



Virginia Cooperative Extension

Virginia Tech • Virginia State University

www.ext.vt.edu

Virginia Soybean Performance Tests 2024

Authored by

*Dr. Carrie Ortel, Soybean Agronomist and Assistant Professor, School of Plant & Environmental Sciences;
Erin Myers, Agriculture Specialist, Tidewater Agricultural Research and Extension Center;
Christopher Buck, Agriculture Specialist, Tidewater Agricultural Research and Extension Center;
Ronald Daughtrey, Agriculture Technician, Tidewater Agricultural Research and Extension Center*



Other Contributors:

*Dr. Joseph Oakes, Superintendent, Eastern Virginia Agricultural Research and Extension Center;
Dr. Matthew Chappell, Director, Tidewater Agricultural Research and Extension Center;
Edward "Ned" Jones, Farm Manager, Southern Piedmont Agricultural Research and Extension Center;
Andrew Fletcher, Farm Manager, Eastern Shore Agricultural Research and Extension Center*

Table of Contents

Introduction	4
Methods	4
Interpreting the Results	6
Table 1. Field and management information of the 2024 full season soybean performance tests.	7
Table 2. Field and management information of the 2024 double-crop soybean performance tests.	9
Yield summaries across all full season variety trial locations in 2024	10
Table 3a. Yield summaries (bu/A) of full season maturity group 3 entries.	10
Table 3b. Yield summaries (bu/A) of full season early maturity group 4 entries.	11
Table 3c. Yield summaries (bu/A) of full season late maturity group 4 entries.	12
Table 3d. Yield summaries (bu/A) of full season early maturity group 5 entries.	14
Table 3e. Yield summaries (bu/A) of full season late maturity group 5 entries.	15
Yield summaries across all double-crop variety trial locations in 2024	16
Table 4a. Yield summaries (bu/A) of double-crop early maturity group 4 entries.	16
Table 4b. Yield summaries (bu/A) of double-crop late maturity group 4 entries.	17
Table 4c. Yield summaries (bu/A) of double-crop early maturity group 5 entries.	18
Table 4d. Yield summaries (bu/A) of double-crop late maturity group 5 entries.	19
Performance summaries of each full season site year in 2024	20
Table 5a. Performance of full season maturity group 3 entries at Blackstone, VA.	20
Table 5b. Performance of full season early maturity group 4 entries at Blackstone, VA.	21
Table 5c. Performance of full season late maturity group 4 entries at Blackstone, VA.	22
Table 5d. Performance of full season early maturity group 5 entries at Blackstone, VA.	24
Table 5e. Performance of full season late maturity group 5 entries at Blackstone, VA.	25
Table 6a. Performance of full season maturity group 3 entries at Painter, VA.	26
Table 6b. Performance of full season early maturity group 4 entries at Painter, VA.	27
Table 6c. Performance of full season late maturity group 4 entries at Painter, VA.	28
Table 6d. Performance of full season early maturity group 5 entries at Painter, VA.	30
Table 6e. Performance of full season late maturity group 5 entries at Painter, VA.	31
Table 7a. Performance of full season maturity group 3 entries at Suffolk, VA planted in May.	32
Table 7b. Performance of full season early maturity group 4 entries at Suffolk, VA planted in May. ...	33
Table 7c. Performance of full season late maturity group 4 entries at Suffolk, VA planted in May.	34
Table 7d. Performance of full season early maturity group 5 entries at Suffolk, VA planted in May. ...	36
Table 7e. Performance of full season late maturity group 5 entries at Suffolk, VA planted in May.	37
Table 8a. Performance of full season maturity group 3 entries at Suffolk, VA planted in June.	38
Table 8b. Performance of full season early maturity group 4 entries at Suffolk, VA planted in June. ...	39
Table 8c. Performance of full season late maturity group 4 entries at Suffolk, VA planted in June.	40

Table 8d. Performance of full season early maturity group 5 entries at Suffolk, VA planted in June. ...	42
Table 8e. Performance of full season late maturity group 5 entries at Suffolk, VA planted in June.....	43
Table 9a. Performance of full season maturity group 3 entries at Warsaw, VA.....	44
Table 9b. Performance of full season early maturity group 4 entries at Warsaw, VA.....	45
Table 9c. Performance of full season late maturity group 4 entries at Warsaw, VA.	46
Table 9d. Performance of full season early maturity group 5 entries at Warsaw, VA.....	48
Table 9e. Performance of full season late maturity group 5 entries at Warsaw, VA.	49
Performance summaries of each double-crop site year in 2024	50
Table 10a. Performance of double-crop early maturity group 4 entries at Suffolk, VA.	50
Table 10b. Performance of double-crop late maturity group 4 entries at Suffolk, VA.	51
Table 10c. Performance of double-crop early maturity group 5 entries at Suffolk, VA.	52
Table 10d. Performance of double-crop late maturity group 5 entries at Suffolk, VA.	53
Table 11a. Performance of double-crop early maturity group 4 entries at Warsaw, VA.....	54
Table 11b. Performance of double-crop late maturity group 4 entries at Warsaw, VA.....	55
Table 11c. Performance of double-crop early maturity group 5 entries at Warsaw, VA.....	56
Table 11d. Performance of double-crop late maturity group 5 entries at Warsaw, VA.....	57
Acknowledgements	58
Table 12a. Seed Suppliers for 2024 Virginia soybean performance tests, full season.....	58
Table 12b. Seed Suppliers for 2024 Virginia soybean performance tests, double-crop.	59

Introduction

Official performance tests are conducted each year by the Soybean Agronomy Program in collaboration with the Virginia Tech Agricultural Research and Extension Centers. Several commercially available soybean varieties are tested to provide unbiased data, intended to benefit Virginia producers and agribusinesses in making selections of varieties for their use. Not all varieties that are offered for sale in Virginia are included in these tests, and there is no implication that varieties not included are inferior in any way. Additionally, it is recognized that not all regions of Virginia were included as test locations in 2024, and data should be interpreted as such.

All locations experienced significant stress during June, with most of the state receiving very little to no rain accompanied by extreme heat. The weather was highly variable between locations for the remainder of the season, with rain at some locations while others continued to endure stress.

Please also consider the on-farm soybean variety trials and past years of data in conjunction with these results when selecting a variety. The environment interacts with each variety to produce variable yields when grown in different situations, emphasizing the importance of considering several site years of data when making informed decisions.

Methods

Soybean varieties were entered by commercial seed companies, Universities, crop improvement associations, and Virginia soybean farmers. Performance tests were conducted under full season system conditions at the Eastern Shore (Painter, VA), Northern Coastal Plain (Warsaw, VA), Southern Coastal Plain (Suffolk, VA), and Southern Piedmont (Blackstone, VA) regions of Virginia (Figure 1). Additionally, performance tests were conducted under double-crop systems following wheat harvest in the Northern Coastal Plain (Warsaw, VA) and Southern Coastal Plain (Suffolk, VA) regions of Virginia.

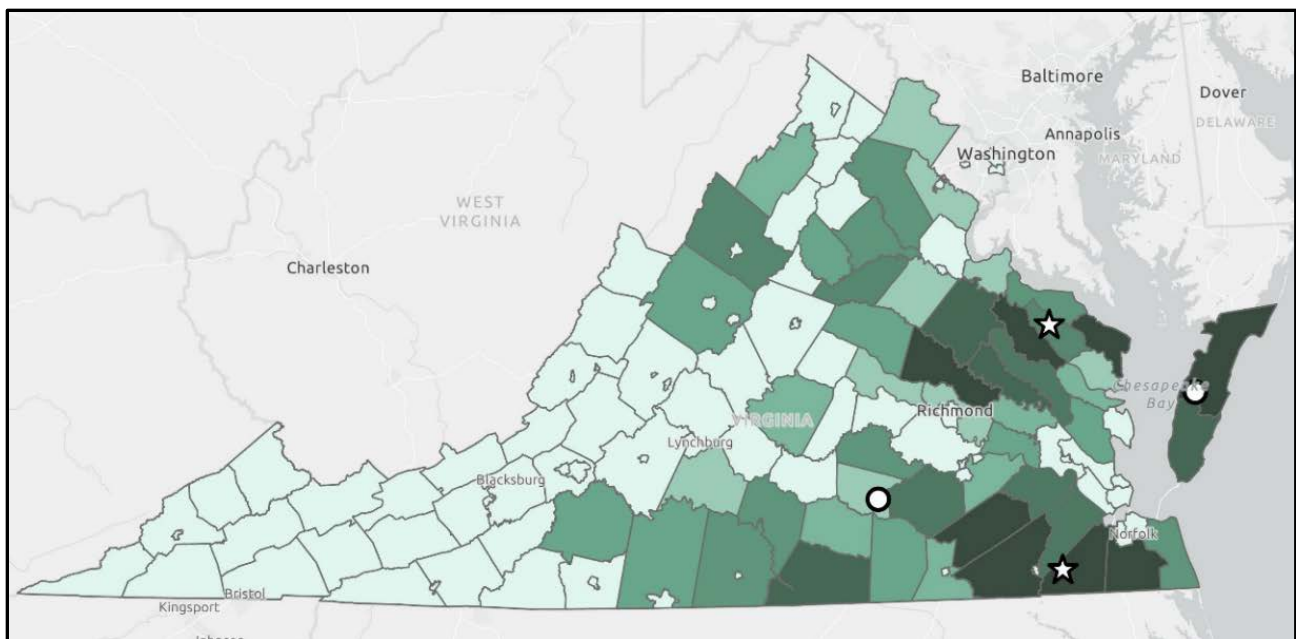


Figure 1. Locations of the 2024 official soybean performance tests and the soybean acres harvested in Virginia (USDA-NASS, 2022). Stars denotes full season and double-crop studies, circles denotes only full season studies at each location. Figure created by Patricia Donovan.

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 in Table 1. Fertilizer was applied according to

Virginia Tech soil test recommendations. Seed treatments were used on most seeds, the chemical composition varies with the company. Seeding rates were equivalent to 140,000 seeds per acre in full

season tests and 220,000 seeds per acre in the double-crop tests. All tests were maintained weed-free with preemergence and/or postemergence herbicides and hand weeding, when necessary, except for nutsedge pressure in the Eastern Shore location in the maturity group 3 test. Insecticides were applied if insect pests approached economic thresholds. Fungicides were applied if disease was present or if conditions were favorable for further disease progress. Interior rows 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 to evaluate seed characteristics.

The experimental design was a randomized complete block design with three replications per site. Outliers were identified as any data point which exceeded 1.5 times the interquartile range and were removed from the analysis. Due to the number of entries, varieties were separated and tested by relative maturity group categories. To facilitate field operations and to allow for more accurate comparison, maturity group IV and V varieties were separated into early (RM 4.0-4.6; 5.0- 5.4) and late (RM 4.7-4.9; 5.5-5.9) relative maturity tests. Data were subjected to analysis of variance and means were separated with Fisher's Protected LSD test ($P = 0.05$).

Maturity Date

Measured as the date when 95% of the pods turned brown (R8), reported as days after August 31, 2024.

Lodging

Visually estimated using a 1 to 5 scale according to the following criteria:

1. Almost all plants are upright.
2. Either all plants lean slightly or a few plants down.
3. Either all plants lean moderately (45° angle), or 25 to 50% down.
4. Either all plants lean considerably, or 50 to 80% down.
5. All the plants are down.

Plant Height

Determined at maturity (R8) by measuring and averaging 3 randomly chosen plants. Height was measured from the ground to the uppermost main-stem node of the plant at maturity, reported in inches.

Purple Seed Stain (PSS)

The percentage of seeds from a 100-seed sample that is affected by the disease.

Seed Quality

Ratings may represent Phomopsis seed decay and other seed diseases. The following scale was used:

6. Very good
7. Good
8. Fair
9. Poor
10. Very poor

Seed Size

Obtained from the weight of a 100- seed sample, reported in grams.

Yield

Yield was measured as pounds or grams per plot, adjusted to 13% moisture, and then converted to bushels per acre. The plot size was calculated using the exact plot length, multiplied by the combine header width (5'). A bushel weight of 60 pounds was used to determine yield.

Interpreting the Results

A series of tables are provided with yield summaries from the full season tests at each location in 2024. Varieties in the summary tables are ranked by average yield across sites in descending order. The remaining pages contain detailed yield and other performance data from each site, again sorted by yield. The herbicide resistant traits and relative maturity are listed for convenience in the yield summary tables. However, this information is from the company and was not tested in this research, but rather reported by the participating company or University.

Within maturity groups at each location, LSD (least significant difference) was calculated at the 5% 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 significantly different. 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 their region to spread out harvesting time and yield risks.

The average performance of a variety over multiple environments is more reliable than its performance in one test. Because of year-to-year variability in variety performance, variety selection should be

made from multiple years and sites. More sites result in information that is more reliable and a better indicator of how a variety will perform in the future. After examining these results, the farmer may want to plant limited quantities of several new better performing varieties to observe how they perform on their farm and under their management conditions.

Table 1. Field and management information of the 2024 full season soybean performance tests.

Location	Blackstone	Painter	Suffolk, May	Suffolk, June	Warsaw
Soil Type	Appling coarse sand loam	Bojac sandy loam	Dragston fine sandy loam	Rains fine sandy loam	Kempsville loam
Row Spacing	7.5"	15"	15"	15"	30"
Cultivation	Conventional Tillage	No Till (III) Conv. Till (IV-V)*	No Till	Conventional Tillage	Turbo Till
Planting Dates	May 9, 2024	May 23, 2024 (III) Jun 19, 2024 (IV-V)*	May 8, 2024	June 11, 2024	May 2, 2024
Harvest Dates	MG 3: Oct 9, 2024 MG 4E: Oct 23, 2024 MG 4L: Oct 23, 2024 MG 5E: Nov 5, 2024 MG 5L: Nov 5, 2024	MG 3: Nov 13, 2024 MG 4E: Nov 13, 2024 MG 4L: Nov 13, 2024 MG 5E: Nov 13, 2024 MG 5L: Nov 13, 2024	MG 3: Oct 8, 2024 MG 4E: Oct 16, 2024 MG 4L: Oct 17, 2024 MG 5E: Nov 6, 2024 MG 5L: Nov 6, 2024	MG 3: Oct 9, 2024 MG 4E: Oct 17, 2024 MG 4L: Oct 17, 2024 MG 5E: Nov 1, 2024 MG 5L: Nov 1, 2024	MG 3: Oct 7, 2024 MG 4E: Oct 10, 2024 MG 4L: Oct 17&24, 2024 MG 5E: Oct 28, 2024 MG 5L: Oct 29, 2024
Rows Planted/ Harvested	8 planted/ 8 harvested	6 planted/ 4 harvested	6 planted/ 4 harvested	6 planted/ 4 harvested	4 planted/ 2 harvested
Harvested Row Length	19-21' (each plot measured)	18-21' (each plot measured)	15-17' (each plot measured)	11-17' (each plot measured)	12'
Fertilization	Apr 26, 2024 0-0-60	N/A	Apr 18, 2024 4-18-38	NA	Apr 29, 2024 28.5-80-80-5.5
In-Season Applications	May 10, 2024 1qt/A Broadaxe + 1qt/A Glyphosate July 10, 2024 1.5pt/A Poast + 12oz/A COC	MG 3 Field: May 14, 2024 32 oz/A Makaze Aug 15, 2024 1.5 pt/A Basagran Sept 7, 2024 6.4 oz/A Bifenture EC MG 4&5 Field: Jun 20, 2024 1.5 qt/A Tendovo Jul 15, 2024 1.75 oz/A Zidua Sept 7, 2024 6.4 oz/A Bifenture EC	May 9, 2024 16oz/A Roundup Promax + 16oz/A Liberty + 8oz/A Authority First + 20oz/A Dual Magnum + 6.4oz/A Induce June 9, 2024 16oz/A Clethodim + 16oz/A Dyne-amic June 29, 2024 .75lb/A Axilo Mn Jul 8, 2024 16 oz/A Clethodim + 14.8oz/A Medal SC + 1.6oz/A Dyne-amic	June 19, 2024 16oz/A Roundup Promax + 16oz/A Liberty + 6.4oz/A Induce + 14.8oz/A Medal SC + 8oz/A Authority First June 24, 2024 12oz/A Clethodim + 3oz/A First Rate + 16oz/A Basagran + 1.6oz/A Dyne-amic Jul 9, 2024 48oz/A Warrant Ultra + 16oz/A Flexstar + 5.2oz/A Induce Jul 10, 2024 16oz/A Tapout +	May 31, 2024 25.6oz/A Flexstar + 1qt/A Amaze Gold + 1qt/A Liberate Surfactant/100 gal Water June 10, 2024 0.4oz/A FirstRate + 1qt/A Liberate Surfactant/100 gal Water June 21, 2024 14oz/A Intensity One + 1 gal Herbimax Crop Oil/100 gal Water June 27, 2024 2.5oz/A Zidua SC Jul 3, 2024 1qt/A Quick Ultra + Awaken + 2oz/A Radiate

			Jul 10, 2024 .25lb/A Axilo Mn + 6.4oz/A Brigade Aug 5, 2024 20oz/A Miravis Neo Sept 16, 2024 6.4oz/A Bifenture	14.8oz/A Medal SC + 4.8oz/A Dyne-amic Jul 12, 2024 2lbs/A Sulfur + Complete Elemax Aug 22, 2024 6.4oz/A Brigade + 5.5oz/A Lucento Sept 26, 2024 11.3oz/A Steward	Jul 9, 2024 32oz/A Intensity One + 1 gal Herbimax Crop Oil/100 gal Water Jul 11, 2024 2qt/A Maximum N-Pact K + 2oz/A Radiate Jul 18, 2024 1Q/A Quick Ultra + Awaken + 2oz/A Radiate Aug 22, 2024 6.8 oz/A Voltage Insecticide + 10.1 oz/A Avaris Fungicide + 61 oz/A Maximum impact 24-0-0
Rainfall (in.)	May: 8.42 June: 1.85 July: 6.57 Aug: 3.99 Sept: 4.88 Oct: 2.31	May: 4.25 June: 1.76 July: 5.63 Aug: 6.25 Sept: 3.91 Oct: 0.10	May: 5.67 June: 3.19 July: 7.62 Aug: 5.94 Sept: 5.82 Oct: 0.37	May: 5.67 June: 3.19 July: 7.62 Aug: 5.94 Sept: 5.82 Oct: 0.37	May: 5.24 June: 0.98 July: 6.15 Aug: 3.33 Sept: 4.88 Oct: 0.20

*MG 4 and MG 5 were replanted at the Eastern Shore location due to slug damage of the first planting.
 Rainfall information from <https://vt-arec.weatherstem.com/>

Table 2. Field and management information of the 2024 double-crop soybean performance tests.

Location	Suffolk	Warsaw
Soil Type	Dragston fine sandy loam	Kempsville loam
Row Spacing (in.)	15"	22"
Cultivation Type	No Till	No Till
Planting Dates	June 28, 2024	July 5, 2024
Harvest Dates	MG 4E: Nov 7, 2024 MG 4L: Nov 7, 2024 MG 5E: Nov 7, 2024 MG 5L: Nov 8, 2024	MG 4E: Nov 12, 2024 MG 4L: Nov 12, 2024 MG 5E: Nov 12, 2024 MG 5L: Nov 12, 2024
Rows Planted/ Harvested	6 planted/ 4 harvested	5 planted/3 harvested
Harvested Row Length	15-17' (each plot measured)	12'
Fertilization	1/18/24 10-37-27	10/9/23 29.5-60-60-10
In-Season Applications	June 28, 2024 16oz/A Roundup Promax + 16oz/A Liberty + 8oz/A Authority First + 14.8oz/A Medal SC + 1.6oz/A Dyne-amic Jul 9, 2024 16oz/A Clethodim + 14.8oz/A Medal SC + 1.6oz/A Dyne-amic Jul 23, 2024 16oz/A Tapout + 16oz/A Basagran + 1.6oz/A Dyne-amic Aug 22, 2024 5.5oz/A Lucento Aug 29, 2024 6.4oz/A Bifenture Sept 26, 2024 11.3oz/A Steward	Aug 2, 2024 12oz/A Outlook Aug 15, 2024 25.6oz/A Flexstar + .6oz/A FirstRate + 1 qt/A Amaze Gold + 1qt Liberate Surfactant/ 100 gal Water Aug 22, 2024 6.8 oz/A Voltage Insecticide + 10.1 oz/A Avaris Fungicide + 61 oz/A Maximum impact 24-0-0 Aug 23, 2024 32oz/A Intensity One + 1 Gallon Herbimax Crop Oil/ 100 gal of Water
Rainfall (in.)	May: 5.67 June: 3.19 July: 7.62 Aug: 5.94 Sept: 5.82 Oct: 0.37	May: 5.24 June: 0.98 July: 6.15 Aug: 3.33 Sept: 4.88 Oct: 0.20

Yield Summaries Across All Full Season Variety Trial Locations in 2024

Table 3a. Yield summaries (bu/A) of full season maturity group 3 entries.

Brand	Variety	Herbicide	MG	Blackstone	Eastern Shore	Suffolk, May	Suffolk, June	Warsaw	Avg.
Golden Harvest	GH3994E3	E3	3.9	70.6	52.6	62.7	71.5	84.4	68.3
Pioneer	P38A28E	E3	3.7	52.7	48.8	67.6	80.0	83.0	66.4
Channel	3823RXF	XF	3.8	62.5	42.1	63.0	73.0	81.2	64.4
Golden Harvest	GH3774E3	E3	3.7	39.4	43.2	64.2	75.3	75.8	59.6
Revere	39-F94	XF / STS	3.9	45.3	46.1	55.1	76.1	74.7	59.4
Grand Mean				54.0	46.5	62.3	75.3	79.8	--
CV				23.5	16.8	13.7	10.8	10.2	--
LSD P<0.05				14.8	12.9	20.4	10.7	15.2	--

Table 3b. Yield summaries (bu/A) of full season early maturity group 4 entries.

Brand	Variety	Herbicide	MG	Blackstone	Eastern Shore	Suffolk, May	Suffolk, June	Warsaw	Avg.
Asgrow	AG43XF5	XF / SR	4.3	83.0	61.3	79.9	76.4	76.4	75.4
Golden Harvest	GH4214E3S	E3 / STS	4.2	79.4	64.1	73.4	84.9	74.8	75.3
NK	NK43-W1XFS	XF / STS	4.3	63.4	67.0	71.6	79.6	78.9	72.1
USG	7435XFS	XF / STS	4.3	75.8	49.7	71.9	81.1	80.2	71.8
USG	7434XF	XF	4.3	65.1	62.1	70.6	81.4	74.9	70.8
NK	NK42-A6E3S	E3 / STS	4.2	76.5	53.2	62.2	83.4	77.7	70.6
HiSOY	HS 44E40	E3	4.4	66.8	52.9	65.5	76.4	85.8	69.5
Revere	44-F44	XF / STS	4.4	76.9	51.3	67.6	72.3	77.6	69.1
USG	7415ET	E3	4.1	62.0	59.0	59.2	82.0	79.2	68.3
Channel	4424RXF/SR	XF / SR	4.4	76.1	54.8	58.8	70.9	78.6	67.8
Virginia Tech	V20-1478R2DI	RR2Y	4.2	70.4	56.4	54.5	78.2	74.1	66.7
Virginia Tech	V18-2720R2	RR	4.3	59.1	60.6	57.3	81.5	71.8	66.1
Virginia Tech	V18-3866	Conv	4.1	65.2	57.3	60.1	68.9	77.5	65.8
FORTUS	4335E	E3	4.3	66.8	48.9	62.6	68.8	80.8	65.6
U of Arkansas	R19C-1012	Conv	4.4	63.1	55.9	57.9	64.1	69.5	62.1
Southern Harvest	SH 4024 E3	E3	4.0	58.5	47.1	58.0	61.5	76.3	60.3
Virginia Tech	V19-0064DT	Conv	4.2	56.0	55.3	45.9	71.8	67.6	59.3
Perdue	P41MO21	Conv	4.1	57.5	49.2	43.8	59.1	71.4	56.2
Grand Mean				67.9	55.9	62.4	74.6	76.3	--
CV				19.6	26.5	16.1	15.0	7.6	--
LSD P<0.05				15.3	16.5	8.1	16.5	7.1	--

Table 3c. Yield summaries (bu/A) of full season late maturity group 4 entries.

Brand	Variety	Herbicide	MG	Blackstone	Eastern Shore	Suffolk, May	Suffolk, June	Warsaw	Avg.
HiSOY	HS 48F40	XF / STS	4.8	74.7	80.0	72.9	76.7	87.5	78.4
Revere	48-F72	XF	4.8	78.7	75.4	65.9	78.4	87.8	77.3
Pioneer	P48A14E	E3	4.8	78.6	84.5	69.7	63.2	85.6	76.3
Asgrow	AG49XF3	XF	4.9	77.0	78.6	73.5	64.5	82.4	75.2
Pioneer	P45A81E	E3	4.5	67.3	80.1	67.9	68.1	89.2	74.5
USG	7485ETS	E3 / STS	4.8	67.1	81.4	67.1	69.4	86.8	74.4
HiSOY	HS 47E32	E3	4.8	68.5	79.0	70.4	71.7	81.2	74.1
NK	NK49-N7XF	XF	4.9	67.0	78.6	76.0	63.4	84.6	73.9
USG	7483XFS	XF / STS	4.8	71.5	76.6	69.4	64.1	88.0	73.9
USG	7464ET	E3	4.6	69.0	76.3	62.1	65.2	96.9	73.9
Revere	4826XFS	XF / STS	4.8	69.3	82.1	63.0	71.6	82.8	73.7
Golden Harvest	GH4775E3S	E3 / STS	4.7	70.4	80.6	69.8	63.7	84.2	73.7
USG	7461XFS	XF / STS	4.6	68.5	71.6	70.7	67.9	88.8	73.5
NK	NK47-G5E3S	E3 / STS	4.7	69.7	82.8	64.6	61.4	88.3	73.4
Revere	49-F36	XF / STS	4.9	67.6	80.5	71.4	66.5	79.9	73.2
FORTUS	4655ES	E3 / STS	4.6	70.3	78.8	70.8	67.0	77.7	72.9
Revere	46-F57	XF / STS	4.6	73.8	73.9	64.4	65.5	85.0	72.5
Asgrow	AG47XF5	XF / SR	4.7	65.7	80.8	66.3	65.4	83.6	72.4
USG	7494ETS	E3 / STS	4.9	67.6	77.6	67.1	65.1	84.4	72.4
HiSOY	HS 45E32	E3	4.5	61.5	75.9	67.2	70.1	85.9	72.1
USG	7474XFS	XF / STS	4.7	61.8	78.8	68.9	65.7	84.2	71.9
USG	7495XFS	XF / STS	4.9	69.3	75.7	63.6	66.1	81.7	71.3
Channel	4821RXF/SR	XF / SR	4.8	69.6	81.3	62.4	62.3	80.0	71.1
Asgrow	AG48XF5	XF / SR	4.8	66.7	78.8	60.8	66.5	81.9	70.9
U of Missouri	S20-15411GT RR1		4.5	63.1	71.5	79.8	60.0	78.8	70.6
Revere	45-F92	XF / STS	4.5	68.4	76.3	62.3	58.9	85.4	70.3
HiSOY	HS 47E30	E3	4.7	70.6	69.9	65.0	60.6	84.2	70.1
U of Missouri	S20-7117	Conv	4.6	65.6	74.0	61.2	67.5	79.2	69.5
Perdue	P48MO21	Conv	4.8	69.7	78.6	69.3	60.3	65.9	68.8
Virginia Tech	V18-4246R	RR	4.9	67.4	74.9	63.6	58.2	76.7	68.2
Southern Harvest	SH 4622 E3/STS	E3/STS	4.6	64.2	68.7	72.5	61.1	73.5	68.0
U of Arkansas	R18C-13665	Conv	4.9	63.8	73.6	63.4	62.5	75.0	67.7
U of Arkansas	R19C-1035	Conv	4.5	66.6	66.0	57.9	67.1	78.7	67.3
U of Missouri	S20-14129GT RR1		4.5	62.8	73.1	64.8	56.1	79.4	67.2

Brand	Variety	Herbicide	MG	Blackstone	Eastern Shore	Suffolk, May	Suffolk, June	Warsaw	Avg.
Virginia Tech	V18-3788	Conv	4.5	63.4	72.1	59.9	62.8	75.8	66.8
U of Arkansas	R18-14502	Conv	4.9	64.4	66.8	60.3	57.9	83.0	66.5
INTEGRA	XF4634S	XF	4.6	58.9	75.7	58.5	61.0	77.8	66.4
HiSOY	HS 46F40	XF / STS	4.6	61.3	71.9	62.0	56.1	79.9	66.2
Virginia Tech	V17-2447R	RR	4.9	64.8	70.5	48.2	51.2	80.8	63.1
Virginia Tech	V18-3081HP	Conv	4.7	61.2	76.8	53.6	49.3	72.2	62.6
Grand Mean				67.5	76.5	65.9	64.0	81.8	--
CV				9.0	8.5	11.8	13.2	10.3	--
LSD P<0.05				8.5	8.8	10.5	12.2	11.6	--

Table 3d. Yield summaries (bu/A) of full season early maturity group 5 entries.

Brand	Variety	Herbicide	MG	Blackstone	Eastern Shore	Suffolk, May	Suffolk, June	Warsaw	Avg.
Pioneer	P50Z95E	E3	5.0	70.4	71.4	82.0	75.8	95.4	79.0
HiSOY	HS 50F40	XF	5.0	64.1	80.0	79.0	68.4	89.9	76.3
Asgrow	AG50XF5	XF	5.0	65.9	77.9	73.9	75.7	83.3	75.4
Catalyst	CT5293E3	E3	5.2	68.2	74.3	71.4	78.6	84.3	75.3
HiSOY	HS 50E40	E3	5.0	65.6	72.3	79.0	66.5	86.2	73.9
Virginia Tech	V19-1626	Conv	5.1	72.4	71.9	77.8	69.9	76.9	73.8
Revere	53-F84	XF / STS	5.3	68.9	74.6	68.5	74.3	81.8	73.6
HiSOY	HS 54E10	E3	5.4	71.2	77.1	71.0	67.2	80.8	73.5
U of Missouri	S20-13179LL55	LL	5.3	65.7	78.2	70.2	73.4	77.6	73.0
Southern Harvest	SH 5124 E3	E3	5.1	69.4	73.0	75.2	68.7	78.8	73.0
Revere	51-F31	XF	5.1	57.5	69.3	75.2	64.9	91.0	71.6
HiSOY	HS 48E40	E3 / STS	5.0	57.8	68.8	71.5	70.2	87.9	71.2
Virginia Tech	V19-0546	Conv	5.3	58.1	66.6	72.7	75.4	80.8	70.7
HiSOY	HS 54F30	XF / STS	5.4	68.5	72.9	66.4	66.7	77.4	70.3
U of Missouri	S20-4428	Conv	5.3	61.7	75.2	68.6	70.0	69.5	69.0
U of Missouri	S20-1492	Conv	5.0	56.5	77.9	68.4	60.6	77.4	68.2
Virginia Tech	V19-1453STS	Conv	5.4	59.3	75.3	69.1	67.8	68.1	67.9
Channel	5024RXF	XF	5.0	48.6	70.1	67.2	66.6	79.3	66.4
Grand Mean				64.2	73.8	72.6	69.7	81.4	--
CV				13.6	7.7	9.3	10.6	10.1	--
LSD P<0.05				11.6	8.9	9.4	12.2	8.1	--

Table 3e. Yield summaries (bu/A) of full season late maturity group 5 entries.

Brand	Variety	Herbicide	MG	Blackstone	Eastern Shore	Suffolk, May	Suffolk, June	Warsaw	Avg.
Virginia Tech	V18-1255	Conv	5.5	68.1	79.3	76.2	80.9	85.3	78.0
Channel	5723RXF/SR	XF / SR	5.7	72.6	74.5	66.5	77.3	82.4	74.7
Virginia Tech	V19-1409RR	RR	5.6	64.3	74.2	66.2	79.7	83.9	73.7
Virginia Tech	V19-0519	Conv	5.6	66.1	71.6	69.7	70.8	85.0	72.6
Asgrow	AG55XF5	XF	5.5	68.0	68.6	74.3	78.0	72.7	72.3
Virginia Tech	V16-1706R2	RR2Y	5.5	68.7	70.5	71.0	72.4	76.9	71.9
Pioneer	P56A71E	E3	5.6	68.6	70.7	59.9	74.9	81.0	71.0
Southern Harvest	SH 5523 E3	E3	5.5	66.7	74.7	64.7	67.7	79.4	70.7
Revere	5735XFS	XF / STS	5.7	63.9	76.9	62.1	71.8	74.4	69.8
Southern Harvest	SH 5724 E3	E3	5.7	60.5	71.8	65.2	70.1	76.5	68.8
Perdue	P60GO21	Conv	6.0	72.1	69.3	52.7	69.8	78.1	68.4
Virginia Tech	V19-0861	Conv	5.6	53.0	73.5	69.8	70.0	75.6	68.4
Virginia Tech	V19-0496HP	Conv	5.5	58.1	74.0	56.4	73.7	75.8	67.6
Virginia Tech	V19-1493	Conv	5.8	60.7	71.5	56.4	69.6	73.8	66.4
Grand Mean				65.1	72.9	65.0	73.4	78.3	--
CV				11.1	6.2	12.7	9.5	7.2	--
LSD P<0.05				9.9	7.1	9.0	11.5	8.1	--

Yield Summaries Across All Double-Crop Variety Trial Locations in 2024

Table 4a. Yield summaries (bu/A) of double-crop early maturity group 4 entries.

Brand	Variety	Herbicide	MG	Suffolk	Warsaw	Avg.
NK	NK42-A6E3S	E3 / STS	4.2	72.9	58.5	65.7
NK	NK43-W1XFS	XF / STS	4.3	65.5	63.5	64.5
Revere	44-F44	XF / STS	4.4	69.2	57.6	63.4
Virginia Tech	V20-1478R2DI	RR2Y	4.2	59.4	61.7	60.6
Virginia Tech	V18-2720R2	RR	4.3	56.1	59.7	57.9
Virginia Tech	V18-3866	Conv	4.1	59.8	52.3	56.1
Revere	39-F94	XF / STS	3.9	59.3	52.0	55.6
Virginia Tech	V19-0064DT	Conv	4.2	58.9	50.8	54.9
Pioneer	P38A28E	E3	3.7	51.8	54.6	53.2
Perdue	P41MO21	Conv	4.1	45.1	54.4	49.8
Grand Mean				59.5	56.7	--
CV				13.7	9.5	--
LSD P<0.05				5.5	6.0	--

Table 4b. Yield summaries (bu/A) of double-crop late maturity group 4 entries.

Brand	Variety	Herbicide	MG	Suffolk	Warsaw	Avg.
Pioneer	P48A14E	E3	4.8	73.1	67.1	70.1
USG	7485ETS	E3 / STS	4.8	69.3	68.7	69.0
Revere	4826XFS	XF / STS	4.8	69.7	67.0	68.3
Revere	49-F36	XF / STS	4.9	67.9	68.2	68.0
NK	NK47-G5E3S	E3 / STS	4.7	68.6	66.2	67.4
Asgrow	AG49XF3	XF	4.9	66.0	67.1	66.5
Asgrow	AG47XF5	XF / SR	4.7	68.8	63.1	66.0
Channel	4821RXF/SR	XF / SR	4.8	65.3	66.6	65.9
USG	7483XFS	XF / STS	4.8	66.1	62.8	64.5
NK	NK49-N7XF	XF	4.9	67.3	61.3	64.3
Revere	46-F57	XF / STS	4.6	63.6	64.2	63.9
Asgrow	AG48XF5	XF / SR	4.8	68.3	59.4	63.8
Revere	48-F72	XF	4.8	64.9	62.5	63.7
USG	7495XFS	XF / STS	4.9	59.4	64.9	62.2
USG	7474XFS	XF / STS	4.7	64.4	59.5	62.0
USG	7494ETS	E3 / STS	4.9	60.7	59.4	60.0
Virginia Tech	V18-3788	Conv	4.5	56.7	60.0	58.4
Virginia Tech	V18-4246R	RR	4.9	57.5	58.9	58.2
Revere	45-F92	XF / STS	4.5	57.2	59.1	58.1
Virginia Tech	V17-2447R	RR	4.9	50.1	65.8	58.0
Perdue	P48MO21	Conv	4.8	54.7	58.5	56.6
Virginia Tech	V18-3081HP	Conv	4.7	54.6	54.9	54.7
Grand Mean				63.2	63.0	--
CV				11.4	7.9	--
LSD P<0.05				7.7	6.2	--

Table 4c. Yield summaries (bu/A) of double-crop early maturity group 5 entries.

Brand	Variety	Herbicide	MG	Suffolk	Warsaw	Avg.
Revere	51-F31	XF	5.1	65.1	70.7	67.9
HiSOY	HS 50F40	XF	5.0	64.6	60.8	62.7
HiSOY	HS 48E40	E3 / STS	5.0	61.3	63.5	62.4
USG	7543XF	XF	5.4	66.4	55.1	60.7
Revere	53-F84	XF / STS	5.3	58.3	61.9	60.1
Channel	5024RXF	XF	5.0	61.9	58.1	60.0
Virginia Tech	V19-1626	Conv	5.1	55.1	62.9	59.0
Virginia Tech	V19-0546	Conv	5.3	59.4	55.8	57.6
Catalyst	CT5293E3	E3	5.2	56.9	54.4	55.6
USG	7534GT	RR	5.3	51.3	57.6	54.4
Virginia Tech	V19-1453STS	Conv	5.4	51.8	56.5	54.1
USG	7542ET	E3	5.2	45.8	53.2	49.5
Grand Mean				58.7	59.1	--
CV				12.2	9.3	--
LSD P<0.05				10.8	6.4	--

Table 4d. Yield summaries (bu/A) of double-crop late maturity group 5 entries.

Brand	Variety	Herbicide	MG	Suffolk	Warsaw	Avg.
Virginia Tech	V19-0861	Conv	5.6	66.1	63.3	64.7
Virginia Tech	V19-0519	Conv	5.6	61.1	65.5	63.3
Virginia Tech	V18-1255	Conv	5.5	65.4	60.8	63.1
Virginia Tech	V19-1409RR	RR	5.6	61.9	58.7	60.3
Virginia Tech	V16-1706R2	RR2Y	5.5	58.2	62.3	60.2
Channel	5723RXF/SR	XF / SR	5.7	59.8	60.3	60.1
Revere	5735XFS	XF / STS	5.7	62.4	57.1	59.7
Southern Harvest	SH 5523 E3	E3	5.5	57.7	57.7	57.7
Virginia Tech	V19-1493	Conv	5.8	53.7	57.6	55.7
Pioneer	P56A71E	E3	5.6	51.1	56.4	53.7
Virginia Tech	V19-0496HP	Conv	5.5	52.1	55.0	53.6
Perdue	P60GO21	Conv	6.0	54.3	51.0	52.7
Southern Harvest	SH 5724 E3	E3	5.7	45.7	55.9	50.8
Grand Mean				58.2	58.6	--
CV				11.5	8.4	--
LSD P<0.05				8.1	6.5	--

Performance Summaries of Each Full Season Test in 2024

Table 5a. Performance of full season maturity group 3 entries at Blackstone, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Golden Harvest	GH3994E3	E3	3.9	25.5	1.0	35.5	4.0	16.4	70.6
Channel	3823RXF	XF	3.8	22.7	1.0	30.0	3.3	14.5	62.5
Pioneer	P38A28E	E3	3.7	24.7	1.0	12.3	4.0	14.7	52.7
Revere	39-F94	XF / STS	3.9	24.7	1.0	14.3	4.0	14.1	45.3
Golden Harvest	GH3774E3	E3	3.7	25.0	1.0	25.0	4.0	15.2	39.4
Grand Mean				24.4	1.0	22.4	3.8	14.9	54.0
LSD P<0.05				1.6	--	21.2	0.6	1.8	14.8

Table 5b. Performance of full season early maturity group 4 entries at Blackstone, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Asgrow	AG43XF5	XF / SR	4.3	33.0	1.0	9.0	2.0	16.2	83.0
Golden Harvest	GH4214E3S	E3 / STS	4.2	34.3	1.7	27.7	5.0	17.1	79.4
Revere	44-F44	XF / STS	4.4	35.0	1.0	29.0	4.0	17.1	76.9
NK	NK42-A6E3S	E3 / STS	4.2	36.3	1.7	26.3	4.7	17.0	76.5
Channel	4424RXF/SR	XF / SR	4.4	36.3	1.7	26.0	3.3	17.0	76.1
USG	7435XFS	XF / STS	4.3	35.3	1.7	18.0	3.0	16.1	75.8
Virginia Tech	V20-1478R2DI	RR2Y	4.2	38.0	2.0	16.3	3.0	15.1	70.4
FORTUS	4335E	E3	4.3	32.0	2.0	30.3	4.0	16.3	66.8
HiSOY	HS 44E40	E3	4.4	33.0	1.3	25.0	4.0	15.9	66.8
Virginia Tech	V18-3866	Conv	4.1	38.0	1.7	10.7	3.7	13.7	65.2
USG	7434XF	XF	4.3	30.7	1.3	18.0	3.7	14.7	65.1
NK	NK43-W1XFS	XF / STS	4.3	30.0	1.0	31.0	3.7	13.9	63.4
U of Arkansas	R19C-1012	Conv	4.4	41.0	1.3	9.7	2.7	13.4	63.1
USG	7415ET	E3	4.1	30.3	1.3	13.7	4.7	15.3	62.0
Virginia Tech	V18-2720R2	RR	4.3	39.3	2.3	13.0	3.0	14.0	59.1
Southern Harvest	SH 4024 E3	E3	4.0	32.3	1.0	10.3	5.0	14.9	58.5
Perdue	P41MO21	Conv	4.1	32.3	1.3	27.3	4.0	16.0	57.5
Virginia Tech	V19-0064DT	Conv	4.2	34.3	1.7	10.7	2.7	14.6	56.0
Grand Mean				34.5	1.5	19.6	3.7	15.5	67.9
LSD P<0.05				4.8	1.0	8.4	0.5	0.9	15.3

Table 5c. Performance of full season late maturity group 4 entries at Blackstone, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Revere	48-F72	XF	4.8	35.5	1.5	6.5	2.0	15.6	78.7
Pioneer	P48A14E	E3	4.8	40.0	2.3	8.3	3.0	13.8	78.6
Asgrow	AG49XF3	XF	4.9	42.0	1.5	4.5	2.0	14.4	77.0
HiSOY	HS 48F40	XF / STS	4.8	42.5	2.0	6.0	2.0	16.1	74.7
Revere	46-F57	XF / STS	4.6	40.3	1.3	7.3	2.7	15.7	73.8
USG	7483XFS	XF / STS	4.8	36.0	1.0	23.3	3.3	14.6	71.5
HiSOY	HS 47E30	E3	4.7	34.5	1.0	22.0	4.0	13.6	70.6
Golden Harvest	GH4775E3S	E3 / STS	4.7	36.0	1.3	22.7	4.0	13.7	70.4
FORTUS	4655ES	E3 / STS	4.6	35.0	1.7	21.0	3.7	14.5	70.3
NK	NK47-G5E3S	E3 / STS	4.7	34.0	1.3	21.3	3.7	13.8	69.7
Perdue	P48MO21	Conv	4.8	29.3	1.0	8.3	3.0	13.3	69.7
Channel	4821RXF/SR	XF / SR	4.8	44.0	1.3	1.3	1.7	18.2	69.6
Revere	4826XFS	XF / STS	4.8	34.5	1.0	3.5	2.0	16.2	69.3
USG	7495XFS	XF / STS	4.9	41.0	2.0	4.0	2.0	14.6	69.3
USG	7464ET	E3	4.6	33.0	1.0	21.3	4.0	15.0	69.0
HiSOY	HS 47E32	E3	4.8	33.7	1.3	26.0	4.0	14.9	68.5
USG	7461XFS	XF / STS	4.6	36.0	1.0	11.0	2.0	16.0	68.5
Revere	45-F92	XF / STS	4.5	33.3	1.0	11.7	3.0	15.0	68.4
Revere	49-F36	XF / STS	4.9	37.0	1.7	3.7	2.0	15.7	67.6
USG	7494ETS	E3 / STS	4.9	37.0	1.0	21.0	3.0	14.0	67.6
Virginia Tech	V18-4246R	RR	4.9	46.0	2.0	1.3	2.0	14.8	67.4
Pioneer	P45A81E	E3	4.5	30.0	1.0	17.7	4.0	14.3	67.3
USG	7485ETS	E3 / STS	4.8	33.3	1.3	18.3	3.7	13.8	67.1
NK	NK49-N7XF	XF	4.9	37.0	1.0	16.0	2.5	15.9	67.0
Asgrow	AG48XF5	XF / SR	4.8	40.0	1.3	11.0	3.0	17.4	66.7
U of Arkansas	R19C-1035	Conv	4.5	43.5	2.0	5.5	3.0	14.1	66.6
Asgrow	AG47XF5	XF / SR	4.7	39.0	1.0	6.7	1.7	15.5	65.7
U of Missouri	S20-7117	Conv	4.6	36.3	1.3	19.7	3.0	14.9	65.6
Virginia Tech	V17-2447R	RR	4.9	45.0	2.0	11.0	2.0	14.3	64.8
U of Arkansas	R18-14502	Conv	4.9	43.0	3.0	16.0	2.5	15.3	64.4
Southern Harvest	SH 4622 E3/STS	E3/STS	4.6	32.3	1.3	4.0	1.7	12.6	64.2
U of Arkansas	R18C-13665	Conv	4.9	43.7	2.3	8.7	2.3	15.4	63.8
Virginia Tech	V18-3788	Conv	4.5	38.3	2.7	12.0	2.7	13.4	63.4
U of Missouri	S20-15411GT	RR1	4.5	32.0	1.0	15.3	3.0	11.2	63.1
U of Missouri	S20-14129GT	RR1	4.5	33.0	1.0	15.7	3.0	15.4	62.8
USG	7474XFS	XF / STS	4.7	33.0	1.0	4.5	1.5	16.4	61.8
HiSOY	HS 45E32	E3	4.5	30.5	1.5	17.5	4.0	14.8	61.5
HiSOY	HS 46F40	XF / STS	4.6	40.0	1.3	7.0	3.0	15.7	61.3
Virginia Tech	V18-3081HP	Conv	4.7	34.0	1.0	20.3	3.3	16.1	61.2
INTEGRA	XF4634S	XF	4.6	40.3	1.0	6.0	3.0	15.7	58.9
Grand Mean				37.0	1.4	12.5	2.8	14.9	67.5

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
LSD P<0.05				4.5	0.7	6.6	0.6	0.8	8.5

Table 5d. Performance of full season early maturity group 5 entries at Blackstone, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Virginia Tech	V19-1626	Conv	5.1	32.7	1.0	2.0	1.7	16.4	72.4
HiSOY	HS 54E10	E3	5.4	51.0	2.7	1.3	1.7	16.3	71.2
Pioneer	P50Z95E	E3	5.0	34.0	1.0	21.7	3.7	16.2	70.4
Southern Harvest	SH 5124 E3	E3	5.1	37.0	2.0	27.3	4.0	15.1	69.4
Revere	53-F84	XF / STS	5.3	40.0	1.3	1.3	2.0	15.4	68.9
HiSOY	HS 54F30	XF / STS	5.4	44.7	1.0	0.7	1.3	16.5	68.5
Catalyst	CT5293E3	E3	5.2	36.7	2.3	16.3	3.3	17.0	68.2
Asgrow	AG50XF5	XF	5.0	35.0	1.7	11.7	2.7	17.4	65.9
U of Missouri	S20-13179LL55	LL	5.3	44.3	2.0	3.7	2.3	17.4	65.7
HiSOY	HS 50E40	E3	5.0	34.3	2.0	28.7	3.0	15.4	65.6
HiSOY	HS 50F40	XF	5.0	34.3	1.0	15.3	3.3	14.0	64.1
U of Missouri	S20-4428	Conv	5.3	43.5	1.5	2.0	2.0	18.0	61.7
Virginia Tech	V19-1453STS	Conv	5.4	32.3	1.0	5.3	3.0	20.3	59.3
Virginia Tech	V19-0546	Conv	5.3	23.3	1.0	4.3	2.7	13.1	58.1
HiSOY	HS 48E40	E3 / STS	5.0	35.3	1.3	31.7	3.3	15.1	57.8
Revere	51-F31	XF	5.1	32.3	2.3	17.3	3.7	14.9	57.5
U of Missouri	S20-1492	Conv	5.0	38.3	1.7	1.0	1.7	16.3	56.5
Channel	5024RXF	XF	5.0	42.0	1.0	12.5	3.0	18.6	48.6
Grand Mean				37.1	1.6	11.5	2.7	16.2	64.2
LSD P<0.05				6.5	1.3	11.4	0.8	1.3	11.6

Table 5e. Performance of full season late maturity group 5 entries at Blackstone, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Channel	5723RXF/SR	XF / SR	5.7	34.7	1.0	0.3	1.3	17.2	72.6
Perdue	P60GO21	Conv	6.0	31.0	1.3	0.3	1.7	15.6	72.1
Virginia Tech	V16-1706R2	RR2Y	5.5	31.3	1.0	0.7	1.3	16.0	68.7
Pioneer	P56A71E	E3	5.6	30.7	1.0	0.3	2.0	16.2	68.6
Virginia Tech	V18-1255	Conv	5.5	27.7	1.0	0.0	1.3	15.2	68.1
Asgrow	AG55XF5	XF	5.5	31.3	1.0	0.7	1.3	16.5	68.0
Southern Harvest	SH 5523 E3	E3	5.5	48.0	1.7	0.3	1.0	16.0	66.7
Virginia Tech	V19-0519	Conv	5.6	27.0	1.0	0.0	1.0	15.9	66.1
Virginia Tech	V19-1409RR	RR	5.6	30.3	1.0	1.0	1.7	14.5	64.3
Revere	5735XFS	XF / STS	5.7	32.3	1.0	0.0	2.0	16.9	63.9
Virginia Tech	V19-1493	Conv	5.8	24.3	1.0	0.7	1.3	13.6	60.7
Southern Harvest	SH 5724 E3	E3	5.7	38.3	1.7	0.7	1.3	12.9	60.5
Virginia Tech	V19-0496HP	Conv	5.5	22.7	1.0	1.3	1.3	16.6	58.1
Virginia Tech	V19-0861	Conv	5.6	22.3	1.0	0.0	1.0	13.1	53.0
Grand Mean				30.9	1.1	0.5	1.4	15.4	65.1
LSD P<0.05				5.4	0.4	1.5	0.8	1.0	9.9

Table 6a. Performance of full season maturity group 3 entries at Painter, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Golden Harvest	GH3994E3	E3	3.9	30.7	1.0	2.0	3.0	20.1	52.6
Pioneer	P38A28E	E3	3.7	33.7	2.0	4.3	2.3	20.6	48.8
Revere	39-F94	XF / STS	3.9	33.7	1.0	2.0	2.7	18.2	46.1
Golden Harvest	GH3774E3	E3	3.7	30.7	1.0	1.0	2.7	20.5	43.2
Channel	3823RXF	XF	3.8	35.0	1.0	1.3	1.7	20.0	42.1
Grand Mean				32.7	1.2	2.1	2.5	19.9	46.5
LSD P<0.05				2.6	--	1.9	1.0	1.5	12.9

Table 6b. Performance of full season early maturity group 4 entries at Painter, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
NK	NK43-W1XFS	XF / STS	4.3	28.7	1.3	0.7	2.0	17.0	67.0
Golden Harvest	GH4214E3S	E3 / STS	4.2	28.3	1.7	1.3	2.7	17.6	64.1
USG	7434XF	XF	4.3	26.7	1.0	0.7	2.7	17.4	62.1
Asgrow	AG43XF5	XF / SR	4.3	24.0	1.0	0.0	2.0	18.2	61.3
Virginia Tech	V18-2720R2	RR	4.3	29.0	1.3	0.0	2.0	16.4	60.6
USG	7415ET	E3	4.1	26.0	1.7	0.0	2.0	17.9	59.0
Virginia Tech	V18-3866	Conv	4.1	22.0	1.0	0.0	2.3	16.3	57.3
Virginia Tech	V20-1478R2DI	RR2Y	4.2	23.0	1.0	0.0	2.0	18.7	56.4
U of Arkansas	R19C-1012	Conv	4.4	20.3	1.0	0.0	2.3	17.5	55.9
Virginia Tech	V19-0064DT	Conv	4.2	25.7	1.0	0.0	2.7	16.0	55.3
Channel	4424RXF/SR	XF / SR	4.4	25.0	1.0	0.7	2.3	18.4	54.8
NK	NK42-A6E3S	E3 / STS	4.2	23.7	1.0	2.0	3.0	19.4	53.2
HiSOY	HS 44E40	E3	4.4	27.0	1.0	0.0	2.0	19.0	52.9
Revere	44-F44	XF / STS	4.4	23.7	1.0	0.7	2.0	20.2	51.3
USG	7435XFS	XF / STS	4.3	20.3	1.0	1.0	2.3	18.8	49.7
Perdue	P41MO21	Conv	4.1	23.7	1.0	0.7	2.7	18.2	49.2
FORTUS	4335E	E3	4.3	23.3	1.0	2.3	2.0	18.0	48.9
Southern Harvest	SH 4024 E3	E3	4.0	23.7	1.0	0.3	2.3	17.5	47.1
Grand Mean				24.7	1.1	0.6	2.3	17.9	55.9
LSD P<0.05				6.6	0.7	1.7	0.7	2.0	16.5

Table 6c. Performance of full season late maturity group 4 entries at Painter, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Pioneer	P48A14E	E3	4.8	38.3	1.3	0.0	2.0	18.6	84.5
NK	NK47-G5E3S	E3 / STS	4.7	35.7	1.7	0.7	2.3	17.4	82.8
Revere	4826XFS	XF / STS	4.8	36.0	1.7	0.3	2.0	19.6	82.1
USG	7485ETS	E3 / STS	4.8	39.0	1.7	0.0	2.7	17.9	81.4
Channel	4821RXF/SR	XF / SR	4.8	46.7	2.0	0.0	2.0	20.7	81.3
Asgrow	AG47XF5	XF / SR	4.7	38.7	1.7	0.0	2.0	18.8	80.8
Golden Harvest	GH4775E3S	E3 / STS	4.7	34.3	2.0	0.0	2.0	17.6	80.6
Revere	49-F36	XF / STS	4.9	43.7	2.7	0.0	2.0	19.9	80.5
Pioneer	P45A81E	E3	4.5	35.3	1.0	0.0	2.3	16.7	80.1
HiSOY	HS 48F40	XF / STS	4.8	38.0	2.3	0.0	2.0	20.0	80.0
HiSOY	HS 47E32	E3	4.8	31.0	1.0	0.3	2.7	18.0	79.0
Asgrow	AG48XF5	XF / SR	4.8	38.0	1.7	0.0	2.5	21.4	78.8
USG	7474XFS	XF / STS	4.7	38.3	2.0	0.0	2.0	19.8	78.8
FORTUS	4655ES	E3 / STS	4.6	30.5	1.0	0.0	2.0	17.4	78.8
NK	NK49-N7XF	XF	4.9	34.0	1.3	0.0	2.3	18.4	78.6
Perdue	P48MO21	Conv	4.8	32.0	2.3	0.3	2.0	15.2	78.6
Asgrow	AG49XF3	XF	4.9	35.7	1.7	0.0	2.0	16.8	78.6
USG	7494ETS	E3 / STS	4.9	36.7	2.0	0.0	2.0	18.4	77.6
Virginia Tech	V18-3081HP	Conv	4.7	35.0	2.0	0.7	2.3	19.9	76.8
USG	7483XFS	XF / STS	4.8	36.3	1.7	0.7	2.3	17.6	76.6
USG	7464ET	E3	4.6	29.5	1.0	0.0	2.0	18.1	76.3
Revere	45-F92	XF / STS	4.5	41.5	2.5	0.5	2.0	20.3	76.3
HiSOY	HS 45E32	E3	4.5	35.0	2.0	1.0	2.0	18.9	75.9
USG	7495XFS	XF / STS	4.9	38.7	2.3	0.0	2.0	17.4	75.7
INTEGRA	XF4634S	XF	4.6	41.0	1.5	0.0	2.0	18.4	75.7
Revere	48-F72	XF	4.8	32.3	1.3	0.0	2.3	18.5	75.4
Virginia Tech	V18-4246R	RR	4.9	34.3	1.7	0.0	2.0	18.1	74.9
U of Missouri	S20-7117	Conv	4.6	34.7	1.7	0.7	2.0	18.6	74.0
Revere	46-F57	XF / STS	4.6	37.3	2.0	0.0	2.0	19.1	73.9
U of Arkansas	R18C-13665	Conv	4.9	34.3	1.7	0.3	2.0	17.3	73.6
U of Missouri	S20-14129GT	RR1	4.5	33.3	1.3	0.0	2.0	18.1	73.1
Virginia Tech	V18-3788	Conv	4.5	33.7	2.0	0.0	2.3	15.5	72.1
HiSOY	HS 46F40	XF / STS	4.6	36.7	2.3	0.0	2.0	18.7	71.9
USG	7461XFS	XF / STS	4.6	35.0	1.7	0.0	2.0	19.2	71.6

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
U of Missouri	S20-15411GT	RR1	4.5	43.0	3.3	0.0	1.3	13.5	71.5
Virginia Tech	V17-2447R	RR	4.9	38.0	1.7	0.0	2.0	16.6	70.5
HiSOY	HS 47E30	E3	4.7	31.0	1.5	1.0	2.0	16.0	69.9
Southern Harvest	SH 4622 E3/STS	E3/STS	4.6	27.5	1.0	0.0	2.0	15.3	68.7
U of Arkansas	R18-14502	Conv	4.9	42.7	2.3	0.0	2.0	19.7	66.8
U of Arkansas	R19C-1035	Conv	4.5	40.0	2.0	0.0	2.0	15.9	66.0
Grand Mean				36.4	1.8	0.2	2.1	18.1	76.5
LSD P<0.05				6.9	0.9	--	--	--	8.8

Table 6d. Performance of full season early maturity group 5 entries at the Painter, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
HiSOY	HS 50F40	XF	5.0	35.3	1.3	0.3	1.0	17.9	80.0
U of Missouri	S20-13179LL55	LL	5.3	37.7	1.3	0.0	1.0	20.2	78.2
Asgrow	AG50XF5	XF	5.0	36.3	1.3	0.0	1.0	21.1	77.9
U of Missouri	S20-1492	Conv	5.0	32.3	1.0	0.0	1.0	17.8	77.9
HiSOY	HS 54E10	E3	5.4	38.7	1.7	0.0	1.0	16.0	77.1
Virginia Tech	V19-1453STS	Conv	5.4	29.7	2.3	0.0	1.0	19.7	75.3
U of Missouri	S20-4428	Conv	5.3	36.3	2.0	0.0	1.0	21.3	75.2
Revere	53-F84	XF / STS	5.3	35.5	1.5	0.0	1.0	17.5	74.6
Catalyst	CT5293E3	E3	5.2	33.0	1.3	0.0	1.0	19.2	74.3
Southern Harvest	SH 5124 E3	E3	5.1	32.7	1.3	0.3	1.0	18.1	73.0
HiSOY	HS 54F30	XF / STS	5.4	37.0	1.3	0.0	1.0	18.9	72.9
HiSOY	HS 50E40	E3	5.0	30.3	1.0	0.0	1.0	16.5	72.3
Virginia Tech	V19-1626	Conv	5.1	33.7	2.0	0.0	1.0	17.0	71.9
Pioneer	P50Z95E	E3	5.0	30.0	1.0	0.0	1.0	20.0	71.4
Channel	5024RXF	XF	5.0	34.3	1.0	0.0	1.0	21.2	70.1
Revere	51-F31	XF	5.1	27.0	1.0	0.0	1.0	18.0	69.3
HiSOY	HS 48E40	E3 / STS	5.0	36.3	1.0	0.7	1.3	17.7	68.8
Virginia Tech	V19-0546	Conv	5.3	32.0	1.5	0.0	1.0	16.7	66.6
Grand Mean				33.8	1.4	0.1	1.0	18.7	73.8
LSD P<0.05				6.5	1.1	--	--	--	8.9

Table 6e. Performance of full season late maturity group 5 entries at the Painter, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Virginia Tech	V18-1255	Conv	5.5	33.3	2.0	0.0	1.0	17.7	79.3
Revere	5735XFS	XF / STS	5.7	34.7	2.0	0.0	1.0	18.0	76.9
Southern Harvest	SH 5523 E3	E3	5.5	40.7	2.0	0.0	1.0	16.6	74.7
Channel	5723RXF/SR	XF / SR	5.7	35.0	1.5	0.0	1.0	18.0	74.5
Virginia Tech	V19-1409RR	RR	5.6	37.3	2.7	0.3	1.0	16.5	74.2
Virginia Tech	V19-0496HP	Conv	5.5	34.7	2.7	0.0	1.0	19.8	74.0
Virginia Tech	V19-0861	Conv	5.6	32.7	2.0	0.0	1.0	16.0	73.5
Southern Harvest	SH 5724 E3	E3	5.7	35.7	2.3	0.0	1.0	13.5	71.8
Virginia Tech	V19-0519	Conv	5.6	31.0	1.3	0.0	1.0	17.5	71.6
Virginia Tech	V19-1493	Conv	5.8	40.3	2.0	0.0	1.0	15.0	71.5
Pioneer	P56A71E	E3	5.6	38.0	2.3	0.0	1.0	17.8	70.7
Virginia Tech	V16-1706R2	RR2Y	5.5	35.7	1.3	0.0	1.0	19.2	70.5
Perdue	P60GO21	Conv	6.0	38.0	3.0	0.0	1.0	14.5	69.3
Asgrow	AG55XF5	XF	5.5	38.0	1.7	0.0	1.0	19.5	68.6
Grand Mean				36.1	2.1	0.0	1.0	17.1	72.9
LSD P<0.05				5.3	1.0	0.3	--	1.0	7.1

Table 7a. Performance of full season maturity group 3 entries at Suffolk, VA planted in May.

Brand	Variety	Herbicide	Maturity		Height	Lodging	PSS	Seed Quality	Seed Size	Yield
			MG	Date						
Pioneer	P38A28E	E3	3.7	16.0	36.0	1.0	11.7	4.3	17.7	67.6
Golden Harvest	GH3774E3	E3	3.7	17.5	36.5	1.0	2.0	3.0	15.6	64.2
Channel	3823RXF	XF	3.8	19.0	38.0	1.0	3.0	3.5	16.4	63.0
Golden Harvest	GH3994E3	E3	3.9	17.5	33.0	1.0	11.0	4.5	18.5	62.7
Revere	39-F94	XF / STS	3.9	16.0	36.3	1.0	8.0	3.7	16.4	55.1
Grand Mean				17.0	36.0	1.0	7.6	3.8	17.0	62.3
LSD P<0.05				2.6	3.7	--	8.4	1.9	1.3	20.4

Table 7b. Performance of full season early maturity group 4 entries at Suffolk, VA planted in May.

Brand	Variety	Herbicide	Maturity		Height	Lodging	PSS	Seed Quality	Seed Size	Yield
			MG	Date						
Asgrow	AG43XF5	XF / SR	4.3	26.7	36.3	1.3	2.0	2.0	17.7	79.9
Golden Harvest	GH4214E3S	E3 / STS	4.2	30.0	37.3	1.0	10.7	4.0	18.9	73.4
USG	7435XFS	XF / STS	4.3	25.7	41.7	1.7	5.3	3.7	18.1	71.9
NK	NK43-W1XFS	XF / STS	4.3	21.7	36.0	1.0	14.7	2.7	16.8	71.6
USG	7434XF	XF	4.3	26.7	36.7	1.0	2.0	2.3	16.6	70.6
Revere	44-F44	XF / STS	4.4	29.0	39.7	1.0	9.0	2.0	20.3	67.6
HiSOY	HS 44E40	E3	4.4	27.5	37.3	1.0	9.3	4.0	17.6	65.5
FORTUS	4335E	E3	4.3	24.0	34.7	1.0	9.7	3.7	17.1	62.6
NK	NK42-A6E3S	E3 / STS	4.2	27.7	36.0	1.0	10.7	4.0	19.1	62.2
Virginia Tech	V18-3866	Conv	4.1	25.7	41.7	1.3	5.0	2.7	16.7	60.1
USG	7415ET	E3	4.1	23.7	34.7	1.0	2.7	4.0	17.4	59.2
Channel	4424RXF/S R	XF / SR	4.4	22.3	38.7	1.0	9.7	3.3	18.4	58.8
Southern Harvest	SH 4024 E3	E3	4.0	18.0	34.7	1.0	2.3	3.7	16.7	58.0
U of Arkansas	R19C-1012	Conv	4.4	29.0	43.3	2.0	3.7	2.0	15.9	57.9
Virginia Tech	V18-2720R2	RR	4.3	21.7	44.0	3.3	2.0	2.0	15.8	57.3
Virginia Tech	V20-1478R2DI	RR2Y	4.2	23.0	36.5	2.0	12.0	3.5	17.3	54.5
Virginia Tech	V19-0064DT	Conv	4.2	26.3	38.3	2.0	5.7	3.3	17.2	45.9
Perdue	P41MO21	Conv	4.1	25.7	37.0	1.0	3.3	3.3	16.0	43.8
Grand Mean				25.2	38.1	1.4	6.5	3.1	17.4	62.4
LSD P<0.05				--	4.7	0.6	4.3	0.8	0.8	8.1

Table 7c. Performance of full season late maturity group 4 entries at Suffolk, VA planted in May.

Brand	Variety	Herbicide	MG	Maturity Date	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
U of Missouri	S20-15411GT	RR1	4.5	30.0	28.0	1.0	1.3	1.7	12.8	79.8
NK	NK49-N7XF	XF	4.9	32.0	38.7	1.0	4.3	2.0	17.6	76.0
Asgrow	AG49XF3	XF	4.9	37.0	43.0	2.0	0.0	1.0	15.8	73.5
HiSOY	HS 48F40	XF / STS	4.8	33.7	40.7	2.3	1.0	2.3	17.2	72.9
Southern Harvest	SH 4622 E3/STS	E3/STS	4.6	35.3	34.3	1.0	1.0	2.0	14.4	72.5
Revere	49-F36	XF / STS	4.9	35.3	40.0	2.3	1.3	2.0	17.8	71.4
FORTUS	4655ES	E3 / STS	4.6	28.0	39.3	1.0	4.3	3.0	17.2	70.8
USG	7461XFS	XF / STS	4.6	30.0	40.0	1.0	2.7	2.0	17.0	70.7
HiSOY	HS 47E32	E3	4.8	26.0	38.7	1.3	7.0	3.0	17.2	70.4
Golden Harvest	GH4775E3S	E3 / STS	4.7	28.0	36.7	1.0	3.3	3.3	15.1	69.8
Pioneer	P48A14E	E3	4.8	29.7	44.7	1.3	2.7	2.7	15.6	69.7
USG	7483XFS	XF / STS	4.8	30.0	37.0	1.0	3.0	2.3	16.4	69.4
Perdue	P48MO21	Conv	4.8	31.7	30.7	1.0	3.3	2.0	15.0	69.3
USG	7474XFS	XF / STS	4.7	31.7	38.0	1.0	1.0	1.7	16.9	68.9
Pioneer	P45A81E	E3	4.5	26.0	33.7	1.0	3.3	2.7	14.8	67.9
HiSOY	HS 45E32	E3	4.5	26.0	35.7	1.0	4.0	3.0	15.5	67.2
USG	7485ETS	E3 / STS	4.8	28.0	37.3	1.0	4.0	2.7	15.8	67.1
USG	7494ETS	E3 / STS	4.9	30.0	42.3	1.0	3.3	2.7	16.6	67.1
Asgrow	AG47XF5	XF / SR	4.7	33.7	42.0	1.3	4.3	2.0	17.3	66.3
Revere	48-F72	XF	4.8	33.7	41.0	1.0	2.3	2.3	17.7	65.9
HiSOY	HS 47E30	E3	4.7	29.7	36.0	1.0	5.7	2.3	15.0	65.0
U of Missouri	S20-14129GT	RR1	4.5	28.0	37.3	1.0	2.7	2.3	16.1	64.8
NK	NK47-G5E3S	E3 / STS	4.7	28.0	35.7	1.0	4.0	3.0	15.1	64.6
Revere	46-F57	XF / STS	4.6	30.0	45.0	1.0	2.0	2.0	17.8	64.4
Virginia Tech	V18-4246R	RR	4.9	28.0	43.0	1.3	1.7	2.7	15.5	63.6
USG	7495XFS	XF / STS	4.9	35.3	45.7	3.0	0.3	2.3	16.3	63.6
U of Arkansas	R18C-13665	Conv	4.9	32.0	41.7	2.0	3.0	2.7	17.2	63.4
Revere	4826XFS	XF / STS	4.8	33.7	38.0	1.3	1.0	1.3	17.3	63.0
Channel	4821RXF/S R	XF / SR	4.8	38.0	47.0	2.0	1.0	2.3	20.3	62.4
Revere	45-F92	XF / STS	4.5	26.0	44.7	1.3	6.0	2.3	18.3	62.3
USG	7464ET	E3	4.6	26.0	36.3	1.0	7.7	3.3	18.3	62.1
HiSOY	HS 46F40	XF / STS	4.6	32.0	43.7	1.3	1.0	2.0	17.4	62.0

Brand	Variety	Herbicide	MG	Maturity Date	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
U of Missouri	S20-7117	Conv	4.6	26.0	36.3	1.0	4.7	2.3	17.0	61.2
Asgrow	AG48XF5	XF / SR	4.8	28.0	43.7	1.0	2.7	2.3	20.2	60.8
U of Arkansas	R18-14502	Conv	4.9	30.0	44.0	2.7	8.3	2.3	16.7	60.3
Virginia Tech	V18-3788	Conv	4.5	26.0	36.7	1.3	3.7	2.3	13.9	59.9
INTEGRA	XF4634S	XF	4.6	29.0	42.5	1.0	3.0	3.0	17.4	58.5
U of Arkansas	R19C-1035	Conv	4.5	35.3	45.3	3.3	6.3	2.3	16.3	57.9
Virginia Tech	V18-3081HP	Conv	4.7	26.0	37.7	1.3	5.7	2.7	18.6	53.6
Virginia Tech	V17-2447R	RR	4.9	29.0	44.0	1.0	1.5	2.5	14.9	48.2
Grand Mean				30.3	39.6	1.4	3.3	2.4	16.6	65.9
LSD P<0.05				5.1	3.3	0.7	3.4	0.8	1.3	10.5

Table 7d. Performance of full season early maturity group 5 entries at Suffolk, VA planted in May.

Brand	Variety	Herbicide	MG	Maturity Date	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Pioneer	P50Z95E	E3	5.0	31.7	38.3	1.0	2.0	4.0	16.3	82.0
HiSOY	HS 50F40	XF	5.0	33.7	39.0	1.0	2.7	2.0	16.6	79.0
HiSOY	HS 50E40	E3	5.0	31.7	33.3	1.0	6.3	4.0	16.4	79.0
Virginia Tech	V19-1626	Conv	5.1	37.0	32.7	1.0	0.0	2.0	17.2	77.8
Revere	51-F31	XF	5.1	33.7	35.0	1.0	2.0	3.0	17.3	75.2
Southern Harvest	SH 5124 E3	E3	5.1	32.0	41.7	1.3	9.0	3.7	16.2	75.2
Asgrow	AG50XF5	XF	5.0	32.0	38.5	1.0	2.0	3.0	19.6	73.9
Virginia Tech	V19-0546	Conv	5.3	32.0	28.7	1.0	0.7	3.0	15.0	72.7
HiSOY	HS 48E40	E3 / STS	5.0	28.0	38.7	1.0	5.3	3.3	11.0	71.5
Catalyst	CT5293E3	E3	5.2	35.3	39.0	1.0	6.3	4.3	18.1	71.4
HiSOY	HS 54E10	E3	5.4	46.0	50.0	2.7	0.0	3.7	16.5	71.0
U of Missouri	S20-13179LL55	LL	5.3	37.0	46.3	1.3	1.3	2.0	18.8	70.2
Virginia Tech	V19-1453STS	Conv	5.4	35.3	29.3	1.0	0.7	3.0	24.1	69.1
U of Missouri	S20-4428	Conv	5.3	37.0	42.7	1.7	0.0	2.0	18.7	68.6
Revere	53-F84	XF / STS	5.3	40.0	42.7	2.7	0.0	2.7	15.7	68.5
U of Missouri	S20-1492	Conv	5.0	33.7	40.7	3.3	1.3	2.0	17.1	68.4
Channel	5024RXF	XF	5.0	32.0	43.3	1.7	5.3	4.0	20.4	67.2
HiSOY	HS 54F30	XF / STS	5.4	40.0	47.3	1.7	0.0	2.0	18.5	66.4
Grand Mean				34.9	39.3	1.5	2.5	3.0	17.4	72.6
LSD P<0.05				4.2	4.5	0.8	3.1	1.2	3.8	9.4

Table 7e. Performance of full season late maturity group 5 entries at Suffolk, VA planted in May.

Brand	Variety	Herbicide	MG	Maturity Date	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Virginia Tech	V18-1255	Conv	5.5	39.0	28.7	1.0	0.3	2.7	17.9	76.2
Asgrow	AG55XF5	XF	5.5	37.0	37.7	1.0	0.0	3.0	19.2	74.3
Virginia Tech	V16-1706R2	RR2Y	5.5	37.0	38.0	1.0	1.0	4.0	18.8	71.0
Virginia Tech	V19-0861	Conv	5.6	44.0	28.0	1.0	0.3	3.0	16.7	69.8
Virginia Tech	V19-0519	Conv	5.6	39.0	31.7	1.0	0.0	2.3	18.1	69.7
Channel	5723RXF/S R	XF / SR	5.7	46.0	36.5	1.0	0.0	2.0	18.1	66.5
Virginia Tech	V19-1409RR	RR	5.6	37.0	38.0	1.0	0.0	2.7	16.8	66.2
Southern Harvest	SH 5724 E3	E3	5.7	44.0	47.0	3.3	0.0	2.3	14.4	65.2
Southern Harvest	SH 5523 E3	E3	5.5	44.0	51.0	3.3	0.3	3.3	17.0	64.7
Revere	5735XFS	XF / STS	5.7	46.0	39.3	1.0	0.0	3.0	18.6	62.1
Pioneer	P56A71E	E3	5.6	40.0	33.0	1.0	0.0	3.7	17.8	59.9
Virginia Tech	V19-1493	Conv	5.8	46.0	34.0	1.0	0.7	2.0	15.8	56.4
Virginia Tech	V19-0496HP	Conv	5.5	38.0	28.0	1.0	0.3	3.0	18.9	56.4
Perdue	P60GO21	Conv	6.0	40.0	37.3	1.3	0.7	2.3	15.5	52.7
Grand Mean				41.1	36.3	1.4	0.3	2.8	17.4	65.0
LSD P<0.05				2.6	4.0	0.5	1.0	0.7	1.1	9.0

Table 8a. Performance of full season maturity group 3 entries at Suffolk, VA planted in June.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Pioneer	P38A28E	E3	3.7	35.7	1.0	3.7	2.0	18.2	80.0
Revere	39-F94	XF / STS	3.9	37.7	1.0	1.7	1.3	17.3	76.1
Golden Harvest	GH3774E3	E3	3.7	38.7	1.0	4.0	2.0	18.4	75.3
Channel	3823RXF	XF	3.8	40.5	1.0	1.0	1.5	16.5	73.0
Golden Harvest	GH3994E3	E3	3.9	34.3	1.0	5.0	2.0	18.4	71.5
Grand Mean				37.1	1.0	3.2	1.8	17.8	75.3
LSD P<0.05				4.2	--	2.6	0.7	0.6	10.7

Table 8b. Performance of full season early maturity group 4 entries at Suffolk, VA planted in June.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Golden Harvest	GH4214E3S	E3 / STS	4.2	36.3	1.0	0.3	2.7	21.2	84.9
NK	NK42-A6E3S	E3 / STS	4.2	39.7	1.0	1.7	2.3	19.7	83.4
USG	7415ET	E3	4.1	38.3	1.0	0.0	2.0	18.2	82.0
Virginia Tech	V18-2720R2	RR	4.3	46.0	2.7	2.3	1.7	15.6	81.5
USG	7434XF	XF	4.3	38.7	1.0	0.3	1.7	17.0	81.4
USG	7435XFS	XF / STS	4.3	38.7	1.0	0.0	1.3	18.7	81.1
NK	NK43-W1XFS	XF / STS	4.3	35.7	1.0	1.0	1.7	16.7	79.6
Virginia Tech	V20-1478R2DI	RR2Y	4.2	42.0	1.3	0.0	1.7	16.6	78.2
HiSOY	HS 44E40	E3	4.4	40.7	1.0	1.3	2.3	18.0	76.4
Asgrow	AG43XF5	XF / SR	4.3	35.3	1.0	0.0	2.3	17.6	76.4
Revere	44-F44	XF / STS	4.4	38.0	1.0	0.3	2.3	20.3	72.3
Virginia Tech	V19-0064DT	Conv	4.2	45.0	2.0	0.0	2.0	17.1	71.8
Channel	4424RXF/SR	XF / SR	4.4	39.3	1.0	0.3	2.0	19.5	70.9
Virginia Tech	V18-3866	Conv	4.1	43.0	2.0	1.7	1.7	15.9	68.9
FORTUS	4335E	E3	4.3	40.3	1.0	1.0	2.3	17.8	68.8
U of Arkansas	R19C-1012	Conv	4.4	46.3	2.0	1.3	2.0	15.7	64.1
Southern Harvest	SH 4024 E3	E3	4.0	37.0	1.0	1.0	2.0	18.9	61.5
Perdue	P41MO21	Conv	4.1	36.7	1.0	3.0	2.0	18.1	59.1
Grand Mean				39.8	1.3	0.9	2.0	17.9	74.6
LSD P<0.05				4.0	0.3	1.4	0.8	1.3	16.5

Table 8c. Performance of full season late maturity group 4 entries at Suffolk, VA planted in June.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Revere	48-F72	XF	4.8	35.3	2.0	0.0	1.7	17.3	78.4
HiSOY	HS 48F40	XF / STS	4.8	43.7	2.0	0.0	1.7	18.0	76.7
HiSOY	HS 47E32	E3	4.8	39.3	1.0	0.3	2.0	17.1	71.7
Revere	4826XFS	XF / STS	4.8	39.3	1.7	0.0	2.0	18.2	71.6
HiSOY	HS 45E32	E3	4.5	41.7	1.0	0.3	2.0	17.3	70.1
USG	7485ETS	E3 / STS	4.8	40.3	1.7	0.3	2.0	15.7	69.4
Pioneer	P45A81E	E3	4.5	37.3	1.3	0.0	2.0	15.2	68.1
USG	7461XFS	XF / STS	4.6	44.0	1.7	0.0	2.0	17.9	67.9
U of Missouri	S20-7117	Conv	4.6	38.0	1.7	0.3	2.0	17.3	67.5
U of Arkansas	R19C-1035	Conv	4.5	45.7	2.3	0.7	2.0	15.3	67.1
FORTUS	4655ES	E3 / STS	4.6	29.0	1.7	0.0	2.0	16.9	67.0
Asgrow	AG48XF5	XF / SR	4.8	43.0	1.3	0.0	1.7	19.3	66.5
Revere	49-F36	XF / STS	4.9	44.7	2.0	0.0	1.3	17.8	66.5
USG	7495XFS	XF / STS	4.9	46.0	2.0	0.0	2.0	16.2	66.1
USG	7474XFS	XF / STS	4.7	40.0	1.0	0.0	2.0	18.5	65.7
Revere	46-F57	XF / STS	4.6	44.3	2.0	0.0	1.7	17.1	65.5
Asgrow	AG47XF5	XF / SR	4.7	44.7	1.3	0.0	1.3	18.1	65.4
USG	7464ET	E3	4.6	38.7	1.0	0.0	2.0	16.3	65.2
USG	7494ETS	E3 / STS	4.9	42.7	1.7	0.0	2.0	16.2	65.1
Asgrow	AG49XF3	XF	4.9	47.5	1.0	0.5	2.0	16.6	64.5
USG	7483XFS	XF / STS	4.8	37.7	1.0	0.0	2.0	16.6	64.1
Golden Harvest	GH4775E3S	E3 / STS	4.7	42.7	1.3	0.0	2.0	15.7	63.7
NK	NK49-N7XF	XF	4.9	39.3	1.0	0.0	2.0	17.0	63.4
Pioneer	P48A14E	E3	4.8	45.0	1.7	0.0	2.0	16.5	63.2
Virginia Tech	V18-3788	Conv	4.5	42.7	2.0	0.0	2.0	15.0	62.8
U of Arkansas	R18C-13665	Conv	4.9	41.7	1.7	0.0	2.0	16.7	62.5
Channel	4821RXF/SR	XF / SR	4.8	48.0	2.0	0.0	2.0	18.6	62.3
NK	NK47-G5E3S	E3 / STS	4.7	45.0	1.7	0.0	2.0	16.3	61.4
Southern Harvest	SH 4622 E3/STS	E3/STS	4.6	36.7	1.0	0.0	2.0	13.9	61.1
INTEGRA	XF4634S	XF	4.6	44.7	2.0	0.0	2.0	17.2	61.0
HiSOY	HS 47E30	E3	4.7	38.0	1.3	0.7	2.0	14.8	60.6
Perdue	P48MO21	Conv	4.8	37.7	3.0	0.0	2.0	13.2	60.3
U of Missouri	S20-15411GT	RR1	4.5	43.3	3.0	0.3	2.0	12.1	60.0
Revere	45-F92	XF / STS	4.5	42.7	1.7	0.3	1.7	17.4	58.9

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Virginia Tech	V18-4246R	RR	4.9	41.7	2.7	0.0	2.0	16.9	58.2
U of Arkansas	R18-14502	Conv	4.9	49.0	2.3	0.7	2.0	17.7	57.9
HiSOY	HS 46F40	XF / STS	4.6	44.0	1.0	0.0	2.0	16.8	56.1
U of Missouri	S20-14129GT	RR1	4.5	41.0	1.7	0.0	2.0	16.7	56.1
Virginia Tech	V17-2447R	RR	4.9	50.0	1.7	0.0	1.7	15.6	51.2
Virginia Tech	V18-3081HP	Conv	4.7	41.3	2.3	0.0	1.3	18.4	49.3
Grand Mean				41.9	1.7	0.1	1.9	16.6	64.0
LSD P<0.05				5.6	0.8	0.5	0.4	0.8	12.2

Table 8d. Performance of full season early maturity group 5 entries at Suffolk, VA planted in June.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Catalyst	CT5293E3	E3	5.2	37.0	1.0	0.0	2.0	16.9	78.6
Pioneer	P50Z95E	E3	5.0	39.5	1.0	0.0	2.0	17.1	75.8
Asgrow	AG50XF5	XF	5.0	41.7	1.7	0.0	1.3	19.1	75.7
Virginia Tech	V19-0546	Conv	5.3	36.0	2.0	0.0	2.0	14.9	75.4
Revere	53-F84	XF / STS	5.3	40.3	1.3	0.3	2.0	15.4	74.3
U of Missouri	S20-13179LL55	LL	5.3	50.0	1.3	0.0	1.7	19.2	73.4
HiSOY	HS 48E40	E3 / STS	5.0	39.0	1.0	0.3	2.0	16.5	70.2
U of Missouri	S20-4428	Conv	5.3	47.7	2.0	0.0	2.0	17.9	70.0
Virginia Tech	V19-1626	Conv	5.1	40.5	2.5	0.0	2.0	14.8	69.9
Southern Harvest	SH 5124 E3	E3	5.1	44.0	1.0	0.3	2.0	16.4	68.7
HiSOY	HS 50F40	XF	5.0	31.0	1.0	0.0	2.0	16.6	68.4
Virginia Tech	V19-1453STS	Conv	5.4	34.3	1.7	0.0	1.3	22.4	67.8
HiSOY	HS 54E10	E3	5.4	46.3	2.3	0.0	2.0	16.1	67.2
HiSOY	HS 54F30	XF / STS	5.4	50.0	1.3	0.0	2.0	18.1	66.7
Channel	5024RXF	XF	5.0	44.7	1.0	0.0	2.0	19.1	66.6
HiSOY	HS 50E40	E3	5.0	34.0	1.0	0.0	2.0	16.7	66.5
Revere	51-F31	XF	5.1	37.0	1.3	0.0	2.0	16.5	64.9
U of Missouri	S20-1492	Conv	5.0	41.7	1.3	0.0	2.0	16.9	60.6
Grand Mean				41.2	1.4	0.1	1.9	17.4	69.7
LSD P<0.05				5.8	1.0	0.4	0.4	1.2	12.2

Table 8e. Performance of full season late maturity group 5 entries at Suffolk, VA planted in June.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Virginia Tech	V18-1255	Conv	5.5	36.7	1.7	0.0	2.0	16.4	80.9
Virginia Tech	V19-1409RR	RR	5.6	44.3	1.3	0.0	2.0	15.4	79.7
Asgrow	AG55XF5	XF	5.5	42.0	2.0	0.0	1.3	17.1	78.0
Channel	5723RXF/SR	XF / SR	5.7	43.7	2.7	0.0	2.0	17.3	77.3
Pioneer	P56A71E	E3	5.6	43.0	2.3	0.0	2.0	16.6	74.9
Virginia Tech	V19-0496HP	Conv	5.5	37.0	1.7	0.0	1.3	17.8	73.7
Virginia Tech	V16-1706R2	RR2Y	5.5	44.0	1.3	0.0	2.0	17.4	72.4
Revere	5735XFS	XF / STS	5.7	42.0	2.3	0.0	2.0	16.3	71.8
Virginia Tech	V19-0519	Conv	5.6	39.0	2.3	0.0	2.0	15.4	70.8
Southern Harvest	SH 5724 E3	E3	5.7	49.3	3.0	0.0	2.0	13.1	70.1
Virginia Tech	V19-0861	Conv	5.6	34.0	1.7	0.3	2.0	14.2	70.0
Perdue	P60GO21	Conv	6.0	43.0	3.3	0.0	2.0	13.9	69.8
Virginia Tech	V19-1493	Conv	5.8	42.5	2.0	0.0	2.0	13.8	69.6
Southern Harvest	SH 5523 E3	E3	5.5	47.7	2.0	0.0	2.0	14.9	67.7
Grand Mean				42.0	2.1	0.0	1.9	15.7	73.4
LSD P<0.05				4.9	0.9	0.3	0.4	0.9	11.5

Table 9a. Performance of full season maturity group 3 entries at Warsaw, VA.

Brand	Variety	Herbicide	Maturity		Height	Lodging	PSS	Seed Quality	Seed Size	Yield
			MG	Date						
Golden Harvest	GH3994E3	E3	3.9	16.7	32.0	1.0	2.0	4.0	16.2	84.4
Pioneer	P38A28E	E3	3.7	16.3	32.7	1.7	1.0	4.0	16.3	83.0
Channel	3823RXF	XF	3.8	17.0	32.0	1.0	0.3	2.7	14.4	81.2
Golden Harvest	GH3774E3	E3	3.7	16.3	29.7	1.7	1.0	4.0	15.8	75.8
Revere	39-F94	XF / STS	3.9	16.3	28.7	1.3	1.7	2.7	15.8	74.7
Grand Mean				16.5	31.0	1.3	1.2	3.5	15.7	79.8
LSD P<0.05				0.9	3.0	0.7	1.4	1.0	0.8	15.2

Table 9b. Performance of full season early maturity group 4 entries at Warsaw, VA.

Brand	Variety	Herbicide	Maturity		Height	Lodging	PSS	Seed Quality	Seed Size	Yield
			MG	Date						
HiSOY	HS 44E40	E3	4.4	25.0	38.7	1.7	3.7	3.0	14.5	85.8
FORTUS	4335E	E3	4.3	24.3	36.7	1.7	0.3	2.3	15.0	80.8
USG	7435XFS	XF / STS	4.3	29.3	36.7	2.0	1.7	2.0	15.1	80.2
USG	7415ET	E3	4.1	18.7	34.0	1.3	2.0	2.0	14.9	79.2
NK	NK43-W1XFS	XF / STS	4.3	30.7	33.3	1.3	7.0	2.3	13.9	78.9
Channel	4424RXF/SR	XF / SR	4.4	31.7	40.7	2.0	5.0	2.3	15.6	78.6
NK	NK42-A6E3S	E3 / STS	4.2	29.0	37.0	1.7	2.3	3.0	15.7	77.7
Revere	44-F44	XF / STS	4.4	33.3	38.7	1.7	4.0	2.3	16.0	77.6
Virginia Tech	V18-3866	Conv	4.1	25.0	38.0	1.7	0.7	1.0	14.1	77.5
Asgrow	AG43XF5	XF / SR	4.3	33.0	34.7	1.3	3.7	2.3	15.1	76.4
Southern Harvest	SH 4024 E3	E3	4.0	19.7	34.0	1.0	1.0	2.7	14.6	76.3
USG	7434XF	XF	4.3	26.7	33.0	1.3	1.3	1.7	14.1	74.9
Golden Harvest	GH4214E3S	E3 / STS	4.2	30.7	38.0	1.7	4.7	2.3	15.9	74.8
Virginia Tech	V20-1478R2DI	RR2Y	4.2	28.3	35.7	2.0	0.3	2.0	14.5	74.1
Virginia Tech	V18-2720R2	RR	4.3	31.7	45.3	3.0	3.0	2.0	13.0	71.8
Perdue	P41MO21	Conv	4.1	16.7	32.0	2.3	2.0	2.3	15.6	71.4
U of Arkansas	R19C-1012	Conv	4.4	35.7	45.0	1.7	0.0	1.3	14.5	69.5
Virginia Tech	V19-0064DT	Conv	4.2	32.3	39.7	1.3	0.7	2.0	14.8	67.6
Grand Mean				27.9	37.3	1.7	2.4	2.2	14.8	76.3
LSD P<0.05				3.6	3.6	0.8	3.7	0.7	0.9	7.1

Table 9c. Performance of full season late maturity group 4 entries at Warsaw, VA.

Brand	Variety	Herbicide	MG	Maturity Date	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
USG	7464ET	E3	4.6	39.0	37.0	1.0	4.0	4.0	18.5	96.9
Pioneer	P45A81E	E3	4.5	29.7	35.3	1.0	4.3	3.0	15.3	89.2
USG	7461XFS	XF / STS	4.6	34.7	45.3	1.0	4.3	2.0	16.9	88.8
NK	NK47-G5E3S	E3 / STS	4.7	37.0	45.0	2.0	4.5	3.0	14.8	88.3
USG	7483XFS	XF / STS	4.8	36.0	43.3	1.7	10.0	2.3	15.3	88.0
Revere	48-F72	XF	4.8	36.7	43.0	2.0	4.3	2.0	15.5	87.8
HiSOY	HS 48F40	XF / STS	4.8	37.0	46.0	2.0	5.7	3.0	16.5	87.5
USG	7485ETS	E3 / STS	4.8	36.3	42.3	1.0	7.0	3.0	15.6	86.8
HiSOY	HS 45E32	E3	4.5	31.3	36.0	1.7	4.7	4.0	15.5	85.9
Pioneer	P48A14E	E3	4.8	34.0	45.7	1.7	2.0	3.0	15.2	85.6
Revere	45-F92	XF / STS	4.5	33.3	47.3	2.0	5.3	3.0	18.0	85.4
Revere	46-F57	XF / STS	4.6	34.7	49.0	1.7	1.7	3.0	17.5	85.0
NK	NK49-N7XF	XF	4.9	31.3	39.7	1.0	3.0	3.0	16.2	84.6
USG	7494ETS	E3 / STS	4.9	32.5	43.0	1.0	2.5	3.0	14.6	84.4
Golden Harvest	GH4775E3S	E3 / STS	4.7	34.5	42.5	1.5	7.5	4.0	14.8	84.2
USG	7474XFS	XF / STS	4.7	34.3	40.7	1.3	3.7	2.0	16.4	84.2
HiSOY	HS 47E30	E3	4.7	34.7	39.7	1.7	6.0	3.0	14.2	84.2
Asgrow	AG47XF5	XF / SR	4.7	35.3	48.3	2.3	4.7	2.3	16.1	83.6
U of Arkansas	R18-14502	Conv	4.9	36.7	48.0	2.3	13.0	2.0	15.9	83.0
Revere	4826XFS	XF / STS	4.8	34.3	41.0	1.7	2.7	2.0	16.0	82.8
Asgrow	AG49XF3	XF	4.9	38.0	47.3	1.7	4.7	2.0	14.2	82.4
Asgrow	AG48XF5	XF / SR	4.8	36.0	48.3	1.0	3.7	3.0	17.9	81.9
USG	7495XFS	XF / STS	4.9	37.3	49.3	2.7	2.7	2.0	13.9	81.7
HiSOY	HS 47E32	E3	4.8	31.3	41.0	1.7	7.0	3.0	14.7	81.2
Virginia Tech	V17-2447R	RR	4.9	39.3	53.7	2.0	1.7	2.0	15.2	80.8
Channel	4821RXF/S R	XF / SR	4.8	40.0	52.7	2.0	2.7	2.0	17.2	80.0
Revere	49-F36	XF / STS	4.9	35.3	45.0	1.7	11.0	3.0	16.4	79.9
HiSOY	HS 46F40	XF / STS	4.6	32.0	48.7	2.0	3.3	3.0	17.0	79.9
U of Missouri	S20-14129GT	RR1	4.5	34.3	43.7	2.0	3.7	2.0	16.5	79.4
U of Missouri	S20-7117	Conv	4.6	34.0	42.0	2.0	4.3	2.0	16.4	79.2
U of Missouri	S20-15411GT	RR1	4.5	37.0	35.3	1.0	2.0	3.0	11.7	78.8
U of Arkansas	R19C-1035	Conv	4.5	39.0	45.3	1.7	5.0	3.0	14.0	78.7
INTEGRA	XF4634S	XF	4.6	33.0	47.3	2.0	2.3	3.0	16.6	77.8

Brand	Variety	Herbicide	MG	Maturity Date	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
FORTUS	4655ES	E3 / STS	4.6	33.3	40.7	1.7	8.0	3.0	15.4	77.7
Virginia Tech	V18-4246R	RR	4.9	39.3	48.3	2.3	1.3	2.3	14.4	76.7
Virginia Tech	V18-3788	Conv	4.5	32.3	46.7	2.7	2.0	2.0	13.3	75.8
U of Arkansas	R18C-13665	Conv	4.9	38.3	52.3	2.0	2.3	2.0	16.3	75.0
Southern Harvest	SH 4622 E3/STS	E3/STS	4.6	34.7	37.0	1.0	1.0	2.0	13.1	73.5
Virginia Tech	V18-3081HP	Conv	4.7	26.7	39.3	2.0	4.7	2.0	17.6	72.2
Perdue	P48MO21	Conv	4.8	37.7	34.3	2.0	12.3	3.0	14.0	65.9
Grand Mean				35.0	44.0	1.7	4.7	2.6	15.6	81.8
LSD P<0.05				3.1	4.5	0.7	3.7	0.3	1.2	11.6

Table 9d. Performance of full season early maturity group 5 entries at Warsaw, VA.

Brand	Variety	Herbicide	Maturity		Height	Lodging	PSS	Seed Quality	Seed Size	Yield
			MG	Date						
Pioneer	P50Z95E	E3	5.0	41.0	42.3	1.0	3.7	3.0	15.3	95.4
Revere	51-F31	XF	5.1	39.0	41.7	2.3	2.0	2.0	14.8	91.0
HiSOY	HS 50F40	XF	5.0	35.7	40.3	1.7	5.3	2.3	13.5	89.9
HiSOY	HS 48E40	E3 / STS	5.0	32.3	43.7	1.7	2.7	3.0	15.0	87.9
HiSOY	HS 50E40	E3	5.0	34.7	41.3	1.7	2.3	3.3	14.3	86.2
Catalyst	CT5293E3	E3	5.2	37.5	45.0	2.0	4.0	3.5	15.0	84.3
Asgrow	AG50XF5	XF	5.0	39.3	44.7	1.3	2.3	2.0	17.1	83.3
Revere	53-F84	XF / STS	5.3	47.0	48.0	2.0	0.0	2.0	14.0	81.8
HiSOY	HS 54E10	E3	5.4	47.5	55.5	2.0	0.5	2.0	14.6	80.8
Virginia Tech	V19-0546	Conv	5.3	39.3	34.3	1.0	0.3	2.0	13.6	80.8
Channel	5024RXF	XF	5.0	39.0	52.3	1.3	3.0	2.7	17.8	79.3
Southern Harvest	SH 5124 E3	E3	5.1	42.0	43.7	1.3	6.3	3.0	14.1	78.8
U of Missouri	S20-13179LL55	LL	5.3	45.7	54.7	1.7	0.3	2.0	17.0	77.6
U of Missouri	S20-1492	Conv	5.0	39.7	49.7	2.0	0.0	2.0	14.9	77.4
HiSOY	HS 54F30	XF / STS	5.4	44.0	57.0	1.7	0.0	2.0	16.6	77.4
Virginia Tech	V19-1626	Conv	5.1	42.7	32.3	1.3	0.0	2.3	14.8	76.9
U of Missouri	S20-4428	Conv	5.3	42.7	52.0	1.3	0.3	2.0	15.8	69.5
Virginia Tech	V19-1453STS	Conv	5.4	39.0	37.3	2.0	1.3	1.7	21.1	68.1
Grand Mean				40.2	45.1	1.6	1.9	2.4	15.6	81.4
LSD P<0.05				2.7	4.6	0.7	2.2	0.6	0.8	8.1

Table 9e. Performance of full season late maturity group 5 entries at Warsaw, VA.

Brand	Variety	Herbicide	Maturity		Height	Lodging	PSS	Seed Quality	Seed Size	Yield
			MG	Date						
Virginia Tech	V18-1255	Conv	5.5	45.5	31.0	1.0	0.5	2.0	16.2	85.3
Virginia Tech	V19-0519	Conv	5.6	46.0	33.3	1.0	0.0	2.0	17.4	85.0
Virginia Tech	V19-1409RRRR		5.6	44.5	39.0	1.0	0.5	3.0	15.3	83.9
Channel	5723RXF/S R	XF / SR	5.7	52.3	40.7	1.0	0.7	2.3	17.9	82.4
Pioneer	P56A71E	E3	5.6	48.3	35.0	1.0	0.0	3.0	17.4	81.0
Southern Harvest	SH 5523 E3	E3	5.5	50.3	55.0	1.7	0.0	3.0	15.3	79.4
Perdue	P60GO21	Conv	6.0	53.0	42.0	2.0	0.0	2.0	14.0	78.1
Virginia Tech	V16-1706R2	RR2Y	5.5	45.3	37.0	1.0	3.3	3.0	17.0	76.9
Southern Harvest	SH 5724 E3	E3	5.7	50.7	53.7	2.7	0.0	2.0	12.7	76.5
Virginia Tech	V19-0496HP	Conv	5.5	45.0	27.0	1.0	0.3	3.0	18.1	75.8
Virginia Tech	V19-0861	Conv	5.6	44.3	32.0	1.0	0.3	2.0	14.0	75.6
Revere	5735XFS	XF / STS	5.7	52.7	38.0	1.0	0.0	3.0	17.5	74.4
Virginia Tech	V19-1493	Conv	5.8	47.3	37.7	1.0	0.7	2.0	14.4	73.8
Asgrow	AG55XF5	XF	5.5	46.7	34.7	1.3	2.3	2.0	17.2	72.7
Grand Mean				47.9	38.3	1.2	0.7	2.5	16.1	78.3
LSD P<0.05				2.1	4.8	0.5	1.5	0.3	0.7	8.1

Performance Summaries of Each Double-Crop Test in 2024

Table 10a. Performance of double-crop early maturity group 4 entries at Suffolk, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
NK	NK42-A6E3S	E3 / STS	4.2	33.7	1.0	0.3	2.0	18.5	72.9
Revere	44-F44	XF / STS	4.4	36.5	1.0	0.0	2.0	18.1	69.2
NK	NK43-W1XFS	XF / STS	4.3	33.3	1.0	0.0	2.0	16.7	65.5
Virginia Tech	V18-3866	Conv	4.1	38.0	3.3	0.0	2.0	14.6	59.8
Virginia Tech	V20-1478R2DI	RR2Y	4.2	35.7	2.0	0.0	2.0	15.7	59.4
Revere	39-F94	XF / STS	3.9	31.3	1.0	0.0	2.0	16.3	59.3
Virginia Tech	V19-0064DT	Conv	4.2	38.3	2.7	0.0	2.0	14.7	58.9
Virginia Tech	V18-2720R2	RR	4.3	38.7	3.3	0.0	2.0	14.9	56.1
Pioneer	P38A28E	E3	3.7	33.3	1.3	0.0	2.0	16.6	51.8
Perdue	P41MO21	Conv	4.1	33.7	2.7	0.0	2.0	16.3	45.1
Grand Mean				35.2	2.0	0.0	2.0	16.2	59.5
LSD P<0.05				3.9	1.1	0.3	--	0.8	5.5

Table 10b. Performance of double-crop late maturity group 4 entries at Suffolk, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Pioneer	P48A14E	E3	4.8	39.3	1.0	0.0	2.0	16.1	73.1
Revere	4826XFS	XF / STS	4.8	35.0	1.0	0.0	2.0	18.0	69.7
USG	7485ETS	E3 / STS	4.8	37.7	2.7	0.0	2.0	15.4	69.3
Asgrow	AG47XF5	XF / SR	4.7	39.0	1.5	0.0	1.5	17.5	68.8
NK	NK47-G5E3S	E3 / STS	4.7	37.7	2.0	0.0	2.0	15.6	68.6
Asgrow	AG48XF5	XF / SR	4.8	38.0	1.0	0.0	2.0	18.4	68.3
Revere	49-F36	XF / STS	4.9	40.0	1.7	0.0	2.0	17.6	67.9
NK	NK49-N7XF	XF	4.9	34.0	1.0	0.0	2.0	16.4	67.3
USG	7483XFS	XF / STS	4.8	33.3	1.0	0.0	2.0	15.6	66.1
Asgrow	AG49XF3	XF	4.9	41.3	2.0	0.0	2.0	15.6	66.0
Channel	4821RXF/SR	XF / SR	4.8	40.0	1.0	0.0	2.0	18.0	65.3
Revere	48-F72	XF	4.8	33.3	1.0	0.0	2.0	16.8	64.9
USG	7474XFS	XF / STS	4.7	36.0	1.3	0.0	2.0	17.9	64.4
Revere	46-F57	XF / STS	4.6	39.3	1.7	0.0	2.0	17.2	63.6
USG	7494ETS	E3 / STS	4.9	37.7	2.3	0.0	2.0	15.6	60.7
USG	7495XFS	XF / STS	4.9	39.0	2.7	0.0	2.0	15.8	59.4
Virginia Tech	V18-4246R	RR	4.9	41.0	1.3	0.0	2.0	15.7	57.5
Revere	45-F92	XF / STS	4.5	37.3	3.0	0.0	1.3	16.6	57.2
Virginia Tech	V18-3788	Conv	4.5	37.7	2.0	0.0	2.0	14.3	56.7
Perdue	P48MO21	Conv	4.8	32.3	5.0	0.0	2.0	13.5	54.7
Virginia Tech	V18-3081HP	Conv	4.7	37.0	1.7	0.0	2.0	17.5	54.6
Virginia Tech	V17-2447R	RR	4.9	32.0	2.0	0.0	2.0	13.6	50.1
Grand Mean				37.1	1.8	0.0	2.0	16.3	63.2
LSD P<0.05				6.8	1.1	--	0.3	0.7	7.7

Table 10c. Performance of double-crop early maturity group 5 entries at Suffolk, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
USG	7543XF	XF	5.4	37.0	1.3	0.3	2.0	15.2	66.4
Revere	51-F31	XF	5.1	34.3	1.7	0.0	1.0	15.0	65.1
HiSOY	HS 50F40	XF	5.0	33.0	1.0	0.0	1.0	15.9	64.6
Channel	5024RXF	XF	5.0	40.0	1.0	0.0	1.0	18.0	61.9
HiSOY	HS 48E40	E3 / STS	5.0	35.5	1.0	0.0	2.0	15.5	61.3
Virginia Tech	V19-0546	Conv	5.3	36.0	1.0	0.0	2.0	13.5	59.4
Revere	53-F84	XF / STS	5.3	34.5	1.0	0.0	1.0	13.9	58.3
Catalyst	CT5293E3	E3	5.2	35.5	1.0	0.0	1.0	15.6	56.9
Virginia Tech	V19-1626	Conv	5.1	40.0	2.7	0.0	1.0	15.1	55.1
Virginia Tech	V19-1453STS	Conv	5.4	38.0	4.0	0.0	1.3	19.8	51.8
USG	7534GT	RR	5.3	44.5	1.0	0.0	1.0	16.6	51.3
USG	7542ET	E3	5.2	42.0	1.0	0.0	1.0	14.1	45.8
Grand Mean				37.2	1.6	0.0	1.3	15.7	58.7
LSD P<0.05				6.3	1.0	0.5	0.5	1.8	10.8

Table 10d. Performance of double-crop late maturity group 5 entries at Suffolk, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Virginia Tech	V19-0861	Conv	5.6	37.0	1.3	0.0	1.3	14.0	66.1
Virginia Tech	V18-1255	Conv	5.5	34.3	1.0	0.0	1.3	16.2	65.4
Revere	5735XFS	XF / STS	5.7	35.3	1.0	0.0	1.0	17.4	62.4
Virginia Tech	V19-1409RR	RR	5.6	39.0	1.0	0.0	1.0	14.2	61.9
Virginia Tech	V19-0519	Conv	5.6	38.3	1.7	0.0	1.0	15.7	61.1
Channel	5723RXF/SR	XF / SR	5.7	35.0	1.0	0.0	1.0	16.6	59.8
Virginia Tech	V16-1706R2	RR2Y	5.5	39.3	1.7	0.0	1.0	17.3	58.2
Southern Harvest	SH 5523 E3	E3	5.5	41.7	1.3	0.0	1.0	14.9	57.7
Perdue	P60GO21	Conv	6.0	37.0	2.0	0.0	1.0	13.2	54.3
Virginia Tech	V19-1493	Conv	5.8	39.7	1.7	0.0	1.0	13.4	53.7
Virginia Tech	V19-0496HP	Conv	5.5	35.7	4.0	0.0	1.7	16.8	52.1
Pioneer	P56A71E	E3	5.6	40.3	1.3	0.0	1.0	15.4	51.1
Southern Harvest	SH 5724 E3	E3	5.7	41.0	2.0	0.0	1.0	11.2	45.7
Grand Mean				37.9	1.6	0.0	1.1	15.3	58.2
LSD P<0.05				2.8	0.7	--	0.5	0.8	8.1

Table 11a. Performance of double-crop early maturity group 4 entries at Warsaw, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
NK	NK43-W1XFS	XF / STS	4.3	29.0	1.0	0.0	1.0	16.5	63.5
Virginia Tech	V20-1478R2DI	RR2Y	4.2	31.0	1.0	0.0	1.0	17.2	61.7
Virginia Tech	V18-2720R2	RR	4.3	36.3	2.0	0.0	1.0	15.8	59.7
NK	NK42-A6E3S	E3 / STS	4.2	29.3	1.0	0.0	1.3	19.8	58.5
Revere	44-F44	XF / STS	4.4	31.3	1.0	0.0	1.0	18.8	57.6
Pioneer	P38A28E	E3	3.7	28.7	1.0	0.0	1.0	16.2	54.6
Perdue	P41MO21	Conv	4.1	32.0	1.7	0.0	1.0	17.0	54.4
Virginia Tech	V18-3866	Conv	4.1	29.0	1.3	0.0	1.0	15.5	52.3
Revere	39-F94	XF / STS	3.9	29.0	1.0	0.5	1.0	15.7	52.0
Virginia Tech	V19-0064DT	Conv	4.2	32.7	1.7	0.0	1.0	16.1	50.8
Grand Mean				30.9	1.3	0.0	1.0	16.9	56.7
LSD P<0.05				4.9	0.5	0.3	0.3	0.8	6.0

Table 11b. Performance of double-crop late maturity group 4 entries at Warsaw, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
USG	7485ETS	E3 / STS	4.8	33.3	1.0	0.0	1.0	17.6	68.7
Revere	49-F36	XF / STS	4.9	35.3	1.0	0.0	1.0	17.6	68.2
Pioneer	P48A14E	E3	4.8	35.3	1.0	0.0	1.0	17.0	67.1
Asgrow	AG49XF3	XF	4.9	37.0	1.0	0.0	1.0	16.7	67.1
Revere	4826XFS	XF / STS	4.8	31.7	1.0	0.0	1.0	17.5	67.0
Channel	4821RXF/SR	XF / SR	4.8	38.7	1.0	0.0	1.0	19.2	66.6
NK	NK47-G5E3S	E3 / STS	4.7	33.3	1.0	0.0	1.0	16.8	66.2
Virginia Tech	V17-2447R	RR	4.9	40.3	1.3	0.0	1.0	15.5	65.8
USG	7495XFS	XF / STS	4.9	36.3	1.0	0.0	1.0	16.7	64.9
Revere	46-F57	XF / STS	4.6	36.7	1.0	0.0	1.0	18.2	64.2
Asgrow	AG47XF5	XF / SR	4.7	36.3	1.3	0.0	1.0	17.3	63.1
USG	7483XFS	XF / STS	4.8	29.7	1.0	0.0	1.0	17.6	62.8
Revere	48-F72	XF	4.8	30.7	1.0	0.0	1.0	17.8	62.5
NK	NK49-N7XF	XF	4.9	30.7	1.0	0.0	1.0	17.9	61.3
Virginia Tech	V18-3788	Conv	4.5	35.7	2.0	0.0	1.0	15.4	60.0
USG	7474XFS	XF / STS	4.7	30.0	1.0	0.0	1.0	17.9	59.5
USG	7494ETS	E3 / STS	4.9	32.0	1.0	0.0	1.0	16.5	59.4
Asgrow	AG48XF5	XF / SR	4.8	36.3	1.0	0.0	1.0	19.9	59.4
Revere	45-F92	XF / STS	4.5	32.3	1.0	0.0	1.0	18.5	59.1
Virginia Tech	V18-4246R	RR	4.9	36.3	1.7	0.0	1.0	17.7	58.9
Perdue	P48MO21	Conv	4.8	31.0	3.0	0.0	1.0	14.7	58.5
Virginia Tech	V18-3081HP	Conv	4.7	31.7	1.3	0.0	1.0	19.0	54.9
Grand Mean				34.1	1.2	0.0	1.0	17.4	63.0
LSD P<0.05				3.3	0.4	--	--	0.6	6.2

Table 11c. Performance of double-crop early maturity group 5 entries at Warsaw, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Revere	51-F31	XF	5.1	32.0	1.5	0.0	1.5	16.2	70.7
HiSOY	HS 48E40	E3 / STS	5.0	34.7	1.0	0.0	2.3	16.0	63.5
Virginia Tech	V19-1626	Conv	5.1	34.3	1.7	0.3	2.0	16.2	62.9
Revere	53-F84	XF / STS	5.3	36.7	1.0	0.0	2.0	14.5	61.9
HiSOY	HS 50F40	XF	5.0	30.7	1.0	0.0	2.0	15.5	60.8
Channel	5024RXF	XF	5.0	37.3	1.0	0.0	2.0	19.0	58.1
USG	7534GT	RR	5.3	38.5	3.5	0.0	2.0	16.8	57.6
Virginia Tech	V19-1453STS	Conv	5.4	37.5	1.5	0.0	2.0	16.6	56.5
Virginia Tech	V19-0546	Conv	5.3	30.5	2.0	0.0	1.5	18.4	55.8
USG	7543XF	XF	5.4	38.0	1.3	0.0	2.7	15.7	55.1
Catalyst	CT5293E3	E3	5.2	30.7	1.0	0.0	2.0	17.3	54.4
USG	7542ET	E3	5.2	36.3	1.3	0.0	2.0	15.4	53.2
Grand Mean				34.8	1.4	0.0	2.0	16.4	59.1
LSD P<0.05				4.1	1.2	0.3	0.6	2.6	6.4

Table 11d. Performance of double-crop late maturity group 5 entries at Warsaw, VA.

Brand	Variety	Herbicide	MG	Height	Lodging	PSS	Seed Quality	Seed Size	Yield
Virginia Tech	V19-0519	Conv	5.6	37.0	2.3	0.0	2.0	15.9	65.5
Virginia Tech	V19-0861	Conv	5.6	33.0	1.7	0.0	2.0	14.4	63.3
Virginia Tech	V16-1706R2	RR2Y	5.5	38.3	2.0	0.0	2.3	16.8	62.3
Virginia Tech	V18-1255	Conv	5.5	30.3	2.3	0.0	2.0	15.3	60.8
Channel	5723RXF/SR	XF / SR	5.7	32.7	1.0	0.0	2.0	15.9	60.3
Virginia Tech	V19-1409RR	RR	5.6	38.0	1.0	0.0	2.0	15.0	58.7
Southern Harvest	SH 5523 E3	E3	5.5	42.0	1.7	0.0	2.0	15.1	57.7
Virginia Tech	V19-1493	Conv	5.8	38.3	2.0	0.0	2.0	13.5	57.6
Revere	5735XFS	XF / STS	5.7	33.3	1.0	0.0	2.0	16.1	57.1
Pioneer	P56A71E	E3	5.6	36.7	2.3	0.0	2.0	17.2	56.4
Southern Harvest	SH 5724 E3	E3	5.7	43.7	2.0	0.0	2.0	12.9	55.9
Virginia Tech	V19-0496HP	Conv	5.5	31.0	2.3	0.0	2.0	17.5	55.0
Perdue	P60GO21	Conv	6.0	36.3	2.7	0.0	2.0	14.2	51.0
Grand Mean				36.2	1.9	0.0	2.0	15.4	58.6
LSD P<0.05				4.7	0.8	--	0.3	0.6	6.5

Acknowledgements

Sincere appreciation is extended to each of the following cooperators, agribusinesses, and researchers for their continued cooperation, without which this project could not have happened.

Table 12a. Seed Suppliers for 2024 Virginia soybean performance tests, full season.

Brand, Seed Company, Varieties Tested
Asgrow, Bayer Crop Science, 800 N. Lindbergh Blvd. St. Louis, MO 63167 AG43XF5, AG47XF5, AG48XF5, AG49XF3, AG50XF5, AG55XF5
Catalyst, SeedKoz, 2713 Paula Drive Ste B, Jonesboro, AR 72404 CT5293E3
Channel, Bayer Crop Science, 800 N. Lindbergh Blvd. St. Louis, MO 63167 3823RXF, 4424RXF/SR, 4821RXF/SR, 5024RXF, 5723RXF/SR
FORTUS, Wilbur Ellis Agribusiness, 87194 494th Avenue, O'Neill, NE 68763 4335E, 4655ES
Golden Harvest, 2001 Butterfield Road, Suite 1600, Downers Grove, IL 60515 GH3774E3, GH3994E3, GH4214E3S, GH4775E3S
HiSOY, Growmark, 1701 Towanda Ave., Bloomington, IL 61701 HS 44E40, HS 45E32, HS 46F40, HS 47E30, HS 47E32, HS 48F40, HS 48E40, HS 50E40, HS 50F40, HS 54E10, HS 54F30
INTEGRA, Wilbur Ellis Agribusiness, 87194 494th Avenue, O'Neill, NE 68763 XF4634S
NK, Syngenta, 4013 Fairmount Pike, Signal Mtn, TN 37377 NK42-A6E3S, NK43-W1XFS, NK47-G5E3S, NK49-N7XF
Perdue, Perdue Agribusiness, 6906 Zion Church Road, Salisbury, MD 21804 P41MO21, P48MO21, P60GO21
Pioneer, Corteva Agriscience, 9330 Zionsville Road Indianapolis, IN 46268 P38A28E, P45A81E, P48A14E, P50Z95E, P56A71E
Revere, Revere Seed, 802 Rozelle Street, Memphis, Tennessee 38104 39-F94, 44-F44, 45-F92, 46-F57, 4826XFS, 48-F72, 49-F36, 51-F31, 53-F84, 5735XFS
Southern Harvest, Meherrin Ag & Chemical Co, Severn, NC 27877 SH 4024 E3, SH 4622 E3/STS, SH 4724 E3/STS, SH 5124 E3, SH 5523 E3, SH 5724 E3
U of Arkansas, 1 U of Arkansas, Fayetteville, AR 72701 R19C-1012, R19C-1035, R18-14502, R18C-13665
U of Missouri, 230 Jesse Hall, Columbia, MO 65211 S20-15411GT, S20-14129GT, S20-7117, S20-1492, S20-13179LL55, S20-4428
USG, UniSouth Genetics, Inc., 3205C Hwy 46 S, Dickson, TN 37055 7415ET, 7435XFS, 7435ET, 7434XF, 7464ET, 7461XFS, 7474XFS, 7485ETS, 7483XFS, 7494ETS, 7495XFS
Virginia Tech, 220 Ag Quad Ln, Blacksburg, VA 24060 V16-1706R2, V17-2447R, V18-1255, V18-2720R2, V18-3081HP, V18-3788, V18-3866, V18-4246R, V19-0064DT, V19-0496HP, V19-0519, V19-0546, V19-0861, V19-1409RR, V19-1453STS, V19-1493, V19-1626, V20-1478R2DI

Table 12b. Seed Suppliers for 2024 Virginia soybean performance tests, double-crop.

Brand, Seed Company, Varieties Tested
Asgrow, Bayer Crop Science, 800 N. Lindbergh Blvd. St. Louis, MO 63167 AG47XF5, AG48XF5, AG49XF3
Catalyst/Seed Koz, 2713 Paula Drive Ste B, Jonesboro, AR 72404 CT5293E3
Channel, Bayer Crop Science, 800 N. Lindbergh Blvd. St. Louis, MO 63167 4821RXF/SR, 5024RXF, 5723RXF/SR
HiSOY, Growmark, 1701 Towanda Ave., Bloomington, IL 61701 HS48E40, HS50F40
NK, Syngenta, 4013 Fairmount Pike, Signal Mtn, TN 37377 NK42-A6E3S, NK43-W1XFS, NK47-G5E3S, NK49-N7XF
Perdue, Perdue Agribusiness, 6906 Zion Church Road, Salisbury, MD 21804 P41MO21, P48MO21, P60GO21
Pioneer, Corteva Agriscience, 9330 Zionsville Road Indianapolis, IN 46268 P38A28E, P48A14E, P56A71E
Revere, Revere Seed, 802 Rozelle Street, Memphis, Tennessee 38104 39-F94, 44-F44, 45-F92, 46-F57, 4826XFS, 48-F72, 49-F36, 51-F31, 53-F84, 5735XFS
Southern Harvest, Meherrin Ag & Chemical Co, P.O. Box 200/4136, Severn Road, Severn, NC 27877 SH 5523 E3, SH5724 E3
USG, UniSouth Genetics, Inc., 3205C Hwy 46 S, Dickson, TN 37055 7474XFS, 7485ETS, 7483XFS, 7494ETS, 7495XFS, 7542ET, 7534GT, 7543XF
Virginia Tech, 220 Ag Quad Ln, Blacksburg, VA 24060 V18-3866, V19-0064DT, V20-1478R2DI, V18-2720R2, V18-3788, V18-3081HP, V17-2447R, V18-4246R, V19-1626, V19-0546, V19-1453STS, V16-1706R2, V18-1255, V19-0496HP, V19-0519, V19-0861, V19-1409RR, V19-1493

Eastern Virginia Agricultural Research and Extension Center, Warsaw, VA

Dr. Joseph Oakes, Mark Vaughn, Austin Gulasky

Eastern Shore Agricultural Research and Extension Center, Painter, VA

Dr. Mark Reiter, Andrew Fletcher, John Mason, Makenzie Shifflet

Southern Piedmont Agricultural Research and Extension Center, Blackstone, VA

Dr. Arash Rashed, Edward “Ned” Jones, Laura DeBusk, Jimmy Morris

Tidewater Piedmont Agricultural Research and Extension Center, Suffolk, VA

Dr. Matthew Chappell, Karl Jones, Bradley Slye, William “Billy” Taylor

Visit Virginia Cooperative Extension: ext.vt.edu

Virginia Cooperative Extension is a partnership of Virginia Tech, Virginia State University, the U.S. Department of Agriculture, and local governments. Its programs and employment are open to all, regardless of age, color, disability, sex (including pregnancy), gender, gender identity, gender expression, genetic information, ethnicity or national origin, political affiliation, race, religion, sexual orientation, or military status, or any other basis protected by law.

2025

SPES-649NP