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VIRGINIA SOYBEAN PERFORMANCE TESTS 2011

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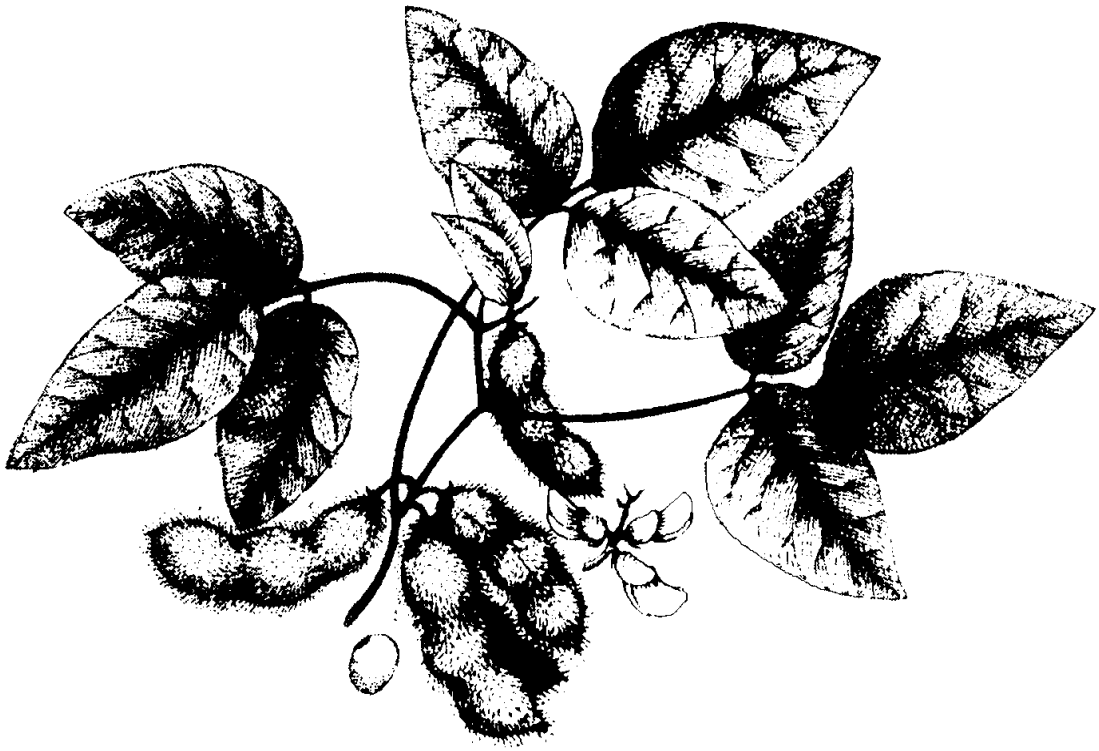

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Virginia Cooperative Extension

All County Extension Agents for an excellent job of disseminating this information

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INTRODUCTION

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.

MATERIALS AND METHODS

Soybean varieties were entered by commercial seed companies, universities, and crop improvement associations. Performance tests were conducted under full-season (May-planted) and/or double-cropping (June to early-July) systems in the Northern Piedmont (Orange Co.), Southern Piedmont (Blackstone), Northern Coastal Plain (Warsaw), Southern Coastal Plain (Suffolk), and Eastern Shore (Painter) regions of Virginia. All double-crop tests were no-till planted following barley or wheat harvest or at a comparable timing following application of herbicide during the small grain heading stage.

Recommended cultural practices were used and data were collected from a uniform set of instructions. Details of cultural practices used and soil types are listed on the table on page 4. Fertilizer was applied according to Virginia Tech soil test recommendations. A fungicide seed treatment was used on all seed. Seeding rates were the equivalent to 165,000 seed per acre in full-season tests and 220,000 seed per acre in double-crop tests. All tests were maintained weed free with preemergence and/or postemergence herbicides and hand weeding. Insecticides were applied if insect pests approach economic thresholds. Fungicides were applied if disease was present and conditions were favorable for further disease progress. Tests were harvested as near to the date of first harvest maturity as work schedules and weather would permit. Plots were end-trimmed to prevent alley effects. The interior rows of all plots were harvested with a small-plot combine equipped with weigh scales, moisture meter, and on-board computer. A small seed sample was collected from each plot and was used to further evaluate seed characteristics. Data were collected using the following methods:

Maturity was taken at the date when 95% of the pods turned brown (R8).

Lodging notes was visually estimated using a 1 to 5 scale 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 (45º 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 was determined by measuring and averaging 3 to 5 randomly-chosen plants. Height was measured from the ground to the uppermost main-stem 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) ratings are a good representation of *Phomopsis* seed decay. The following scale was used:
1.0 = very good; 2.0 = good; 3.0 = fair; 4.0 = poor; 5.0 = very poor.

Seed Size (SS) was obtained from the weight of a 100-seed sample then converted to number of seed per pound.

Yield (bu/acre) was measured as pounds or grams per plot, adjusted to 13% moisture, and then converted to bushels per acre. A bushel weight of 60 pounds (at 13% moisture) was used to determine yield.

The experimental design was a randomized complete block design with three replications per site. Due to

the number of entries, it was necessary to separate the varieties by maturity in all locations. To facilitate field operations and to allow for more accurate comparison, maturity group IV varieties were separated into early (RMG 4.0-4.6) and late (RMG 4.7-4.9) tests. Data were subjected to analysis of variance and means were separated with Fisher's Protected LSD test (p = 0.10).

INTERPRETING THE RESULTS

Pages 8 through 14 contain yield summaries over all sites. Past analysis of test data indicated that variety selection should be made from multiple years and sites. More sites result in more reliable information. However, average yields over sites should not be used to select the highest yielding variety unless all varieties are tested in all sites because data will be skewed to those varieties that are tested in the highest yielding sites. When all varieties are not tested in all sites, average relative yield may be a better method of comparing varieties over sites. 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 site. A variety with a relative yield of 105 would be 5% above the average of all varieties at that site. Relative yield is not an actual yield, but a value that is relative to all other yield values at that site. Varieties are ranked by average relative yield across sites in descending order.

The remaining pages contain detailed yield and other performance data from each site. 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 six site-years 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. Other traits shown in the tables are: maturity, lodging, height, seed quality, purple stain, and seed size. 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.

Within maturity groups at each location, LSD (least significant difference) was calculated at the 10% probability level. The LSD is a statistical test to assist 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.

Location	Planting Date	Tillage System	Herbicides	Date Applied	Insecticide/ Fungicides	Soil Type	Row Width	Rows Planted	Rows Harvested	Row Length Harvested
Blackstone-FS	5/18	Conv.	Dual II Mag Authority Sencor DF	5/19	None	Durham coarse sandy loam	15″	5	3	17'
Orange-FS	6/2	No-Till	Dual II Mag Canopy XL	5/25	None	Davidson clay Dyke loam	15″	5	3	17'
Painter-FS	5/26	Conv.	Dual II Mag TriCor DF	5/26	None	Bojac sandy loam	15″	5	3	17'
Suffolk-FS	5/19	Conv.	Dual II Mag Sonic	5/20	Baythroid 8/12 Headline 8/12	Dragston fsl Eunola lfs	15″	5	3	17'
Warsaw-FS	5/23	Conv.	Dual Mag Python First Rate	5/18 6/30	Sniper 8/16 Steward 8/16	Kempsville loam	30″	4	2	12'
Blackstone-DC	6/8	No-Till	Dual II Mag Authority Sencor DF Blazer	6/9 7/13	None	Durham coarse sandy loam	15″	5	3	17'
Orange-DC	6/14	No-Till	Dual II Mag Sonic	6/14	None	Davidson clay	15″	5	3	17'
Painter-DC	7/15	No-Till	Dual II Mag Tricor DF	7/15	None	Bojac sandy loam	15″	5	3	17'
Suffolk-DC	6/7	No-Till	Canopy XL Dual II Mag	6/7	Baythroid 8/12 Headline 8/12	Rains fine sandy loam	15″	5	3	17'
Warsaw-DC	6/15	No-Till	Dual Magnum	6/15	Sniper 8/16 Steward 8/16	Kempsville loam	7.5″	5	5	12'

MONTHLY PRECIPITATION (INCHES) AND AVERAGE RAINFALL
MAY - OCTOBER

Location		**May**	**June**	**July**	**Aug.**	**Sept.**	**Oct.**	**Total**
Blackstone	2011	4.07	3.63	5.47	6.05	4.17	5.80	29.19
	61-yr Avg.	3.88	3.95	4.75	4.02	3.78	3.36	23.74
Orange	2011	4.67	3.42	2.63	7.59	10.52	6.22	35.05
	71-yr. Avg.	3.85	3.81	4.32	3.87	3.93	3.56	23.34
Painter	2011	1.24	10.28	3.63	8.01	3.71	3.17	30.04
	71-yr Avg.	3.41	3.73	4.59	4.23	3.67	3.51	23.14
Suffolk	2011	2.23	4.28	7.96	14.21	8.96	3.34	40.98
	77-yr. Avg.	3.92	4.17	5.65	5.74	4.32	3.50	27.30
Warsaw	2011	2.51	6.49	3.81	15.76	7.10	2.96	38.63
	44-yr Avg.	4.16	3.90	4.18	4.53	4.44	3.42	24.63

SUPPLIERS OF SOYBEAN VARIETIES TESTED

SUPPLIER	BRAND	VARIETY
ChannelBio, LLC 612 E Dunlap St Kentland, IN 47951	Channel	4205R2, 4500R2, 4605R2, 4705R2, 5305R
Doebler's PA Hybrids Inc. 202 Tiadaghton Avenue Jersey Shore, PA 17740	RPM	DB3509RR, DB3809RR, DB4510RR, DB5511RS
Dyna-Gro/Crop Production Services 1140 Sweet Road East Aurora, NY 14052	Dyna-Gro	37RY39, 39RY43, 35X43, 37RY47, V47N8RR, 39D48, 35RY51, 32A53, 32RY53
Featherstone Farm 13941 Genito Rd. Amelia, VA 23002	Armor Delta King	53-R15 DKR4744
Growmark FS 503 A Brick St. Port Matilda, PA 16870	HiSOY	HS39A03, HS41A02, HS42T80, HS476, HS47R90
Mid-Atlantic Seeds, Inc 204 St, Charles Way #163E York, PA 17402	Mid- Atlantic	MAS4077RR1STS, MAS4010STS, MAS4003NRR2, MAS4399RR/STS, MAS4304NRR2, MAS4444RR2, MAS4666NRR, MAS4605RR
Monsanto Company 800 N Lindbergh Blvd St. Louis, MO 63167	Asgrow	AG4103, AG4232, AG4531, AG4632, AG4730, AG4732, AG4832, AG4903, AG5332, AG5605, AG5632
North Carolina State University 1244 Williams Hall Raleigh, NC 27695-7620	North Carolina	NCC05-1261, NCC05-1168, NCC04-1555
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny	P4611RY, P4710RY, P4750RR, P4807RR, P4811RY, P4906RR, P4906RR, P4911RY, P4928LL, P5111RY, P5160LL, P5210RY, P5261LL, P5330RR, P5321RY, P5460LL, P5610RY, P5655Ry, P5711RY, P5811RY

Southern States Coop P.O. Box 26234 Richmond, VA 23260	Southern States	EXP3712NR2, SS3911NR2, SS3811NR2, SS3910NR2, RT3971N, RT3971N, RT4370N, EXP4312NR2, RT4470N, SS4510NR2, SS4700R2, SS4711NR2, RT4808N-STS, RT4996N-STS, EXP5111R2, EXP5112R2, RT5160N-STS, EXP5311NR2, EXP5312NR2, RT5471N, SS5510NR2, EXP5611R2, EXP5711R2, RT5760N, LL396N, LL430N, LL450N, LL491N, LL499N, LL511N, LL540N, EXPLL501N, LL590N, LL595N
Stine Seed Company 2225 Laredo Trial Adel, IA 50003	Stine	46LC83, 48RC32, 51LA02, 58LA02, 58LC23, 6202-4
Syngenta Seeds, Inc. PO Box 96 Peterson, MN 55962	NK	S39-U2, S44-K7, S46-A1, S47-R3, S51-J3, S56-G6
T.A. Seeds P.O. Box 300 Avis, PA 1772	T.A. Seeds	TS3829R2, TS3989RS, TS4129R2, TS4499R2, TS5029R2
UniSouth Genetics, Inc. 2640-C Nolensville Rd. Nashville, TN 37211	USG	73H77, 74A27, 74A45, 74B58, 74H81, 74E88, 74F96, 7495nRS, 75M16, 75Z38, 75T40, 75M49, 7553nRS, 75Z98, 74G99L, 74D41R, 74F51R, 74A79R, 74A69R, 74B81R, 75B21R, 75R31R
University of Arkansas 115 Plant Sci Bldg Fayetteville, AR 72701	Public	UA4910, Ozark, Osage, R04-357
USDA-ARS 605 Airways Blvd Jackson, TN 38301	USDA-ARS	JTN-5203
Virginia Tech 509 Latham Hall Blacksburg, VA 24061	Public Virginia	Hanover, Hutcheson, Glenn V03-4660, V04-1022, V03-3650

Table 1a. Yield summaries and average relative yields of Maturity Group III entries. Relative yield within a site is calculated by dividing the yield of a variety by the average yield of all varieties in the same maturity group at that site. Average relative yield is the mean of relative yields of all sites.

				Full-Season					
Brand	Variety	Herb Resist	Relative Maturity	ORG[a]	PTR	SUF	WAR	Avg	Avg. Rel. Yield
S.States	LL396N	LL	3.9	---		27.9	59.1	43.5	111
HiSOY	HS 39A03	RR2Y	3.9	---	35.5		55	45.3	110
RPM	DB3809RR	RR	3.8	---	36.6	23.7	54.8	38.4	107
S.States	SS3811NR2	RR2Y	3.8	---		25.6	60.4	43.0	107
S.States	SS3910NR2	RR2	3.9	---		24.9	57.2	41.1	103
T.A. Seeds	TS3989RS	RR/STS	3.9	---	28.5		57.3	42.9	100
S.States	Exp3712NR2	RR2Y	3.7	---		25.3	52.7	39.0	100
S.States	RT3971N	RR	3.9	---		23.6	56.2	39.9	99
RPM	DB3509RR	RR	3.5	---	30.8	21.6	56.6	36.3	99
Dyna-Gro	37RY39	RR2Y	3.9	---	26		55.4	40.7	94
USG	73H77	RR/STS	3.7	---	22.1	23.6	60.4	35.4	94
S.States	SS3911NR2	RR2Y	3.9	---		21.4	54.6	38.0	93
NK Brand	S39-U2	RR2Y	3.9	---			49.1	49.1	88
T.A. Seeds	TS3829R2	RR2Y	3.8	---	24.5		50.2	37.4	87
LSD (P=.10)				---	5.0	4.2	9.0	---	---
CV				---	11.7	12.2	11.6	---	---
Grand Mean				---	29.1	24.2	55.6	40.7	100

[a]Brown mamorated stink bug damage lowered yields unevenly across this site; therefore, data were not summarized.

Table 1b. Yield summaries and average relative yields of Early Maturity Group IV entries. Relative yield within a site is calculated by dividing the yield of a variety by the average yield of all varieties in the same maturity group at that site. Average relative yield is the mean of relative yields of all sites.

				Full-Season							Double-Crop							FS & DC		
Brand	Variety	Herb Resist	Relative Maturity	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	No. of Loc	Avg2	Avg Rel Yield
USG	74D41R	RR2Y	4.1			38.7	33.0	82.4	51.4	113								3	51.4	113
Progeny	P4611RY	RR2Y	4.6	49.0	51.6	34.1	36.1	76.3	49.4	110								5	49.4	110
Progeny	P4510RY	RR2Y/STS	4.5	46.4	47.1	36.9	34.6	81.2	49.2	109								5	49.2	109
USG	74A69R	RR2Y	4.6			33	32.3	80.6	48.6	105			54.4	51.7	64.5	56.9	112	6	52.8	109
Mid-Atlantic	MAS4605RR	RR	4.6	48.6	51.1	33.3	31.4	80.8	49.0	107								5	49.0	107
Asgrow	AG4531	RR2Y/STS	4.5			36.5	34.4	79.8	50.2	111		53.5	44.9	50.7		49.7	102	6	50.0	106
RPM	DB4510RR	RR	4.5	41.6	53.2	34	30.0	71.0	46.0	102	54.1	64.3	52.3	49.3	60.5	56.1	110	10	51.0	106
Channel	4500R2	RR2Y	4.5		50.1	35.3		80.1	55.2	106								3	55.2	106
Channel	4605R2	RR2Y/STS	4.6									60.3	45.3		64.4				56.7	105
Mid-Atlantic	MAS4010STS	STS	4	42.9	46.3	36.1	34.4	75.9	47.1	105								5	47.1	105
T.A. Seeds	TS4129R2	RR2Y	4.1		50.4	38.8		79.6	56.3	109		51.5	46.8		59.3	52.5	98	6	54.4	104
Mid-Atlantic	MAS4304NRR2	RR2Y	4.3	46.7	50.3	31.6	31.4	75.1	47.0	103								5	47.0	103
Asgrow	AG4632	RR2Y	4.6			34.5	29.2	82.4	48.7	104		50.5	43.5	54.7		49.6	102	6	49.1	103
HiSOY	HS41A02	RR2Y	4.1		52.9	35.5		68.7	52.4	103								3	52.4	103
NK Brand	S46-A1	RR2Y	4.6	46.9		37.3	28.2	76.0	47.1	104			47.6	44.8	60.4	50.9	100	7	48.7	102
Virginia	V03-4660	CONV	4.6	52.0		40.3	28.1	68.3	47.2	107	59.5	33.9	44.8	48.7	56.5	48.7	96	9	48.0	101
Mid-Atlantic	MAS4003NRR2	RR2Y	4	42.3	41	39	28.3	80.5	46.2	101								5	46.2	101
Mid-Atlantic	MAS4399RR/STS	RR/STS	4.3	47.0	50	33.2	26.9	71.7	45.8	100								5	45.8	100
Stine	46LC83	LL	4.6			28.4	24.2	78.3	43.6	91			54.7	52.7	58.7	55.4	109	6	49.5	100
Mid-Atlantic	MAS4666NRR	RR	4.6	39.0	55.2	31.6	27.5	77.3	46.1	100								5	46.1	100
USG	74A45	RR	4.4										48.1	44.8	60.2				51.0	100
Dyna-Gro	35X43	RR	4.3		50.8	30.3	27.4	77.1	46.4	99		57.3	43.1		62.1	54.2	101	7	49.7	100
S.States	Exp4312NR2	RR2Y	4.3	45.1	39.8		27.6	76.4	47.2	96	44.5	59.6		44.5	60.4	52.3	100	8	49.7	98
Asgrow	AG4232	RR2Y/STS	4.2		43.4	28.4		78.6	50.1	93		55.2	46.3		64.7	55.4	103	6	52.8	98
Asgrow	AG4130	RR2Y	4.1		38.9	32.6		82.7	51.4	96		54	46		61.1	53.7	100	6	52.6	98
Mid-Atlantic	MAS4444RR2	RR2Y	4.4	42.2	42.9	32	30.8	74.5	44.5	98								5	44.5	98
Dyna-Gro	39RY43	RR2Y	4.3		39.3	27.9	29.0	79.0	43.8	93		61.8	41.2		65.5	56.2	104	7	49.1	98
S.States	LL430N	LL	4.3	42.2	51.1		24.3	76.2	48.5	98	46.3	45.1		48.7	60.9	50.3	97	8	49.4	97
S.States	RT4470N-STS	RR/STS	4.4	38.6	45.9		32.7	80.6	49.5	102	46.1	49.6		39.5	57.8	48.2	93	8	48.9	97
S.States	SS4510NR2	RR2	4.5	42.3	41.6		26.6	70.0	45.1	93	43.0	56.7		47.3	62.8	52.5	101	8	48.8	97
NK Brand	S44-K7	RR/STS	4.4		43.7	32.8		74.9	50.5	96								3	50.5	96

Table 1b. Continued

				Full-Season							Double-Crop							FS & DC		
Brand	Variety	Herb Resist	Relative Maturity	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	No. of Loc	Avg	Avg Rel Yield
T.A. Seeds	TS4499R2	RR2Y	4.4									58.5	40.3		55.7				51.5	96
USG	74A27	RR/STS	4.2			30.2	25.2	73.4	42.9	91			53.1	41.3	59.0	51.1	100	6	47.0	96
USG	74F11	RR2Y	4.1			30.4	26.2	78.0	44.9	95								3	44.9	95
Channel	4205R2	RR2Y	4.2		42.5	30.4		78.3	50.4	95								3	50.4	95
S.States	RT4370N	RR	4.3	33.7	51.6		21.6	71.8	44.7	89	46.0	52.4		47.1	59.7	51.3	99	8	48.0	94
HiSOY	HS42T80	RR/STS	4.2		49.9	27.6		70.7	49.4	94								3	49.4	94
USG	74B58	RR/STS	4.5			35.8	26.7	71.0	44.5	98			44.3	33.6	57.7	45.2	88	6	44.9	93
S.States	LL450N	LL	4.5	42.7	40.7		26.2	69.9	44.9	92	48.0	46.4		38.1	58.6	47.8	92	8	46.3	92
Mid-Atlantic	MAS4077RR/STS	RR/STS	4	33.8	46.7	32.3	20.7	71.7	41.0	88								5	41.0	88
LSD (P=.10)				7.6	5.8	6.1	4.8	6.4	---	---	4.3	7.9	10.6	9.5	4.1	---	---	---	---	---
CV				12.6	7.2	13.3	12.3	6.1	---	---	6.2	10.7	16.3	14.9	4.9	---	---	---	---	---
Grand Mean				43.3	47.0	33.5	28.8	76.2	47.7	100	47.9	53.6	46.9	46.1	60.5	51.9	100	---	49.2	100

Table 1c. Yield summaries and average relative yields of Late Maturity Group IV entries. Relative yield within a site is calculated by dividing the yield of a variety by the average yield of all varieties in the same maturity group at that site. Average relative yield is the mean of relative yields of all sites.

				Full-Season							Double-Crop							FS & DC		
Brand	Variety	Herb Resist	Relative Maturity	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	No. of Locations	Avg	Avg Rel Yield
Progeny	P4710RY	RR2Y/STS	4.7	37.5	76.1	38.4	58.1	72.4	56.5	112								5	56.5	112
USG	74B81R	RR2Y	4.8			35.5	62.0	81.9	59.8	117			54.8	53.2	70.4	59.5	100	6	59.6	108
USG	74A79R	RR2Y/STS	4.7			37.7	46.9	73.8	52.8	104			55.0	66.3	71.1	64.1	108	6	58.5	106
Delta King	DKR4744	RR2Y/STS	4.7									50.0	50.0		70.6	56.9	106	3	56.9	106
Progeny	P4928LL	LL	4.9	49.1	59.2	35.8	47.5	70.8	52.5	105								5	52.5	105
Asgrow	AG4730	RR2Y/STS	4.7			37.7	35.9	80.1	51.2	98		57.8	48.7	61.7		56.1	112	6	53.6	105
S.States	SS4700R2	RR2	4.7	38.0	70.3		45.8	73.5	56.9	104	44.8	49.2		61.3	70.0	56.3	106	8	56.6	105
Progeny	P4911RY	RR2Y	4.9	50.6	58.9	41.3	37.2	72.4	52.1	105								5	52.1	105
S.States	LL491N	LL	4.9	46.4	57.5		48.0	79.4	57.8	107	51.8	40.1		59.4	65.8	54.3	102	8	56.0	105
Public	Hanover	CONV	4.9	46.3		38.1	45.4	68.5	49.6	105	55.0	34.7	61.9	58.1	66.9	55.3	104	9	52.8	105
Asgrow	AG4903	RR/STS	4.9	39.2	60.1	40.3	46.1	77.0	52.5	104	44.8	45.5	55.1	59.5	71.1	55.2	104	10	53.9	104
S.States	RT4808N-STS	RR/STS	4.8	39.0	62.0		43.3	75.3	54.9	100	41.3	51.4		63.4	73.0	57.3	107	8	56.1	104
USG	74F96	RR	4.9			40.7	45.9	72.7	53.1	105			50.1	61.2	68.0	59.8	100	6	56.4	103
N.Carolina	NCC05-1261	CONV	4.9	42.2	60.1	49.3	42.9	69.5	52.8	107	42.8		55.3	51.9	63.6	53.4	96	9	53.1	102
USG	74G99L	LL	4.9			33.7	46.5	79.7	53.3	102			56.2	58.5	66.9	60.5	102	6	56.9	102
Channel	4705R2	RR2Y	4.7		66.9	35.0		79.2	60.4	105		37.7	54.2		70.3	54.1	99	6	57.2	102
N.Carolina	NCC05-1168	CONV	4.9	48.3	59.9	40.6	46.2	67.2	52.4	106	41.3		53.8	51.9	66.1	53.3	95	9	52.8	101
USG	74H81	RR	4.8			27.8	44.6	74.7	49.0	93			56.9	66.9	70.7	64.8	109	6	56.9	101
S.States	SS4711NR2	RR2Y	4.7	42.6	68.8		41.8	72.5	56.4	104	43.5	40.4		56.3	68.7	52.2	98	8	54.3	101
Virginia	V04-1022	CONV	4.9	46.0		41.1	58.6	72.1	54.5	115	46.4	28.1	45.0	55.1	62.3	47.4	88	9	50.5	100
Dyna-Gro	37RY47	RR2Y/STS	4.7			37.2	41.0	76.4	51.5	100								3	51.5	100
USG	7495nRS	RR/STS	4.9			37.9	43.1	72.9	51.3	101			53.7	55.1	68.7	59.2	99	6	55.2	100
Asgrow	AG4732	RR2Y	4.7			31.2	42.2	75.0	49.5	95		40.8	54.4	65.7		53.6	105	6	51.6	100
S.States	LL499N	LL	4.9	46.1	62.0		35.2	77.2	55.1	101	52.9	32.2		59.1	66.9	52.8	98	8	54.0	100
Stine	48RC32	RR2Y	4.8			33.6	40.3	80.2	51.4	98			50.7	58.9	71.0	60.2	101	6	55.8	99
Asgrow	AG4832	RR2Y	4.8			33.9	39.0	72.5	48.5	94		45.4	50.2	61.9		52.5	103	6	50.5	99
Dyna-Gro	39D48	RR	4.8			29.2	39.9	78.9	49.3	93			51.1	61.9	73.6	62.2	104	6	55.8	98
Progeny	P4807RR	RR	4.8	35.5	67.2	27.9	46.4	74.8	50.4	97								5	50.4	97
Pioneer	94Y90	RR	4.9	33.2	64.3	34.9	42.4	78.7	50.7	98	39.1	38.2	53.7	51.6	67.5	50.0	94	10	50.4	96
NK	S47-R3	RR	4.7	31.9		35.1	43.3	78.0	47.1	96								4	47.1	96

Table 1c. Continued

				Full-Season							Double-Crop							FS & DC		
Brand	Variety	Herb Resist	Relative Maturity	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	No. of Locations	Avg	Avg Rel Yield
Dyna-Gro	V47N8RR	RR	4.7										49.9	51.5	69.6	57.0	95	3	57.0	95
Arkansas	UA4910	CONV	4.9	34.8	58.4	39.4	34.8	73.2	48.1	95								5	48.1	95
S.States	RT4996N-STS	RR/STS	4.9	27.8	63.1		41.8	78.0	52.7	94	41.8	39.9		56.8	66.2	51.2	96	8	51.9	95
Progeny	P4811RY	RR2Y	4.8	37.5	50.0	34.5	40.5	76.2	47.7	94								5	47.7	94
Progeny	P4750RR	RR	4.7	34.8	53.9	33.0	42.9	74.6	47.8	94								5	47.8	94
HiSOY	HS47R90	RR	4.7		57.0	28.4		74.7	53.4	92								3	53.4	92
Progeny	P4906RR	RR	4.9	34.4	51.0	29.8	41.6	78.2	47.0	91								5	47.0	91
Pioneer	94Y70	RR	4.7	28.0	48.0	30.7	40.6	70.1	43.5	85	37.0	45.0	50.0	51.2	69.0	50.4	95	10	47.0	90
USG	74E88	RR/STS	4.8										38.8	50.8	63.6	51.1	85	3	51.1	85
HiSOY	HS476	RR/STS	4.7		40.8	30.7		73.2	48.2	84								3	48.2	84
LSD (P=.10)				8.4	11.7	5.6	9.0	8.3	---	---	8.8	8.8	5.7	7.5	5.7	---	---	---	---	---
CV				15.6	14.1	11.6	15.0	8.1	---	---	14.0	15.0	8.0	9.5	6.1	---	---	---	---	---
Grand Mean				39.5	59.8	35.3	44.0	75.0	50.7	100	44.8	42.3	52.3	58.1	68.5	55.7	100	6.3	53.2	100

Table 1d. Yield summaries and average relative yields of Maturity Group V entries. Relative yield within a site is calculated by dividing the yield of a variety by the average yield of all varieties in the same maturity group at that site. Average relative yield is the mean of relative yields of all sites.

				Full-Season							Double-Crop						FS & DC		
Brand	Variety	Herb Resist	Relative Maturity	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	BLK	PTR	SUF	WAR	Avg	Avg Rel Yield	No. of Locations	Avg	Avg Rel Yield
Progeny	P5160LL	LL	5.1	65.5		46.4	56.6	73.9	60.6	112							4	60.6	112
USG	75Z38	RR	5.3									61.0	58.8	68.9	62.9	111	3	62.9	111
Progeny	P5610RY	RR2Y	5.6	68.0	54.8	42.4	56.1	70.0	58.3	110							5	58.3	110
Progeny	P5711RY	RR2Y	5.7	58.2	54.8	48.0	53.4	72.0	57.3	109							5	57.3	109
NK Brand	S56-G6	RR	5.6	63.9		45.5	53.8		54.4	111		50.9	60.6	69.1	60.2	106	6	57.3	108
S.States	Exp5711R2	RR2Y	5.7	60.7			59.9	72.6	64.4	110	54.2		62.1	65.1	60.5	107	6	62.4	108
Dyna-Gro	32RY55	RR2Y	5.5			42.0	54.3	74.2	56.8	107		54.3	62.1	66.4	60.9	107	6	58.9	107
Public	Glenn	CONV	5.3	60.6	49.3	37.9	60.9	74.8	56.7	106	55.8	57.1	57.3	68.8	59.8	107	9	58.1	106
N.Carolina	NCC04-1555	CONV	5.7	63.0	53.5	47.3	51.8	69.6	57.0	108	51.5	53.0	55.7	72.0	58.1	104	9	57.5	106
Stine	51LA02	LL	5.1			42.8	50.9	74.4	56.0	105		53.9	60.4	67.4	60.6	106	6	58.3	106
USG	75M16	RR/STS	5.1									52.9	63.9	63.1	60.0	106	3	60.0	106
S.States	LL511N	LL	5.1	60.0			54.0	68.0	60.7	103	49.6		58.3	72.6	60.2	105	6	60.4	104
Public	R04-357	CONV	5.6	57.2	49.8	46.4	54.0	65.6	54.6	104							5	54.6	104
Armor	53-R15	RR2Y	5.3			40.3	52.5	73.1	55.3	104							3	55.3	104
USG	75T40	RR	5.4									52.8	56.8	66.5	58.7	103	3	58.7	103
S.States	Exp5611R2	RR2Y	5.6	60.4			53.8	68.5	60.9	104	56.2		54.4	63.8	58.1	102	6	59.5	103
Asgrow	AG5632	RR2Y/STS	5.6	57.4		41.6	50.8		49.9	102	56.8	53.6	53.6		54.7	103	6	52.3	103
S.States	RT5760N	RR	5.7	64.0			56.8	65.3	62.0	106	52.3		48.8	69.1	56.7	99	6	59.4	103
Public	Ozark	CONV	5.2	60.2	40.5	43.5	53.1	75.4	54.5	102							5	54.5	102
USG	75Z98	RR	5.9									55.6	55.9	62.4	58.0	102	3	58.0	102
Progeny	P5210RY	RR2Y	5.2	61.6	48.2	37.0	52.4	74.6	54.8	102							5	54.8	102
Virginia	V03-3650	CONV	5.5	62.4	52.5	38.8	50.6	67.7	54.4	102	54.2	53.4	50.0	69.3	56.7	101	9	55.4	102
S.States	Exp5312NR2	RR2Y	5.3	55.5			55.3	66.4	59.1	101	52.7		54.8	68.2	58.6	103	6	58.8	102
NK Brand	S51-J3	RR2Y	5.1	56.9		35.7	52.7	78.1	55.9	102							4	55.9	102
S.States	LL590N	LL	5.9	61.9			53.9	66.6	60.8	104	48.7		60.5	59.6	56.3	99	6	58.5	101
Stine	6202-4	RR	6.2			43.7	56.3	64.8	54.9	105		47.8	56.2	62.8	55.6	98	6	55.3	101
USG	7553nRS	RR/STS	5.5			40.3	47.1	70.0	52.5	99		51.3	61.1	63.6	58.7	103	6	55.6	101
Asgrow	AG5605	RR/STS	5.6	50.9	49.7	40.5	48.0	77.4	53.3	100	54.0	50.8	51.1	73.7	57.4	102	9	55.1	101
Progeny	P5330RR	RR	5.3	59.7	48.5	40.8	49.5	69.1	53.5	101							5	53.5	101
Public	Hanover	CONV	4.9	58.1	44.1	41.5	49.9	69.3	52.6	99	50.6	53.7	56.6	69.7	57.7	103	9	54.8	101
Pioneer	95Y71	RR	5.7	58.8		35.0	52.8	75.4	55.5	101	53.0	49.6	56.4	61.5	55.1	99	8	55.3	100
S.States	ExpLL501N	LL	5	57.3			46.1	67.7	57.0	96	54.7		52.4	68.3	58.5	102	6	57.8	99
Stine	58LC23	LL	5.8			44.4	49.4	69.3	54.4	103		51.4	50.1	61.3	54.3	95	6	54.3	99

Table 1d. Continued

				Full-Season							Double-Crop						FS & DC		
Brand	Variety	Herb Resist	Relative Maturity	BLK	ORG	PTR	SUF	WAR	Avg	Avg Rel Yield	BLK	PTR	SUF	WAR	Avg	Avg Rel Yield	No. of Locations	Avg	Avg Rel Yield
USG	75B21R	RR2Y	5.2			38.7	46.7	70.2	51.9	97		52.0	53.1	68.6	57.9	101	6	54.9	99
Pioneer	95M82	RR	5.8	57.5	46.2	39.8	53.6	64.0	52.2	99	46.9	52.4	55.5	67.5	55.6	99	9	53.7	99
S.States	Exp5311NR2	RR2Y	5.3	56.0			61.7	61.4	59.7	103	55.5		47.3	58.2	53.7	95	6	56.7	99
Progeny	P5111RY	RR2Y	5.1	51.5	52.0	35.2	49.2	76.3	52.8	98							5	52.8	98
Progeny	P5655RY	RR2Y	5.6	61.6	44.6	43.3	44.9	65.8	52.0	98							5	52.0	98
Dyna-Gro	32A53	RR	5.3			34.4	50.3	71.3	52.0	96		58.8	47.7	62.8	56.4	99	6	54.2	98
S.States	RT5160N-STS	RR/STS	5.1	51.9			49.9	71.9	57.9	98	55.0		51.8	58.0	54.9	97	6	56.4	97
Public	Hutcheson	CONV	5.7	55.4		45.6	49.2	65.3	53.9	101	55.6	43.0	48.9	62.5	52.5	94	8	53.2	97
Progeny	P5811RY	RR2Y	5.8	52.9	49.3	39.7	47.3	68.2	51.5	97							5	51.5	97
USDA-ARS	JTN-5203	CONV	0	57.2	46.2	35.1	44.8	68.1	50.3	94	48.8	58.2	51.1	66.6	56.2	100	9	52.9	97
S.States	LL540N	LL	5.4	51.7			47.2	67.1	55.3	94	58.4		49.6	61.2	56.4	99	6	55.9	96
Channel	5305R2	RR2Y	5.3			36.2	46.4	72.3	51.6	96							3	51.6	96
RPM	DB5511RS	RR/STS	5.5	50.3	54.4	38.4	44.7	65.1	50.6	96	55.6	47.9	49.5	60.6	53.4	96	9	51.8	96
S.States	Exp5112NR2	RR2Y	5.1	50.1			46.2	69.2	55.2	93	50.8		54.2	62.8	55.9	98	6	55.6	96
Asgrow	AG5332	RR2Y	5.3	53.4		33.7	44.3		43.8	89	53.6	55.0	52.8		53.8	102	6	48.8	95
T.A. Seeds	TS5029R2	RR2Y	5.9		47.4	34.5		70.1	50.7	95							3	50.7	95
Public	Osage	CONV	5.6	46.3	43.3	35.8	53.6	74.5	50.7	95							5	50.7	95
S.States	Exp5111R2	RR2Y	5.1	55.7			44.6	67.2	55.8	94	52.1		50.2	58.7	53.7	95	6	54.8	94
S.States	LL595N	LL	5.9	53.3			45.2	69.7	56.1	94	45.5		50.5	64.6	53.5	94	6	54.8	94
Stine	58LA02	LL	5.8			39.0	51.3	64.6	51.6	98		46.8	47.3	60.4	51.5	90	6	51.6	94
Progeny	P5261LL	LL	5.2	56.7		39.3	41.8	65.2	50.8	94							4	50.8	94
S.States	SS5510NR2	RR2	5.5	53.2			49.1	62.4	54.9	93	53.5		42.7	63.7	53.3	93	6	54.1	93
Progeny	P5460LL	LL	5.4	65.5		33.4	38.3	67.9	51.3	93							4	51.3	93
USG	75T49	RR	5.4									52.3	37.6	69.1	53.0	92	3	53.0	92
Progeny	P5321RY	RR2Y	5.3	51.3	49.5	33.1	46.9	64.3	49.0	92							5	49.0	92
USG	75R31R	RR2Y	5.3				48.3	66.2	57.3	96		49.4	46.5	56.3	50.7	89	5	53.3	92
S.States	RT5471N-STS	RR/STS	5.4	51.1			45.7	65.9	54.2	92	39.7		55.1	60.7	51.8	91	6	53.0	91
Dyna-Gro	35RY51	RR2Y	5.1			32.4	47.2	66.7	48.8	90							3	48.8	90
LSD (P=.10)				10.0	11.3	7.9	10.1	6.3	---	---	7.8	6.4	8.2	4.4	---	---	---	---	---
CV				12.8	13.4	14.6	14.8	6.7	---	---	10.8	9.0	11.2	4.9	---	---	---	---	---
Grand Mean				57.3	49.0	39.7	50.5	69.3	53.2	100	52.4	52.6	53.6	64.9	55.9	100	9	54.4	100

Table 2a. Performance of Full Season Maturity Group III Entries at Painter, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
RPM	DB3809RR	RR	3.8		2.2	36	9	4.0	3166	36.6
HiSOY	HS 39A03	RR2Y	3.9		2.5	35	10	5.0	2845	35.5
RPM	DB3509RR	RR	3.5		2.0	40	10	3.7	3220	30.8
T.A. Seeds	TS3989RS	RR/STS	3.9		2.8	43	12	4.0	3305	28.5
Dyna-Gro	37RY39	RR2Y	3.9		2.0	38	10	4.0	2968	26.0
T.A. Seeds	TS3829R2	RR2Y	3.8		2.3	39	9	3.3	3390	24.5
USG	73H77	RR/STS	3.7		3.3	41	15	4.0	3332	22.1
LSD (P=.10)					0.6	4	8	0.9	345	5.0
CV					17.5	7.7	50.1	16.2	7.5	11.7
Grand Mean					2.5	39	11	4.0	3175	29.1

Table 2b. Performance of Full Season Maturity Group III Entries at Suffolk, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
S.States	LL396N	LL	3.9	4-Oct	1.8	28	7	3.0	3047	27.9
S.States	SS3811NR2	RR2Y	3.8	4-Oct	1.5	31	3	4.0	3027	25.6
S.States	Exp3712NR2	RR2Y	3.7	30-Sep	2.0	31	2	4.0	2912	25.3
S.States	SS3910NR2	RR2	3.9	4-Oct	2.5	32	7	3.7	2660	24.9
RPM	DB3809RR	RR	3.8	3-Oct	1.3	29	1	4.3	3268	23.7
USG	73H77	RR/STS	3.7	5-Oct	2.0	28	3	4.3	2874	23.6
S.States	RT3971N	RR	3.9	1-Oct	1.7	26	6	4.0	2739	23.6
RPM	DB3509RR	RR	3.5	4-Oct	2.0	28	3	5.0	2811	21.6
S.States	SS3911NR2	RR2Y	3.9	6-Oct	1.3	25	4	3.7	3277	21.4
LSD (P=.10)				4.7	0.5	4	4	0.8	207	4.2
CV				10.1	20.7	8.7	66.7	14.1	4.9	12.2
Grand Mean				3-Oct	1.8	28	4	4.0	2957	24.2

Table 2c. Performance of Full Season Maturity Group III Entries at Warsaw, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
S.States	SS3811NR2	RR2Y	3.8	2-Oct	1.8	32	36	3.2	2566	60.4
USG	73H77	RR/STS	3.7	2-Oct	2.8	31	41	4.0	2540	60.4
S.States	LL396N	LL	3.9	3-Oct	1.2	26	56	4.5	2536	59.1
T.A. Seeds	TS3989RS	RR/STS	3.9	2-Oct	2.6	34	37	3.8	2252	57.3
S.States	SS3910NR2	RR2	3.9	1-Oct	3.1	34	43	4.0	2479	57.2
RPM	DB3509RR	RR	3.5	29-Sep	1.9	31	41	3.3	2431	56.6
S.States	RT3971N	RR	3.9	28-Sep	1.9	31	12	2.7	2591	56.2
Dyna-Gro	37RY39	RR2Y	3.9	30-Sep	1.8	30	37	3.2	2597	55.4
HiSOY	HS 39A03	RR2Y	3.9	5-Oct	1.7	28	42	3.9	2377	55.0
RPM	DB3809RR	RR	3.8	1-Oct	1.8	30	29	3.7	2697	54.8
S.States	SS3911NR2	RR2Y	3.9	1-Oct	1.5	28	31	3.7	2889	54.6
S.States	Exp3712NR2	RR2Y	3.7	30-Sep	1.7	28	25	3.4	2460	52.7
T.A. Seeds	TS3829R2	RR2Y	3.8	30-Sep	2.0	29	41	3.5	2508	50.2
NK Brand	S39-U2	RR2Y	3.9	2-Oct	1.6	26	41	4.8	2659	49.1
LSD (P=.10)				1.9	0.7	4	15	0.5	150	9.0
CV				4.5	23.7	8.3	30.1	9.5	4.2	11.6
Grand Mean				1-Oct	2.0	30	37	3.7	2542	55.6

Table 3a. Performance of Full Season Early Maturity Group IV Entries at Blackstone, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Virginia	V03-4660	CONV	4.6		1.8	33	5	1.0	2951	52.0
Progeny	P4611RY	RR2Y	4.6		1.7	37	18	3.3	2827	49.0
Mid-Atlantic	MAS4605RR	RR	4.6		1.3	37	21	2.0	2975	48.6
Mid-Atlantic	MAS4399RR/STS	RR/STS	4.3		1.8	37	6	3.3	3149	47.0
NK Brand	S46-A1	RR2Y	4.6		1.5	39	21	2.3	2654	46.9
Mid-Atlantic	MAS4304NRR2	RR2Y	4.3		1.5	42	24	2.7	2703	46.7
Progeny	P4510RY	RR2Y/STS	4.5		1.0	34	29	2.3	2822	46.4
S.States	Exp4312NR2	RR2Y	4.3		1.0	32	18	3.7	3057	45.1
Mid-Atlantic	MAS4010STS	STS	4.0		1.3	36	15	3.0	2622	42.9
S.States	LL450N	LL	4.5		2.0	39	10	4.0	3064	42.7
S.States	SS4510NR2	RR2	4.5		2.0	39	8	2.0	2996	42.3
Mid-Atlantic	MAS4003NRR2	RR2Y	4.0		1.5	38	24	3.3	2808	42.3
S.States	LL430N	LL	4.3		1.3	35	17	3.0	3106	42.2
Mid-Atlantic	MAS4444RR2	RR2Y	4.4		2.0	41	14	2.0	2910	42.2
RPM	DB4510RR	RR	4.5		2.3	42	9	3.7	3054	41.6
Mid-Atlantic	MAS4666NRR	RR	4.6		1.5	41	23	2.3	2948	39.0
S.States	RT4470N-STS	RR/STS	4.4		1.0	31	8	3.0	2625	38.6
Mid-Atlantic	MAS4077RR/STS	RR/STS	4.0		1.8	39	7	3.0	2829	33.8
S.States	RT4370N	RR	4.3		2.2	41	3	3.0	3022	33.7
LSD (P=.10)					0.5	4	10	0.8	181	7.6
CV					22.5	8.3	49.1	20.1	4.5	12.6
Grand Mean					1.6	38	15	2.8	2901	43.3

Table 3b. Performance of Full Season Early Maturity Group IV Entries at Orange, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Mid-Atlantic	MAS4666NRR	RR	4.6		1.0	24	1	2.0	3127	55.2
RPM	DB4510RR	RR	4.5		1.0	22	1	2.0	2797	53.2
HiSOY	HS41A02	RR2Y	4.1		1.0	23	1	2.7	2716	52.9
Progeny	P4611RY	RR2Y	4.6		1.0	24	1	3.0	3005	51.6
S.States	RT4370N	RR	4.3		1.0	22	2	2.3	2852	51.6
Mid-Atlantic	MAS4605RR	RR	4.6		1.0	25	0	2.0	3161	51.1
S.States	LL430N	LL	4.3		1.0	22	4	2.3	2874	51.1
Dyna-Gro	35X43	RR	4.3		1.0	24	1	2.0	3086	50.8
T.A. Seeds	TS4129R2	RR2Y	4.1		1.0	17	3	2.0	2779	50.4
Mid-Atlantic	MAS4304NRR2	RR2Y	4.3		1.0	25	2	2.0	3049	50.3
Channel	4500R2	RR2Y	4.5		1.0	21	1	2.0	2871	50.1
Mid-Atlantic	MAS4399RR/STS	RR/STS	4.3		1.0	18	0	2.0	3437	50.0
HiSOY	HS42T80	RR/STS	4.2		1.0	21	0	3.0	2605	49.9
Progeny	P4510RY	RR2Y/STS	4.5		1.0	19	2	2.0	2938	47.1
Mid-Atlantic	MAS4077RR/STS	RR/STS	4.0		1.0	24	1	2.0	2926	46.7
Mid-Atlantic	MAS4010STS	STS	4.0		1.0	23	1	2.3	2959	46.3
S.States	RT4470N-STS	RR/STS	4.4		1.0	16	2	3.3	2403	45.9
NK Brand	S44-K7	RR/STS	4.4		1.0	19	2	2.0	3077	43.7
Asgrow	AG4232	RR2Y/STS	4.2		1.0	21	0	2.0	2861	43.4
Mid-Atlantic	MAS4444RR2	RR2Y	4.4		1.0	20	2	2.0	2924	42.9
Channel	4205R2	RR2Y	4.2		1.0	18	3	2.0	2724	42.5
S.States	SS4510NR2	RR2	4.5		1.0	20	1	2.0	2800	41.6
Mid-Atlantic	MAS4003NRR2	RR2Y	4.0		1.0	22	1	2.0	3005	41.0
S.States	LL450N	LL	4.5		1.0	23	2	4.0	3242	40.7
S.States	Exp4312NR2	RR2Y	4.3		1.0	20	5	2.3	2622	39.8
Dyna-Gro	39RY43	RR2Y	4.3		1.0	19	2	2.3	2733	39.3
Asgrow	AG4130	RR2Y	4.1		1.0	19	3	2.0	3034	38.9
LSD (P=.10)					0.0	4	2	0.5	231	5.8
CV					0.0	13.1	88.8	14.8	5.8	7.2
Grand Mean					1.0	21	2	2.3	2911	47.0

Table 3c. Performance of Full Season Early Maturity Group IV Entries at Painter, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Virginia	V03-4660	CONV	4.6		1.7	40	8	2.0	2918	40.3
Mid-Atlantic	MAS4003NRR2	RR2Y	4.0		1.5	38	39	3.0	2597	39.0
T.A. Seeds	TS4129R2	RR2Y	4.1		1.8	34	44	4.3	2827	38.8
USG	74D41R	RR2Y	4.1		1.5	35	41	4.0	3076	38.7
NK Brand	S46-A1	RR2Y	4.6		1.8	39	21	2.7	2689	37.3
Progeny	P4510RY	RR2Y/STS	4.5		1.7	37	35	3.7	2778	36.9
Asgrow	AG4531	RR2Y/STS	4.5		1.5	38	45	3.7	2754	36.5
Mid-Atlantic	MAS4010STS	STS	4.0		1.7	41	32	3.3	2985	36.1
USG	74B58	RR/STS	4.5		1.7	31	38	4.7	2646	35.8
HiSOY	HS41A02	RR2Y	4.1		2.2	43	34	4.0	3077	35.5
Channel	4500R2	RR2Y	4.5		1.7	32	33	4.0	2963	35.3
Asgrow	AG4632	RR2Y	4.6		1.7	40	31	3.3	3004	34.5
Progeny	P4611RY	RR2Y	4.6		1.5	38	24	3.7	3072	34.1
RPM	DB4510RR	RR	4.5		1.7	45	36	3.7	3068	34.0
Mid-Atlantic	MAS4605RR	RR	4.6		1.5	41	46	4.0	2827	33.3
Mid-Atlantic	MAS4399RR/STS	RR/STS	4.3		3.0	39	33	3.7	3115	33.2
USG	74A69R	RR2Y	4.6		1.5	38	32	3.7	3018	33.0
NK Brand	S44-K7	RR/STS	4.4		1.5	34	30	4.0	3384	32.8
Asgrow	AG4130	RR2Y	4.1		1.5	36	33	4.3	2979	32.6
Mid-Atlantic	MAS4077RR/STS	RR/STS	4.0		1.8	38	34	4.3	2883	32.3
Mid-Atlantic	MAS4444RR2	RR2Y	4.4		1.8	45	23	3.7	2802	32.0
Mid-Atlantic	MAS4304NRR2	RR2Y	4.3		1.7	44	29	3.7	3117	31.6
Mid-Atlantic	MAS4666NRR	RR	4.6		1.5	41	32	3.0	3229	31.6
Channel	4205R2	RR2Y	4.2		1.7	39	37	3.7	2811	30.4
USG	74F11	RR2Y	4.1		1.5	38	23	3.3	3693	30.4
Dyna-Gro	35X43	RR	4.3		2.2	34	39	4.3	3292	30.3
USG	74A27	RR/STS	4.2		1.5	34	24	3.7	3274	30.2
Asgrow	AG4232	RR2Y/STS	4.2		1.8	43	33	4.3	3125	28.4
Stine	46LC83	LL	4.6		1.5	38	38	4.3	3260	28.4
Dyna-Gro	39RY43	RR2Y	4.3		1.5	35	43	4.0	3235	27.9
HiSOY	HS42T80	RR/STS	4.2		2.2	37	23	4.0	2994	27.6
LSD (P=.10)					0.5	6	9	0.7	253	6.1
CV					20.5	11.0	20.9	14.3	6.2	13.3
Grand Mean					1.7	38	33	3.7	3016	33.5

Table 3d. Performance of Full Season Early Maturity Group IV Entries at Suffolk, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Progeny	P4611RY	RR2Y	4.6	18-Oct	2.0	31	4	4.0	2534	36.1
Progeny	P4510RY	RR2Y/STS	4.5	22-Oct	1.7	27	9	2.3	2450	34.6
Asgrow	AG4531	RR2Y/STS	4.5	19-Oct	1.8	26	9	2.3	2449	34.4
Mid-Atlantic	MAS4010STS	STS	4.0	18-Oct	2.0	31	8	4.0	2586	34.4
USG	74D41R	RR2Y	4.1	19-Oct	1.8	25	8	3.3	2614	33.0
S.States	RT4470N-STS	RR/STS	4.4	15-Oct	1.7	25	10	4.3	2341	32.7
USG	74A69R	RR2Y	4.6	22-Oct	1.8	27	18	3.0	2366	32.3
Mid-Atlantic	MAS4304NRR2	RR2Y	4.3	15-Oct	2.0	35	7	3.3	2800	31.4
Mid-Atlantic	MAS4605RR	RR	4.6	15-Oct	1.8	30	18	3.7	2452	31.4
Mid-Atlantic	MAS4444RR2	RR2Y	4.4	19-Oct	2.2	29	12	3.3	2537	30.8
RPM	DB4510RR	RR	4.5	15-Oct	1.8	30	9	3.7	2750	30.0
Asgrow	AG4632	RR2Y	4.6	15-Oct	2.0	29	10	4.0	2649	29.2
Dyna-Gro	39RY43	RR2Y	4.3	13-Oct	1.8	28	9	3.7	2832	29.0
Mid-Atlantic	MAS4003NRR2	RR2Y	4.0	19-Oct	1.5	27	8	4.0	2362	28.3
NK Brand	S46-A1	RR2Y	4.6	18-Oct	2.0	29	8	3.0	2493	28.2
Virginia	V03-4660	CONV	4.6	19-Oct	2.2	25	4	2.0	2938	28.1
S.States	Exp4312NR2	RR2Y	4.3	16-Oct	1.3	26	9	4.3	2868	27.6
Mid-Atlantic	MAS4666NRR	RR	4.6	15-Oct	1.3	29	15	3.3	2551	27.5
Dyna-Gro	35X43	RR	4.3	11-Oct	2.3	31	7	3.7	3180	27.4
Mid-Atlantic	MAS4399RR/STS	RR/STS	4.3	18-Oct	2.0	28	12	4.0	1884	26.9
USG	74B58	RR/STS	4.5	19-Oct	2.3	25	5	4.3	2318	26.7
S.States	SS4510NR2	RR2	4.5	12-Oct	2.2	30	13	3.0	2703	26.6
S.States	LL450N	LL	4.5	14-Oct	2.0	32	8	4.7	2907	26.2
USG	74F11	RR2Y	4.1	11-Oct	2.0	28	4	3.0	3328	26.2
USG	74A27	RR/STS	4.2	12-Oct	1.7	26	2	3.0	3168	25.2
S.States	LL430N	LL	4.3	13-Oct	2.0	30	7	3.0	3072	24.3
Stine	46LC83	LL	4.6	15-Oct	1.8	32	12	4.0	2863	24.2
S.States	RT4370N	RR	4.3	14-Oct	2.5	31	1	3.3	3001	21.6
Mid-Atlantic	MAS4077RR/STS	RR/STS	4.0	18-Oct	1.8	30	3	4.3	3049	20.7
LSD (P=.10)				3.4	0.4	3	7	0.7	386	4.8
CV				16.1	16.4	6.5	56.9	13.9	10.5	12.3
Grand Mean				16-Oct	1.9	29	9	3.5	2691	28.8

Table 3e. Performance of Full Season Early Maturity Group IV Entries at Warsaw, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Asgrow	AG4130	RR2Y	4.1	2-Oct	2.8	36	39	4.3	2781	82.7
Asgrow	AG4632	RR2Y	4.6	10-Oct	2.7	38	10	2.4	2615	82.4
USG	74D41R	RR2Y	4.1	8-Oct	2.2	34	9	2.3	2855	82.4
Progeny	P4510RY	RR2Y/STS	4.5	7-Oct	2.8	36	14	2.8	2721	81.2
Mid-Atlantic	MAS4605RR	RR	4.6	8-Oct	2.6	39	3	2.4	2635	80.8
USG	74A69R	RR2Y	4.6	6-Oct	2.9	39	9	2.7	2880	80.6
S.States	RT4470N-STS	RR/STS	4.4	5-Oct	2.2	32	26	3.8	2250	80.6
Mid-Atlantic	MAS4003NRR2	RR2Y	4.0	8-Oct	2.1	36	5	2.1	2588	80.5
Channel	4500R2	RR2Y	4.5	7-Oct	2.6	36	6	2.5	2874	80.1
Asgrow	AG4531	RR2Y/STS	4.5	6-Oct	2.6	36	10	2.6	2804	79.8
T.A. Seeds	TS4129R2	RR2Y	4.1	3-Oct	2.8	36	33	3.8	2744	79.6
Dyna-Gro	39RY43	RR2Y	4.3	4-Oct	2.2	34	26	3.8	2792	79.0
Asgrow	AG4232	RR2Y/STS	4.2	5-Oct	3.5	42	22	3.6	2853	78.6
Stine	46LC83	LL	4.6	7-Oct	1.9	41	19	3.6	2803	78.3
Channel	4205R2	RR2Y	4.2	1-Oct	2.9	35	28	4.1	2520	78.3
USG	74F11	RR2Y	4.1	3-Oct	2.2	37	21	3.6	3162	78.0
Mid-Atlantic	MAS4666NRR	RR	4.6	9-Oct	2.7	40	3	1.9	2755	77.3
Dyna-Gro	35X43	RR	4.3	6-Oct	4.0	38	20	3.6	2792	77.1
S.States	Exp4312NR2	RR2Y	4.3	6-Oct	2.0	34	27	4.2	2681	76.4
Progeny	P4611RY	RR2Y	4.6	8-Oct	2.0	36	9	2.9	2605	76.3
S.States	LL430N	LL	4.3	9-Oct	3.3	39	28	4.2	2529	76.2
NK Brand	S46-A1	RR2Y	4.6	5-Oct	2.7	41	4	2.5	2714	76.0
Mid-Atlantic	MAS4010STS	STS	4.0	7-Oct	2.3	35	12	2.8	2754	75.9
Mid-Atlantic	MAS4304NRR2	RR2Y	4.3	9-Oct	2.4	41	9	2.9	2866	75.1
NK Brand	S44-K7	RR/STS	4.4	2-Oct	2.4	36	28	4.1	2978	74.9
Mid-Atlantic	MAS4444RR2	RR2Y	4.4	7-Oct	3.0	44	8	2.7	2552	74.5
USG	74A27	RR/STS	4.2	5-Oct	1.7	30	38	4.3	2660	73.4
S.States	RT4370N	RR	4.3	4-Oct	3.0	39	19	3.8	2596	71.8
Mid-Atlantic	MAS4399RR/STS	RR/STS	4.3	4-Oct	4.2	38	10	2.9	3154	71.7
Mid-Atlantic	MAS4077RR/STS	RR/STS	4.0	1-Oct	2.5	36	31	4.2	2547	71.7
RPM	DB4510RR	RR	4.5	10-Oct	3.9	42	16	3.5	2528	71.0
USG	74B58	RR/STS	4.5	4-Oct	2.3	32	23	3.5	2324	71.0
HiSOY	HS42T80	RR/STS	4.2	2-Oct	3.0	33	16	4.2	2435	70.7
S.States	SS4510NR2	RR2	4.5	8-Oct	2.9	41	11	3.3	2443	70.0
S.States	LL450N	LL	4.5	5-Oct	3.3	42	35	4.7	2664	69.9
HiSOY	HS41A02	RR2Y	4.1	6-Oct	2.6	38	18	3.5	2480	68.7
Virginia	V03-4660	CONV	4.6	10-Oct	3.4	33	0	1.5	3222	68.3
LSD (P=.10)				2.3	0.7	4	8	0.4	164	6.4
CV				4.8	18.1	7.5	33.5	9.2	4.4	6.1
Grand Mean				6-Oct	2.7	37	17	3.3	2707	76.2

Table 3f. Performance of Double-Crop Early Maturity Group IV Entries at Blackstone, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Virginia	V03-4660	CONV	4.6		1.3	30	0	2.0	3069	59.5
RPM	DB4510RR	RR	4.5		1.2	28	2	2.0	2544	50.2
S.States	LL450N	LL	4.5		1.0	27	10	2.7	2470	48.0
S.States	LL430N	LL	4.3		1.2	24	7	2.0	2459	46.3
S.States	RT4470N-STS	RR/STS	4.4		1.0	27	4	2.7	2137	46.1
S.States	RT4370N	RR	4.3		1.0	32	5	2.0	2500	46.0
S.States	Exp4312NR2	RR2Y	4.3		1.0	25	7	2.0	2505	44.5
S.States	SS4510NR2	RR2	4.5		1.0	31	1	1.7	2555	43.0
LSD (P=.10)					0.3	6	4	0.5	218	4.3
CV					20.1	15.2	54.3	16.6	6.0	6.2
Grand Mean					1.1	28	5	2.1	2530	47.9

Table 3g. Performance of Double-Crop Early Maturity Group IV Entries at Orange, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
RPM	DB4510RR	RR	4.5		2.7	47	0	2.3	2671	64.3
Dyna-Gro	39RY43	RR2Y	4.3		1.8	38	0	2.7	2571	61.8
Channel	4605R2	RR2Y/STS	4.6		2.7	46	0	2.3	2610	60.3
S.States	Exp4312NR2	RR2Y	4.3		2.2	40	0	2.3	2532	59.6
T.A. Seeds	TS4499R2	RR2Y	4.4		1.8	41	1	3.3	2461	58.5
Dyna-Gro	35X43	RR	4.3		2.2	43	0	3.0	2751	57.3
S.States	SS4510NR2	RR2	4.5		1.8	38	2	2.0	2693	56.7
Asgrow	AG4232	RR2Y/STS	4.2		2.2	39	0	2.0	2995	55.2
Asgrow	AG4130	RR2Y	4.1		2.2	41	0	2.7	2931	54.0
Asgrow	AG4531	RR2Y/STS	4.5		2.0	40	0	2.0	2649	53.5
S.States	RT4370N	RR	4.3		2.0	47	0	3.0	2661	52.4
T.A. Seeds	TS4129R2	RR2Y	4.1		1.7	42	2	2.7	2715	51.5
Asgrow	AG4632	RR2Y	4.6		2.7	39	0	2.0	3120	50.5
S.States	RT4470N-STS	RR/STS	4.4		1.8	37	0	3.3	2119	49.6
S.States	LL450N	LL	4.5		2.5	43	2	3.7	2787	46.4
S.States	LL430N	LL	4.3		3.7	45	0	3.0	2720	45.1
Virginia	V03-4660	CONV	4.6		4.3	45	0	2.0	3087	33.9
LSD (P=.10)					1.0	6	1.4	0.6	210	7.9
CV					29.1	10.0	196.6	15.9	5.6	10.7
Grand Mean					2.4	42	0.5	2.6	2710	53.6

Table 3h. Performance of Double-Crop Early Maturity Group IV Entries at Painter, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Stine	46LC83	LL	4.6		1.0	25	1	2.0	3034	54.7
USG	74A69R	RR2Y	4.6		1.0	24	0	1.3	2764	54.4
USG	74A27	RR/STS	4.2		1.0	20	0	1.0	2931	53.1
RPM	DB4510RR	RR	4.5		1.0	27	0	1.7	3054	52.3
USG	74A45	RR	4.4		1.0	27	0	1.3	3397	48.1
NK Brand	S46-A1	RR2Y	4.6		1.0	24	0	2.0	2720	47.6
T.A. Seeds	TS4129R2	RR2Y	4.1		1.0	19	1	2.0	2600	46.8
Asgrow	AG4232	RR2Y/STS	4.2		1.0	21	1	1.0	2963	46.3
Asgrow	AG4130	RR2Y	4.1		1.0	23	0	2.0	2864	46.0
Channel	4605R2	RR2Y/STS	4.6		1.0	24	0	1.3	2949	45.3
Asgrow	AG4531	RR2Y/STS	4.5		1.0	23	0	1.0	2730	44.9
Virginia	V03-4660	CONV	4.6		1.0	24	0	1.0	3287	44.8
USG	74B58	RR/STS	4.5		1.0	21	1	2.0	2461	44.3
Asgrow	AG4632	RR2Y	4.6		1.0	26	0	1.7	2886	43.5
Dyna-Gro	35X43	RR	4.3		1.0	20	2	1.7	2827	43.1
Dyna-Gro	39RY43	RR2Y	4.3		1.0	21	1	2.0	2780	41.2
T.A. Seeds	TS4499R2	RR2Y	4.4		1.0	19	1	2.0	2504	40.3
LSD (P=.10)					0.0	3	1	0.5	133	10.6
CV					0.0	9.6	111.9	22.3	3.3	16.3
Grand Mean					1.0	23	1	1.6	2868	46.9

Table 3i. Performance of Double-Crop Early Maturity Group IV Entries at Suffolk, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Asgrow	AG4632	RR2Y	4.6	21-Oct	3.8	48	3	2.0	3220	54.7
Stine	46LC83	LL	4.6	13-Oct	3.3	51	3	2.0	3215	52.7
USG	74A69R	RR2Y	4.6	20-Oct	3.5	46	1	2.0	2853	51.7
Asgrow	AG4531	RR2Y/STS	4.5	21-Oct	3.3	48	0	2.0	3022	50.7
RPM	DB4510RR	RR	4.5	18-Oct	4.0	54	2	2.0	3480	49.3
Virginia	V03-4660	CONV	4.6	22-Oct	4.5	40	2	2.0	3349	48.7
S.States	LL430N	LL	4.3	18-Oct	4.0	47	2	2.3	3048	48.7
S.States	SS4510NR2	RR2	4.5	20-Oct	3.3	53	0	2.0	3001	47.3
S.States	RT4370N	RR	4.3	18-Oct	3.5	55	3	2.0	3244	47.1
NK Brand	S46-A1	RR2Y	4.6	22-Oct	4.3	46	0	2.3	3061	44.8
USG	74A45	RR	4.4	15-Oct	3.8	54	2	2.0	3383	44.8
S.States	Exp4312NR2	RR2Y	4.3	21-Oct	4.0	44	5	2.0	3065	44.5
USG	74A27	RR/STS	4.2	25-Oct	4.0	36	1	2.0	3149	41.3
S.States	RT4470N-STS	RR/STS	4.4	20-Oct	2.8	39	6	3.3	2873	39.5
S.States	LL450N	LL	4.5	25-Oct	3.3	53	4	3.0	2775	38.1
USG	74B58	RR/STS	4.5	25-Oct	4.3	42	6	3.7	2957	33.6
LSD (P=.10)				5.1	0.9	7	3	0.4	278	9.5
CV				18.6	14.0	8.0	89.1	12.9	6.5	14.9
Grand Mean				20-Oct	3.7	47	3	2.3	3106	46.1

Table 3j. Performance of Double-Crop Early Maturity Group IV Entries at Warsaw, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Dyna-Gro	39RY43	RR2Y	4.3	19-Oct	1.3	36	1	1.7	2586	65.5
Asgrow	AG4232	RR2Y/STS	4.2	19-Oct	1.8	38	0	1.4	2757	64.7
USG	74A69R	RR2Y	4.6	20-Oct	2.2	36	1	1.5	2552	64.5
Channel	4605R2	RR2Y/STS	4.6	21-Oct	2.5	42	1	1.6	2695	64.4
S.States	SS4510NR2	RR2	4.5	21-Oct	2.0	42	1	1.7	2530	62.8
Dyna-Gro	35X43	RR	4.3	20-Oct	2.7	36	1	1.9	2678	62.1
Asgrow	AG4130	RR2Y	4.1	19-Oct	1.7	37	1	1.8	2698	61.1
S.States	LL430N	LL	4.3	20-Oct	2.3	36	2	1.8	2733	60.9
RPM	DB4510RR	RR	4.5	21-Oct	2.5	40	2	1.7	2803	60.5
NK Brand	S46-A1	RR2Y	4.6	21-Oct	2.5	40	1	1.7	2518	60.4
S.States	Exp4312NR2	RR2Y	4.3	20-Oct	1.3	35	0	1.8	2620	60.4
USG	74A45	RR	4.4	19-Oct	2.8	42	1	1.6	3348	60.2
S.States	RT4370N	RR	4.3	17-Oct	2.7	40	0	1.4	2763	59.7
T.A. Seeds	TS4129R2	RR2Y	4.1	20-Oct	1.8	36	1	1.9	2771	59.3
USG	74A27	RR/STS	4.2	19-Oct	1.5	34	1	1.4	2780	59.0
Stine	46LC83	LL	4.6	19-Oct	1.8	40	2	1.6	2775	58.7
S.States	LL450N	LL	4.5	18-Oct	2.5	42	1	2.0	2590	58.6
S.States	RT4470N-STS	RR/STS	4.4	19-Oct	1.5	33	2	1.7	2216	57.8
USG	74B58	RR/STS	4.5	20-Oct	1.7	31	1	1.6	2230	57.7
Virginia	V03-4660	CONV	4.6	27-Oct	4.2	37	0	1.7	3088	56.5
T.A. Seeds	TS4499R2	RR2Y	4.4	19-Oct	1.5	36	2	1.7	2474	55.7
LSD (P=.10)				1.1	0.7	2	2	0.2	185	4.1
CV				1.7	22.7	4.3	113.6	9.4	5.0	4.9
Grand Mean				20-Oct	2.1	38	1	1.7	2676	60.5

Table 4a. Performance of Full Season Late Maturity Group IV Entries at Blackstone, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Progeny	P4911RY	RR2Y	4.9		1.7	42	5	2.0	2723	50.6
Progeny	P4928LL	LL	4.9		1.7	40	13	2.0	2519	49.1
N.Carolina	NCC05-1168	CONV	4.9		2.3	41	39	2.7	3015	48.3
S.States	LL491N	LL	4.9		1.7	38	51	2.3	2785	46.4
Public	Hanover	CONV	4.9		2.0	39	4	2.0	2577	46.3
S.States	LL499N	LL	4.9		1.3	39	27	2.0	2624	46.1
Public	V04-1022	CONV	4.9		1.8	37	2	2.0	2571	46.0
S.States	SS4711NR2	RR2Y	4.7		2.3	44	41	3.7	2821	42.6
N.Carolina	NCC05-1261	CONV	4.9		2.0	38	37	3.0	2994	42.2
Asgrow	AG4903	RR/STS	4.9		2.2	38	34	2.0	2895	39.2
S.States	RT4808N-STS	RR/STS	4.8		2.5	39	35	3.7	2921	39.0
S.States	SS4700R2	RR2	4.7		1.8	38	29	3.0	2919	38.0
Progeny	P4811RY	RR2Y	4.8		2.7	43	46	4.0	2677	37.5
Progeny	P4710RY	RR2Y/STS	4.7		1.8	36	41	2.7	2777	37.5
Progeny	P4807RR	RR	4.8		1.8	41	35	3.0	2869	35.5
Progeny	P4750RR	RR	4.7		2.0	40	41	3.0	3007	34.8
Arkansas	UA4910	CONV	4.9		1.8	36	49	2.7	3016	34.8
Progeny	P4906RR	RR	4.9		2.3	44	45	3.0	3129	34.4
Pioneer	94Y90	RR	4.9		2.0	42	30	3.7	2919	33.2
NK Brand	S47-R3	RR	4.7		2.7	42	39	3.7	3105	31.9
Pioneer	94Y70	RR	4.7		2.3	42	25	4.0	2893	28.0
S.States	RT4996N-STS	RR/STS	4.9		2.0	43	29	3.0	3016	27.8
LSD (P=.10)					0.6	3	10	0.5	150	8.4
CV					19.9	6.1	22.0	12.6	3.8	15.6
Grand Mean					2.0	40	32	2.9	2853	39.5

Table 4b. Performance of Full Season Late Maturity Group IV Entries at Orange, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Progeny	P4710RY	RR2Y/STS	4.7		1.0	29	0	1.0	2848	76.1
S.States	SS4700R2	RR2	4.7		1.0	27	0	1.0	2780	70.3
S.States	SS4711NR2	RR2Y	4.7		1.0	34	0	1.7	2816	68.8
Progeny	P4807RR	RR	4.8		1.0	27	0	1.3	2920	67.2
Channel	4705R2	RR2Y	4.7		1.0	30	1	1.3	2734	66.9
Pioneer	94Y90	RR	4.9		1.0	30	1	1.7	2762	64.3
S.States	RT4996N-STS	RR/STS	4.9		1.0	28	1	1.0	3077	63.1
S.States	LL499N	LL	4.9		1.0	29	1	1.0	3589	62.0
S.States	RT4808N-STS	RR/STS	4.8		1.0	27	1	1.3	3096	62.0
Asgrow	AG4903	RR/STS	4.9		1.0	26	0	1.0	2884	60.1
N.Carolina	NCC05-1261	CONV	4.9		1.0	24	0	1.0	3915	60.1
N.Carolina	NCC05-1168	CONV	4.9		1.0	24	1	1.0	3557	59.9
Progeny	P4928LL	LL	4.9		1.0	28	0	1.0	3940	59.2
Progeny	P4911RY	RR2Y	4.9		1.0	29	0	1.0	3608	58.9
Arkansas	UA4910	CONV	4.9		1.0	23	0	1.3	3324	58.4
S.States	LL491N	LL	4.9		1.0	25	2	1.0	3630	57.5
HiSOY	HS47R90	RR	4.7		1.0	28	1	2.0	2934	57.0
Progeny	P4750RR	RR	4.7		1.0	27	0	1.3	3048	53.9
Progeny	P4906RR	RR	4.9		1.0	25	0	1.0	3488	51.0
Progeny	P4811RY	RR2Y	4.8		1.0	27	1	1.7	3039	50.0
Pioneer	94Y70	RR	4.7		1.0	31	3	2.0	2811	48.0
HiSOY	HS476	RR/STS	4.7		1.0	23	1	1.7	3330	40.8
LSD (P=.10)					0.0	4	1	0.5	233	11.7
CV					0.0	10.5	131.0	27.3	5.3	14.1
Grand Mean					1.0	27	1	1.3	3188	59.8

Table 4c. Performance of Full Season Late Maturity Group IV Entries at Painter, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
N.Carolina	NCC05-1261	CONV	4.9		2.2	40	16	2.0	2981	49.3
Progeny	P4911RY	RR2Y	4.9		1.3	46	7	2.0	2987	41.3
Public	V04-1022	CONV	4.9		1.3	42	6	3.0	2723	41.1
USG	74F96	RR	4.9		1.0	40	11	2.3	2780	40.7
N.Carolina	NCC05-1168	CONV	4.9		1.0	40	17	3.0	3078	40.6
Asgrow	AG4903	RR/STS	4.9		1.0	39	13	2.7	2908	40.3
Arkansas	UA4910	CONV	4.9		1.0	37	25	2.3	3002	39.4
Progeny	P4710RY	RR2Y/STS	4.7		1.0	39	12	3.0	3085	38.4
Public	Hanover	CONV	4.9		2.2	36	7	2.0	2968	38.1
USG	7495nRS	RR/STS	4.9		1.5	39	10	2.0	1842	37.9
Asgrow	AG4730	RR2Y/STS	4.7		1.8	39	25	3.7	3009	37.7
USG	74A79R	RR2Y/STS	4.7		1.0	35	17	3.7	2671	37.7
Dyna-Gro	37RY47	RR2Y/STS	4.7		1.0	40	27	3.3	2738	37.2
Progeny	P4928LL	LL	4.9		1.0	34	17	2.3	2888	35.8
USG	74B81R	RR2Y	4.8		1.0	42	28	4.0	3067	35.5
NK Brand	S47-R3	RR	4.7		1.0	41	22	3.3	3200	35.1
Channel	4705R2	RR2Y	4.7		1.0	45	31	4.0	2908	35.0
Pioneer	94Y90	RR	4.9		1.8	47	21	3.7	2934	34.9
Progeny	P4811RY	RR2Y	4.8		1.0	45	25	4.0	2874	34.5
Asgrow	AG4832	RR2Y	4.8		1.3	44	27	3.3	3014	33.9
USG	74G99L	LL	4.9		1.0	35	13	2.3	2972	33.7
Stine	48RC32	RR2Y	4.8		1.7	37	18	3.3	2740	33.6
Progeny	P4750RR	RR	4.7		1.0	40	22	3.0	2889	33.0
Asgrow	AG4732	RR2Y	4.7		1.5	42	21	3.7	2987	31.2
Pioneer	94Y70	RR	4.7		1.0	41	25	4.7	2982	30.7
HiSOY	HS476	RR/STS	4.7		1.0	36	28	4.3	3107	30.7
Progeny	P4906RR	RR	4.9		1.0	39	10	3.0	3350	29.8
Dyna-Gro	39D48	RR	4.8		1.3	43	28	4.0	2897	29.2
HiSOY	HS47R90	RR	4.7		1.0	40	17	4.0	3532	28.4
Progeny	P4807RR	RR	4.8		1.0	43	24	3.0	3007	27.9
USG	74H81	RR	4.8		1.0	40	41	4.3	2812	27.8
LSD (P=.10)					0.7	4	12	0.6	380	5.6
CV					39.9	8.1	44.6	14.2	9.5	11.6
Grand Mean					1.2	40	20	3.2	2932	35.3

Table 4d. Performance of Full Season Late Maturity Group IV Entries at Suffolk, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
USG	74B81R	RR2Y	4.8	19-Oct	2.0	37	12	3.3	2747	62.0
Public	V04-1022	CONV	4.9	22-Oct	1.5	28	1	1.3	2503	58.6
Progeny	P4710RY	RR2Y/STS	4.7	22-Oct	1.5	31	2	2.0	2640	58.1
S.States	LL491N	LL	4.9	21-Oct	1.5	40	5	1.7	2795	48.0
Progeny	P4928LL	LL	4.9	23-Oct	1.5	34	6	1.7	2513	47.5
USG	74A79R	RR2Y/STS	4.7	22-Oct	1.8	34	6	3.0	2516	46.9
USG	74G99L	LL	4.9	23-Oct	1.7	34	6	1.7	2521	46.5
Progeny	P4807RR	RR	4.8	20-Oct	2.2	36	9	2.3	2755	46.4
N.Carolina	NCC05-1168	CONV	4.9	20-Oct	1.5	33	7	2.0	2985	46.2
Asgrow	AG4903	RR/STS	4.9	22-Oct	1.8	34	3	2.0	2394	46.1
USG	74F96	RR	4.9	22-Oct	1.7	38	3	2.0	2324	45.9
S.States	SS4700R2	RR2	4.7	20-Oct	2.0	34	4	2.0	2775	45.8
Public	Hanover	CONV	4.9	22-Oct	1.7	26	3	1.0	2727	45.4
USG	74H81	RR	4.8	17-Oct	1.8	38	13	4.0	2568	44.6
NK Brand	S47-R3	RR	4.7	22-Oct	2.2	37	6	2.0	2775	43.3
S.States	RT4808N-STS	RR/STS	4.8	19-Oct	2.0	38	10	2.7	2488	43.3
USG	7495nRS	RR/STS	4.9	22-Oct	1.7	36	4	2.0	2386	43.1
N.Carolina	NCC05-1261	CONV	4.9	22-Oct	1.8	28	7	1.7	2800	42.9
Progeny	P4750RR	RR	4.7	19-Oct	2.2	35	13	2.7	2844	42.9
Pioneer	94Y90	RR	4.9	18-Oct	1.8	35	15	4.0	2337	42.4
Asgrow	AG4732	RR2Y	4.7	19-Oct	1.5	37	12	3.3	2828	42.2
S.States	RT4996N-STS	RR/STS	4.9	22-Oct	1.8	34	4	2.0	2524	41.8
S.States	SS4711NR2	RR2Y	4.7	19-Oct	1.7	36	18	3.7	2961	41.8
Progeny	P4906RR	RR	4.9	22-Oct	2.0	35	4	2.7	2797	41.6
Dyna-Gro	37RY47	RR2Y/STS	4.7	18-Oct	1.7	30	15	2.0	2614	41.0
Pioneer	94Y70	RR	4.7	18-Oct	1.7	39	14	4.3	2693	40.6
Progeny	P4811RY	RR2Y	4.8	19-Oct	1.7	34	15	3.3	2605	40.5
Stine	48RC32	RR2Y	4.8	20-Oct	1.5	32	6	2.3	2382	40.3
Dyna-Gro	39D48	RR	4.8	18-Oct	2.0	36	27	4.0	2668	39.9
Asgrow	AG4832	RR2Y	4.8	20-Oct	2.0	36	10	3.0	2638	39.0
Progeny	P4911RY	RR2Y	4.9	20-Oct	1.7	37	3	1.7	2636	37.2
Asgrow	AG4730	RR2Y/STS	4.7	18-Oct	2.0	29	8	2.0	2768	35.9
S.States	LL499N	LL	4.9	23-Oct	1.8	35	6	2.0	2555	35.2
Arkansas	UA4910	CONV	4.9	19-Oct	1.7	32	5	1.7	2650	34.8
LSD (P=.10)				2.3	0.6	4	7	0.7	159	9.0
CV				8.6	22.9	9.3	63.9	19.5	4.4	15.0
Grand Mean				20-Oct	1.8	34	8	2.4	2639	44.0

Table 4e. Performance of Full Season Late Maturity Group IV Entries at Warsaw, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
USG	74B81R	RR2Y	4.8	9-Oct	3.2	36	2	2.6	2882	81.9
Stine	48RC32	RR2Y	4.8	8-Oct	3.2	38	1	1.9	2985	80.2
Asgrow	AG4730	RR2Y/STS	4.7	7-Oct	3.7	38	1	2.2	2923	80.1
USG	74G99L	LL	4.9	11-Oct	3.3	42	0	1.5	3228	79.7
S.States	LL491N	LL	4.9	10-Oct	3.3	42	2	1.9	2944	79.4
Channel	4705R2	RR2Y	4.7	12-Oct	3.1	39	3	2.4	2738	79.2
Dyna-Gro	39D48	RR	4.8	9-Oct	3.1	38	2	2.5	2928	78.9
Pioneer	94Y90	RR	4.9	10-Oct	3.0	41	3	2.1	2797	78.7
Progeny	P4906RR	RR	4.9	8-Oct	2.8	38	5	2.8	2777	78.2
S.States	RT4996N-STS	RR/STS	4.9	11-Oct	3.6	42	2	2.3	2701	78.0
NK Brand	S47-R3	RR	4.7	10-Oct	3.4	42	3	2.6	2827	78.0
S.States	LL499N	LL	4.9	11-Oct	2.8	40	2	2.2	2942	77.2
Asgrow	AG4903	RR/STS	4.9	9-Oct	3.2	36	0	1.8	3068	77.0
Dyna-Gro	37RY47	RR2Y/STS	4.7	9-Oct	3.3	39	4	2.2	2818	76.4
Progeny	P4811RY	RR2Y	4.8	9-Oct	2.9	42	5	2.8	2725	76.2
S.States	RT4808N-STS	RR/STS	4.8	9-Oct	2.9	37	3	2.3	2884	75.3
Asgrow	AG4732	RR2Y	4.7	8-Oct	3.6	40	4	2.8	2683	75.0
Progeny	P4807RR	RR	4.8	9-Oct	3.4	41	2	2.4	2810	74.8
HiSOY	HS47R90	RR	4.7	10-Oct	3.5	40	4	2.3	2881	74.7
USG	74H81	RR	4.8	8-Oct	3.8	37	1	2.0	3014	74.7
Progeny	P4750RR	RR	4.7	9-Oct	3.0	44	1	1.9	2971	74.6
USG	74A79R	RR2Y/STS	4.7	9-Oct	3.4	40	3	2.9	2706	73.8
S.States	SS4700R2	RR2	4.7	8-Oct	2.9	34	1	2.3	2937	73.5
HiSOY	HS476	RR/STS	4.7	10-Oct	2.4	37	1	2.1	2737	73.2
Arkansas	UA4910	CONV	4.9	8-Oct	2.4	37	1	2.5	3016	73.2
USG	7495nRS	RR/STS	4.9	12-Oct	3.3	46	1	2.1	2972	72.9
USG	74F96	RR	4.9	10-Oct	3.4	42	1	2.3	2803	72.7
Asgrow	AG4832	RR2Y	4.8	13-Oct	2.8	45	3	2.2	3008	72.5
S.States	SS4711NR2	RR2Y	4.7	10-Oct	3.1	40	5	2.7	2791	72.5
Progeny	P4911RY	RR2Y	4.9	11-Oct	3.4	44	0	2.3	2803	72.4
Progeny	P4710RY	RR2Y/STS	4.7	9-Oct	3.4	37	1	1.9	2981	72.4
Public	V04-1022	CONV	4.9	11-Oct	2.7	39	0	2.6	2838	72.1
Progeny	P4928LL	LL	4.9	9-Oct	2.2	33	0	1.8	3125	70.8
Pioneer	94Y70	RR	4.7	11-Oct	3.1	42	1	1.7	3327	70.1
N.Carolina	NCC05-1261	CONV	4.9	9-Oct	3.6	38	0	2.1	3116	69.5
Public	Hanover	CONV	4.9	12-Oct	2.6	37	1	2.0	3187	68.5
N.Carolina	NCC05-1168	CONV	4.9	11-Oct	3.1	33	2	2.2	3044	67.2
LSD (P=.10)				2.9	1.0	7	3	0.9	323	8.3
CV				5.4	22.8	13.5	124.1	28.5	8.1	8.1
Grand Mean				10-Oct	3.1	39	2	2.3	2917	75.0

Table 4f. Performance of Double-Crop Late Maturity Group IV Entries at Blackstone, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Public	Hanover	CONV	4.9		1.0	31	7	2.0	2664	55.0
S.States	LL499N	LL	4.9		1.0	26	8	3.3	2576	52.9
S.States	LL491N	LL	4.9		1.0	30	9	3.3	2534	51.8
Public	V04-1022	CONV	4.9		1.0	28	7	2.0	2905	46.4
S.States	SS4700R2	RR2	4.7		1.2	29	2	2.0	2486	44.8
Asgrow	AG4903	RR/STS	4.9		1.0	30	1	2.0	2323	44.8
S.States	SS4711NR2	RR2Y	4.7		1.0	35	9	3.3	2251	43.5
N.Carolina	NCC05-1261	CONV	4.9		1.2	33	4	3.7	2785	42.8
S.States	RT4996N-STS	RR/STS	4.9		1.0	31	8	3.0	2249	41.8
N.Carolina	NCC05-1168	CONV	4.9		1.2	33	8	3.3	2944	41.3
S.States	RT4808N-STS	RR/STS	4.8		1.0	26	3	3.3	2459	41.3
Pioneer	94Y90	RR	4.9		1.0	30	8	3.7	2310	39.1
Pioneer	94Y70	RR	4.7		1.0	27	10	3.3	2278	36.6
LSD (P=.10)					0.2	3	6	0.8	201	8.8
CV					13.4	7.2	70.2	20.4	5.7	14.0
Grand Mean					1.0	30	6	3.0	2521	44.8

Table 4g. Performance of Double-Crop Late Maturity Group IV Entries at Orange, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Asgrow	AG4730	RR2Y/STS	4.7		1.7	43	0	1.7	2568	57.8
S.States	RT4808N-STS	RR/STS	4.8		2.0	43	0	2.0	3167	51.4
Delta King	DKR4744	RR2Y/STS	4.7		1.3	38	0	2.0	2672	50.0
S.States	SS4700R2	RR2	4.7		1.5	35	0	1.0	2951	49.2
Asgrow	AG4903	RR/STS	4.9		1.3	38	0	1.3	2941	45.5
Asgrow	AG4832	RR2Y	4.8		1.7	45	1	2.0	2863	45.4
Pioneer	94Y70	RR	4.7		2.7	46	0	2.3	2631	45.0
Asgrow	AG4732	RR2Y	4.7		2.2	40	0	2.0	3062	40.8
S.States	SS4711NR2	RR2Y	4.7		2.2	43	0	2.3	3148	40.4
S.States	LL491N	LL	4.9		1.7	46	1	2.0	3175	40.1
S.States	RT4996N-STS	RR/STS	4.9		2.0	47	0	2.0	2948	39.9
Pioneer	94Y90	RR	4.9		1.7	45	0	3.0	3259	38.2
Channel	4705R2	RR2Y	4.7		2.0	45	0	2.0	3342	37.7
Public	Hanover	CONV	4.9		3.7	45	0	2.0	3136	34.7
S.States	LL499N	LL	4.9		1.7	43	0	2.0	3850	32.2
Public	V04-1022	CONV	4.9		2.3	37	0	1.7	3816	28.1
LSD (P=.10)					0.5	7	1	0.5	230	8.8
CV					19.5	11.7	244.2	16.9	5.4	15.0
Grand Mean					2.0	42	0	2.0	3096	42.3

Table 4h. Performance of Double-Crop Late Maturity Group IV Entries at Painter, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Asgrow	AG4730	RR2Y/STS	4.7		1.7	43	0	1.7	2568	57.8
S.States	RT4808N-STS	RR/STS	4.8		2.0	43	0	2.0	3167	51.4
Delta King	DKR4744	RR2Y/STS	4.7		1.3	38	0	2.0	2672	50.0
S.States	SS4700R2	RR2	4.7		1.5	35	0	1.0	2951	49.2
Asgrow	AG4903	RR/STS	4.9		1.3	38	0	1.3	2941	45.5
Asgrow	AG4832	RR2Y	4.8		1.7	45	1	2.0	2863	45.4
Pioneer	94Y70	RR	4.7		2.7	46	0	2.3	2631	45.0
Asgrow	AG4732	RR2Y	4.7		2.2	40	0	2.0	3062	40.8
S.States	SS4711NR2	RR2Y	4.7		2.2	43	0	2.3	3148	40.4
S.States	LL491N	LL	4.9		1.7	46	1	2.0	3175	40.1
S.States	RT4996N-STS	RR/STS	4.9		2.0	47	0	2.0	2948	39.9
Pioneer	94Y90	RR	4.9		1.7	45	0	3.0	3259	38.2
Channel	4705R2	RR2Y	4.7		2.0	45	0	2.0	3342	37.7
Public	Hanover	CONV	4.9		3.7	45	0	2.0	3136	34.7
S.States	LL499N	LL	4.9		1.7	43	0	2.0	3850	32.2
Public	V04-1022	CONV	4.9		2.3	37	0	1.7	3816	28.1
LSD (P=.10)					0.5	7	1	0.5	230	8.8
CV					19.5	11.7	244.2	16.9	5.4	15.0
Grand Mean					2.0	42	0	2.0	3096	42.3

Table 4i. Performance of Double-Crop Late Maturity Group IV Entries at Suffolk, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
USG	74H81	RR	4.8	20-Oct	5.0	47	0	2.3	2930	66.9
USG	74A79R	RR2Y/STS	4.7	20-Oct	4.5	43	1	2.3	2832	66.3
Asgrow	AG4732	RR2Y	4.7	19-Oct	4.8	51	0	2.0	3034	65.7
S.States	RT4808N-STS	RR/STS	4.8	19-Oct	4.7	49	0	2.3	3075	63.4
Asgrow	AG4832	RR2Y	4.8	22-Oct	3.8	51	0	2.0	2995	61.9
Dyna-Gro	39D48	RR	4.8	20-Oct	5.0	49	0	2.3	3047	61.9
Asgrow	AG4730	RR2Y/STS	4.7	22-Oct	5.0	41	0	2.0	3088	61.7
S.States	SS4700R2	RR2	4.7	19-Oct	4.5	46	0	2.0	3131	61.3
USG	74F96	RR	4.9	25-Oct	5.0	44	1	2.3	3048	61.2
Asgrow	AG4903	RR/STS	4.9	22-Oct	4.7	47	0	2.0	3007	59.5
S.States	LL491N	LL	4.9	19-Oct	3.7	47	1	2.3	3385	59.4
S.States	LL499N	LL	4.9	22-Oct	4.7	48	1	2.3	3475	59.1
Stine	48RC32	RR2Y	4.8	19-Oct	4.8	45	0	2.7	2958	58.9
USG	74G99L	LL	4.9	22-Oct	4.0	43	0	3.0	3263	58.5
Public	Hanover	CONV	4.9	25-Oct	4.8	42	0	2.0	2930	58.1
S.States	RT4996N-STS	RR/STS	4.9	20-Oct	4.7	51	0	2.3	3149	56.8
S.States	SS4711NR2	RR2Y	4.7	18-Oct	3.7	50	1	2.0	3192	56.3
Public	V04-1022	CONV	4.9	25-Oct	4.7	44	0	2.0	3084	55.1
USG	7495nRS	RR/STS	4.9	25-Oct	5.0	49	1	2.0	3043	55.1
USG	74B81R	RR2Y	4.8	25-Oct	5.0	50	0	2.7	3075	53.2
N.Carolina	NCC05-1261	CONV	4.9	22-Oct	5.0	47	2	2.5	3656	51.9
N.Carolina	NCC05-1168	CONV	4.9	20-Oct	5.0	41	0	2.0	3704	51.9
Pioneer	94Y70	RR	4.7	22-Oct	4.8	47	0	3.0	2846	51.6
Dyna-Gro	V47N8RR	RR	4.7	20-Oct	5.0	48	0	2.3	3284	51.5
Pioneer	94Y90	RR	4.9	22-Oct	4.7	47	0	3.0	3090	51.2
USG	74E88	RR/STS	4.8	17-Oct	4.3	45	0	2.3	3319	50.8
LSD (P=.10)				5.2	0.6	5	1	0.5	143	7.5
CV				18.3	10.0	7.3	217.7	17.0	3.3	9.5
Grand Mean				21-Oct	4.7	47	0	2.3	3140	58.1

Table 4j. Performance of Double-Crop Late Maturity Group IV Entries at Warsaw, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Dyna-Gro	39D48	RR	4.8	22-Oct	1.8	41	1	1.7	2809	73.6
S.States	RT4808N-STS	RR/STS	4.8	21-Oct	2.0	41	0	1.5	2898	73.0
Asgrow	AG4903	RR/STS	4.9	24-Oct	2.2	40	0	1.5	2640	71.1
USG	74A79R	RR2Y/STS	4.7	23-Oct	2.7	40	0	1.6	2407	71.1
Stine	48RC32	RR2Y	4.8	22-Oct	2.3	37	1	1.5	2628	71.0
USG	74H81	RR	4.8	20-Oct	2.3	41	0	1.5	2708	70.7
Delta King	DKR4744	RR2Y/STS	4.7	23-Oct	2.7	34	0	1.4	2520	70.6
USG	74B81R	RR2Y	4.8	21-Oct	2.0	42	0	1.5	2682	70.4
Channel	4705R2	RR2Y	4.7	22-Oct	2.5	40	0	1.4	2651	70.3
S.States	SS4700R2	RR2	4.7	24-Oct	2.7	41	0	1.5	2671	70.0
Dyna-Gro	V47N8RR	RR	4.7	22-Oct	2.0	39	0	1.3	2780	69.6
Pioneer	94Y70	RR	4.7	24-Oct	2.2	41	0	1.7	2455	69.0
USG	7495nRS	RR/STS	4.9	24-Oct	3.0	42	0	1.7	2704	68.7
S.States	SS4711NR2	RR2Y	4.7	21-Oct	2.7	43	0	1.5	2758	68.7
USG	74F96	RR	4.9	24-Oct	2.5	39	0	1.6	2715	68.0
Pioneer	94Y90	RR	4.9	24-Oct	2.5	42	1	1.8	2676	67.5
Public	Hanover	CONV	4.9	26-Oct	3.3	36	0	1.7	2922	66.9
S.States	LL499N	LL	4.9	25-Oct	2.2	39	0	1.7	3021	66.9
USG	74G99L	LL	4.9	25-Oct	2.5	40	0	1.5	3125	66.9
S.States	RT4996N-STS	RR/STS	4.9	26-Oct	2.5	42	0	1.9	2677	66.2
N.Carolina	NCC05-1168	CONV	4.9	24-Oct	3.3	36	1	1.5	3512	66.1
S.States	LL491N	LL	4.9	23-Oct	2.3	40	3	2.1	2853	65.8
N.Carolina	NCC05-1261	CONV	4.9	25-Oct	4.0	36	0	1.4	3682	63.6
USG	74E88	RR/STS	4.8	21-Oct	1.8	42	0	1.7	3076	63.6
Public	V04-1022	CONV	4.9	26-Oct	3.2	37	0	1.5	2936	62.3
LSD (P=.10)				3.53	1.0	3	1	0.3	111	5.7
CV				4.9	29.3	5.5	157.2	15.0	2.9	6.1
Grand Mean				23-Oct	2.5	40	0	1.6	2820	68.5

Table 5a. Performance of Full-Season Group V Entries at Blackstone, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Progeny	P5610RY	RR2Y	5.6		2.7	42	2	2.0	2173	68.0
Progeny	P5160LL	LL	5.1		3.0	31	1	2.0	2419	65.5
Progeny	P5460LL	LL	5.4		1.7	39	7	2.0	2552	65.5
S.States	RT5760N	RR	5.7		2.8	43	4	2.0	2421	64.0
NK Brand	S56-G6	RR	5.6		2.7	38	1	2.0	2862	63.9
N.Carolina	NCC04-1555	CONV	5.7		2.3	36	1	1.0	3089	63.0
Public	V03-3650	CONV	5.5		2.3	37	1	2.0	2569	62.4
S.States	LL590N	LL	5.9		2.0	38	2	2.0	2403	61.9
Progeny	P5210RY	RR2Y	5.2		3.0	43	6	2.3	2156	61.6
Progeny	P5655RY	RR2Y	5.6		2.5	49	6	2.0	2532	61.6
S.States	Exp5711R2	RR2Y	5.7		2.5	38	2	2.0	2226	60.7
Public	Glenn	CONV	5.3		3.2	31	6	2.0	2707	60.6
S.States	Exp5611R2	RR2Y	5.6		2.3	36	2	2.7	2488	60.4
Arkansas	Ozark	CONV	5.2		2.0	38	1	2.3	2341	60.2
S.States	LL511N	LL	5.1		2.7	33	4	2.0	2527	60.0
Progeny	P5330RR	RR	5.3		2.8	42	2	2.0	2302	59.7
Pioneer	95Y71	RR	5.7		2.3	37	3	2.0	2572	58.8
Progeny	P5711RY	RR2Y	5.7		2.3	42	3	2.0	2155	58.2
Public	Hanover	CONV	4.9		2.3	36	3	2.0	2490	58.1
Pioneer	95M82	RR	5.8		2.0	39	2	2.0	2647	57.5
Asgrow	AG5632	RR2Y/STS	5.6		2.0	39	1	2.0	2931	57.4
S.States	ExpLL501N	LL	5.0		1.8	38	7	2.0	2454	57.3
Arkansas	R04-357	CONV	5.6		2.8	40	4	2.3	2782	57.2
USDA-ARS	JTN-5203	CONV	0.0		2.0	33	5	2.0	2832	57.2
NK Brand	S51-J3	RR2Y	5.1		2.0	40	10	2.0	2513	56.9
Progeny	P5261LL	LL	5.2		2.0	39	1	2.0	2596	56.7
S.States	Exp5311NR2	RR2Y	5.3		2.0	45	3	2.0	2407	56.0
S.States	Exp5111R2	RR2Y	5.1		1.8	43	2	2.0	2808	55.7
S.States	Exp5312NR2	RR2Y	5.3		2.2	41	7	2.7	2600	55.5
Public	Hutcheson	CONV	5.7		2.0	34	3	2.0	2539	55.4
Asgrow	AG5332	RR2Y	5.3		2.8	37	47	2.7	2650	53.4
S.States	LL595N	LL	5.9		2.0	37	1	2.0	2834	53.3
S.States	SS5510NR2	RR2	5.5		1.7	37	2	2.0	2518	53.2
Progeny	P5811RY	RR2Y	5.8		2.0	36	3	2.0	2386	52.9
S.States	RT5160N-STS	RR/STS	5.1		2.3	39	5	2.0	2517	51.9
S.States	LL540N	LL	5.4		2.0	41	2	2.0	2591	51.7
Progeny	P5111RY	RR2Y	5.1		2.3	42	9	2.0	2874	51.5
Progeny	P5321RY	RR2Y	5.3		1.8	47	1	2.0	2450	51.3
S.States	RT5471N-STS	RR/STS	5.4		2.0	39	1	2.0	2753	51.1
Asgrow	AG5605	RR/STS	5.6		2.3	39	3	2.0	3268	50.9
RPM	DB5511RS	RR/STS	5.5		1.7	40	2	1.3	2881	50.3
S.States	Exp5112NR2	RR2Y	5.1		2.5	43	10	2.0	2856	50.1
Arkansas	Osage	CONV	5.6		1.8	32	2	2.0	3016	46.3
LSD (P=.10)					0.5	4	3	0.3	127	10.0
CV					16.1	6.5	51.6	11.5	3.6	12.8
Grand Mean					2.3	39	4	2.0	2597	57.3

Table 5b. Performance of Full-Season Group V Entries at Orange, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Progeny	P5711RY	RR2Y	5.7				0	1.0	3016	54.8
Progeny	P5610RY	RR2Y	5.6				0	1.0	2749	54.8
RPM	DB5511RS	RR/STS	5.5				0	0.7	3371	54.4
N.Carolina	NCC04-1555	CONV	5.7				0	1.0	3766	53.5
Public	V03-3650	CONV	5.5				0	2.0	3529	52.5
Progeny	P5111RY	RR2Y	5.1				0	1.7	3467	52.0
Arkansas	R04-357	CONV	5.6				0	1.3	3467	49.8
Asgrow	AG5605	RR/STS	5.6				0	1.0	4118	49.7
Progeny	P5321RY	RR2Y	5.3				0	1.0	3234	49.5
Pioneer	95Y71	RR	5.7				0	1.0	3563	49.3
Progeny	P5811RY	RR2Y	5.8				0	1.0	3082	49.3
Progeny	P5330RR	RR	5.3				0	1.0	3133	48.5
Progeny	P5210RY	RR2Y	5.2				0	1.7	3077	48.2
T.A. Seeds	TS5029R2	RR2Y	5.9				0	1.3	3153	47.4
USDA-ARS	JTN-5203	CONV	0.0				0	1.7	3576	46.2
Pioneer	95M82	RR	5.8				0	1.0	3150	46.2
Progeny	P5655RY	RR2Y	5.6				0	1.0	3388	44.6
Public	Hanover	CONV	4.9				0	1.3	3168	44.1
Arkansas	Osage	CONV	5.6				0	1.0	3468	43.3
Arkansas	Ozark	CONV	5.2				0	2.0	3045	40.5
LSD (P=.10)							0	0.4	294	11.3
CV							793.7	25.8	6.4	13.4
Grand Mean							0	1.2	3320	49.0

Table 5c. Performance of Full-Season Group V Entries at Painter, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Progeny	P5711RY	RR2Y	5.7		1.7	42	3	2.3	2369	48.0
N.Carolina	NCC04-1555	CONV	5.7		1.7	38	2	2.0	3213	47.3
Arkansas	R04-357	CONV	5.6		3.2	45	2	2.0	3052	46.4
Progeny	P5160LL	LL	5.1		2.7	36	2	2.0	2791	46.4
Public	Hutcheson	CONV	5.7		3.0	37	5	2.3	2672	45.6
NK Brand	S56-G6	RR	5.6		1.5	41	0	1.7	2906	45.5
Stine	58LC23	LL	5.8		2.3	49	3	2.0	2747	44.4
Stine	6202-4	RR	6.2		1.0	43	1	2.0	2746	43.7
Arkansas	Ozark	CONV	5.2		1.7	43	2	2.3	2595	43.5
Progeny	P5655RY	RR2Y	5.6		1.5	49	8	2.0	2675	43.3
Stine	51LA02	LL	5.1		2.2	32	3	2.0	2664	42.8
Progeny	P5610RY	RR2Y	5.6		1.7	48	0	2.3	2339	42.4
Dyna-Gro	32RY55	RR2Y	5.5		1.0	43	3	2.3	2338	42.0
Asgrow	AG5632	RR2Y/STS	5.6		1.0	41	4	2.0	2910	41.6
Public	Hanover	CONV	4.9		1.7	35	0	2.0	2826	41.5
Progeny	P5330RR	RR	5.3		1.0	40	2	2.3	2462	40.8
Asgrow	AG5605	RR/STS	5.6		1.5	38	5	2.0	3117	40.5
USG	7553nRS	RR/STS	5.5		1.7	38	2	2.0	3250	40.3
Armor	53-R15	RR2Y	5.3		1.7	41	4	2.7	2442	40.3
Pioneer	95M82	RR	5.8		1.0	41	1	2.0	2680	39.8
Progeny	P5811RY	RR2Y	5.8		1.0	37	4	2.3	2635	39.7
Progeny	P5261LL	LL	5.2		1.0	39	3	2.0	2918	39.3
Stine	58LA02	LL	5.8		1.0	37	1	2.0	3034	39.0
Public	V03-3650	CONV	5.5		2.7	37	4	2.0	2809	38.8
USG	75B21R	RR2Y	5.2		1.0	42	5	2.0	2917	38.7
RPM	DB5511RS	RR/STS	5.5		1.0	41	3	2.3	2758	38.4
Public	Glenn	CONV	5.3		2.5	35	7	2.0	2764	37.9
Progeny	P5210RY	RR2Y	5.2		1.7	40	4	3.0	2457	37.0
Channel	5305R2	RR2Y	5.3		1.7	39	3	2.7	2407	36.2
Arkansas	Osage	CONV	5.6		1.7	33	4	2.0	2743	35.8
NK Brand	S51-J3	RR2Y	5.1		1.0	38	11	2.0	2702	35.7
Progeny	P5111RY	RR2Y	5.1		1.0	42	8	2.3	2943	35.2
USDA-ARS	JTN-5203	CONV	0.0		1.7	37	5	2.0	2838	35.1
Pioneer	95Y71	RR	5.7		1.0	39	5	2.0	2677	35.0
T.A. Seeds	TS5029R2	RR2Y	5.9		1.7	46	8	2.0	3017	34.5
Dyna-Gro	32A53	RR	5.3		1.7	42	1	2.3	2431	34.4
Asgrow	AG5332	RR2Y	5.3		4.3	34	11	2.7	2657	33.7
Progeny	P5460LL	LL	5.4		1.0	44	8	2.7	3010	33.4
Progeny	P5321RY	RR2Y	5.3		1.7	43	8	2.3	2941	33.1
Dyna-Gro	35RY51	RR2Y	5.1		1.8	48	7	2.0	2931	32.4
LSD (P=.10)					1.7	5	4	0.5	133	7.9
CV					73.4	8.8	67.2	16.7	3.5	14.6
Grand Mean					1.7	40	4	2.2	2760	39.7

Table 5d. Performance of Full-Season Group V Entries at Suffolk, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
S.States	Exp5311NR2	RR2Y	5.3	23-Oct	2.2	44	3	2.0	2585	61.7
Public	Glenn	CONV	5.3	24-Oct	1.7	31	3	1.7	2547	60.9
S.States	Exp5711R2	RR2Y	5.7	25-Oct	2.0	35	0	1.7	2197	59.9
S.States	RT5760N	RR	5.7	25-Oct	2.2	38	0	2.0	2504	56.8
Progeny	P5160LL	LL	5.1	22-Oct	2.0	24	0	2.0	2794	56.6
Stine	6202-4	RR	6.2	29-Oct	2.0	34	0	1.0	2701	56.3
Progeny	P5610RY	RR2Y	5.6	26-Oct	1.8	33	0	2.0	2179	56.1
S.States	Exp5312NR2	RR2Y	5.3	23-Oct	2.0	36	3	2.3	2492	55.3
Dyna-Gro	32RY55	RR2Y	5.5	25-Oct	2.0	32	0	2.0	2170	54.3
Arkansas	R04-357	CONV	5.6	25-Oct	1.8	31	3	3.0	2645	54.0
S.States	LL511N	LL	5.1	22-Oct	1.5	30	1	1.3	2735	54.0
S.States	LL590N	LL	5.9	25-Oct	1.8	37	1	2.0	2625	53.9
NK Brand	S56-G6	RR	5.6	27-Oct	2.2	30	0	1.3	2769	53.8
S.States	Exp5611R2	RR2Y	5.6	25-Oct	1.7	31	1	2.0	2538	53.8
Arkansas	Osage	CONV	5.6	25-Oct	2.2	28	0	1.3	2864	53.6
Pioneer	95M82	RR	5.8	25-Oct	2.0	37	0	1.0	2572	53.6
Progeny	P5711RY	RR2Y	5.7	29-Oct	2.2	34	0	1.3	2198	53.4
Arkansas	Ozark	CONV	5.2	25-Oct	2.2	37	0	2.0	2346	53.1
Pioneer	95Y71	RR	5.7	25-Oct	1.7	31	2	2.0	2514	52.8
NK Brand	S51-J3	RR2Y	5.1	22-Oct	1.8	35	4	1.7	2519	52.7
Armor	53-R15	RR2Y	5.3	25-Oct	1.7	27	0	1.7	2346	52.5
Progeny	P5210RY	RR2Y	5.2	23-Oct	1.8	19	1	1.7	2342	52.4
N.Carolina	NCC04-1555	CONV	5.7	29-Oct	2.0	32	0	1.0	3149	51.8
Stine	58LA02	LL	5.8	29-Oct	2.0	31	1	1.3	2887	51.3
Stine	51LA02	LL	5.1	22-Oct	1.8	30	1	1.7	2636	50.9
Asgrow	AG5632	RR2Y/STS	5.6	25-Oct	2.0	36	0	1.3	2932	50.8
Public	V03-3650	CONV	5.5	25-Oct	1.5	31	1	2.0	2536	50.6
Dyna-Gro	32A53	RR	5.3	25-Oct	2.3	32	0	1.7	2138	50.3
S.States	RT5160N-STS	RR/STS	5.1	22-Oct	1.8	38	3	2.0	2584	49.9
Public	Hanover	CONV	4.9	19-Oct	1.8	31	0	1.7	2787	49.9
Progeny	P5330RR	RR	5.3	23-Oct	2.2	38	0	1.7	2412	49.5
Stine	58LC23	LL	5.8	25-Oct	2.8	38	0	1.7	2735	49.4
Public	Hutcheson	CONV	5.7	25-Oct	2.0	30	0	1.3	2604	49.2
Progeny	P5111RY	RR2Y	5.1	25-Oct	2.0	36	2	1.7	2982	49.2
S.States	SS5510NR2	RR2	5.5	25-Oct	1.8	41	2	1.7	2547	49.1
USG	75R31R	RR2Y	5.3	25-Oct	2.2	45	3	2.0	2632	48.3
Asgrow	AG5605	RR/STS	5.6	25-Oct	2.0	33	0	1.3	3124	48.0
Progeny	P5811RY	RR2Y	5.8	27-Oct	2.2	37	0	1.3	2495	47.3
S.States	LL540N	LL	5.4	25-Oct	2.2	39	1	2.0	2640	47.2
Dyna-Gro	35RY51	RR2Y	5.1	22-Oct	2.0	34	0	1.7	3065	47.2
USG	7553nRS	RR/STS	5.5	26-Oct	2.2	36	1	1.3	3194	47.1
Progeny	P5321RY	RR2Y	5.3	23-Oct	2.0	44	1	2.0	2596	46.9

Table 5d. Continued

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
USG	75B21R	RR2Y	5.2	25-Oct	2.0	34	0	1.7	2845	46.7
Channel	5305R2	RR2Y	5.3	25-Oct	2.5	33	0	1.7	2426	46.4
S.States	Exp5112NR2	RR2Y	5.1	22-Oct	1.8	35	3	1.7	2944	46.2
S.States	ExpLL501N	LL	5.0	25-Oct	1.7	36	3	2.0	2586	46.1
S.States	RT5471N-STS	RR/STS	5.4	25-Oct	1.7	31	1	1.3	2840	45.7
S.States	LL595N	LL	5.9	29-Oct	1.8	35	0	1.3	2768	45.2
Progeny	P5655RY	RR2Y	5.6	25-Oct	2.0	35	4	1.3	2571	44.9
USDA-ARS	JTN-5203	CONV	0.0	23-Oct	2.0	32	1	1.7	2875	44.8
RPM	DB5511RS	RR/STS	5.5	26-Oct	2.0	36	0	1.0	2656	44.7
S.States	Exp5111R2	RR2Y	5.1	22-Oct	1.7	47	2	2.0	2640	44.6
Asgrow	AG5332	RR2Y	5.3	25-Oct	1.8	38	7	2.0	2752	44.3
Progeny	P5261LL	LL	5.2	25-Oct	1.7	32	2	2.0	2646	41.8
Progeny	P5460LL	LL	5.4	25-Oct	1.5	32	3	2.0	2618	38.3
LSD (P=.10)				2.31	0.5	5	2	0.5	145	10.1
CV				7.1	19.1	11.1	125.1	22.0	4.1	14.8
Grand Mean				24-Oct	2.0	34	1	1.7	2637	50.5

Table 5e. Performance of Full-Season Group V Entries at Warsaw, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
NK Brand	S51-J3	RR2Y	5.1	12-Oct	3.4	36	2	1.8	2905	78.1
Asgrow	AG5605	RR/STS	5.6	19-Oct	3.5	38	0	1.7	3660	77.4
Progeny	P5111RY	RR2Y	5.1	12-Oct	3.4	40	1	1.6	3120	76.3
Arkansas	Ozark	CONV	5.2	16-Oct	3.3	37	0	1.5	2727	75.4
Pioneer	95Y71	RR	5.7	16-Oct	3.5	31	0	2.0	2820	75.4
Public	Glenn	CONV	5.3	15-Oct	4.0	31	1	2.1	2905	74.8
Progeny	P5210RY	RR2Y	5.2	17-Oct	4.0	41	1	1.9	2740	74.6
Arkansas	Osage	CONV	5.6	14-Oct	2.9	31	0	1.5	3393	74.5
Stine	51LA02	LL	5.1	16-Oct	3.3	32	0	1.5	3098	74.4
Dyna-Gro	32RY55	RR2Y	5.5	20-Oct	3.8	42	0	1.7	2562	74.2
Progeny	P5160LL	LL	5.1	16-Oct	3.7	33	0	1.4	3187	73.9
Armor	53-R15	RR2Y	5.3	16-Oct	4.1	36	1	1.8	2510	73.1
S.States	Exp5711R2	RR2Y	5.7	18-Oct	3.6	40	0	1.6	2793	72.6
Channel	5305R2	RR2Y	5.3	15-Oct	3.8	37	0	1.8	2722	72.3
Progeny	P5711RY	RR2Y	5.7	19-Oct	3.7	41	0	1.5	2760	72.0
S.States	RT5160N-STS	RR/STS	5.1	16-Oct	3.4	40	1	1.9	2966	71.9
Dyna-Gro	32A53	RR	5.3	16-Oct	4.2	40	1	1.8	2601	71.3
USG	75B21R	RR2Y	5.2	11-Oct	3.7	38	1	2.2	3172	70.2
T.A. Seeds	TS5029R2	RR2Y	5.9	14-Oct	3.9	51	0	1.7	2907	70.1
USG	7553nRS	RR/STS	5.5	19-Oct	3.5	40	1	1.8	3792	70.0
Progeny	P5610RY	RR2Y	5.6	19-Oct	3.3	39	0	1.6	2663	70.0
S.States	LL595N	LL	5.9	19-Oct	3.3	40	0	1.6	3467	69.7
N.Carolina	NCC04-1555	CONV	5.7	21-Oct	2.7	35	0	1.7	3661	69.6
Stine	58LC23	LL	5.8	18-Oct	3.5	43	0	1.8	3079	69.3
Public	Hanover	CONV	4.9	15-Oct	3.3	32	1	1.7	3117	69.3
S.States	Exp5112NR2	RR2Y	5.1	12-Oct	3.4	40	0	1.9	3168	69.2
Progeny	P5330RR	RR	5.3	15-Oct	3.7	41	0	1.5	2818	69.1
S.States	Exp5611R2	RR2Y	5.6	15-Oct	3.2	40	0	1.8	3171	68.5
Progeny	P5811RY	RR2Y	5.8	20-Oct	3.2	38	0	1.7	2917	68.2
USDA-ARS	JTN-5203	CONV	0.0	18-Oct	3.1	34	1	1.9	3323	68.1
S.States	LL511N	LL	5.1	15-Oct	3.7	31	0	1.5	3090	68.0
Progeny	P5460LL	LL	5.4	13-Oct	4.1	45	1	1.9	3323	67.9
Public	V03-3650	CONV	5.5	15-Oct	3.7	35	0	1.6	3366	67.7
S.States	ExpLL501N	LL	5.0	12-Oct	3.9	44	1	1.7	3293	67.7
S.States	Exp5111R2	RR2Y	5.1	14-Oct	3.1	54	0	1.4	3142	67.2
S.States	LL540N	LL	5.4	15-Oct	3.5	40	0	1.4	3262	67.1
Dyna-Gro	35RY51	RR2Y	5.1	12-Oct	3.6	42	1	2.1	3181	66.7
S.States	LL590N	LL	5.9	14-Oct	2.9	40	1	1.7	3185	66.6
S.States	Exp5312NR2	RR2Y	5.3	11-Oct	3.9	40	2	2.1	3139	66.4
USG	75R31R	RR2Y	5.3	13-Oct	3.9	52	1	1.5	2768	66.2
S.States	RT5471N-STS	RR/STS	5.4	16-Oct	2.9	39	0	1.4	3467	65.9
Progeny	P5655RY	RR2Y	5.6	15-Oct	3.4	43	1	1.9	3219	65.8

Table 5e. Continued

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Arkansas	R04-357	CONV	5.6	18-Oct	3.9	37	1	1.8	3407	65.6
S.States	RT5760N	RR	5.7	20-Oct	3.8	40	1	1.7	2950	65.3
Public	Hutcheson	CONV	5.7	17-Oct	4.1	33	0	2.0	3146	65.3
Progeny	P5261LL	LL	5.2	16-Oct	3.8	39	0	1.7	3300	65.2
RPM	DB5511RS	RR/STS	5.5	20-Oct	3.3	43	1	1.6	3212	65.1
Stine	6202-4	RR	6.2	22-Oct	3.7	38	0	1.6	3142	64.8
Stine	58LA02	LL	5.8	19-Oct	2.9	38	0	1.5	3465	64.6
Progeny	P5321RY	RR2Y	5.3	13-Oct	4.0	51	1	1.9	2931	64.3
Pioneer	95M82	RR	5.8	19-Oct	3.5	43	0	1.6	3190	64.0
S.States	SS5510NR2	RR2	5.5	18-Oct	2.0	39	0	1.8	2666	62.4
S.States	Exp5311NR2	RR2Y	5.3	16-Oct	4.2	55	1	1.7	2898	61.4
LSD (P=.10)				1.81	0.5	4	1	0.3	181	6.3
CV				2.9	10.3	6.6	154.0	12.2	4.3	6.7
Grand Mean				16-Oct	3.5	40	1	1.7	3084	69.3

Table 5f. Performance of Double-Crop Group V Entries at Blackstone, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
S.States	LL540N	LL	5.4		1.7	34	1	1.7	2777	58.4
Asgrow	AG5632	RR2Y/STS	5.6		1.3	31	0	1.7	3002	56.8
S.States	Exp5611R2	RR2Y	5.6		1.0	33	0	2.0	2839	56.2
Public	Glenn	CONV	5.3		1.5	27	0	3.3	2710	55.8
Public	Hutcheson	CONV	5.7		1.0	29	1	1.7	2794	55.6
RPM	DB5511RS	RR/STS	5.5		1.0	33	1	1.3	2969	55.6
S.States	Exp5311NR2	RR2Y	5.3		1.3	42	1	2.0	2566	55.5
S.States	RT5160N-STS	RR/STS	5.1		1.0	33	0	2.0	2880	55.0
S.States	ExpLL501N	LL	5.0		1.0	29	2	2.0	2769	54.7
S.States	Exp5711R2	RR2Y	5.7		1.7	33	0	2.0	2467	54.2
Public	V03-3650	CONV	5.5		1.2	28	0	2.0	2996	54.2
Asgrow	AG5605	RR/STS	5.6		1.3	31	1	1.7	3208	54.0
Asgrow	AG5332	RR2Y	5.3		1.0	30	4	2.3	2382	53.6
S.States	SS5510NR2	RR2	5.5		1.0	31	1	3.7	2571	53.5
Pioneer	95Y71	RR	5.7		1.2	32	0	1.7	2908	53.0
S.States	Exp5312NR2	RR2Y	5.3		1.3	38	3	3.0	2594	52.7
S.States	RT5760N	RR	5.7		1.5	39	1	2.0	3092	52.3
S.States	Exp5111R2	RR2Y	5.1		1.3	33	1	2.0	2971	52.1
N.Carolina	NCC04-1555	CONV	5.7		1.7	33	0	1.0	3477	51.5
S.States	Exp5112NR2	RR2Y	5.1		1.3	34	1	3.0	2918	50.8
Public	Hanover	CONV	4.9		1.0	27	0	2.0	2743	50.6
S.States	LL511N	LL	5.1		1.2	23	0	2.3	2809	49.6
USDA-ARS	JTN-5203	CONV	0.0		1.3	27	0	2.0	3066	48.8
S.States	LL590N	LL	5.9		1.2	33	1	2.3	2711	48.7
Pioneer	95M82	RR	5.8		1.0	36	0	1.0	3113	46.9
S.States	LL595N	LL	5.9		1.0	32	1	1.7	3302	45.5
S.States	RT5471N-STS	RR/STS	5.4		1.3	29	1	1.7	3190	39.7
LSD (P=.10)					0.6	4	1	0.7	277	7.8
CV					36.0	8.1	133.4	24.2	7.0	10.8
Grand Mean					1.2	32	1	2.0	2882	52.4

Table 5g. Performance of Double-Crop Group V Entries at Painter, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
USG	75Z38	RR	5.3		1.5	29	0	1.0	2625	61.0
Dyna-Gro	32A53	RR	5.3		1.3	27	0	1.0	2731	58.8
USDA-ARS	JTN-5203	CONV	0.0		1.0	25	0	1.0	3397	58.2
Public	Glenn	CONV	5.3		1.0	21	0	1.0	3191	57.1
USG	75Z98	RR	5.9		1.8	30	0	1.0	2905	55.6
Asgrow	AG5332	RR2Y	5.3		1.0	26	0	1.3	2955	55.0
Dyna-Gro	32RY55	RR2Y	5.5		1.0	25	0	1.0	2791	54.3
Stine	51LA02	LL	5.1		1.0	26	1	1.0	3111	53.9
Public	Hanover	CONV	4.9		1.0	29	0	1.0	2944	53.7
Asgrow	AG5632	RR2Y/STS	5.6		1.0	27	0	1.0	3124	53.6
Public	V03-3650	CONV	5.5		1.3	28	0	1.0	3330	53.4
N.Carolina	NCC04-1555	CONV	5.7		1.0	28	0	1.0	3930	53.0
USG	75M16	RR/STS	5.1		1.0	28	0	1.0	3314	52.9
USG	75T40	RR	5.4		1.0	29	0	1.0	3161	52.8
Pioneer	95M82	RR	5.8		1.0	28	0	1.0	3160	52.4
USG	75T49	RR	5.4		1.0	27	1	1.0	3168	52.3
USG	75B21R	RR2Y	5.2		1.0	27	0	1.0	3111	52.0
Stine	58LC23	LL	5.8		1.5	27	0	1.0	2974	51.4
USG	7553nRS	RR/STS	5.5		1.0	26	0	1.3	3451	51.3
NK Brand	S56-G6	RR	5.6		1.0	23	0	1.0	3524	50.9
Asgrow	AG5605	RR/STS	5.6		1.0	25	0	1.0	3567	50.8
Pioneer	95Y71	RR	5.7		1.0	28	1	1.0	3170	49.6
USG	75R31R	RR2Y	5.3		1.0	35	0	1.0	2832	49.4
RPM	DB5511RS	RR/STS	5.5		1.0	26	0	1.0	3371	47.9
Stine	6202-4	RR	6.2		1.0	27	0	1.0	3505	47.8
Stine	58LA02	LL	5.8		1.5	28	0	1.0	3431	46.8
Public	Hutcheson	CONV	5.7		1.0	23	0	1.0	2882	43.0
LSD (P=.10)					0.5	4	1	0.2	116	6.4
CV					33.0	10.7	310.8	15.0	2.7	9.0
Grand Mean					1.1	27	0	1.0	3173	52.6

Table 5h. Performance of Double-Crop Group V Entries at Suffolk, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
USG	75M16	RR/STS	5.1	23-Oct	4.5	48	1	2.3	3207	63.9
Dyna-Gro	32RY55	RR2Y	5.5	3-Nov	4.7	48	0	2.0	2501	62.1
S.States	Exp5711R2	RR2Y	5.7	31-Oct	4.2	48	0	2.0	2678	62.1
USG	7553nRS	RR/STS	5.5	31-Oct	4.0	42	1	1.7	3318	61.1
NK Brand	S56-G6	RR	5.6	31-Oct	4.5	42	0	2.0	3315	60.6
S.States	LL590N	LL	5.9	27-Oct	4.0	47	1	2.0	3357	60.5
Stine	51LA02	LL	5.1	23-Oct	4.7	42	0	2.0	3013	60.4
USG	75Z38	RR	5.3	28-Oct	4.7	46	0	2.0	2576	58.8
S.States	LL511N	LL	5.1	23-Oct	4.7	38	0	2.0	3144	58.3
Public	Glenn	CONV	5.3	25-Oct	4.7	40	1	2.3	3204	57.3
USG	75T40	RR	5.4	25-Oct	4.0	43	0	2.0	2852	56.8
Public	Hanover	CONV	4.9	25-Oct	4.7	44	0	2.0	2947	56.6
Pioneer	95Y71	RR	5.7	26-Oct	4.3	44	1	2.0	3171	56.4
Stine	6202-4	RR	6.2	5-Nov	4.5	49	0	1.3	2942	56.2
USG	75Z98	RR	5.9	3-Nov	4.8	45	0	2.0	2803	55.9
N.Carolina	NCC04-1555	CONV	5.7	3-Nov	4.3	42	0	1.3	3683	55.7
Pioneer	95M82	RR	5.8	28-Oct	4.0	49	0	1.7	3034	55.5
S.States	RT5471N-STS	RR/STS	5.4	25-Oct	3.8	49	0	1.7	3317	55.1
S.States	Exp5312NR2	RR2Y	5.3	24-Oct	3.2	44	1	2.7	2939	54.8
S.States	Exp5611R2	RR2Y	5.6	26-Oct	4.3	44	0	2.7	3028	54.4
S.States	Exp5112NR2	RR2Y	5.1	23-Oct	3.5	45	0	2.0	3471	54.2
Asgrow	AG5632	RR2Y/STS	5.6	26-Oct	4.0	49	0	1.3	3562	53.6
USG	75B21R	RR2Y	5.2	24-Oct	4.7	46	0	2.0	3347	53.1
Asgrow	AG5332	RR2Y	5.3	25-Oct	4.5	43	1	2.0	3303	52.8
S.States	ExpLL501N	LL	5.0	22-Oct	3.7	49	1	2.3	3162	52.4
S.States	RT5160N-STS	RR/STS	5.1	23-Oct	4.2	47	1	2.0	3174	51.8
Asgrow	AG5605	RR/STS	5.6	28-Oct	3.5	39	0	1.0	3723	51.1
USDA-ARS	JTN-5203	CONV	0.0	28-Oct	5.0	40	0	2.7	3614	51.1
S.States	LL595N	LL	5.9	31-Oct	4.2	45	1	2.0	3494	50.5
S.States	Exp5111R2	RR2Y	5.1	23-Oct	4.0	53	0	2.3	3268	50.2
Stine	58LC23	LL	5.8	28-Oct	4.5	51	0	1.7	3270	50.1
Public	V03-3650	CONV	5.5	25-Oct	5.0	46	0	2.0	3355	50.0
S.States	LL540N	LL	5.4	25-Oct	4.3	46	0	2.0	3130	49.6
RPM	DB5511RS	RR/STS	5.5	26-Oct	4.2	49	0	2.0	3246	49.5
Public	Hutcheson	CONV	5.7	25-Oct	5.0	45	1	2.0	3161	48.9
S.States	RT5760N	RR	5.7	28-Oct	4.7	46	0	2.0	2975	48.8
Dyna-Gro	32A53	RR	5.3	25-Oct	4.7	46	0	2.0	2687	47.7
Stine	58LA02	LL	5.8	3-Nov	3.7	46	0	2.0	3538	47.3
S.States	Exp5311NR2	RR2Y	5.3	24-Oct	3.5	50	0	2.0	3033	47.3
USG	75R31R	RR2Y	5.3	25-Oct	4.7	49	1	2.0	2992	46.5
S.States	SS5510NR2	RR2	5.5	25-Oct	3.5	44	0	2.7	2969	42.7
USG	75T49	RR	5.4	31-Oct	4.7	41	0	1.7	3460	37.6
LSD (P=.10)				3.93	0.7	5	1	0.5	231	8.2
CV				11.0	12.3	7.8	227.2	17.3	5.3	11.2
Grand Mean				27-Oct	4.3	45	0	2.0	3166	53.6

Table 5i. Performance of Double-Crop Group V Entries at Warsaw, VA, 2011.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (inches)	Purple Seed Stain (%)	Seed Quality (1-5)	Seed Size (no./lb)	Yield (bu/acre)
Asgrow	AG5605	RR/STS	5.6	1-Nov	2.8	39	0	1.2	3470	73.7
S.States	LL511N	LL	5.1	28-Oct	3.7	32	0	1.3	2826	72.6
N.Carolina	NCC04-1555	CONV	5.7	3-Nov	3.2	37	0	1.3	3491	72.0
Public	Hanover	CONV	4.9	28-Oct	3.3	38	0	1.3	2889	69.7
Public	V03-3650	CONV	5.5	30-Oct	2.5	38	0	1.4	2974	69.3
NK Brand	S56-G6	RR	5.6	3-Nov	3.5	38	0	1.5	3050	69.1
S.States	RT5760N	RR	5.7	4-Nov	3.3	41	0	1.3	2504	69.1
USG	75T49	RR	5.4	29-Oct	2.8	39	0	1.5	2948	69.1
USG	75Z38	RR	5.3	2-Nov	4.0	40	0	1.4	2426	68.9
Public	Glenn	CONV	5.3	27-Oct	3.2	34	0	1.4	2977	68.8
USG	75B21R	RR2Y	5.2	27-Oct	2.5	39	0	1.6	3076	68.6
S.States	ExpLL501N	LL	5.0	28-Oct	2.0	41	0	1.3	3118	68.3
S.States	Exp5312NR2	RR2Y	5.3	28-Oct	2.3	38	0	1.7	2871	68.2
Pioneer	95M82	RR	5.8	5-Nov	3.2	40	0	1.3	2821	67.5
Stine	51LA02	LL	5.1	29-Oct	3.7	32	0	1.2	2905	67.4
USDA-ARS	JTN-5203	CONV	0.0	28-Oct	3.7	36	1	1.6	3266	66.6
USG	75T40	RR	5.4	30-Oct	2.7	42	0	1.1	3014	66.5
Dyna-Gro	32RY55	RR2Y	5.5	3-Nov	3.0	37	0	1.4	2407	66.4
S.States	Exp5711R2	RR2Y	5.7	3-Nov	3.3	39	0	1.5	2670	65.1
S.States	LL595N	LL	5.9	30-Oct	2.8	40	1	1.3	3163	64.6
S.States	Exp5611R2	RR2Y	5.6	28-Oct	2.7	36	1	1.3	2880	63.8
S.States	SS5510NR2	RR2	5.5	28-Oct	2.3	40	0	1.1	2528	63.7
USG	7553nRS	RR/STS	5.5	2-Nov	3.3	40	0	1.4	3525	63.6
USG	75M16	RR/STS	5.1	28-Oct	2.5	40	0	1.6	3001	63.1
Dyna-Gro	32A53	RR	5.3	30-Oct	3.8	39	0	1.3	2468	62.8
S.States	Exp5112NR2	RR2Y	5.1	27-Oct	2.3	40	0	1.5	3070	62.8
Stine	6202-4	RR	6.2	6-Nov	3.0	41	0	1.2	2815	62.8
Public	Hutcheson	CONV	5.7	27-Oct	3.2	37	1	1.8	2860	62.5
USG	75Z98	RR	5.9	3-Nov	2.8	37	0	1.3	2699	62.4
Pioneer	95Y71	RR	5.7	27-Oct	3.0	39	0	1.4	3091	61.5
Stine	58LC23	LL	5.8	30-Oct	3.8	40	0	1.3	3104	61.3
S.States	LL540N	LL	5.4	29-Oct	3.0	37	0	1.2	3110	61.2
S.States	RT5471N-STS	RR/STS	5.4	30-Oct	2.8	39	0	1.2	3055	60.7
RPM	DB5511RS	RR/STS	5.5	4-Nov	3.0	39	0	1.3	2956	60.6
Stine	58LA02	LL	5.8	31-Oct	2.8	39	0	1.2	3153	60.4
S.States	LL590N	LL	5.9	28-Oct	3.0	37	0	1.7	3042	59.6
S.States	Exp5111R2	RR2Y	5.1	27-Oct	3.2	47	0	1.4	3075	58.7
S.States	Exp5311NR2	RR2Y	5.3	27-Oct	2.8	46	1	1.6	2820	58.2
S.States	RT5160N-STS	RR/STS	5.1	28-Oct	2.7	40	0	1.4	3040	58.0
USG	75R31R	RR2Y	5.3	27-Oct	2.5	46	1	1.4	2894	56.3
LSD (P=.10)				1.37	0.6	3	1	0.2	123	4.4
CV				1.7	14.6	5.7	212.2	12.2	3.1	4.9
Grand Mean				30-Oct	3.0	39	0	1.4	2951	64.9