3203	41.2
Vigoro	V51N6RR	RR	11/11	1.6	26	1	1.0	2958	41.2
Vigoro	V55N5RR	RR	11/11	2.0	32	3	1.0	3009	40.9
USG	7515nRR	RR	11/11	2.6	32	4	1.5	2812	40.9
Pioneer	95M50	RR/STS	11/8	2.6	32	1	2.5	2904	39.2
USG	7504nRR	RR	11/1	2.8	33	6	2.8	2992	38.9
S.States	RT5302N	RR	11/11	2.3	28	2	1.8	3078	37.6
D&PL	DP5414RR	RR	11/8	3.0	33	1	1.3	3013	37.4
Grand Average			11/9	2.4	30	3	1.7	2963	43.4
R-Squared			0.49	0.57	0.66	0.63	0.68	0.88	0.43
CV			0.0	18.0	9.1	97.0	27.1	4.3	11.8
LSD (0.10)			0.4	0.5	3.3	3.1	0.6	148.0	6.1

TABLE 9d 2005 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
Vigoro	V51N6RR	RR	10/30	1.0	20	2	1.6	3578	41.9
Virginia	V98-9005		10/31	1.2	19	1	1.5	3363	40.1
USG	7553nRS	RR/STS	11/3	1.2	19	1	1.5	3838	40.0
USG	5601T		10/30	1.2	21	1	1.8	3695	39.6
S.States	RT5450N	RR	11/1	1.1	20	1	1.4	3044	38.7
Public	Hutcheson		10/30	1.1	19	1	1.3	3523	38.5
USG	540nRR	RR	11/1	1.2	22	1	1.6	3403	38.3
D&PL	DP5634RR	RR	11/3	1.9	23	0	1.3	3198	38.2
Public	Teejay		10/28	1.5	18	3	1.9	3075	37.1
Vigoro	V53N5RS	RR/STS	11/1	1.1	21	2	1.4	3082	36.8
Virginia	V98-2711		10/28	1.4	18	1	1.7	3718	36.5
USG	550nSTS	STS	10/26	1.4	21	2	1.6	3840	36.4
Pioneer	95M50	RR/STS	11/2	1.6	21	1	1.5	3488	36.3
USG	7515nRR	RR	10/26	1.1	20	2	1.9	3559	35.9
S.States	RT5130N	RR	10/28	1.5	19	1	1.3	2981	35.3
D&PL	DP5414RR	RR	11/1	1.3	21	1	1.3	3397	35.2
USG	7505nRR	RR	10/23	1.1	20	9	2.3	3608	33.9
Tennessee	TN05-548RR	RR	11/5	1.2	21	1	1.4	3466	33.5
S.States	RT5401N	RR	11/1	1.1	20	1	1.5	3146	33.0
Pioneer	95M81	RR	11/3	1.1	18	1	1.3	3620	32.9
Tennessee	TN05-547RR	RR	11/6	1.1	21	2	1.6	3775	31.0
S.States	RT5540N	RR	11/1	1.2	23	3	1.2	3723	30.4
Vigoro	V55N5RR	RR	11/1	1.1	23	1	1.5	3681	29.2
USG	7504nRR	RR	10/22	1.3	19	4	2.2	3485	29.2
Clarks	CL54RR	RR	11/2	1.1	17	3	1.7	3652	28.1
S.States	RT5302N	RR	10/30	1.4	23	3	1.3	3673	27.8
Grand Average			10/31	1.3	20	2	1.6	3481	35.1
R-Squared			0.96	0.67	0.73	0.66	0.76	0.65	0.20
CV			0.0	17.3	6.2	80.8	12.3	6.8	12.1
LSD (0.10)			1.2	0.3	1.7	2.2	0.3	323.0	5.8

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