



Virginia Soybean Performance Tests 2021

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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.

Virginia experienced little stress in 2021. May was very dry at Blackstone, Eastern Shore, and Orange, but rainfall resumed in June. September was generally dry in all locations except Suffolk. As a result of timely rainfall at all sites, yields were generally very good throughout Virginia for full-season and double-crop plantings. Full-season tests at Orange (Northern Piedmont) and Painter (Eastern Shore) were the only locations where yields were somewhat affected due to early-season drought. Due to dry soil conditions in Painter, full-season planting was delayed until the first week of June. We experienced severe groundhog damage to the full-season group 5s at Suffolk (Southern Coastal Plain); so that test was replanted to another field during the first week of June. For double-crop plantings, water-logged soils at Suffolk hindered early-season plant growth; therefore, the short plants resulted in low yields especially among the earlier-maturing varieties. A planter malfunction at Warsaw resulted in variable row lengths and varieties mixed within plots. Although we harvested this test, it was deemed that the information was unusable.

Materials & Methods

Soybean varieties were entered by commercial seed companies, universities, crop improvement associations, and Virginia soybean farmers. Performance tests were conducted under full-season (May-planted) and/or double-crop (planted June to



early-July) systems in the Northern Piedmont (Orange), Southern Piedmont (Blackstone), Northern Coastal Plain (Warsaw), Southern Coastal Plain (Suffolk), and Eastern Shore (Painter) regions of Virginia. All tests were no-till planted, except Warsaw, with an Almaco Seed Pro 6-row planter. 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 Tables on pages 4 and 5. Fertilizer was applied according to Virginia Tech soil test recommendations. Seed treatments were used on most seed, the chemical composition varying with company. Seeding rates were the equivalent to 140,000 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 approached 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 four rows of all plots were harvested with a Wintersteiger Delta 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. Data were collected using the following methods:

Maturity was measured at the date when 95% of the pods turned brown (R8) at Suffolk and Warsaw.

Lodging 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 (45° angle), or 25 to 50% down

4.0 = either all plants leaning considerably or 50 to 80% down

5.0 = all plants down

Plant Height was determined at maturity (R8) 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 ratings may represent Phomopsis seed decay and other seed disease. The following scale was used:

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

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

Yield 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 was used to determine yield.

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 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 ($p = 0.10$).

Interpreting the Results

Tables 1a-1i contain full-season or double-crop yield summaries with 2- and/or 3-year averages where data is available. Past analysis of test data indicated that 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. Not all varieties are tested in full-season and double-crop systems. Therefore, one should not use averages across full-

season and double-crop systems to compare varieties. Varieties in the summary tables are ranked by average yield or relative yield across sites in descending order. The remaining pages (Tables 2a – 10d) contain detailed yield and other performance data from each site. Varieties are again sorted by yield. Traits shown in these tables include lodging, height, purple seed stain, seed quality, seed size, and yield. Upon request, these tables in an Excel spreadsheet can be provided.

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. 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, data for varieties with less than six site-years are considered preliminary. 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 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 significantly different. The coefficient of variation (CV) is a relative measure of variation and is an indicator of the degree of precision associated with the test. CV values less than 15% indicates that the precision of the test was good in distinguishing differences between varieties.

Location information of Virginia soybean full-season performance tests, 2021.

Location	Blackstone	Eastern Shore	Orange	Suffolk	Warsaw
Soil Type	Appling fine sandy loam	Bojac sandy loam	Fauquier clay loam	Dragston fine sandy loam / Eunola loamy fine sand	Kempsville loam
Tillage System	No-till	No-till	No-till	No-till	Conv-till
Row Spacing	15"	15"	15"	15"	30"
Planting Date	6/1/21	6/2/21	5/13/21	MG 3 & 4 - 5/11/21 MG 5 (replant) - 6/14/21	5/11-12/21
Harvest Dates	10/27-28/21	11/2/21 11/4/21	MG 3 & 4 - 10/20/21 MG 5 - 11/8/21	MG 3 – 10/19/21 MG 4 – 10/21/21 MG 5 – 11/2/21	MG 3 & 4E - 10/19/21 MG 4L & 5E - 10/28/21 MG 5L - 11/5/21
Rows Planted/Harvested	6/4	6/4	6/4	6/4	4/2
Harvested Row Length	17	17	17	17	12
Herbicides (at planting)	Liberty 1 qt Medal EC 1.5 pt Authority First 7 oz	Liberty 1 qt Medal EC 1.5 pt Authority First 7 oz	Pre-plant: Liberty 20 oz Trivence 8 oz 5/13/21 Liberty 30 oz Medal EC 1.5 pt	MG 3 & 4: Authority First 7 oz, Medal EC 1.25 pt, Liberty 1 qt Cornerstone Plus 1 qt MG 5: Liberty 1 qt, Valor 3 oz, Medal EC 1.25	5/1/21 First Rate 0.6 oz Dual 1.25 pt Gramoxone 1 qt
Postemergence Herbicides & Dates	Provonis 1 oz Basagran 1 pt Quadfire 1 qt	6/23/21 Basagran 1 qt Dyne-Amic 5 oz 7/14/21 Clethodim 1.25 pt Dyne-Amic 5 oz 7/14/21 & 8/11/21 Basagran 1 pt Dyne-Amic 5 oz	6/8/21 Flexstar 1.5 pt Quadfire 1 qt	6/25/21 (MG 3 & 4) Flexstar 1 pt Dynamic 1 qt 7/7/21 (all MG) Flexstar 1 pt Dynamic 1 qt	6/26/21 Flexstar 20 oz Amaze Gold 1 qt 7/15/21 First Rate 0.4 oz Intensity 14 oz
Insecticides & Dates	---	---	---	8/19/21 Besiege 10 oz Induce 0.25% v/v	7/15/21: Tombstone 2 qt 8/3/21 & 9/3/21 Brigade 2EC 6 oz
Fungicides & Dates	---	---	---	---	7/28/21 Miravis 13.7 oz

Location information of Virginia soybean double-crop performance tests, 2021.

Location	Blackstone	Eastern Shore	Orange	Suffolk	Warsaw
Soil Type	Madison clay loam	Bojac sandy loam	Rapidan silt loam	Rains fine sandy loam (drained)	Kempsville loam
Tillage System	No-till	No-till	No-till	No-till	No-till
Row Spacing (in.)	15	15	15	15	7.5
Planting Date	6/16/21	6/25/21	6/8/21	6/21v	7/7/21
Harvest Dates	11/20/21	11/30/21	11/8-9/21	11/1/21 & 11/24/21	11/18/21 ²
Rows Planted/Harvested	6/4/21	6/4/21	6/4/21	6/4/21	5/5
Harvested Row Length (ft)	17	17	17	17	NA ²
Herbicides at planting (rate/acre) ¹	Liberty 1qt Zidua SC 3.5 oz Authority First 7 oz	Liberty 1qt Roundup PM 1qt Sonic 6.5 oz Medal EC 1.25pts	Liberty 1 qt Medal EC 1.5 pt Authority First 7 oz	Corner Stone Plus 1qt Medal EC at 1.25pt Authority First 7oz	6/29 Roundup PM 1 pt Dual Mag 2 qt Liberate 0.25% v/v
Postemergence Herbicides & Dates (rate/acre) ¹	7/30/21 Clethodim 2E 1 pt Dyne-Amic 5 oz	7/14/21 Clethodim 2E 1pt Dyne-Amic 5 oz 7/14/21 Basagran 1pt Classic.5oz Dyne-Amic 5oz 8/11/21 Basagran 1pt per Dyne-Amic 5oz	8/2/21 Clethodim 2E 1 pt Dyne-Amic 5 oz	8/12/21 Clethodim 2E 1pt Dyne-Amic 5oz 8/12/21 Flexstar 1pt Induce 0.25% v/v	---
Insecticides & Dates (rate/acre) ¹	---	---	---	Besiege 10 oz Induce 0.25% v/v	---
Fungicides & Dates (rate/acre) ¹	---	8/11: Stratego at 10oz	---	8/19: Stratego at 10oz Induce 0.25% v/v	---

¹Pesticide rates are in amount per acre, unless otherwise stated.

²Planter malfunction at Warsaw resulted in variable seeding rate and plot lengths; therefore, yield and other performance data was unusable.

Suppliers of 2020 soybean entries.

SUPPLIER	BRAND	VARIETIES
Bayer Crop Science 800 N Lindbergh Blvd. St. Louis, MO 63167	Asgrow	AG42XF2, AG45XF0, AG46XF2, AG47XF0, AG47XF2, AG48XF0, AG48XF2, AG53XF2, AG54XF0, AG55XF0, AG56XF2, AG57XF1,
BASF 544 Loop Road Clayton, NC 27527	Credenz	CZ3750GTLL, CZ 3930GTLL, XO3861E, CZ4241GTLL, XO4371E, XO4681E, CZ701GTLL
Corteva Agrisciences 1702 Waterford Dr NW Wilson, NC 27896	Pioneer	P48A60X, P53A67X, P49T62E
Donmario Seeds 3414 Big Pine Trail Champaign, IL 61822	Donmario, Virtue	DM46F62, DM46E62, DM48362S, V4520S
Dyna-Gro Seed 1140 Sweet Road East Aurora, NY 19052	Dyna-Gro	S39XF41, S43EN61, S43XF51, S45ES10, S46XF31S, S48EN02, S48XF61S, S48XT90, 49EN12, S52XT91, S56XF01, S58XT30,
Gromark 1701 Towanda Ave. Bloomington, IL 61701	HiSOY	HS45E00, HS46F00, HS48F00, HS48E10, HS54F10
Hubner Seed 111 Stevens Hill Rd Altoona, PA 16601	Hubner	H39-31XF, H42-31XF, H47-30XF, H48-31XF, H51- 22XF
Local Seed Company 802 Rozelle Street Memphis, TN 38104	Local Seed	LS3908XFS, LS4415XF, LS4517XFS, LS4606XFS, LS4795XS, S4707XF, LS4805XFS, LS4806XS, LS4919XFS, LS5009XS, LS5119XF, LS5418XFS, LS5614XF, LS5797X
Mid-Atlantic Seeds 204 St. Charles Way 163E York, PA 17402	Mid-Atlantic Seeds	MAS3220E3, MAS3521E3, MAS3600E3/STS, MAS3721E3/STS, MAS3884GT/LL, MAS4021E3, MAS4120E3, MAS4320E3, MAS4399GT/STS, MAS4675E3/STS, MAS4700GT/STS, MAS4721E3/STS, MAS4820E3/STS
Syngenta 4013 Fairmount Pike Signal Mtn, TN 37377	NK	S43-V8XF, S45-P9XF, S45-V9E3
Progeny Ag Erwin-Keith, Inc. 1529 Hwy. 193 Wynne, AR 72396	Progeny	P4931E3S, P5121E3S, P5521E3, P4821RX, P4970RX, P5554RX, P4501XFS, P4604XFS, P4806XFS, P5003XF, P4521XFS, P4921XFS, P5424XF
Seed Consultants 648 Miami Trace Rd. Washington CH, OH 43160	Seed Consultants	SC7461E, SC7481E, SC7530E

SUPPLIER	BRAND	
Meherrin Ag & Chemical Co P.O. Box 200/4136 Severn Road Severn, NC 27877	Southern Harvest	SH4820E3, SH4920E3, SH5122E3, SH5321E3, SH5321E3, SH5822E3, SH5822E3, SH6020LL/STS, SH6020LL/STS, SH6515LL/STS, SH6515LL/STS
SeedKoz 1725 Windward Concourse Suite 410 Alpharetta, GA 30005	MorSoy	MS 3861 XF, MS 4640 XFMS 4850 XF, MS 5110 E, MS 5491 XF, MS 5461 E, MS 5640 XF
UniSouth Genetics, Inc. 3205C Hwy 46 S Dickson, TN 37055	USG	7382ETS, 7420ETS, 7429ET, 7431ET, 7451ET, 7472ETS, 7491ETS, 542ET, 7392XFS, 7441XF, 7461XFS, 7472XFS, 7482XFS, 7481XF, 7491XFS, 7487XTS, 7480XT, 7461XTS, 7562XF
University of Missouri 147 St Hwy T Portageville, MO 63873	U of Missouri	S17-2243C, S09-13608C, S16-5503R, S16-8898C, S16-9090C
Virginia Crop Improvement Association PO Box 78, Mount Holly, VA 22524	Public	S14-15138GT
Virginia Tech 220 Ag Quad Ln Blacksburg, VA 24060	Virginia Tech	V17-0454, V17-0476, V14-1235, V15-0057DI, V16-0293, V14-0079, V16-0262DI, V17-0437, V17-2478R, V17-2933R, V15-1815DI, V17-2361R, V15-2261ST, V16-2451R2, V16-1485ST,

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2022

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Table 1a. Yield summaries (bu/A) of full-season maturity group 3 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	E Shore	Orange	Suffolk	Warsaw	Avg.
Mid-Atlantic	MAS3884GT/LL	GT/LL	3.8	78.1	71.9	77.5	96.6	82.0
Mid-Atlantic	MAS3721E3/STS	Enlist E3/STS	3.7	71.3	69.1	76.1	99.2	81.5
USG	7392XFS	XtendFlex/STS	3.9	74.8	70.0	83.1	88.0	80.4
Dyna-Gro	S39XF41	XtendFlex/STS	3.9	73.7	67.0	78.1	90.8	78.6
Mid-Atlantic	MAS3600E3/STS	Enlist E3/STS	3.6	63.6	69.5	78.1	86.9	78.2
Local Seed	LS3908XFS	XtendFlex/STS	3.9	74.9	69.3	78.2	85.2	77.6
Xitavo	XO3861E	Enlist E3	3.8	51.2	70.4	68.5	93.0	77.3
Credenz	CZ3750GTLL	GT/LL	3.7	58.6	68.0	72.7	90.7	77.1
Mid-Atlantic	MAS3521E3	Enlist E3	3.5	61.6	65.0	70.9	95.0	77.0
USG	7382ETS	Enlist E3/STS	3.8	64.1	69.2	70.9	88.0	76.0
MorSoy	MS3861 XF	XtendFlex	3.8	63.0	66.0	73.2	88.5	75.9
Credenz	CZ3930GTLL	GT/LL	3.9	77.0	66.6	77.4	83.4	75.8
Asgrow	AG38XF1	Enlist E3	3.8	68.2	66.0	74.0	86.7	75.6
Mid-Atlantic	MAS3220E3	Enlist E3	3.2	61.1	66.5	70.9	88.5	75.3
Hubner	H39-31XF	XtendFlex	3.9	62.7	63.5	68.6	85.4	72.5
LSD P=.10				7.6	9.6	7.7	11.5	
CV				8.1	10.2	7.4	9.2	
Grand Mean				67.0	67.9	74.5	89.7	77.4

Table 1b. Yield summaries (bu/A) of full-season early-maturity group 4 entries, 2021.

Variety	Brand	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Warsaw	Avg.
MorSoy	MS 4640 XF	XtendFlex	4.6	78.8	90.4	70.2	81.3	101.8	84.5
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	81.2	91.3	69.4	88.8	88.8	83.9
HiSOY	HS46F00	XtendFlex	4.6	76.6	82.9	74.0	80.8	100.1	82.9
Virtue Seeds	V4520S	CONV, STS	4.5	80.1	84.0	67.7	84.3	95.5	82.3
NK	S45-V9E3	E3	4.5	77.8	84.9	74.9	82.0	91.2	82.2
Donmario Seeds	DM46F62	XtendFlex	4.6	72.5	82.3	78.4	76.1	99.3	81.7
Local Seed	4606XFS	XtendFlex/STS	4.6	73.6	90.0	66.9	85.4	92.7	81.7
Xitavo	XO4371E	ENLIST	4.3	72.1	84.9	73.1	81.1	96.9	81.6
USG	7461XFS	XtendFlex/STS	4.6	72.1	89.6	63.4	85.3	97.1	81.5
Donmario Seeds	DM46E62	Enlist	4.6	74.6	87.8	71.6	78.5	94.7	81.4
Asgrow	AG46XF2	XtendFlex/SR	4.6	76.7	86.4	64.9	81.2	97.1	81.3
Local Seed	LS4606XFS	XtendFlex / STS	4.6	70.6	90.0	67.6	84.8	92.6	81.1
Mid-Atlantic Seeds	MAS4021E3	Enlist	4	77.9	81.8	64.6	80.6	94.5	79.9
USG	7441XF	XtendFlex	4.4	69.6	83.7	73.3	78.1	90.9	79.1
NK	S45-P9XF	ExtendFlex	4.5	72.4	84.2	70.4	73.8	92.4	78.6
HiSOY	HS45E00	Enlist E3	4.5	76.3	80.3	63.1	81.5	91.8	78.6
USG	7461XTS	Xtend/STS	4.6	70.5	84.0	67.6	73.9	97.0	78.6
Dyna-Gro	S43XF51	XtendFlex	4.3	71.8	81.5	72.1	75.8	91.3	78.5
USG	7451ET	Enlist	4.5	69.9	89.0	56.3	78.6	95.9	77.9
Local Seed	LS4517XFS	XtendFlex / STS	4.5	73.3	73.8	67.5	75.6	97.0	77.4
Progeny	P4541E3S	Enlist/STS	4.5	67.1	82.9	62.0	83.2	91.7	77.4
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	67	83.1	65.9	75.5	94.6	77.2
Asgrow	38XF1	XtendFlex	3.8	76.6	67.2	78.5	70.9	90.6	76.8
Mid-Atlantic Seeds	MAS4320E3	Enlist	4.2	71.9	78.4	73.2	71.9	87.0	76.5
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	56.7	82.4	69.8	74.9	97.3	76.2
Asgrow	AG42XF2	XtendFlex/SR	4.2	78.9	74.6	69.0	69.6	88.5	76.1
VT	V17-0454	Conv	4.6	58	86.0	76.5	77.8	81.4	75.9
VT	V17-0476	Conv	4.6	55.5	90.4	66.2	71.5	96.0	75.9
USG	7420ETS	Enlist/STS	4.2	63	72.2	70.7	75.3	95.6	75.4
University of Missouri	S17-2243C	Conv	4.5	65.1	80.5	63.4	83.2	83.5	75.1
Asgrow	AG45XF0	XtendFlex/SR	4.5	60.3	78.0	77.0	69.9	88.8	74.8

Table 1b. Yield summaries (bu/A) of full-season early-maturity group 4 entries, 2021.

Variety	Brand	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Warsaw	Avg.
Hubner	H42-31XF	RR, Xtend, LL	4.2	70.2	74.9	63.6	77.2	87.8	74.7
USG	7429ET	Enlist	4.2	70.9	69.7	70.1	69.2	92.6	74.5
Xitavo	XO4681E	ENLIST	4.6	60.2	78.4	69.4	69.9	92.4	74.1
USG	7431ET	Enlist	4.3	62.2	74.0	72.5	73.9	82.3	73.0
Local Seed	LS4415XF	XtendFlex	4.4	61.9	77.2	64.5	67.9	89.5	72.2
Dyna-Gro	S43EN61	Enlist E3	4.3	57.4	75.0	69.9	72.9	85.4	72.1
Seed Consultants	SC7461E	EnlistE3	4.6	60.2	78.0	57.1	69.2	88.9	70.7
NK	S43-V8XF	ExtendFlex	4.3	54.9	68.5	69.7	61.8	89.7	68.9
Credenz	CZ 4241GTLL	GTLL	4.2	46.5	71.1	68.9	60.3	91.6	67.7
LSD P=.10				8.9	6.6	12.4	10.5	8.9	
CV				9.6	6.1	13.2	10.2	7.2	
Grand Mean				68.2	80.8	69.0	76.2	91.5	77.1

Table 1c. Yield summaries (bu/A) of full-season late-maturity group 4 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Eastern					Avg.
				Black-stone	Shore	Orange	Suffolk	Warsaw	
Dyna-Gro	S48XT90	RR2 Xtend	4.8	81.1	78.5	71.8	96.8	101.6	86.0
Hubner	H47-30XF	RR, Xtend, LL	4.7	74.9	87.4	74.9	81.9	105.3	84.9
USG	7480XT	Xtend	4.8	75.9	85.4	74.4	81.8	100.7	83.6
Local Seed	LS4795XS	Xtend / STS	4.7	71.9	78.5	74.9	83	107.2	83.1
Local Seed	LS4806XS	Xtend/STS	4.8	74.1	79.7	68.3	82.1	101.9	81.2
USG	7482XFS	XtendFlex/STS	4.8	71.6	79	77.8	78.4	98.3	81.0
Southern Harvest	SH4920E3	Enlist	4.9	75.4	80.7	70.9	77.6	99.2	80.8
USG	7487XTS	Xtend/STS	4.8	77.3	79.3	70.4	83	93.3	80.7
Asgrow	AG48XF2	XtendFlex	4.8	68.4	73.3	76.5	78.3	105.4	80.4
USG	7491ETS	Enlist/STS	4.9	68.0	76.2	73.6	80.3	103.4	80.3
Asgrow	AG47XF2	XtendFlex/SR	4.7	75.8	72.9	68.5	76.4	104.8	79.7
Pioneer	P48A60X	RR2X	4.8	68.2	73.0	75.3	81.6	100.1	79.6
HiSOY	HS 48E10	Enlist E3	4.8	67.4	86.3	74.6	67.6	101.3	79.4
HiSOY	HS 48F00	XtendFlex	4.8	81.2	73.8	72.7	82.4	86.8	79.4
Local Seed	LS4919XFS	XtendFlex / STS	4.9	74.4	85.6	69.6	72	95.2	79.4
Asgrow	AG46XF2	XtendFlex/SR	4.6	72.0	75.6	65.1	81.8	101.9	79.3
Hubner	H48-31XF	RR, Xtend, LL	4.8	80.7	80.4	61.0	75.9	98.1	79.2
Asgrow	AG47XF0	XtendFlex/SR	4.7	73.9	73.2	68.0	87.4	91.0	78.7
VT	V14-0079	Conv	4.9	66.2	81.6	65.5	78.3	98.8	78.1
Seed Consultants	SC7481E	EnlistE3	4.8	69.8	76.2	72.6	76.7	94.6	78.0
Asgrow	AG48XF0	XtendFlex	4.8	75.5	75.7	67.8	76.6	92.0	77.5
Local Seed	LS4805XFS	XtendFlex / STS	4.8	71.5	75.7	70.2	81.7	86.8	77.2
Dyna-Gro	S48XF61S	XtendFlex/STS	4.8	75.1	71.9	67.7	84.6	85.8	77.0
USG	7472XFS	XtendFlex/STS	4.7	71.6	64	74.5	74.8	97.9	76.6
Local Seed	LS4707XF	XtendFlex	4.7	63.4	70.9	71.0	76.8	97.6	75.9
Dyna-Gro	S49EN12	Enlist	4.9	64.4	79.5	62.8	73.5	98.4	75.7
Pioneer	P49T62E	Enlist	4.9	72.1	75.7	65.8	74.3	90.3	75.6
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	69.3	67.8	66.8	71.4	102.5	75.6
Dyna-Gro	S48EN02	Enlist E3	4.8	56.9	76.7	74.1	71.3	97.4	75.3
VT	V15-0057DI	Conv	4.8	62.2	82.8	66.8	61.7	102.8	75.3
Southern Harvest	SH4820E3	Enlist/STS	4.8	65.7	77.4	67.5	70.3	93.8	74.9
Donmario Seeds	DM48E62S	Enlist/STS	4.8	72.1	65.6	69.9	70.1	94.9	74.5
USG	7472ETS	Enlist/STS	4.7	67.7	62.3	68.4	74.6	99.2	74.4

Table 1c. Yield summaries (bu/A) of full-season late-maturity group 4 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Warsaw	Avg.
USG	7481XF	XtendFlex	4.8	65.5	68.8	64.9	71.9	99.8	74.2
VT	V16-0293	Conv	4.8	66.4	74.2	62.7	73	93.6	74.0
USG	7491XFS	XtendFlex/STS	4.9	78.1	64.5	65.3	73.1	87.1	73.6
MorSoy	MS 4850 XF	XtendFlex	4.8	73.7	61.9	62.6	83.6	81.4	72.6
University of Missouri	S16-5503R	RR1	4.8	68.9	71.1	58.2	70.4	94.4	72.6
Credenz	CZ 4701GTLL	GTLL	4.7	58.7	74	67.9	67.4	93.2	72.2
VT	V16-0262DI	Conv	4.9	70.9	71.5	56.7	70.3	89.7	71.8
University of Missouri	S09-13608C	Conv	4.7	64.9	68.3	54.0	72.4	98.5	71.6
Public	S14-15138GT	GT/STS	4.8	67.2	64	62.8	72.6	87.9	70.9
VT	V14-1235	Conv	4.8	66.9	58.8	65.4	75.6	85.5	70.4
University of Missouri	S16-8898C	Conv	4.8	54.1	74.4	56.0	68.5	94.9	69.6
VT	V17-2478R	RR	4.9	62.1	66.9	62.2	61.7	94.7	69.5
VT	V17-0437	Conv	4.9	57.1	68.9	48.9	70.7	97.2	68.6
LSD P=.10				8.2	9.1	7.0	8.8	7.6	
CV				8.6	9.0	7.7	8.5	5.8	
Grand Mean				70.3	74.8	67.2	76.4	95.9	76.8

Table 1d. Yield summaries (bu/A) of full-season early-maturity group 5 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Warsaw	Avg.
Asgrow	AG54XF0	XtendFlex/SR	5.4	77.7	65.2	73.3	56.9	103.5	75.3
Local Seed	LS5119XF	XtendFlex	5.1	76.3	54.9	66.6	56.6	104.0	71.7
MorSoy	MS 5461 E	ENLIST	5.4	70.0	56.6	72.5	55.1	103.8	71.6
Asgrow	AG56XF2	XtendFlex	5.6	69.5	61.4	68.5	63.1	92.2	70.9
Pioneer	P53A67X	RR2X	5.3	73.7	61.5	70.1	50.8	98.3	70.9
Dyna-Gro	S52XT91	RR2 Xtend	5.2	71.6	63.0	68.6	53.2	97.7	70.8
VT	V15-1815DI	Conv	5.2	68.8	67.5	70.4	47.8	98.7	70.6
USG	7542ET	Enlist	5.4	68.1	59.1	75.2	58.9	89.9	70.2
Asgrow	AG53XF2	XtendFlex/SR	5.3	74.8	54.6	70.4	48.0	98.2	69.2
MorSoy	MS 5491 XF	XtendFlex	5.3	63.5	63.4	62.6	62.0	94.0	69.1
Hubner	H51-22XF	RR, Xtend, LL	5.1	73.4	62.4	66.0	48.2	95.1	69.0
Local Seed	LS5009XS	Xtend / STS	5.0	68.7	56.3	69.6	55.0	93.2	68.6
MorSoy	MS 5110 E	ENLIST	5.1	64.6	58.9	65.7	56.5	94.7	68.1
HiSOY	HS 54F10	XtendFlex	5.4	66.0	64.9	61.7	54.8	92.8	68.0
Southern Harvest	SH5321E3	Enlist/STS	5.3	69.0	58.6	71.4	46.4	94.8	68.0
Local Seed	LS5418XFS	XtendFlex / STS	5.4	64.8	62.6	67.3	46.1	92.4	66.6
University of Missouri	S16-9090C	Conv	5.2	63.1	63.4	65.1	44.8	95.7	66.4
VT	V16-2451R2	RR2Y	5.5	66.0	56.3	64.5	50.4	93.0	66.0
Asgrow	AG55XF0	XtendFlex	5.5	58.1	52.2	59.0	55.9	91.9	63.4
VT	V17-2361R	RR	5.3	61.4	56.5	55.3	49.0	94.7	63.4
Southern Harvest	SH5122E3	Enlist	5.1	71.1	46.5	54.9	50.9	91.7	63.0
VT	V17-2933R	RR	5.2	62.1	52.9	66.7	43.0	85.8	62.1
Seed Consultants	SC7530E	EnlistE3	5.3	66.5	49.1	55.9	45.7	92.9	62.0
VT	V15-2261ST	STS	5.2	62.5	56.5	62.4	45.5	82.8	61.9
LSD P=.10				8.5	7.9	9.2	9.9	8.3	
CV				9.2	9.9	10.2	14.0	6.5	
Grand Mean				67.4	58.6	66.1	51.7	94.2	67.8

Table 1e. Yield summaries (bu/A) of full-season late-maturity group 5 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Warsaw	Avg.
Asgrow	AG57XF1	XtendFlex/SR	5.7	68.8	63.9	68.8	65.0	91.9	71.7
Southern Harvest	SH6515LL/STS	LL/STS	6.5	60.7	68.0	60.7	56.4	96.0	68.4
Dyna-Gro	S58XT30	RR2 Xtend	5.8	60.8	65.4	60.8	54.7	100.0	68.3
Asgrow	AG56XF2	XtendFlex	5.6	60.1	67.7	60.1	62.0	89.1	67.8
Local Seed	LS5797X	Xtend	5.7	60.9	65.8	60.9	53.5	95.7	67.4
Southern Harvest	SH6020LL/STS	LL/STS	6	66.5	58.7	66.5	55.2	89.5	67.3
USG	7562XF	XtendFlex	5.6	61.7	63.3	61.7	54.8	94.4	67.2
Local Seed	LS5614XF	XtendFlex	5.6	65.6	51.2	65.6	54.2	95.8	66.5
Hubner	H58-21XF	XtendFlex	5.8	63.1	62.2	63.1	54.3	86.2	65.8
VT	V16-1485ST	STS	5.8	58.8	63.7	58.8	45.7	99.9	65.4
MorSoy	MS 5640 XF	XtendFlex	5.6	62.6	56.2	62.6	57.3	87.3	65.2
USG	5618V	Conv	5.6	58.0	58.9	58.0	54.1	88.4	63.5
Southern Harvest	SH4622E3	Enlist	4.6	63.7	43.1	63.7	37.9	93.9	60.5
Dyna-Gro	S56XF01	XtendFlex	5.6	52.1	56.3	52.1	52.0	87.3	60.0
LSD P=.10				7.4	7.9	7.4	9.0	6.7	
CV				8.7	9.4	8.7	12.1	5.3	
Grand Mean				61.5	60.3	61.5	53.4	91.9	65.7

Table 1f. Yield summaries (bu/A) of double-crop early-maturity group 4 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Avg.
USG	7451ET	Enlist	4.5	71.2	66.1	77.2	60.7	68.8
USG	7461XTS	Xtend/STS	4.6	75.2	66.3	74.0	57.1	68.2
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	76	62.2	78.7	55.4	68.1
Progeny	P4604XFS	XtendFlex	4.6	69	64.4	82.5	56.1	68.0
USG	7461XFS	XtendFlex/STS	4.6	72.7	70.1	75.2	53.1	67.8
Asgrow	AG46XF2	XtendFlex/SR	4.6	69.5	73.3	71.3	56.9	67.8
HiSOY	HS46F00	XtendFlex	4.6	78.5	64.6	79.5	46.8	67.4
HiSOY	HS45E00	Enlist E3	4.5	76.6	65.8	74.1	49.0	66.4
Local Seed	LS4606XFS	XtendFlex / STS	4.6	71.7	68.1	75.0	50.0	66.2
USG	7429ET	Enlist	4.2	59.1	66.2	78.1	48.1	62.9
Local Seed	LS4415XF	XtendFlex	4.4	70.7	63.4	72.0	44.8	62.7
Asgrow	AG45XF0	XtendFlex/SR	4.5	68.2	64.4	63.6	53.5	62.4
VT	V17-0476	Conv	4.6	67.4	63.5	78.1	40.4	62.4
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	63.6	62.1	77.3	44.4	61.9
Progeny	P4501XFS	XtendFlex	4.5	62.1	67.1	64.6	52.4	61.6
Dyna-Gro	S46ES91	Enlist E3/STS	4.6	58.7	63.4	78.4	45.6	61.5
USG	7441XF	XtendFlex	4.4	64.9	60.4	69.7	48.8	61.0
Mid-Atlantic Seeds	MAS4700GT/STS	GT/STS	4.7	63.8	62.2	65.6	52.1	60.9
Progeny	P4521XFS	XtendFlex	4.5	61	62.9	69.9	49.3	60.8
Hubner	H42-31XF	RR, Xtend, LL	4.2	65.1	62.5	67.1	47.1	60.5
Local Seed	LS4517XFS	XtendFlex / STS	4.5	68.1	68.6	63.3	36.6	59.2
Xitavo	XO4681E	ENLIST	4.6	60.7	62.1	68.0	44.3	58.8
Mid-Atlantic Seeds	MAS4399GT/STS	GT/STS	4.3	58.3	65.6	65.3	45.5	58.7
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	47.9	60.2	81.5	42.6	58.1
Pioneer	P40A40	Conv	4	76	37.7	66.5	41.9	55.5
Xitavo	XO4371E	ENLIST	4.3	44.3	63.5	71.8	41.8	55.4
Asgrow	AG42XF2	XtendFlex/SR	4.2	47.6	62.9	66.5	40.9	54.5
VT	V17-0454	Conv	4.6	62.9	62.1	62.2	30.3	54.4
USG	7420ETS	Enlist/STS	4.2	47.1	60.5	68.8	36.0	53.1
Credenz	CZ4241GTLL	GTLL	4.2	38.1	67.5	62.5	39.7	52.0
USG	7431ET	Enlist	4.3	50.1	61.4	64.8	30.6	51.7

Table 1f. Yield summaries (bu/A) of double-crop early-maturity group 4 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Avg.
Dyna-Gro	S43XS27	Xtend/STS	4.3	32.2	59.2	61.9	31.7	46.3
LSD P=.10				8.8	6.5	8.5	9.7	
CV				10.3	7.6	8.8	15.4	
Grand Mean				62.6	62.8	70.8	46.2	60.8

Table 1g. Yield summaries (bu/A) of double-crop late-maturity group 4 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Avg.
Mid-Atlantic Seed	MAS4721E3/STS	Enlist/STS	4.7	75.5	64.4	74.2	58.8	68.2
Hubner	H47-30XF	XtendFlex	4.7	69.5	60.2	76.6	60.6	66.7
Local Seed	LS4806XS	Xtend/STS	4.8	77.4	54.0	76.0	58.7	66.5
Asgrow	AG48XF2	XtendFlex	4.8	60.0	65.2	77.7	62.4	66.3
Local Seed	LS4795XS	Xtend / STS	4.7	72.5	57.5	78.0	57.3	66.3
USG	7480XT	Xtend	4.8	73.9	62.1	71.8	56.5	66.1
USG	7482XFS	XtendFlex/STS	4.8	67.0	60.5	73.2	63.6	66.0
Asgrow	AG48XF0	XtendFlex/SR	4.8	67.6	59.5	78.5	58.3	66.0
Hubner	H48-31XF	XtendFlex	4.8	72.0	59.7	72.5	59.5	65.9
Local Seed	LS4805XFS	XtendFlex / STS	4.8	70.8	50.0	76.0	65.9	65.7
Progeny	P4921XFS	XtendFlex	4.9	62.8	63.2	73.4	62.9	65.6
USG	7472XFS	XtendFlex/STS	4.7	68.3	54.8	75.1	60.8	64.8
VT	V17-0437	Conv	4.9	65.7	48.5	73.9	69.3	64.4
USG	7491XFS	XtendFlex/STS	4.9	68.0	56.4	72.6	59.5	64.1
Progeny	P4821RX	Xtend	4.8	65.6	57.2	70.6	62.7	64.0
VT	V14-0079	Conv	4.9	72.0	59.9	67.5	55.8	63.8
Pioneer	P48A60X	RR2X	4.8	58.6	56.0	79.7	58.7	63.3
Mid-Atlantic Seed	MAS4820E3/STS	Enlist/STS	4.8	63.0	61.7	69.7	56.1	62.6
Pioneer	P49T62E	E3	4.9	65.2	60.8	63.0	60.6	62.4
USG	7472ETS	Enlist/STS	4.7	68.8	55.5	71.3	54.0	62.4
USG	7491ETS	Enlist/STS	4.9	64.4	60.2	65.5	59.1	62.3
Dyna-Gro	S49EN79	Enlist E3	4.9	58.5	57.6	72.8	60.2	62.3
VT	V15-0057DI	Conv	4.8	65.3	59.3	71.2	53.1	62.2
VT	V16-0293	Conv	4.8	63.9	56.4	64.1	64.1	62.1
Asgrow	AG47XF0	XtendFlex/SR	4.7	69.2	56.2	69.3	53.7	62.1
Credenz	CZ4701GTLL	GTLL	4.7	63.0	56.1	69.3	58.5	61.7
Dyna-Gro	S49EN12	Enlist E3	4.9	55.5	64.3	71.6	55.5	61.7
Pioneer	P49A10S	STS	4.9	55.4	66.3	72.8	51.3	61.5
Local Seed	LS4919XFS	XtendFlex / STS	4.9	64.2	55.4	67.3	58.7	61.4
USG	7481XF	XtendFlex	4.8	61.2	51.4	65.9	64.9	60.9
HiSOY	HS48F00	XtendFlex	4.8	71.8	52.6	65.6	53.3	60.8

Table 1g. Yield summaries (bu/A) of double-crop late-maturity group 4 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Avg.
Local Seed	LS4707XF	XtendFlex	4.7	72.4	44.6	62.5	63.5	60.8
Dyna-Gro	S48XT90	RR2 Xtend	4.8	63.7	47.8	74.2	57.2	60.7
Progeny	P4806XFS	XtendFlex	4.8	66.0	47.2	73.3	56.1	60.7
Progeny	P4970RX	Xtend	4.9	70.1	50.0	65.2	55.8	60.3
HiSOY	HS48E10	Enlist E3	4.8	59.0	59.0	65.2	55.4	59.7
VT	V16-0262DI	Conv	4.9	65.8	50.8	61.9	60.0	59.6
Progeny	4775E3S	Enlist/STS	4.7	61.3	56.3	67.9	52.6	59.5
Asgrow	AG47XF2	XtendFlex/SR	4.7	58.9	55.5	72.7	50.5	59.4
VT	V17-2478R	RR	4.9	52.5	53.6	64.3	61.8	58.1
Progeny	P4931E3S	Enlist	4.9	51.8	57.4	64.6	55.7	57.4
Public	S14-15138GT	GT/STS	4.8	50.9	56.0	63.8	56.6	56.8
VT	V14-1235	Conv	4.8	58.6	48.7	63.6	40.1	52.8
LSD P=.10				6.7	9.1	9.8	10.3	
CV				7.5	12.0	10.3	13.0	
Grand Mean				65.2	56.4	70.2	57.9	62.5

Table 1h. Yield summaries (bu/A) of double-crop early-maturity group 5 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Avg.
Dyna-Gro	S52XT91	Xtend	5.2	74.1	75.6	80.5	65.0	73.8
Asgrow	AG53XF2	XtendFlex/STS	5.3	78.6	63.5	87.2	59.0	72.1
Progeny	P5121E3S	EnlistE3	5.1	71.1	67.6	79.6	61.8	70.0
Local Seed	LS5119XF	XtendFlex	5.1	77.9	53.4	76.1	69.8	69.3
Pioneer	P53A67X	RR2X	5.3	76.2	70.8	68.5	58.7	68.5
Asgrow	AG54XF0	XtendFlex/STS	5.4	69.8	67.9	78.0	58.2	68.5
Local Seed	LS5009XS	Xtend/STS	5.0	75.8	60.5	74.4	62.5	68.3
USG	7542ET	EnlistE3	5.4	72.3	65.0	73.2	59.8	67.6
Progeny	P5521E3	EnlistE3	5.5	70.8	65.0	74.0	58.5	67.1
Progeny	P5424XF	XtendFlex	5.4	69.6	64.5	71.3	62.3	66.9
Hubner	H51-22XF	XtendFlex	5.1	74.6	65.2	70.9	55.3	66.5
Local Seed	LS5418XFS	XtendFlex/STS	5.4	73.7	62.3	67.9	60.9	66.2
VT	V15-2261ST	STS	5.2	64.4	68.3	74.5	56.9	66.0
Asgrow	AG55XF0	XtendFlex	5.5	71.0	64.2	66.9	60.5	65.7
Progeny	P5554RX	Xtend	5.5	66.1	65.7	66.5	58.4	64.2
VT	V17-2933R	RR	5.2	68.4	58.2	71.0	58.3	64.0
VT	V17-2361R	RR	5.3	61.4	63.8	67.1	62.4	63.7
Southern Harvest	SH5321E3	EnlistE3/STS	5.3	64.2	59.8	70.1	59.9	63.5
Progeny	P5003XF	XtendFlex	5.0	70.3	62.4	66.0	54.4	63.3
VT	V16-2451R2	RR2Y	5.5	64.4	61.8	66.7	53.6	61.6
HiSOY	HS54F10	XtendFlex	5.4	69.3	62.8	63.4	48.7	61.1
VT	V15-1815DI	Conv	5.2	68.0	52.9	72.3	50.8	61.0
LSD P=.10				6.9	7.4	8.2	7.3	
CV				7.3	8.4	8.3	9.1	
Grand Mean				69.6	63.9	71.7	58.6	66.3

Table 1i. Yield summaries (bu/A) of double-crop late-maturity group 5 entries, 2021.

Brand	Variety	Herbicide Resistance	Relative Maturity	Black-stone	Eastern Shore	Orange	Suffolk	Avg.
Dyna-Gro	S56XT99	XtendFlex	5.6	71.0	61.4	75.9	63.7	68.0
Dyna-Gro	S58XT30	Xtend	5.8	70.9	67.4	63.3	65.1	66.7
USG	7562XF	XtendFlex	5.6	72.0	61.5	61.3	67.8	65.7
Southern Harvest	SH5822E3	EnlistE3/STS	5.8	68.6	65.7	59.7	64.2	64.6
USG	5618V	Conv	5.6	70.4	56.6	60.3	64.1	62.8
VT	V16-1485ST	STS	5.8	66.0	54.6	71.2	58.5	62.6
Asgrow	AG56XF2	XtendFlex	5.6	64.5	55.6	68.9	58.7	61.9
Southern Harvest	SH6515LL/STS	LL/STS	6.5	70.8	57.5	61.6	57.4	61.8
Asgrow	AG57XF1	XtendFlex/STS	5.7	55.3	60.6	69.9	59.8	61.4
Southern Harvest	SH6020LL/STS	LL/STS	6	59.4	61.8	59.7	62.3	60.8
Dyna-Gro	S56XF01	XtendFlex	5.6	64.1	53.0	64.4	57.1	59.7
Hubner	H58-21XF	XtendFlex	5.8	58.7	55.9	58.9	59.7	58.3
LSD P=.10				7.6	9.7	12.5	9.3	
CV				8.2	11.8	14.0	10.5	
Grand Mean				66.2	58.8	63.9	61.9	62.8

Table 2a. Performance of full-season maturity group 3 entries at Eastern Shore VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG38XF1	Enlist E3	3.8	28.0	1.0	2.0	2	2482	68.2
Credenz	CZ3750GTLL	GT/LL	3.7	25.7	1.0	3.0	3	2560	58.6
Credenz	CZ3930GTLL	GT/LL	3.9	32.3	1.3	2.3	3	2532	77.0
Dyna-Gro	S39XF41	XtendFlex/STS	3.9	31.3	1.0	2.0	1	2413	73.7
Hubner	H39-31XF	XtendFlex	3.9	30.3	1.0	2.0	2	2358	62.7
Local Seed	LS3908XFS	XtendFlex/STS	3.9	31.3	1.0	2.0	1	2377	74.9
Mid-Atlantic	MAS3220E3	Enlist E3	3.2	25.0	1.0	3.0	11	2375	61.1
Mid-Atlantic	MAS3521E3	Enlist E3	3.5	25.7	1.0	3.0	2	2533	61.6
Mid-Atlantic	MAS3600E3/STS	Enlist E3/STS	3.6	27.3	1.0	2.0	6	2477	63.6
Mid-Atlantic	MAS3721E3/STS	Enlist E3/STS	3.7	30.0	1.8	2.0	2	2732	71.3
Mid-Atlantic	MAS3884GT/LL	GT/LL	3.8	32.7	1.3	1.0	1	2477	78.1
MorSoy	MS3861 XF	XtendFlex	3.8	30.0	2.3	2.0	4	2369	63.0
USG	7382ETS	Enlist E3/STS	3.8	25.3	1.0	3.0	3	2363	64.1
USG	7392XFS	XtendFlex/STS	3.9	30.3	1.0	1.0	0	2403	74.8
Xitavo	XO3861E	Enlist E3	3.8	24.7	1.0	3.3	4	2810	51.2
LSD P=.10				2.2	0.3	0.3	2.1	102	7.6
CV				5.5	16.8	9.1	48	3.0	8.1
Grand Mean				28.7	1.2	2.2	3.1	2484	67.0

Table 2b. Performance of full-season maturity group 3 entries at Orange VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG38XF1	Enlist E3	3.8	37.3	1.2	2.0	3	2483	66.0
Credenz	CZ3750GTLL	GT/LL	3.7	35.0	1.1	2.3	10	2456	68.0
Credenz	CZ3930GTLL	GT/LL	3.9	38.3	1.3	2.3	9	2297	66.6
Dyna-Gro	S39XF41	XtendFlex/STS	3.9	40.0	1.3	2.0	2	2419	67.0
Hubner	H39-31XF	XtendFlex	3.9	36.7	1.2	2.0	6	2368	63.5
Local Seed	LS3908XFS	XtendFlex/STS	3.9	38.7	1.4	2.0	4	2374	69.3
Mid-Atlantic	MAS3220E3	Enlist E3	3.2	34.3	1.5	3.0	15	2494	66.5
Mid-Atlantic	MAS3521E3	Enlist E3	3.5	32.0	1.1	2.0	3	2518	65.0
Mid-Atlantic	MAS3600E3/STS	Enlist E3/STS	3.6	36.7	1.3	2.3	12	2605	69.5
Mid-Atlantic	MAS3721E3/STS	Enlist E3/STS	3.7	35.0	1.2	2.0	4	2504	69.1
Mid-Atlantic	MAS3884GT/LL	GT/LL	3.8	37.0	1.3	2.0	4	2234	71.9
MorSoy	MS3861 XF	XtendFlex	3.8	40.3	1.8	2.0	6	2425	66.0
USG	7382ETS	Enlist E3/STS	3.8	33.3	1.2	2.7	4	2337	69.2
USG	7392XFS	XtendFlex/STS	3.9	38.0	1.4	2.0	7	2326	70.0
Xitavo	XO3861E	Enlist E3	3.8	31.0	1.1	3.0	15	2362	70.4
LSD P=.10				2.2	0.3	0.4	4.6	109	9.6
CV				4.4	15.4	12.9	48	3.2	10.2
Grand Mean				36.2	1.3	2.2	6.9	2413	67.9

Table 2c. Performance of full-season maturity group 3 entries at Suffolk VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG38XF1	Enlist E3	3.8	10-Sep	37.3	1.0	2.0	2	2523	74.0
Credenz	CZ3750GTLL	GT/LL	3.7	10-Sep	34.0	1.0	2.0	3	2757	72.7
Credenz	CZ3930GTLL	GT/LL	3.9	10-Sep	37.0	2.3	3.0	1	2460	77.4
Dyna-Gro	S39XF41	XtendFlex/STS	3.9	11-Sep	37.3	1.3	2.0	5	2378	78.1
Hubner	H39-31XF	XtendFlex	3.9	10-Sep	38.3	1.0	2.0	3	2477	68.6
Local Seed	LS3908XFS	XtendFlex/STS	3.9	10-Sep	38.7	1.0	2.0	3	2390	78.2
Mid-Atlantic	MAS3220E3	Enlist E3	3.2	10-Sep	31.3	1.7	3.0	6	2758	70.9
Mid-Atlantic	MAS3521E3	Enlist E3	3.5	10-Sep	32.0	3.0	3.0	2	2774	70.9
Mid-Atlantic	MAS3600E3/STS	Enlist E3/STS	3.6	10-Sep	35.0	1.3	2.0	3	2900	78.1
Mid-Atlantic	MAS3721E3/STS	Enlist E3/STS	3.7	10-Sep	38.0	2.3	2.0	2	2812	76.1
Mid-Atlantic	MAS3884GT/LL	GT/LL	3.8	10-Sep	35.7	1.7	2.0	2	2508	77.5
MorSoy	MS3861 XF	XtendFlex	3.8	10-Sep	38.4	2.8	2.0	4	2438	73.2
USG	7382ETS	Enlist E3/STS	3.8	10-Sep	31.7	1.7	3.0	1	2609	70.9
USG	7392XFS	XtendFlex/STS	3.9	11-Sep	40.3	1.7	2.0	4	2340	83.1
Xitavo	XO3861E	Enlist E3	3.8	10-Sep	28.3	1.0	4.0	3	2863	68.5
LSD P=.10				1.1	2.5	0.7	1.0	1.8	93	7.7
CV				0.7	5.1	31.9	0.0	46	2.6	7.4
Grand Mean				10-Sep	35.5	1.6	2.4	2.9	2602	74.6

Table 2d. Performance of full-season maturity group 3 entries at Warsaw VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG38XF1	Enlist E3	3.8	27-Sep	35.7	1.7	3.0	4	2492	86.7
Credenz	CZ3750GTLL	GT/LL	3.7	22-Sep	34.0	1.7	2.7	5	2515	90.7
Credenz	CZ3930GTLL	GT/LL	3.9	29-Sep	36.3	2.3	3.7	5	2510	83.4
Dyna-Gro	S39XF41	XtendFlex/STS	3.9	28-Sep	38.7	1.8	3.3	4	2325	90.8
Hubner	H39-31XF	XtendFlex	3.9	26-Sep	36.7	1.3	2.7	4	2250	85.4
Local Seed	LS3908XFS	XtendFlex/STS	3.9	26-Sep	37.3	1.6	3.0	7	2299	85.2
Mid-Atlantic	MAS3220E3	Enlist E3	3.2	23-Sep	33.7	2.0	3.3	3	2529	88.5
Mid-Atlantic	MAS3521E3	Enlist E3	3.5	22-Sep	32.7	2.2	2.7	3	2548	95.0
Mid-Atlantic	MAS3600E3/STS	Enlist E3/STS	3.6	20-Sep	32.7	1.6	2.7	1	2589	86.9
Mid-Atlantic	MAS3721E3/STS	Enlist E3/STS	3.7	27-Sep	35.3	2.3	2.3	2	2510	99.2
Mid-Atlantic	MAS3884GT/LL	GT/LL	3.8	30-Sep	38.7	2.3	2.7	3	2506	96.6
MorSoy	MS3861 XF	XtendFlex	3.8	22-Sep	34.7	2.3	3.3	3	2606	88.5
USG	7382ETS	Enlist E3/STS	3.8	21-Sep	34.7	2.4	3.0	2	2450	88.0
USG	7392XFS	XtendFlex/STS	3.9	27-Sep	38.7	1.8	2.0	3	2346	88.0
Xitavo	XO3861E	Enlist E3	3.8	25-Sep	34.3	2.3	3.7	5	2528	93.0
LSD P=.10				2.7	3.1	0.5	0.8	3.6	129	11.5
CV				7.9	6.3	18.9	18.8	73	3.8	9.2
Grand Mean				25-Sep	35.6	2.0	2.9	3.5	2467	89.7

Table 3a. Performance of full-season early maturity group 4 entries at Blackstone VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	38XF1	XtendFlex	3.8	40.7	1.3	2.3	2	2502	76.6
Asgrow	AG42XF2	XtendFlex/SR	4.2	45.0	1.8	2.0	3	2329	78.9
Asgrow	AG45XF0	XtendFlex/SR	4.5	43.0	2.0	2.0	0	3110	69.6
Asgrow	AG46XF2	XtendFlex/SR	4.6	42.0	1.7	2.0	0	3138	76.7
Credenz	CZ 4241GTLL	GTLL	4.2	34.0	1.1	2.3	1	2748	48.8
Donmario Seeds	DM46E62	Enlist	4.6	42.3	2.3	2.3	0	3373	74.6
Donmario Seeds	DM46F62	XtendFlex	4.6	43.7	1.7	2.0	0	3118	72.5
Dyna-Gro	S43EN61	Enlist E3	4.3	36.0	1.0	2.3	4	2981	63.0
Dyna-Gro	S43XF51	XtendFlex	4.3	38.3	1.7	2.0	1	3312	57.4
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	36.3	1.5	2.0	0	3021	56.7
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	46.0	1.5	2.0	1	2668	81.2
HiSOY	HS 45E00	Enlist E3	4.5	39.7	1.2	2.0	1	3192	76.3
HiSOY	HS 46F00	XtendFlex	4.6	47.0	1.7	2.0	0	2726	76.6
Hubner	H42-31XF	RR, Xtend, LL	4.2	43.7	1.7	2.0	2	2720	70.2
Local Seed	4606XFS	XtendFlex/STS	4.6	43.3	1.7	1.7	0	2666	73.6
Local Seed	LS4415XF	XtendFlex	4.4	40.7	1.7	2.0	0	2614	72.1
Local Seed	LS4517XFS	XtendFlex / STS	4.5	46.7	2.5	2.0	0	2808	73.3
Local Seed	LS4606XFS	XtendFlex / STS	4.6	45.3	2.0	1.7	0	2706	70.6
Mid-Atlantic Seeds	MAS4021E3	Enlist	4.0	39.0	1.7	2.0	1	2846	77.9
Mid-Atlantic Seeds	MAS4320E3	Enlist	4.2	33.7	1.2	2.0	0	3111	60.5
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	44.3	1.3	1.7	0	3039	67.0
MorSoy	MS 4640 XF	XtendFlex	4.6	43.3	1.7	1.7	0	2725	78.8
NK	S43-V8XF	ExtendFlex	4.3	41.0	1.3	2.0	2	2606	67.1
NK	S45-P9XF	ExtendFlex	4.5	44.3	2.0	2.0	1	2919	72.4
NK	S45-V9E3	E3	4.5	41.0	1.5	2.0	1	2724	77.8
Progeny	P4541E3S	Enlist/STS	4.5	41.3	1.3	2.0	0	3377	71.8
Seed Consultants	SC7461E	EnlistE3	4.6	37.3	1.5	2.0	0	3348	60.2
U of Missouri	S17-2243C	Conv	4.5	42.7	1.5	2.0	0	3220	65.1
USG	7420ETS	Enlist/STS	4.2	38.0	1.3	2.3	2	2767	70.9
USG	7429ET	Enlist	4.2	37.7	1.7	2.0	1	3272	71.9
USG	7431ET	Enlist	4.3	35.3	1.3	2.0	1	3041	54.9
USG	7441XF	XtendFlex	4.4	38.7	1.5	2.0	1	3061	61.9
USG	7451ET	Enlist	4.5	43.0	1.8	2.0	0	3069	69.9
USG	7461XFS	Xtend/STS	4.6	44.7	1.5	2.0	0	2635	72.1
USG	7461XTS	Xtend/STS	4.6	43.7	1.7	2.0	0	3169	70.5
Virtue Seeds	V4520S	CONV/STS	4.5	42.0	1.7	2.3	0	2903	80.1
VT	V17-0454	Conv	4.6	32.3	1.2	2.0	0	3133	58.0
VT	V17-0476	Conv	4.6	36.0	2.3	2.0	0	3080	55.5
Xitavo	XO 4371E	ENLIST	4.3	36.0	1.3	2.0	2	2981	62.2
Xitavo	XO 4681E	ENLIST	4.6	41.0	1.7	2.0	0	2964	60.2
LSD P=.10				3.7	0.4	0.4	1.1	160	8.9
CV				6.7	18.2	13.9	116	4.0	9.6
Grand Mean				40.8	1.6	2.0	0.7	2966	68.2

Table 3b. Performance of full-season early maturity group 4 entries at Eastern Shore VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	38XF1	XtendFlex	3.8	34.0	1.2	2.0	2	2488	67.2
Asgrow	AG42XF2	XtendFlex/SR	4.2	39.0	1.6	1.7	5	2341	74.6
Asgrow	AG45XF0	XtendFlex/SR	4.5	39.0	1.7	1.3	1	2921	83.7
Asgrow	AG46XF2	XtendFlex/SR	4.6	40.0	2.3	2.0	3	3015	86.4
Credenz	CZ 4241GTLL	GTLL	4.2	35.0	1.3	2.3	4	2508	71.1
Donmario Seeds	DM46E62	Enlist	4.6	36.0	2.7	2.0	2	3197	87.8
Donmario Seeds	DM46F62	XtendFlex	4.6	40.0	1.6	1.0	0	3036	82.3
Dyna-Gro	S43EN61	Enlist E3	4.3	37.0	1.2	2.3	3	2844	72.2
Dyna-Gro	S43XF51	XtendFlex	4.3	36.0	1.7	1.3	1	2936	75.0
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	39.0	1.8	2.0	1	2764	82.4
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	41.0	1.9	2.0	3	2504	91.3
HiSOY	HS 45E00	Enlist E3	4.5	34.0	1.2	2.0	1	2945	80.3
HiSOY	HS 46F00	XtendFlex	4.6	37.0	1.5	2.0	2	2541	82.9
Hubner	H42-31XF	RR, Xtend, LL	4.2	40.0	1.7	1.3	1	2742	74.9
Local Seed	4606XFS	XtendFlex/STS	4.6	42.0	2.2	2.0	2	2489	90.0
Local Seed	LS4415XF	XtendFlex	4.4	39.0	1.5	1.3	1	2828	84.9
Local Seed	LS4517XFS	XtendFlex / STS	4.5	37.0	1.9	1.0	1	2873	73.8
Local Seed	LS4606XFS	XtendFlex / STS	4.6	45.0	2.0	2.3	2	2528	90.0
Mid-Atlantic Seeds	MAS4021E3	Enlist	4.0	38.0	2.3	3.0	11	2623	81.8
Mid-Atlantic Seeds	MAS4320E3	Enlist	4.2	36.0	1.3	2.0	2	2908	76.6
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	40.0	1.8	2.0	2	2647	83.1
MorSoy	MS 4640 XF	XtendFlex	4.6	43.0	1.8	2.0	2	2556	90.4
NK	S43-V8XF	ExtendFlex	4.3	40.0	1.8	2.0	10	2382	82.9
NK	S45-P9XF	ExtendFlex	4.5	42.0	2.2	2.0	1	2727	84.2
NK	S45-V9E3	E3	4.5	40.0	2.3	2.3	4	2681	84.9
Progeny	P4541E3S	Enlist/STS	4.5	41.0	2.5	1.0	2	3186	81.5
Seed Consultants	SC7461E	EnlistE3	4.6	37.0	1.4	1.7	0	3009	78.0
U of Missouri	S17-2243C	Conv	4.5	40.0	1.7	1.0	1	3021	80.5
USG	7420ETS	Enlist/STS	4.2	35.0	1.2	2.0	4	2667	69.7
USG	7429ET	Enlist	4.2	34.0	1.3	2.0	3	3015	78.4
USG	7431ET	Enlist	4.3	36.0	1.3	1.3	2	2949	68.5
USG	7441XF	XtendFlex	4.4	38.0	1.8	1.0	2	2899	77.2
USG	7451ET	Enlist	4.5	39.0	2.3	2.0	3	2706	89.0
USG	7461XFS	XtendFlex/STS	4.6	42.0	1.7	2.0	2	2503	89.6
USG	7461XTS	Xtend/STS	4.6	42.0	2.3	1.7	1	2964	84.0
Virtue Seeds	V4520S	CONV/STS	4.5	39.0	1.5	3.0	2	2949	84.0
VT	V17-0454	Conv	4.6	35.0	1.8	2.0	1	2577	86.0
VT	V17-0476	Conv	4.6	35.0	2.7	2.3	2	2747	90.4
Xitavo	XO 4371E	ENLIST	4.3	39.0	1.7	1.7	2	2919	74.0
Xitavo	XO 4681E	ENLIST	4.6	36.0	1.5	1.3	1	2850	78.4
LSD P=.10				3.5	0.4	0.5	2.4	116	6.6
CV				6.8	16.5	19.2	77	3.1	6.1
Grand Mean				38.5	1.8	1.8	2.3	2793	80.8

Table 3c. Performance of full-season early maturity group 4 entries at Orange VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	38XF1	XtendFlex	3.8	35.3	1.6	2.0	3	2761	78.5
Asgrow	AG42XF2	XtendFlex/SR	4.2	46.0	2.1	2.0	6	2437	69.0
Asgrow	AG45XF0	XtendFlex/SR	4.5	46.7	2.7	2.0	0	3099	73.3
Asgrow	AG46XF2	XtendFlex/SR	4.6	44.0	2.5	2.0	0	3185	64.9
Credenz	CZ 4241GTLL	GTLL	4.2	36.0	1.5	2.0	2	3136	73.5
Donmario Seeds	DM46E62	Enlist	4.6	41.3	2.3	2.0	0	3490	71.6
Donmario Seeds	DM46F62	XtendFlex	4.6	43.3	1.9	2.0	1	3029	78.4
Dyna-Gro	S43EN61	Enlist E3	4.3	39.0	2.0	3.0	2	3196	70.7
Dyna-Gro	S43XF51	XtendFlex	4.3	42.0	1.8	2.0	2	2964	69.9
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	44.3	1.7	2.0	0	3041	69.8
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	46.3	1.8	1.0	1	2639	69.4
HiSOY	HS 45E00	Enlist E3	4.5	37.0	1.2	2.0	0	3459	63.1
HiSOY	HS 46F00	XtendFlex	4.6	48.0	1.8	2.0	1	2649	74.0
Hubner	H42-31XF	RR, Xtend, LL	4.2	45.3	1.4	2.0	1	2809	63.6
Local Seed	4606XFS	XtendFlex/STS	4.6	47.0	2.0	2.0	0	2641	66.9
Local Seed	LS4415XF	XtendFlex	4.4	40.3	1.8	2.0	1	2901	73.1
Local Seed	LS4517XFS	XtendFlex / STS	4.5	44.3	2.5	2.0	0	2752	67.5
Local Seed	LS4606XFS	XtendFlex / STS	4.6	44.7	2.2	2.0	0	2556	67.6
Mid-Atlantic Seeds	MAS4021E3	Enlist	4.0	39.3	2.0	2.0	3	3102	64.6
Mid-Atlantic Seeds	MAS4320E3	Enlist	4.2	38.0	2.0	2.0	1	3129	76.7
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	47.3	1.4	2.0	0	2873	65.9
MorSoy	MS 4640 XF	XtendFlex	4.6	47.7	2.4	2.0	0	2828	70.2
NK	S43-V8XF	ExtendFlex	4.3	40.7	1.4	2.0	6	2672	62.0
NK	S45-P9XF	ExtendFlex	4.5	48.7	1.8	2.0	1	3077	70.4
NK	S45-V9E3	E3	4.5	42.3	2.4	2.0	1	2991	74.9
Progeny	P4541E3S	Enlist/STS	4.5	47.0	2.0	2.0	0	3271	72.1
Seed Consultants	SC7461E	EnlistE3	4.6	40.0	1.6	2.0	0	2995	57.1
U of Missouri	S17-2243C	Conv	4.5	47.7	1.3	2.0	0	2974	63.4
USG	7420ETS	Enlist/STS	4.2	37.0	1.8	2.0	1	3041	70.1
USG	7429ET	Enlist	4.2	34.3	1.7	2.0	3	3198	73.2
USG	7431ET	Enlist	4.3	38.3	1.7	2.0	1	2912	69.7
USG	7441XF	XtendFlex	4.4	42.3	1.8	2.0	1	2894	64.5
USG	7451ET	Enlist	4.5	41.3	2.3	2.0	0	2956	56.3
USG	7461XFS	XtendFlex/STS	4.6	45.0	2.0	2.0	0	2543	63.4
USG	7461XTS	Xtend/STS	4.6	43.3	1.9	2.0	0	3108	67.6
Virtue Seeds	V4520S	CONV/STS	4.5	41.0	1.6	2.0	1	3182	67.7
VT	V17-0454	Conv	4.6	40.7	2.1	2.0	0	2716	76.5
VT	V17-0476	Conv	4.6	43.0	3.2	2.0	1	2700	66.2
Xitavo	XO 4371E	ENLIST	4.3	37.0	1.6	3.0	1	3036	72.5
Xitavo	XO 4681E	ENLIST	4.6	46.7	1.7	2.0	0	2868	69.4
LSD P=.10				3.5	0.5	0.3	1.4	244	12.4
CV				6.0	20.4	9.9	99	6.1	13.2
Grand Mean				42.7	1.9	2.0	1.0	2963	69.0

Table 3d. Performance of full-season early maturity group 4 entries at Suffolk VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	38XF1	XtendFlex	3.8	12-Oct	35.7	1.0	2.0	4	2534	70.9
Asgrow	AG42XF2	XtendFlex/SR	4.2	12-Oct	39.7	1.7	2.0	7	2470	69.6
Asgrow	AG45XF0	XtendFlex/SR	4.5	14-Oct	40.0	2.3	1.7	1	2955	78.1
Asgrow	AG46XF2	XtendFlex/SR	4.6	15-Oct	28.3	3.0	2.0	1	2803	81.2
Credenz	CZ 4241GTLL	GTLL	4.2	12-Oct	37.0	1.3	2.0	3	2716	74.4
Donmario Seeds	DM46E62	Enlist	4.6	15-Oct	39.3	3.7	3.0	1	3082	78.5
Donmario Seeds	DM46F62	XtendFlex	4.6	15-Oct	40.0	2.3	1.0	0	2911	76.1
Dyna-Gro	S43EN61	Enlist E3	4.3	14-Oct	38.0	2.3	2.3	2	2758	75.3
Dyna-Gro	S43XF51	XtendFlex	4.3	14-Oct	39.7	2.0	1.3	1	2926	72.9
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	15-Oct	39.0	1.0	2.3	0	2741	74.9
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	16-Oct	45.3	1.3	2.0	1	2411	88.8
HiSOY	HS 45E00	Enlist E3	4.5	13-Oct	37.3	1.0	2.0	0	2785	81.5
HISOY	HS 46F00	XtendFlex	4.6	15-Oct	44.0	1.7	2.0	0	2433	80.8
Hubner	H42-31XF	RR, Xtend, LL	4.2	12-Oct	42.3	1.3	2.0	1	2758	77.2
Local Seed	4606XFS	XtendFlex/STS	4.6	15-Oct	32.7	1.7	2.0	1	2432	85.4
Local Seed	LS4415XF	XtendFlex	4.4	15-Oct	40.0	1.7	2.0	0	2551	81.1
Local Seed	LS4517XFS	XtendFlex / STS	4.5	14-Oct	39.0	2.0	1.3	1	2709	75.6
Local Seed	LS4606XFS	XtendFlex / STS	4.6	17-Oct	45.3	1.3	2.0	1	2440	84.8
Mid-Atlantic Seeds	MAS4021E3	Enlist	4	13-Oct	35.3	2.3	3.0	4	2741	80.6
Mid-Atlantic Seeds	MAS4320E3	Enlist	4.2	13-Oct	34.3	1.3	2.0	1	3001	70.5
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	14-Oct	45.3	2.0	1.7	1	2596	75.5
MorSoy	MS 4640 XF	XtendFlex	4.6	19-Oct	45.3	1.0	2.0	1	2472	81.3
NK	S43-V8XF	ExtendFlex	4.3	15-Oct	36.3	1.7	2.0	7	2533	83.2
NK	S45-P9XF	ExtendFlex	4.5	15-Oct	45.0	2.0	2.7	1	2506	73.8
NK	S45-V9E3	E3	4.5	14-Oct	41.3	3.3	3.0	4	2551	82.0
Progeny	P4541E3S	Enlist/STS	4.5	14-Oct	44.0	2.7	2.0	1	2944	75.8
Seed Consultants	SC7461E	EnlistE3	4.6	14-Oct	39.3	1.7	2.0	0	2899	69.2
U of Missouri	S17-2243C	Conv	4.5	14-Oct	46.3	1.0	1.0	1	2770	83.2
USG	7420ETS	Enlist/STS	4.2	15-Oct	37.3	2.0	2.0	1	2913	69.2
USG	7429ET	Enlist	4.2	13-Oct	34.7	1.7	2.0	1	3057	71.9
USG	7431ET	Enlist	4.3	14-Oct	34.7	2.0	2.0	1	2934	61.8
USG	7441XF	XtendFlex	4.4	15-Oct	37.7	2.7	1.0	1	2911	67.9
USG	7451ET	Enlist	4.5	14-Oct	42.3	3.7	2.3	1	2595	78.6
USG	7461XFS	XtendFlex/STS	4.6	17-Oct	45.7	2.0	2.0	1	2435	85.3
USG	7461XTS	Xtend/STS	4.6	15-Oct	41.3	2.3	1.7	0	2911	73.9
Virtue Seeds	V4520S	CONV/STS	4.5	14-Oct	40.7	1.7	2.0	1	2804	84.3
VT	V17-0454	Conv	4.6	15-Oct	25.7	1.0	2.0	0	2393	77.8
VT	V17-0476	Conv	4.6	15-Oct	28.7	1.0	3.0	1	2732	71.5
Xitavo	XO 4371E	ENLIST	4.3	14-Oct	36.0	1.7	2.0	3	2839	73.9
Xitavo	XO 4681E	ENLIST	4.6	15-Oct	42.0	1.7	1.7	1	2596	69.9
LSD P=,10				1.5	7.7	0.8	0.4	2.2	134	10.5
CV				1.0	14.3	29.0	13.6	115	3.6	10.2
Grand Mean				14-Oct	39.4	1.9	2.0	1.4	2729	76.2

Table 3e. Performance of full-season early maturity group 4 entries at Warsaw VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat. Date	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)	
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)		
Asgrow	38XF1	XtendFlex	3.8	29-Sep	42.3	1.7	3.0	3	2390	90.6
Asgrow	AG42XF2	XtendFlex/SR	4.2	28-Sep	43.3	1.8	3.0	7	2271	88.5
Asgrow	AG45XF0	XtendFlex/SR	4.5	3-Oct	45.7	2.0	2.3	1	2629	88.8
Asgrow	AG46XF2	XtendFlex/SR	4.6	4-Oct	43.0	2.3	2.3	4	2732	97.1
Credenz	CZ 4241GTLL	GTLL	4.2	3-Oct	42.7	1.8	3.3	7	2432	91.6
Donmario Seeds	DM46E62	Enlist	4.6	5-Oct	39.7	2.9	3.3	2	2853	94.7
Donmario Seeds	DM46F62	XtendFlex	4.6	5-Oct	46.0	1.8	2.0	1	2575	99.3
Dyna-Gro	S43EN61	Enlist E3	4.3	2-Oct	40.0	1.3	3.7	9	2657	85.4
Dyna-Gro	S43XF51	XtendFlex	4.3	5-Oct	43.0	1.6	2.3	6	2769	91.3
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	4-Oct	45.3	1.9	3.0	2	2614	97.3
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	5-Oct	47.7	2.2	2.0	2	1624	88.8
HiSOY	HS 45E00	Enlist E3	4.5	4-Oct	40.0	1.3	3.0	1	2744	91.8
HiSOY	HS 46F00	XtendFlex	4.6	5-Oct	48.3	2.1	2.3	3	2313	100.1
Hubner	H42-31XF	RR, Xtend, LL	4.2	1-Oct	45.3	2.0	2.7	6	2418	87.8
Local Seed	4606XFS	XtendFlex/STS	4.6	4-Oct	49.3	2.1	2.3	2	2305	92.7
Local Seed	LS4415XF	XtendFlex	4.4	3-Oct	42.0	1.7	2.0	0	2377	89.5
Local Seed	LS4517XFS	XtendFlex / STS	4.5	5-Oct	43.0	2.4	2.7	1	2365	97.0
Local Seed	LS4606XFS	XtendFlex / STS	4.6	5-Oct	46.7	2.1	2.0	2	2335	92.6
Mid-Atlantic Seeds	MAS4021E3	Enlist	4.0	1-Oct	40.3	1.6	4.0	6	2747	94.5
Mid-Atlantic Seeds	MAS4320E3	Enlist	4.2	2-Oct	41.0	1.4	3.0	1	2612	87.0
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	4-Oct	46.3	1.9	2.0	1	2486	94.6
MorSoy	MS 4640 XF	XtendFlex	4.6	5-Oct	48.3	1.9	2.0	3	2313	101.8
NK	S43-V8XF	ExtendFlex	4.3	2-Oct	46.0	1.8	3.0	9	2462	89.7
NK	S45-P9XF	ExtendFlex	4.5	3-Oct	45.0	1.8	3.0	5	2611	92.4
NK	S45-V9E3	E3	4.5	6-Oct	41.3	2.1	3.7	6	2321	91.2
Progeny	P4541E3S	Enlist/STS	4.5	1-Oct	44.7	2.0	3.0	4	2887	91.7
Seed Consultants	SC7461E	EnlistE3	4.6	2-Oct	41.7	1.6	2.3	2	2736	88.9
U of Missouri	S17-2243C	Conv	4.5	3-Oct	44.7	1.2	1.7	1	2666	83.5
USG	7420ETS	Enlist/STS	4.2	5-Oct	43.3	1.6	2.3	3	2598	95.6
USG	7429ET	Enlist	4.2	2-Oct	41.0	1.4	3.7	6	2912	92.6
USG	7431ET	Enlist	4.3	3-Oct	39.0	1.4	3.0	6	2657	82.3
USG	7441XF	XtendFlex	4.4	5-Oct	45.3	1.5	2.0	5	2752	90.9
USG	7451ET	Enlist	4.5	5-Oct	42.7	2.1	3.0	3	2490	95.9
USG	7461XFS	XtendFlex/STS	4.6	5-Oct	46.7	2.0	2.0	5	2282	97.1
USG	7461XTS	Xtend/STS	4.6	5-Oct	48.0	2.2	2.7	2	2630	97.0
Virtue Seeds	V4520S	CONV/STS	4.5	5-Oct	45.3	1.6	1.7	2	2710	95.5
VT	V17-0454	Conv	4.6	4-Oct	41.3	1.4	2.3	0	2480	81.4
VT	V17-0476	Conv	4.6	6-Oct	44.0	3.0	2.7	2	2433	96.0
Xitavo	XO 4371E	ENLIST	4.3	30-Sep	41.3	1.4	3.7	7	2561	96.9
Xitavo	XO 4681E	ENLIST	4.6	4-Oct	45.7	1.8	3.0	1	2535	92.4
LSD P=.10				2.0	2.9	0.4	0.6	2.5	280	8.9
CV				4.4	4.9	15.4	15.6	54	8.1	7.2
Grand Mean				3-Oct	43.9	1.9	2.6	3.4	2553	91.5

Table 4a. Performance of full-season late maturity group 4 entries at Blackstone VA, 2021.

Brand	U of Missouri	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG46XF2	XtendFlex/SR	4.6	45.0	2.0	1.7	0	3099	72.0
Asgrow	AG47XF0	XtendFlex/SR	4.7	45.2	1.6	1.5	0	2484	73.9
Asgrow	AG47XF2	XtendFlex/SR	4.7	47.3	2.2	2.0	0	3016	75.8
Asgrow	AG48XF0	XtendFlex/SR	4.8	49.0	2.0	1.7	0	2557	77.7
Asgrow	AG48XF2	XtendFlex	4.8	42.7	2.0	2.0	0	2695	68.4
Credenz	CZ 4701GTLL	GTLL	4.7	38.0	1.2	2.0	0	3409	58.7
Donmario Seeds	DM48E62S	Enlist/STS	4.8	43.3	1.5	2.0	1	3518	72.1
Dyna-Gro	S48EN02	Enlist E3	4.8	45.3	2.0	2.3	0	3131	56.9
Dyna-Gro	S48XF61S	XtendFlex/STS	4.8	44.7	2.0	2.0	0	2790	75.1
Dyna-Gro	S48XT90	RR2 Xtend	4.8	49.3	2.3	2.0	0	2725	81.1
Dyna-Gro	S49EN12	Enlist	4.9	41.3	1.5	2.0	1	3135	64.4
HiSOY	HS 48E10	Enlist E3	4.8	47.3	2.8	2.0	0	3054	67.4
HiSOY	HS 48F00	XtendFlex	4.8	46.3	1.5	2.0	0	2601	81.2
Hubner	H47-30XF	RR, Xtend, LL	4.7	48.3	1.8	2.0	0	2640	74.9
Hubner	H48-31XF	XtendFlex	4.8	51.7	1.7	2.0	0	2824	80.7
Local Seed	LS4707XF	XtendFlex	4.7	47.3	2.7	2.0	0	3176	63.4
Local Seed	LS4795XS	Xtend / STS	4.7	45.3	1.8	2.0	0	2889	71.9
Local Seed	LS4805XFS	XtendFlex / STS	4.8	44.0	1.7	2.5	0	2487	71.5
Local Seed	LS4806XS	Xtend/STS	4.8	46.7	1.6	2.0	0	2739	74.1
Local Seed	LS4919XFS	XtendFlex / STS	4.9	44.7	1.7	2.0	0	2741	74.4
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	47.0	2.5	2.0	0	2918	69.3
MorSoy	MS 4850 XF	XtendFlex	4.8	45.0	1.7	2.0	0	2580	73.7
Pioneer	P48A60X	RR2X	4.8	44.7	1.7	2.0	0	2919	68.2
Pioneer	P49T62E	Enlist	4.9	47.4	1.7	2.3	0	2962	72.1
Public	S14-15138GT	GT/STS	4.8	43.3	1.7	2.3	1	2810	67.2
Seed Consultants	SC7481E	EnlistE3	4.8	41.4	1.7	2.0	0	2867	69.8
Southern Harvest	SH4820E3	Enlist/STS	4.8	45.5	2.3	2.3	0	3108	65.7
Southern Harvest	SH4920E3	Enlist	4.9	50.3	2.3	2.3	1	3216	75.4
U of Missouri	S09-13608C	Conv	4.7	49.3	2.8	2.0	0	2623	64.9
U of Missouri	S16-5503R	RR1	4.8	51.7	4.0	2.0	0	2904	68.9
U of Missouri	S16-8898C	Conv	4.8	47.0	3.7	2.0	0	2568	54.1
USG	7472ETS	Enlist/STS	4.7	41.0	1.5	2.0	0	3502	67.7
USG	7472XFS	XtendFlex/STS	4.7	47.3	2.3	2.0	0	2809	71.6
USG	7480XT	Xtend	4.8	46.5	2.1	2.0	0	2689	75.9
USG	7481XF	XtendFlex	4.8	46.0	2.7	2.0	1	3176	65.5
USG	7482XFS	XtendFlex/STS	4.8	44.0	1.8	2.0	0	3134	71.6
USG	7487XTS	Xtend/STS	4.8	51.7	1.7	1.7	1	2676	77.3
USG	7491ETS	Enlist/STS	4.9	44.0	2.7	2.0	0	3334	68.0
USG	7491XFS	XtendFlex/STS	4.9	44.3	1.5	2.0	0	2563	78.1
VT	V14-0079	Conv	4.9	41.0	2.2	2.0	0	3075	66.2
VT	V14-1235	Conv	4.8	44.3	2.2	2.0	2	3367	66.9
VT	V15-0057DI	Conv	4.8	37.0	1.7	1.3	0	3615	62.2
VT	V16-0262DI	Conv	4.9	47.3	2.3	2.3	0	2640	70.9
VT	V16-0293	Conv	4.8	47.3	2.0	2.0	0	2558	66.4
VT	V17-0437	Conv	4.9	47.7	2.2	2.0	0	3211	57.1
VT	V17-2478R	RR	4.9	47.4	1.7	2.0	0	3232	62.1
LSD P=.10				42.1	0.5	0.4	0.7	205	8.2
CV				64.3	18.1	15.2	242	5.2	8.6
Grand Mean				48.4	2.0	2.0	0.2	2891	70.3

Table 4b. Performance of full-season late maturity group 4 entries at Eastern Shore VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG46XF2	XtendFlex/SR	4.6	36.0	2.2	2.0	2	3085	75.6
Asgrow	AG47XF0	XtendFlex/SR	4.7	31.5	1.3	2.0	3	2462	73.2
Asgrow	AG47XF2	XtendFlex/SR	4.7	37.0	1.8	2.0	1	2953	72.9
Asgrow	AG48XF0	XtendFlex/SR	4.8	35.5	1.6	2.0	3	2669	81.1
Asgrow	AG48XF2	XtendFlex	4.8	31.0	2.0	2.0	0	2721	73.3
Credenz	CZ 4701GTLL	GTLL	4.7	36.0	1.5	2.0	2	3137	74.0
Donmario Seeds	DM48E62S	Enlist/STS	4.8	31.0	1.8	2.0	0	3595	65.6
Dyna-Gro	S48EN02	Enlist E3	4.8	33.0	1.7	2.0	1	3168	76.7
Dyna-Gro	S48XF61S	XtendFlex/STS	4.8	34.0	1.5	2.3	2	2478	71.9
Dyna-Gro	S48XT90	RR2 Xtend	4.8	32.0	2.2	2.0	2	2652	78.5
Dyna-Gro	S49EN12	Enlist	4.9	36.0	1.5	2.0	1	3082	79.5
HISOY	HS 48E10	Enlist E3	4.8	42.0	2.2	2.0	3	3116	86.3
HISOY	HS 48F00	XtendFlex	4.8	33.0	1.7	2.0	3	2717	73.8
Hubner	H47-30XF	RR, Xtend, LL	4.7	33.0	1.6	2.0	1	2561	87.4
Hubner	H48-31XF	RR, Xtend, LL	4.8	44.0	1.8	2.0	1	2794	80.4
Local Seed	LS4707XF	XtendFlex	4.7	42.0	2.7	2.3	1	3221	70.9
Local Seed	LS4795XS	Xtend / STS	4.7	38.0	1.7	2.0	2	2938	78.5
Local Seed	LS4805XFS	XtendFlex / STS	4.8	31.0	1.5	2.0	1	2433	75.7
Local Seed	LS4806XS	Xtend/STS	4.8	31.0	1.5	1.9	2	2829	79.7
Local Seed	LS4919XFS	XtendFlex / STS	4.9	31.0	1.5	2.3	1	2917	85.6
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	33.0	1.8	2.3	2	2945	67.8
MorSoy	MS 4850 XF	XtendFlex	4.8	33.0	1.5	2.0	2	2821	61.9
Pioneer	P48A60X	RR2X	4.8	34.0	1.4	2.2	1	2952	73.0
Pioneer	P49T62E	Enlist	4.9	37.0	1.4	2.5	1	2863	75.7
Public	S14-15138GT	GT/STS	4.8	30.0	2.0	2.0	0	3079	64.0
Seed Consultants	SC7481E	EnlistE3	4.8	27.0	1.1	3.0	6	2780	76.2
Southern Harvest	SH4820E3	Enlist/STS	4.8	37.0	2.0	2.7	2	3159	77.4
Southern Harvest	SH4920E3	Enlist	4.9	41.0	2.2	2.7	0	3410	80.7
U of Missouri	S09-13608C	Conv	4.7	37.0	1.8	2.0	2	2854	68.3
U of Missouri	S16-5503R	RR1	4.8	33.0	3.7	2.0	0	2892	71.1
U of Missouri	S16-8898C	Conv	4.8	36.0	2.8	1.7	1	2859	74.4
USG	7472ETS	Enlist/STS	4.7	27.0	1.3	2.0	0	3399	62.3
USG	7472XFS	XtendFlex/STS	4.7	37.0	1.7	2.3	1	2860	64.0
USG	7480XT	Xtend	4.8	34.0	2.1	2.0	2	2424	85.4
USG	7481XF	XtendFlex	4.8	34.0	2.2	2.7	4	3293	68.8
USG	7482XFS	XtendFlex/STS	4.8	32.0	1.4	2.0	2	3146	79.0
USG	7487XTS	Xtend/STS	4.8	38.0	1.5	2.0	0	2781	79.3
USG	7491ETS	Enlist/STS	4.9	31.0	2.0	2.0	1	3459	76.2
USG	7491XFS	XtendFlex/STS	4.9	33.0	1.3	2.0	3	2630	64.5
VT	V14-0079	Conv	4.9	36.0	1.5	1.7	1	3285	81.6
VT	V14-1235	Conv	4.8	35.0	2.2	2.0	0	3200	58.8
VT	V15-0057DI	Conv	4.8	31.0	1.2	1.0	1	3401	82.8
VT	V16-0262DI	Conv	4.9	38.0	1.4	2.0	0	2934	71.5
VT	V16-0293	Conv	4.8	42.0	1.8	1.7	3	2775	74.2
VT	V17-0437	Conv	4.9	40.0	1.8	2.0	1	3078	68.9
VT	V17-2478R	RR	4.9	34.0	1.8	2.0	1	3059	66.9
LSD P=.10				4.8	0.5	0.4	1.8	236	9.1
CV				10.3	21.3	13.3	92	6.0	9.0
Grand Mean				34.2	1.8	2.1	1.4	2903	74.8

Table 4c. Performance of full-season late maturity group 4 entries at Orange VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG46XF2	XtendFlex/SR	4.6	38.0	1.4	2.0	1	3006	65.1
Asgrow	AG47XF0	XtendFlex/SR	4.7	36.5	1.4	1.5	1	2258	68.0
Asgrow	AG47XF2	XtendFlex/SR	4.7	38.0	1.3	1.0	0	2784	68.5
Asgrow	AG48XF0	XtendFlex/SR	4.8	42.5	1.9	1.7	1	2502	68.3
Asgrow	AG48XF2	XtendFlex	4.8	39.0	1.4	1.7	1	2379	76.5
Credenz	CZ 4701GTLL	GTLL	4.7	37.0	1.3	2.0	1	2935	67.9
Donmario Seeds	DM48E62S	Enlist/STS	4.8	37.0	1.7	2.0	1	3425	69.9
Dyna-Gro	S48EN02	Enlist E3	4.8	42.0	1.8	2.0	1	2880	74.1
Dyna-Gro	S48XF61S	XtendFlex/STS	4.8	36.0	1.4	1.7	1	2267	67.7
Dyna-Gro	S48XT90	RR2 Xtend	4.8	38.0	1.4	2.0	1	2651	71.8
Dyna-Gro	S49EN12	Enlist	4.9	39.0	1.5	2.0	0	2809	62.8
HISOY	HS 48E10	Enlist E3	4.8	42.0	2.3	2.0	2	2846	74.6
HISOY	HS 48F00	XtendFlex	4.8	39.0	1.7	2.0	0	2431	72.7
Hubner	H47-30XF	RR, Xtend, LL	4.7	44.0	2.0	1.7	1	2631	74.9
Hubner	H48-31XF	XtendFlex	4.8	47.5	1.5	2.0	1	2758	61.0
Local Seed	LS4707XF	XtendFlex	4.7	39.0	2.5	2.0	2	3116	71.0
Local Seed	LS4795XS	Xtend / STS	4.7	36.0	1.4	2.0	0	2610	74.9
Local Seed	LS4805XFS	XtendFlex / STS	4.8	40.0	1.7	2.0	1	2293	70.2
Local Seed	LS4806XS	Xtend/STS	4.8	37.0	1.5	1.5	1	2576	68.3
Local Seed	LS4919XFS	XtendFlex / STS	4.9	43.0	1.7	2.0	1	2852	69.6
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	37.0	1.6	2.0	2	2870	66.8
MorSoy	MS 4850 XF	XtendFlex	4.8	37.0	1.4	2.0	2	2365	62.6
Pioneer	P48A60X	RR2X	4.8	37.5	1.5	1.7	1	2838	75.3
Pioneer	P49T62E	Enlist	4.9	39.5	1.3	2.0	0	2866	65.8
Public	S14-15138GT	GT/STS	4.8	39.0	1.8	2.0	1	2707	62.8
Seed Consultants	SC7481E	EnlistE3	4.8	35.0	1.6	2.0	3	2806	72.6
Southern Harvest	SH4820E3	Enlist/STS	4.8	41.0	1.5	2.0	0	2839	67.5
Southern Harvest	SH4920E3	Enlist	4.9	44.0	2.3	2.0	2	3088	70.9
U of Missouri	S09-13608C	Conv	4.7	37.0	2.2	2.3	6	2687	54.0
U of Missouri	S16-5503R	RR1	4.8	49.0	3.7	1.7	0	2863	58.2
U of Missouri	S16-8898C	Conv	4.8	46.0	3.5	2.0	0	2808	56.0
USG	7472ETS	Enlist/STS	4.7	35.0	1.3	2.0	0	3044	68.4
USG	7472XFS	XtendFlex/STS	4.7	39.0	1.7	2.0	1	2590	74.5
USG	7480XT	Xtend	4.8	39.3	1.6	1.9	1	2656	74.4
USG	7481XF	XtendFlex	4.8	39.0	2.2	1.7	2	3201	64.9
USG	7482XFS	XtendFlex/STS	4.8	42.0	1.5	2.0	1	2887	77.8
USG	7487XTS	Xtend/STS	4.8	48.0	1.6	2.0	1	2708	70.4
USG	7491ETS	Enlist/STS	4.9	36.0	1.7	2.0	0	3185	73.6
USG	7491XFS	XtendFlex/STS	4.9	40.0	1.7	1.7	1	2333	65.3
VT	V14-0079	Conv	4.9	40.0	2.3	2.0	2	3102	65.5
VT	V14-1235	Conv	4.8	36.0	1.8	2.0	1	3507	65.4
VT	V15-0057DI	Conv	4.8	41.0	2.0	2.0	8	3261	66.8
VT	V16-0262DI	Conv	4.9	43.0	1.9	2.0	0	2803	56.7
VT	V16-0293	Conv	4.8	45.0	1.7	2.0	1	2567	62.7
VT	V17-0437	Conv	4.9	42.0	1.7	2.0	0	3082	48.9
VT	V17-2478R	RR	4.9	42.0	1.8	2.0	0	3010	62.2
LSD P=.10				3.1	0.4	0.4	1.5	167	7.0
CV				5.8	17.0	15.9	100	4.4	7.7
Grand Mean				40.2	1.7	1.9	1.1	2767	67.2

Table 4d. Performance of full-season late maturity group 4 entries at Suffolk VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG46XF2	XtendFlex/SR	4.6	18-Oct	39.3	3.0	2.0	1	2840	81.8
Asgrow	AG47XF0	XtendFlex/SR	4.7	18-Oct	38.2	1.0	2.0	1	2480	87.4
Asgrow	AG47XF2	XtendFlex/SR	4.7	15-Oct	36.7	1.7	1.0	0	2890	76.4
Asgrow	AG48XF0	XtendFlex/SR	4.8	18-Oct	43.3	1.7	1.5	0	2435	76.7
Asgrow	AG48XF2	XtendFlex	4.8	17-Oct	41.3	2.0	2.0	1	2417	78.3
Credenz	CZ 4701GTLL	GTLL	4.7	14-Oct	35.0	1.5	1.0	0	3123	67.4
Donmario Seeds	DM48E62S	Enlist/STS	4.8	19-Oct	34.7	1.7	1.0	0	3379	70.1
Dyna-Gro	S48EN02	Enlist E3	4.8	19-Oct	40.3	2.5	3.0	0	2952	71.3
Dyna-Gro	S48XF61S	XtendFlex/STS	4.8	17-Oct	35.7	1.2	2.0	0	2460	84.6
Dyna-Gro	S48XT90	RR2 Xtend	4.8	20-Oct	38.3	1.7	2.0	0	2587	96.8
Dyna-Gro	S49EN12	Enlist	4.9	22-Oct	40.3	1.8	2.0	0	2953	73.5
HiSOY	HS 48E10	Enlist E3	4.8	19-Oct	37.7	1.7	1.0	0	3062	67.6
HiSOY	HS 48F00	XtendFlex	4.8	17-Oct	42.3	1.3	1.0	0	2447	82.4
Hubner	H47-30XF	RR, Xtend, LL	4.7	18-Oct	41.2	1.8	2.0	0	2548	81.9
Hubner	H48-31XF	RR, Xtend, LL	4.8	19-Oct	38.2	1.3	2.0	0	2736	74.3
Local Seed	LS4707XF	XtendFlex	4.7	16-Oct	41.0	3.3	1.0	1	3088	76.8
Local Seed	LS4795XS	Xtend / STS	4.7	20-Oct	39.3	1.8	2.0	0	2654	83.0
Local Seed	LS4805XFS	XtendFlex / STS	4.8	19-Oct	41.7	1.3	2.0	1	2379	81.7
Local Seed	LS4806XS	Xtend/STS	4.8	19-Oct	33.0	1.5	2.0	2	2593	82.1
Local Seed	LS4919XFS	XtendFlex / STS	4.9	18-Oct	42.7	1.8	1.0	1	2826	72.0
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	17-Oct	41.0	2.3	2.0	1	2630	71.4
MorSoy	MS 4850 XF	XtendFlex	4.8	21-Oct	18.3	1.2	2.0	1	2381	83.6
Pioneer	P48A60X	RR2X	4.8	18-Oct	36.8	1.6	1.0	2	2852	81.6
Pioneer	P49T62E	Enlist	4.9	19-Oct	38.2	1.3	2.0	0	2736	74.3
Public	S14-15138GT	GT/STS	4.8	15-Oct	38.3	1.7	2.0	0	2676	72.6
Seed Consultants	SC7481E	EnlistE3	4.8	15-Oct	30.7	1.7	2.0	1	2759	76.7
Southern Harvest	SH4820E3	Enlist/STS	4.8	20-Oct	42.3	1.8	2.0	1	2808	70.3
Southern Harvest	SH4920E3	Enlist	4.9	18-Oct	43.3	2.8	2.0	0	3029	77.6
U of Missouri	S09-13608C	Conv	4.7	19-Oct	40.3	1.7	1.0	1	2593	72.4
U of Missouri	S16-5503R	RR1	4.8	17-Oct	35.7	3.2	2.0	0	2676	70.4
U of Missouri	S16-8898C	Conv	4.8	17-Oct	34.0	2.3	2.0	0	2714	68.5
USG	7472ETS	Enlist/STS	4.7	19-Oct	34.7	1.2	1.0	0	3124	74.6
USG	7472XFS	XtendFlex/STS	4.7	14-Oct	40.0	2.7	2.0	0	2753	74.8
USG	7480XT	Xtend	4.8	20-Oct	39.2	2.0	2.3	1	2448	81.8
USG	7481XF	XtendFlex	4.8	18-Oct	40.3	3.0	2.0	1	3244	71.9
USG	7482XFS	XtendFlex/STS	4.8	22-Oct	35.7	1.3	1.0	2	2899	78.4
USG	7487XTS	Xtend/STS	4.8	17-Oct	47.0	1.3	2.0	1	2729	83.0
USG	7491ETS	Enlist/STS	4.9	22-Oct	37.0	1.8	1.0	1	3257	80.3
USG	7491XFS	XtendFlex/STS	4.9	18-Oct	38.0	1.8	2.0	0	2462	73.1
VT	V14-0079	Conv	4.9	20-Oct	24.7	1.0	1.0	2	3002	78.3
VT	V14-1235	Conv	4.8	14-Oct	41.7	2.3	2.0	6	3082	75.6
VT	V15-0057DI	Conv	4.8	20-Oct	23.0	1.0	1.0	0	3035	61.7
VT	V16-0262DI	Conv	4.9	17-Oct	43.0	2.3	3.0	0	2571	70.3
VT	V16-0293	Conv	4.8	20-Oct	47.0	2.5	2.0	2	2302	73.0
VT	V17-0437	Conv	4.9	18-Oct	37.0	1.8	2.0	2	2876	70.7
VT	V17-2478R	RR	4.9	19-Oct	38.0	1.8	2.0	2	2981	61.7
LSD P=.10				3-Jan	7.6	0.8	.	1	178	8.8
CV				1-Jan	14.5	33.1	.	125	5	8.5
Grand Mean				18-Oct	38.7	1.8	.	1	2736	76.4

Table 4e. Performance of full-season late maturity group 4 entries at Warsaw VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG46XF2	XtendFlex/SR	4.6	5-Oct	37.0	3.0	3.0	5	2661	101.9
Asgrow	AG47XF0	XtendFlex/SR	4.7	7-Oct	35.5	2.1	4.0	5	2223	91.0
Asgrow	AG47XF2	XtendFlex/SR	4.7	5-Oct	35.3	2.7	2.3	1	2506	104.8
Asgrow	AG48XF0	XtendFlex/SR	4.8	8-Oct	39.0	2.6	3.2	5	2244	94.1
Asgrow	AG48XF2	XtendFlex	4.8	5-Oct	35.3	2.8	3.0	4	2183	105.4
Credenz	CZ 4701GTLL	GTLL	4.7	2-Oct	33.7	2.0	4.0	5	2703	93.2
Donmario Seeds	DM48E62S	Enlist/STS	4.8	3-Oct	34.7	2.2	2.0	4	2942	94.9
Dyna-Gro	S48EN02	Enlist E3	4.8	7-Oct	38.7	1.7	4.0	1	2661	97.4
Dyna-Gro	S48XF61S	XtendFlex/STS	4.8	8-Oct	36.3	2.5	4.0	3	2226	85.8
Dyna-Gro	S48XT90	RR2 Xtend	4.8	7-Oct	35.3	2.7	3.7	3	2399	101.6
Dyna-Gro	S49EN12	Enlist	4.9	9-Oct	33.7	2.0	2.3	3	2425	98.4
HiSOY	HS 48E10	Enlist E3	4.8	12-Oct	39.0	2.5	3.3	7	2498	101.3
HiSOY	HS 48F00	XtendFlex	4.8	7-Oct	33.7	2.2	3.7	4	2186	86.8
Hubner	H47-30XF	RR, Xtend, LL	4.7	6-Oct	38.7	2.5	2.3	4	2265	105.3
Hubner	H48-31XF	XtendFlex	4.8	10-Oct	44.5	2.3	2.5	7	2462	98.1
Local Seed	LS4707XF	XtendFlex	4.7	6-Oct	36.3	2.8	2.7	5	2777	97.6
Local Seed	LS4795XS	Xtend / STS	4.7	4-Oct	36.0	2.2	2.0	3	2486	107.2
Local Seed	LS4805XFS	XtendFlex / STS	4.8	7-Oct	34.7	2.2	4.3	5	2178	86.8
Local Seed	LS4806XS	Xtend/STS	4.8	5-Oct	36.5	2.3	2.7	7	2409	101.9
Local Seed	LS4919XFS	XtendFlex / STS	4.9	4-Oct	36.0	2.2	2.0	3	2514	95.2
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	9-Oct	34.0	2.2	3.3	3	2519	102.5
MorSoy	MS 4850 XF	XtendFlex	4.8	7-Oct	35.0	2.5	4.3	4	2253	81.4
Pioneer	P48A60X	RR2X	4.8	8-Oct	32.5	2.4	2.7	8	2443	100.1
Pioneer	P49T62E	Enlist	4.9	4-Oct	34.2	1.9	3.9	2	2383	90.3
Public	S14-15138GT	GT/STS	4.8	8-Oct	33.7	2.2	4.0	2	2282	87.9
Seed Consultants	SC7481E	EnlistE3	4.8	5-Oct	28.7	1.3	4.0	11	2435	94.6
Southern Harvest	SH4820E3	Enlist/STS	4.8	11-Oct	34.3	2.2	4.0	2	2787	93.8
Southern Harvest	SH4920E3	Enlist	4.9	13-Oct	38.7	2.5	3.7	8	2643	99.2
U of Missouri	S09-13608C	Conv	4.7	10-Oct	36.3	2.8	2.7	4	2290	98.5
U of Missouri	S16-5503R	RR1	4.8	8-Oct	36.3	3.3	2.0	1	2595	94.4
U of Missouri	S16-8898C	Conv	4.8	8-Oct	33.3	3.3	2.7	1	2428	94.9
USG	7472ETS	Enlist/STS	4.7	8-Oct	33.0	2.0	2.7	2	2786	99.2
USG	7472XFS	XtendFlex/STS	4.7	5-Oct	37.3	2.8	3.3	4	2353	97.9
USG	7480XT	Xtend	4.8	9-Oct	35.2	2.4	3.9	5	2337	100.7
USG	7481XF	XtendFlex	4.8	8-Oct	35.7	2.5	2.3	5	2780	99.8
USG	7482XFS	XtendFlex/STS	4.8	5-Oct	37.3	1.7	2.0	1	2456	98.3
USG	7487XTS	Xtend/STS	4.8	9-Oct	45.7	2.5	3.0	4	2486	93.3
USG	7491ETS	Enlist/STS	4.9	7-Oct	32.0	1.7	2.3	4	2895	103.4
USG	7491XFS	XtendFlex/STS	4.9	8-Oct	33.0	2.3	4.0	4	2156	87.1
VT	V14-0079	Conv	4.9	10-Oct	29.7	1.5	2.0	6	2523	98.8
VT	V14-1235	Conv	4.8	29-Sep	31.7	2.5	3.3	8	2892	85.5
VT	V15-0057DI	Conv	4.8	12-Oct	29.0	1.5	2.0	2	2821	102.8
VT	V16-0262DI	Conv	4.9	4-Oct	40.7	2.2	2.7	0	2496	89.7
VT	V16-0293	Conv	4.8	8-Oct	36.3	2.3	2.7	11	2208	93.6
VT	V17-0437	Conv	4.9	6-Oct	37.7	2.5	3.3	4	2463	97.2
VT	V17-2478R	RR	4.9	5-Oct	36.7	2.5	3.3	3	2521	94.7
LSD P=.10				2.4	2.8	0.6	0.6	3.1	95	7.6
CV				4.9	5.7	17.6	14.2	54	2.8	5.8
Grand Mean				7-Oct	35.9	2.3	3.1	4.2	2464	95.9

Table 5a. Performance of full-season early maturity group 5 entries at Blackstone VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG53XF2	XtendFlex/SR	5.3	46.7	1.8	2.0	0	2925	74.8
Asgrow	AG54XF0	XtendFlex/SR	5.4	48.0	1.8	2.0	1	2846	77.7
Asgrow	AG55XF0	XtendFlex	5.5	46.0	2.2	1.0	0	2899	58.1
Asgrow	AG56XF2	XtendFlex	5.6	45.0	2.0	1.3	0	2925	69.5
Dyna-Gro	S52XT91	RR2 Xtend	5.2	49.0	1.7	2.0	1	3259	71.6
HiSOY	HS 54F10	XtendFlex	5.4	43.3	2.8	2.0	0	2962	66.0
Hubner	H51-22XF	RR, Xtend, LL	5.1	46.3	1.7	2.0	0	3170	73.4
Local Seed	LS5009XS	Xtend / STS	5	48.7	3.0	2.0	2	2869	68.7
Local Seed	LS5119XF	XtendFlex	5.1	48.3	2.0	2.0	2	2627	76.3
Local Seed	LS5418XFS	XtendFlex / STS	5.4	52.3	1.8	2.0	0	3283	64.8
MorSoy	MS 5110 E	ENLIST	5.1	46.7	2.0	2.0	0	2861	64.6
MorSoy	MS 5461 E	ENLIST	5.4	58.3	2.8	2.3	1	3416	70.0
MorSoy	MS 5491 XF	XtendFlex	5.3	44.7	2.3	1.7	0	3089	63.5
Pioneer	P53A67X	RR2X	5.3	39.7	2.8	2.0	0	3408	73.7
Seed Consultants	SC7530E	EnlistE3	5.3	40.7	1.3	2.0	0	3264	66.5
Southern Harvest	SH5122E3	Enlist	5.1	43.3	1.5	2.0	0	3268	71.1
Southern Harvest	SH5321E3	Enlist/STS	5.3	49.7	2.3	2.3	0	2961	69.0
U of Missouri	S16-9090C	Conv	5.2	53.7	3.3	2.0	1	3076	63.1
USG	7542ET	Enlist	5.4	54.7	2.5	2.0	4	3267	68.1
VT	V15-1815DI	Conv	5.2	45.0	2.5	2.0	1	2867	68.8
VT	V15-2261ST	STS	5.2	41.3	1.8	2.0	1	3141	62.5
VT	V16-2451R2	RR2Y	5.5	45.7	1.8	2.0	0	3170	66.0
VT	V17-2361R	RR	5.3	47.0	1.8	2.3	1	2890	61.4
VT	V17-2933R	RR	5.2	48.7	2.0	2.0	0	3205	62.1
LSD P=.10				4.9	0.6	0.4	1.1	193	8.5
CV				7.6	18.7	14.1	134	4.6	9.2
Grand Mean				47.0	2.2	1.9	0.6	3085	67.4

Table 5b. Performance of full-season early maturity group 5 entries at Eastern Shore VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)	Seed		Seed Size (seed/lb)	Yield (Bu/A)
						Quality (1-5)	PSS (%)		
Asgrow	AG53XF2	XtendFlex/SR	5.3	30.7	1.3	2.0	1	3398	54.6
Asgrow	AG54XF0	XtendFlex/SR	5.4	34.0	1.3	2.2	2	3378	65.2
Asgrow	AG55XF0	XtendFlex	5.5	31.0	1.5	1.7	0	3488	52.2
Asgrow	AG56XF2	XtendFlex	5.6	31.7	1.5	2.0	1	3296	61.4
Dyna-Gro	S52XT91	RR2 Xtend	5.2	31.7	1.4	2.0	2	4025	63.0
HiSOY	HS 54F10	XtendFlex	5.4	28.0	1.5	2.3	0	3599	64.9
Hubner	H51-22XF	RR, Xtend, LL	5.1	35.0	1.8	2.0	1	3418	62.4
Local Seed	LS5009XS	Xtend / STS	5.0	35.7	2.2	1.7	1	3681	56.3
Local Seed	LS5119XF	XtendFlex	5.1	31.3	2.2	2.0	3	3260	54.9
Local Seed	LS5418XFS	XtendFlex / STS	5.4	37.3	1.5	2.0	0	3621	62.6
MorSoy	MS 5110 E	ENLIST	5.1	31.3	1.5	2.0	1	3433	58.9
MorSoy	MS 5461 E	ENLIST	5.4	39.7	1.8	2.3	2	3773	56.6
MorSoy	MS 5491 XF	XtendFlex	5.3	31.0	1.5	2.0	0	3828	63.4
Pioneer	P53A67X	RR2X	5.3	26.2	1.5	2.0	1	4093	61.5
Seed Consultants	SC7530E	EnlistE3	5.3	31.7	1.7	2.3	1	3877	49.1
Southern Harvest	SH5122E3	Enlist	5.1	29.7	1.3	2.0	1	3838	46.5
Southern Harvest	SH5321E3	Enlist/STS	5.3	33.7	2.2	2.0	0	3753	58.6
U of Missouri	S16-9090C	Conv	5.2	34.0	1.7	1.7	0	3593	63.4
USG	7542ET	Enlist	5.4	39.7	1.8	2.0	1	3631	59.1
VT	V15-1815DI	Conv	5.2	29.0	1.4	2.0	1	2962	67.5
VT	V15-2261ST	STS	5.2	28.0	1.3	2.0	1	3467	56.5
VT	V16-2451R2	RR2Y	5.5	26.7	1.2	1.3	1	3615	56.3
VT	V17-2361R	RR	5.3	31.7	1.5	2.0	2	3110	56.5
VT	V17-2933R	RR	5.2	36.0	1.7	2.0	0	4339	52.9
LSD P=.10				2.7	0.3	0.4	1.6	281	7.9
CV				6.1	15.6	16.4	115	5.7	9.9
Grand Mean				32.3	1.6	2.0	1.0	3630	58.6

Table 5c. Performance of full-season early maturity group 5 entries at Orange VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG53XF2	XtendFlex/SR	5.3	39.0	1.4	1.7	3	2669	70.4
Asgrow	AG54XF0	XtendFlex/SR	5.4	42.0	1.5	2.3	4	2866	73.3
Asgrow	AG55XF0	XtendFlex	5.5	48.0	2.1	2.0	0	2892	59.0
Asgrow	AG56XF2	XtendFlex	5.6	45.0	2.5	2.0	0	2883	68.5
Dyna-Gro	S52XT91	RR2 Xtend	5.2	38.0	1.6	2.0	1	2989	68.6
HiSOY	HS 54F10	XtendFlex	5.4	41.0	2.0	2.3	1	3078	61.7
Hubner	H51-22XF	RR, Xtend, LL	5.1	39.0	1.4	2.0	0	3048	66.0
Local Seed	LS5009XS	Xtend / STS	5.0	44.0	2.3	2.0	3	2693	69.6
Local Seed	LS5119XF	XtendFlex	5.1	40.0	1.8	2.0	3	2668	66.6
Local Seed	LS5418XFS	XtendFlex / STS	5.4	46.0	1.7	2.0	3	3063	67.3
MorSoy	MS 5110 E	ENLIST	5.1	45.0	2.2	2.0	0	2719	65.7
MorSoy	MS 5461 E	ENLIST	5.4	49.0	2.0	2.0	1	3326	72.5
MorSoy	MS 5491 XF	XtendFlex	5.3	40.0	1.8	2.0	1	3010	62.6
Pioneer	P53A67X	RR2X	5.3	38.5	2.3	2.2	1	3568	70.1
Seed Consultants	SC7530E	EnlistE3	5.3	36.0	1.2	2.3	0	3261	55.9
Southern Harvest	SH5122E3	Enlist	5.1	36.0	1.3	2.0	0	3228	54.9
Southern Harvest	SH5321E3	Enlist/STS	5.3	49.0	2.0	2.7	3	3186	71.4
U of Missouri	S16-9090C	Conv	5.2	48.0	3.3	2.0	1	2969	65.1
USG	7542ET	Enlist	5.4	52.0	2.2	2.7	2	3162	75.2
VT	V15-1815DI	Conv	5.2	44.0	2.5	1.7	1	2679	70.4
VT	V15-2261ST	STS	5.2	40.0	2.8	2.0	2	2925	62.4
VT	V16-2451R2	RR2Y	5.5	43.0	2.0	2.3	5	2867	64.5
VT	V17-2361R	RR	5.3	46.0	1.6	2.0	3	2799	55.3
VT	V17-2933R	RR	5.2	44.0	1.7	2.3	3	3287	66.7
LSD P=.10				3.4	0.4	0.5	2.0	222	9.2
CV				5.7	16.6	17.4	89	5.4	10.2
Grand Mean				43.2	2.0	2.1	1.7	3024	66.1

Table 5d. Performance of full-season early maturity group 5 entries at Suffolk VA, 2021.

Brand	Variety	Herbicide Resistance	Rel.		Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
			Mat	Mat. Date			Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG53XF2	XtendFlex/SR	5	20-Oct	26.0	1.3	1.3	3	3056	48.0
Asgrow	AG54XF0	XtendFlex/SR	5	28-Oct	29.8	1.5	1.0	0	2954	59.4
Asgrow	AG55XF0	XtendFlex	6	22-Oct	31.0	1.5	1.7	1	3069	55.9
Asgrow	AG56XF2	XtendFlex	6	20-Oct	30.0	1.8	1.3	2	2943	63.1
Dyna-Gro	S52XT91	RR2 Xtend	5	23-Oct	25.0	1.3	1.0	1	3191	53.2
HiSOY	HS 54F10	XtendFlex	5	19-Oct	27.3	1.5	2.0	0	3177	54.8
Hubner	H51-22XF	RR, Xtend, LL	5	19-Oct	29.0	1.7	1.7	1	3095	48.2
Local Seed	LS5009XS	Xtend / STS	5	24-Oct	32.0	1.7	1.0	6	3061	55.0
Local Seed	LS5119XF	XtendFlex	5	24-Oct	26.3	1.6	2.3	10	2648	56.6
Local Seed	LS5418XFS	XtendFlex / STS	5	24-Oct	28.7	1.7	1.0	0	2994	46.1
MorSoy	MS 5110 E	ENLIST	5	23-Oct	30.3	1.5	1.3	1	2943	56.5
MorSoy	MS 5461 E	ENLIST	5	30-Oct	33.7	1.7	1.0	1	3235	55.1
MorSoy	MS 5491 XF	XtendFlex	5	19-Oct	25.0	1.5	2.0	2	3076	62.0
Pioneer	P53A67X	RR2X	5	19-Oct	22.7	1.2	1.5	2	3546	50.8
Seed Consultants	SC7530E	EnlistE3	5	21-Oct	25.3	1.5	1.7	6	3061	45.7
Southern Harvest	SH5122E3	Enlist	5	21-Oct	27.3	1.5	1.0	3	3085	50.9
Southern Harvest	SH5321E3	Enlist/STS	5	23-Oct	27.7	1.7	1.7	1	3126	46.4
U of Missouri	S16-9090C	Conv	5	22-Oct	27.0	1.5	1.0	1	3244	44.8
USG	7542ET	Enlist	5	27-Oct	34.3	1.6	1.0	0	3236	58.9
VT	V15-1815DI	Conv	5	25-Oct	24.0	1.2	1.0	1	2745	47.8
VT	V15-2261ST	STS	5	21-Oct	21.5	1.0	1.0	2	3045	45.5
VT	V16-2451R2	RR2Y	6	22-Oct	26.0	1.0	1.7	1	2963	50.4
VT	V17-2361R	RR	5	22-Oct	28.7	1.3	2.0	8	2833	49.0
VT	V17-2933R	RR	5	22-Oct	30.3	1.7	1.3	2	3424	43.0
LSD P=.10				3.1	4.3	0.3	0.5	2.6	142	9.9
CV				1.7	11.3	15.8	26.4	87	3.4	14.0
Grand Mean				22-Oct	27.8	1.5	1.4	2.2	3095	51.7

Table 5e. Performance of full-season maturity group 5 entries at Warsaw VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG53XF2	XtendFlex/SR	5.3	9-Nov	36.7	1.4	2.3	6	2321	98.2
Asgrow	AG54XF0	XtendFlex/SR	5.4	17-Nov	39.2	1.6	2.7	6	2498	103.5
Asgrow	AG55XF0	XtendFlex	5.5	10-Nov	34.9	1.5	2.0	2	2391	93.3
Asgrow	AG56XF2	XtendFlex	5.6	10-Nov	34.0	1.6	3.0	4	2437	92.2
Dyna-Gro	S52XT91	RR2 Xtend	5.2	7-Nov	31.0	1.2	2.3	7	2758	97.7
HiSOY	HS 54F10	XtendFlex	5.4	9-Nov	31.0	1.5	2.0	0	2776	92.8
Hubner	H51-22XF	RR, Xtend, LL	5.1	7-Nov	39.0	1.5	2.0	1	2627	95.1
Local Seed	LS5009XS	Xtend / STS	5.0	15-Nov	40.3	2.9	2.3	4	2543	93.2
Local Seed	LS5119XF	XtendFlex	5.1	10-Nov	35.0	1.6	3.3	8	2433	104.0
Local Seed	LS5418XFS	XtendFlex / STS	5.4	17-Nov	41.3	2.0	2.7	3	2611	92.4
MorSoy	MS 5461 E	ENLIST	5.4	17-Nov	45.0	2.3	3.7	8	2666	103.8
MorSoy	MS 5491 XF	XtendFlex	5.3	11-Nov	33.7	1.7	2.3	0	2689	94.0
Pioneer	P53A67X	RR2X	5.3	10-Nov	26.9	2.9	2.2	2	3084	98.3
Seed Consultants	SC7530E	EnlistE3	5.3	10-Nov	32.7	1.0	2.3	3	2838	92.9
Southern Harvest	SH5122E3	Enlist	5.1	11-Nov	30.0	1.1	3.0	2	2839	91.7
Southern Harvest	SH5321E3	Enlist/STS	5.3	9-Nov	39.0	1.9	3.0	2	2640	94.8
U of Missouri	S16-9090C	Conv	5.2	15-Nov	36.3	3.0	2.0	4	2608	95.7
USG	7542ET	Enlist	5.4	17-Nov	45.3	1.5	3.0	6	2747	89.9
VT	V15-1815DI	Conv	5.2	16-Nov	32.7	1.5	2.3	1	2426	98.7
VT	V15-2261ST	STS	5.2	14-Nov	35.0	1.1	2.3	2	2747	82.8
VT	V16-2451R2	RR2Y	5.5	7-Nov	31.7	2.2	2.0	1	2430	93.0
VT	V17-2361R	RR	5.3	11-Nov	36.0	1.7	3.0	4	2325	94.7
VT	V17-2933R	RR	5.2	11-Nov	36.7	2.6	2.7	1	2703	85.8
LSD P=.10				2.9	3.2	0.6	0.6	2.7	104	8.3
CV				4.9	6.6	24.5	17.6	59	2.9	6.5
Grand Mean				12-Nov	35.7	1.8	2.5	3.4	2637	94.2

Table 6a. Performance of full-season late-maturity group 5 entries at Blackstone VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG56XF2	XtendFlex	5.6	41.7	1.4	1.7	0	3057	60.1
Asgrow	AG57XF1	XtendFlex/SR	5.7	56.7	2.7	2.3	0	2411	68.8
Dyna-Gro	S56XF01	XtendFlex	5.6	44.0	1.4	2.0	1	3466	52.1
Dyna-Gro	S58XT30	RR2 Xtend	5.8	44.0	1.5	2.0	0	2981	60.8
Hubner	H58-21XF	XtendFlex	5.8	56.5	3.2	2.6	0	2622	63.1
Local Seed	LS5614XF	XtendFlex	5.6	34.7	1.3	2.0	1	3048	65.6
Local Seed	LS5797X	Xtend	5.7	39.3	1.8	2.0	1	3049	60.9
MorSoy	MS 5640 XF	XtendFlex	5.6	40.0	1.5	2.0	0	3103	62.6
Southern Harvest	SH4622E3	Enlist	4.6	36.3	1.4	2.0	0	3511	63.7
Southern Harvest	SH6020LL/STS	LL/STS	6.0	42.3	2.0	2.3	0	2967	66.5
Southern Harvest	SH6515LL/STS	LL/STS	6.5	45.0	1.9	2.0	0	2950	60.7
USG	5618V	Conv	5.6	24.9	10.5	9.4	88	1505	58.0
USG	7562XF	XtendFlex	5.6	35.0	1.6	2.0	0	3001	61.7
VT	V16-1485ST	STS	5.8	39.3	1.9	2.0	0	3061	58.8
LSD P=.10				4.0	0.5	0.5	0.7	185	7.4
CV				6.6	19.2	16.7	176	4.4	8.7
Grand Mean				43.2	1.9	2.1	0.3	3006	61.5

Table 6b. Performance of full-season late-maturity group 5 entries at Blackstone VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG56XF2	XtendFlex	5.6	31.3	1.4	1.0	0	3132	67.7
Asgrow	AG57XF1	XtendFlex/SR	5.7	34.1	1.5	1.0	1	2765	63.9
Dyna-Gro	S56XF01	XtendFlex	5.6	37.3	1.5	1.0	0	3373	56.3
Dyna-Gro	S58XT30	RR2 Xtend	5.8	33.3	1.3	1.0	0	3027	65.4
Hubner	H58-21XF	XtendFlex	5.8	40.0	1.9	1.2	0	2696	62.2
Local Seed	LS5614XF	XtendFlex	5.6	29.0	1.1	1.3	1	3391	51.2
Local Seed	LS5797X	Xtend	5.7	29.0	1.2	1.0	1	3083	65.8
MorSoy	MS 5640 XF	XtendFlex	5.6	35.3	1.7	1.0	1	3139	56.2
Southern Harvest	SH4622E3	Enlist	4.6	28.7	1.3	1.0	1	3645	43.1
Southern Harvest	SH6020LL/STS	LL/STS	6.0	30.7	1.3	1.0	1	3028	58.7
Southern Harvest	SH6515LL/STS	LL/STS	6.5	35.0	1.7	1.0	0	2812	68.0
USG	5618V	Conv	5.6	28.3	1.3	1.2	2	3217	58.9
USG	7562XF	XtendFlex	5.6	26.7	1.0	1.0	1	3140	63.3
VT	V16-1485ST	STS	5.8	31.4	1.7	1.0	5	3021	63.7
LSD P=.10				6.3	0.6	0.4	1.6	272	7.9
CV				14.3	28.8	23.6	139	6.3	9.4
Grand Mean				32.0	1.4	1.1	0.8	3108	60.3

Table 6c. Performance of full-season late-maturity group 5 entries at Blackstone VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG56XF2	XtendFlex	5.6	48.0	1.8	2.0	0	3097	59.0
Dyna-Gro	S56XF01	XtendFlex	5.6	52.0	1.8	2.3	1	3153	59.1
Local Seed	LS5614XF	XtendFlex	5.6	38.0	1.5	2.0	0	3001	70.7
MorSoy	MS 5640 XF	XtendFlex	5.6	45.0	1.5	2.0	0	3016	56.8
USG	7562XF	XtendFlex	5.6	38.0	1.6	2.3	0	2981	71.9
Asgrow	AG57XF1	XtendFlex/SR	5.7	56.0	2.3	2.3	1	2452	59.7
Local Seed	LS5797X	Xtend	5.7	42.0	2.5	2.0	0	3097	64.3
Dyna-Gro	S58XT30	RR2 Xtend	5.8	45.0	1.5	2.0	0	3113	56.2
Hubner	H58-21XF	XtendFlex	5.8	57.5	3.8	2.7	1	2621	55.5
Southern Harvest	SH4622E3	Enlist	4.6	31.0	1.0	2.0	0	3290	56.6
VT	V16-1485ST	STS	5.8	52.0	2.3	2.3	0	2769	56.8
Southern Harvest	SH6020LL/STS	LL/STS	6.0	44.0	2.8	2.0	0	2877	65.9
Southern Harvest	SH6515LL/STS	LL/STS	6.5	44.0	2.5	2.3	0	2880	60.8
USG	5618V	Conv	5.6	42.5	2.3	2.0	1	3055	57.9
LSD P=.10				2.9	0.5	0.5	0.6	149	8.1
CV				4.6	16.0	17.6	147	3.7	9.7
Grand Mean				45.7	2.2	2.2	0.3	2941	60.3

Table 6d. Performance of full-season late-maturity group 5 entries at Suffolk VA, 2021.

Brand	Variety	Herbicide Resistance	Rel.		Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
			Mat	Mat. Date			Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG56XF2	XtendFlex	5.6	3-Nov	30.3	1.5	1.9	4	3105	62.0
Asgrow	AG57XF1	XtendFlex/SR	5.7	13-Nov	37.8	1.8	0.9	0	2557	65.0
Dyna-Gro	S56XF01	XtendFlex	5.6	3-Nov	31.7	1.2	1.0	0	3357	52.0
Dyna-Gro	S58XT30	RR2 Xtend	5.8	6-Nov	26.0	1.3	1.7	0	3162	54.7
Hubner	H58-21XF	XtendFlex	5.8	11-Nov	37.6	2.0	1.6	1	2815	54.3
Local Seed	LS5614XF	XtendFlex	5.6	5-Nov	24.3	1.0	1.7	0	3060	54.2
Local Seed	LS5797X	Xtend	5.7	6-Nov	28.0	1.3	1.0	0	3208	53.5
MorSoy	MS 5640 XF	XtendFlex	5.6	4-Nov	27.7	1.5	1.3	1	3110	57.3
Southern Harvest	SH4622E3	Enlist	4.6	31-Oct	22.0	1.2	2.0	2	3693	37.9
Southern Harvest	SH6020LL/STS	LL/STS	6.0	2-Nov	23.0	1.2	1.0	0	3005	55.2
Southern Harvest	SH6515LL/STS	LL/STS	6.5	7-Nov	29.0	1.3	1.0	0	3051	56.4
USG	5618V	Conv	5.6	4-Nov	25.3	1.4	1.9	4	2924	54.1
USG	7562XF	XtendFlex	5.6	4-Nov	25.7	1.2	1.3	1	3072	54.8
VT	V16-1485ST	STS	5.8	11-Nov	27.0	1.5	1.0	0	3302	45.7
LSD P=.10				2.7	4.2	0.4	0.5	1.6	204	9.0
CV				1.3	10.7	19.4	25.1	147	4.7	12.1
Grand Mean				6-Nov	28.5	1.4	1.4	0.8	3108	53.4

Table 6e. Performance of full-season late-maturity group 5 entries at Warsaw VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG56XF2	XtendFlex	5.6	13-Nov	34.3	1.6	2.3	5	2543	89.1
Asgrow	AG57XF1	XtendFlex/SR	5.7	27-Nov	59.0	2.1	2.3	0	2370	91.9
Dyna-Gro	S56XF01	XtendFlex	5.6	20-Nov	47.3	1.5	1.7	0	2941	87.3
Dyna-Gro	S58XT30	RR2 Xtend	5.8	23-Nov	40.0	1.4	2.3	1	2590	100.0
Hubner	H58-21XF	XtendFlex	5.8	26-Nov	52.2	2.4	2.5	1	2406	86.2
Local Seed	LS5614XF	XtendFlex	5.6	16-Nov	30.7	1.2	3.0	2	2586	95.8
Local Seed	LS5797X	Xtend	5.7	24-Nov	37.0	1.5	2.0	1	2556	95.7
MorSoy	MS 5640 XF	XtendFlex	5.6	15-Nov	35.0	1.3	3.0	2	2502	87.3
Southern Harvest	SH4622E3	Enlist	4.6	8-Nov	32.0	1.2	3.0	1	2783	93.9
Southern Harvest	SH6020LL/STS	LL/STS	6.0	23-Nov	41.7	1.4	2.0	0	2467	89.5
Southern Harvest	SH6515LL/STS	LL/STS	6.5	24-Nov	39.7	1.3	2.3	0	2630	96.0
USG	5618V	Conv	5.6	8-Nov	32.5	1.5	2.5	2	2524	88.4
USG	7562XF	XtendFlex	5.6	15-Nov	30.0	1.1	2.3	0	2617	94.4
VT	V16-1485ST	STS	5.8	23-Nov	48.0	1.9	2.7	1	2496	99.9
LSD P=.10				2.6	2.9	0.3	0.7	2.0	114	6.7
CV				3.9	5.2	11.5	20.2	114	3.2	5.3
Grand Mean				18-Nov	40.0	1.6	2.4	1.3	2559	91.9

Table 7a. Performance of double-crop early-maturity group 4 entries at Blackstone VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG42XF2	XtendFlex/SR	4.2	35.7	1.3	2.7	5	2619	47.6
Asgrow	AG45XF0	XtendFlex/SR	4.5	41.7	2.4	2.0	0	3035	68.2
Asgrow	AG46XF2	XtendFlex/SR	4.6	41.3	2.7	2.0	1	3034	69.5
Credenz	CZ4241GTLL	GTLL	4.2	34.7	1.5	2.0	7	2689	38.1
Dyna-Gro	S43XS27	Xtend/STS	4.3	34.3	1.8	2.0	2	2758	32.2
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	34.0	1.4	1.7	1	2983	47.9
Dyna-Gro	S46ES91	Enlist E3/STS	4.6	40.7	1.7	2.3	0	2942	58.7
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	45.0	2.2	2.3	3	2689	76.0
HiSOY	HS45E00	Enlist E3	4.5	38.0	1.5	2.0	2	3161	76.6
HiSOY	HS46F00	XtendFlex	4.6	44.3	1.8	2.3	2	2596	78.5
Hubner	H42-31XF	RR, Xtend, LL	4.2	43.0	1.8	2.0	0	2995	65.1
Local Seed	LS4415XF	XtendFlex	4.4	39.0	2.1	2.0	0	2886	70.7
Local Seed	LS4517XFS	XtendFlex / STS	4.5	42.0	2.3	2.0	1	2808	68.1
Local Seed	LS4606XFS	XtendFlex / STS	4.6	44.0	2.2	2.7	3	2694	71.7
Mid-Atlantic Seeds	MAS4399GT/STS	GT/STS	4.3	39.3	2.0	1.3	1	3369	58.3
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	38.7	1.8	2.0	1	2949	63.6
Mid-Atlantic Seeds	MAS4700GT/STS	GT/STS	4.7	41.0	1.9	1.7	1	3147	63.8
Pioneer	P40A40	Conv	4.0	42.0	1.8	2.7	3	2468	76.0
Progeny	P4501XFS	XtendFlex	4.5	44.3	2.7	2.0	1	3243	62.1
Progeny	P4521XFS	XtendFlex	4.5	37.3	1.3	2.0	4	2987	61.0
Progeny	P4604XFS	XtendFlex	4.6	44.3	2.2	2.7	2	2591	69.0
USG	7420ETS	Enlist/STS	4.2	31.0	1.4	2.0	1	3118	47.1
USG	7429ET	Enlist	4.2	37.7	2.1	2.0	2	3243	59.1
USG	7431ET	Enlist	4.3	32.7	1.5	2.3	16	2860	50.1
USG	7441XF	XtendFlex	4.4	41.0	2.2	1.7	2	3082	64.9
USG	7451ET	Enlist	4.5	40.7	2.7	1.3	2	2912	71.2
USG	7461XFS	XtendFlex/STS	4.6	43.7	2.1	2.0	3	2656	72.7
USG	7461XTS	Xtend/STS	4.6	44.7	2.8	2.0	2	3062	75.2
VT	V17-0454	Conv	4.6	33.7	1.7	2.0	0	2942	62.9
VT	V17-0476	Conv	4.6	35.7	2.5	1.3	1	3021	67.4
Xitavo	XO4371E	ENLIST	4.3	35.3	1.5	2.0	11	2921	44.3
Xitavo	XO4681E	ENLIST	4.6	39.0	1.8	2.0	1	2893	60.7
LSD P=.10				3.2	0.6	0.6	2.5	128	8.8
CV				6.0	21.1	20.8	80	3.2	10.3
Grand Mean				39.5	2.0	2.0	2.3	2945	62.6

Table 7b. Performance of double-crop early-maturity group 4 entries at Eastern Shore VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG42XF2	XtendFlex/SR	4.2	36.3	2.0	3.3	2	2710	62.9
Asgrow	AG45XF0	XtendFlex/SR	4.5	35.3	1.8	2.7	1	3241	64.4
Asgrow	AG46XF2	XtendFlex/SR	4.6	35.7	1.8	3.0	1	3235	73.3
Credenz	CZ4241GTLL	GTLL	4.2	32.0	1.3	3.3	1	2840	67.5
Dyna-Gro	S43XS27	Xtend/STS	4.3	32.7	1.7	3.7	2	2870	59.2
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	35.0	1.7	3.0	1	3097	60.2
Dyna-Gro	S46ES91	Enlist E3/STS	4.6	38.3	1.7	3.3	0	2839	63.4
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	40.7	1.7	2.3	0	2801	62.2
HISOY	HS45E00	Enlist E3	4.5	34.0	1.5	2.3	0	3313	65.8
HISOY	HS46F00	XtendFlex	4.6	41.0	2.0	3.0	1	2972	64.6
Hubner	H42-31XF	RR, Xtend, LL	4.2	36.7	1.3	2.7	1	3024	62.5
Local Seed	LS4415XF	XtendFlex	4.4	33.0	1.7	3.0	1	2862	63.4
Local Seed	LS4517XFS	XtendFlex / STS	4.5	34.3	2.3	2.3	0	3124	68.6
Local Seed	LS4606XFS	XtendFlex / STS	4.6	37.0	2.2	2.0	0	2833	68.1
Mid-Atlantic Seeds	MAS4399GT/STS	GT/STS	4.3	38.7	2.0	3.0	0	3220	65.6
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	36.3	1.7	3.0	0	2987	62.1
Mid-Atlantic Seeds	MAS4700GT/STS	GT/STS	4.7	34.7	1.5	3.3	1	3109	62.2
Pioneer	P40A40	Conv	4.0	34.3	1.3	4.7	2	2814	37.7
Progeny	P4501XFS	XtendFlex	4.5	41.3	2.0	3.7	0	3274	67.1
Progeny	P4521XFS	XtendFlex	4.5	35.7	1.5	2.3	3	3039	62.9
Progeny	P4604XFS	XtendFlex	4.6	37.7	2.0	3.0	0	2962	64.4
USG	7420ETS	Enlist/STS	4.2	32.0	1.5	3.7	2	3068	60.5
USG	7429ET	Enlist	4.2	31.3	1.2	3.0	2	3566	66.2
USG	7431ET	Enlist	4.3	35.3	1.2	3.7	4	3145	61.4
USG	7441XF	XtendFlex	4.4	36.0	1.5	3.3	2	3315	60.4
USG	7451ET	Enlist	4.5	38.7	1.7	3.0	1	3160	66.1
USG	7461XFS	XtendFlex/STS	4.6	40.3	1.8	2.7	0	2812	70.1
USG	7461XTS	Xtend/STS	4.6	40.0	2.0	3.0	1	3054	66.3
VT	V17-0454	Conv	4.6	32.0	1.8	3.3	0	2879	62.1
VT	V17-0476	Conv	4.6	35.0	2.0	3.0	0	2931	63.5
Xitavo	XO4371E	ENLIST	4.3	36.0	1.2	3.3	4	3161	63.5
Xitavo	XO4681E	ENLIST	4.6	37.7	1.3	3.3	0	2888	62.1
LSD P=.10				3.8	0.5	0.6	1.6	181	6.5
CV				7.7	21.7	14.0	121	4.3	7.6
Grand Mean				36.2	1.7	3.1	1.0	3062	62.8

Table 7c. Performance of double-crop early-maturity group 4 entries at Orange VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG42XF2	XtendFlex/SR	4.2	45.7	3.2	2.0	1	2602	66.5
Asgrow	AG45XF0	XtendFlex/SR	4.5	43.0	2.5	2.0	0	3117	63.6
Asgrow	AG46XF2	XtendFlex/SR	4.6	45.0	2.8	2.0	2	3008	71.3
Credenz	CZ4241GTLL	GTLL	4.2	40.3	2.5	2.0	0	3028	62.5
Dyna-Gro	S43XS27	Xtend/STS	4.3	39.7	3.2	2.0	1	2612	61.9
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	42.7	2.3	3.0	1	2887	81.5
Dyna-Gro	S46ES91	Enlist E3/STS	4.6	47.7	2.8	2.7	1	2803	78.4
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	47.0	3.0	2.3	1	2631	78.7
HISOY	HS45E00	Enlist E3	4.5	42.7	2.5	3.0	1	3247	74.1
HISOY	HS46F00	XtendFlex	4.6	47.3	3.0	2.0	1	2677	79.5
Hubner	H42-31XF	RR, Xtend, LL	4.2	44.3	2.3	2.0	0	2846	67.1
Local Seed	LS4415XF	XtendFlex	4.4	41.3	2.5	2.0	0	2891	72.0
Local Seed	LS4517XFS	XtendFlex / STS	4.5	45.0	2.8	2.0	1	2895	63.3
Local Seed	LS4606XFS	XtendFlex / STS	4.6	46.3	3.3	2.0	1	2604	75.0
Mid-Atlantic Seeds	MAS4399GT/STS	GT/STS	4.3	48.3	3.5	2.0	0	3062	65.3
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	46.0	2.2	2.0	1	2809	77.3
Mid-Atlantic Seeds	MAS4700GT/STS	GT/STS	4.7	44.7	2.7	3.0	0	3119	65.6
Pioneer	P40A40	Conv	4.0	40.7	2.2	2.7	1	2675	66.5
Progeny	P4501XFS	XtendFlex	4.5	46.3	3.3	2.0	1	3145	64.6
Progeny	P4521XFS	XtendFlex	4.5	44.7	2.2	2.0	4	2924	69.9
Progeny	P4604XFS	XtendFlex	4.6	47.3	2.8	2.0	1	2611	82.5
USG	7420ETS	Enlist/STS	4.2	41.3	2.5	2.3	3	2893	68.8
USG	7429ET	Enlist	4.2	41.7	1.8	2.0	0	3181	78.1
USG	7431ET	Enlist	4.3	41.0	2.5	2.3	0	3134	64.8
USG	7441XF	XtendFlex	4.4	44.7	2.8	2.0	1	2869	69.7
USG	7451ET	Enlist	4.5	42.7	3.0	2.3	1	2805	77.2
USG	7461XFS	XtendFlex/STS	4.6	45.3	3.2	2.0	1	2787	75.2
USG	7461XTS	Xtend/STS	4.6	47.7	3.3	3.0	2	3001	74.0
VT	V17-0454	Conv	4.6	45.7	3.3	2.0	0	2816	62.2
VT	V17-0476	Conv	4.6	47.0	4.0	2.0	1	2832	78.1
Xitavo	XO4371E	ENLIST	4.3	40.0	2.0	2.0	1	3007	71.8
Xitavo	XO4681E	ENLIST	4.6	47.0	2.8	2.3	1	2940	68.0
LSD P=.10				3.5	0.6	0.4	1.5	168	8.5
CV				5.7	15.0	11.8	120	4.3	8.8
Grand Mean				44.6	2.8	2.2	0.9	2906	70.8

Table 7d. Performance of double-crop early-maturity group 4 entries at Suffolk VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG42XF2	XtendFlex/SR	4.2	21-Oct	19.0	1.0	3.0	22	2620	40.9
Asgrow	AG45XF0	XtendFlex/SR	4.5	24-Oct	22.3	1.0	1.7	1	3091	53.5
Asgrow	AG46XF2	XtendFlex/SR	4.6	30-Oct	24.7	1.0	1.0	1	3168	56.9
Credenz	CZ4241GTLL	GTLL	4.2	24-Oct	18.3	1.0	2.3	9	2942	39.7
Dyna-Gro	S43XS27	Xtend/STS	4.3	19-Oct	18.3	1.0	2.7	9	2869	31.7
Dyna-Gro	S45ES10	Enlist E3/STS	4.5	25-Oct	21.3	1.0	1.3	1	2987	42.6
Dyna-Gro	S46ES91	Enlist E3/STS	4.6	24-Oct	21.7	1.0	1.7	1	2987	45.6
Dyna-Gro	S46XF31S	XtendFlex/STS	4.6	27-Oct	22.7	1.0	2.7	1	2816	55.4
HISOY	HS45E00	Enlist E3	4.5	25-Oct	17.3	1.0	1.7	2	3205	49.0
HiSOY	HS46F00	XtendFlex	4.6	30-Oct	19.3	1.0	1.3	2	2803	46.8
Hubner	H42-31XF	RR, Xtend, LL	4.2	22-Oct	21.0	1.0	2.0	6	3089	47.1
Local Seed	LS4415XF	XtendFlex	4.4	24-Oct	18.0	1.0	2.0	1	2962	44.8
Local Seed	LS4517XFS	XtendFlex / STS	4.5	26-Oct	19.0	1.0	2.0	1	3007	36.6
Local Seed	LS4606XFS	XtendFlex / STS	4.6	29-Oct	21.0	1.0	2.0	2	2797	50.0
Mid-Atlantic Seeds	MAS4399GT/STS	GT/STS	4.3	21-Oct	21.7	1.0	2.7	4	3087	45.5
Mid-Atlantic Seeds	MAS4675E3/STS	Enlist/STS	4.6	24-Oct	21.3	1.0	1.7	3	2961	44.4
Mid-Atlantic Seeds	MAS4700GT/STS	GT/STS	4.7	26-Oct	23.3	1.0	1.3	1	3153	52.1
Pioneer	P40A40	Conv	4.0	24-Oct	19.7	1.0	2.3	4	2666	41.9
Progeny	P4501XFS	XtendFlex	4.5	24-Oct	26.7	1.0	1.0	1	3309	52.4
Progeny	P4521XFS	XtendFlex	4.5	26-Oct	22.0	1.0	1.3	3	3013	49.3
Progeny	P4604XFS	XtendFlex	4.6	29-Oct	23.3	1.0	2.0	0	2785	56.1
USG	7420ETS	Enlist/STS	4.2	24-Oct	19.7	1.0	2.0	5	3139	36.0
USG	7429ET	Enlist	4.2	21-Oct	18.3	1.0	2.3	10	3485	48.1
USG	7431ET	Enlist	4.3	26-Oct	19.3	1.0	2.0	12	3267	30.6
USG	7441XF	XtendFlex	4.4	23-Oct	21.7	1.0	2.0	9	3184	48.8
USG	7451ET	Enlist	4.5	26-Oct	24.0	1.0	1.0	0	3068	60.7
USG	7461XFS	XtendFlex/STS	4.6	28-Oct	20.7	1.0	1.7	2	2757	53.1
USG	7461XTS	Xtend/STS	4.6	25-Oct	25.7	1.0	1.0	1	3075	57.1
VT	V17-0454	Conv	4.6	25-Oct	17.3	1.0	3.0	5	2774	30.3
VT	V17-0476	Conv	4.6	23-Oct	19.3	1.0	2.0	3	2961	40.4
Xitavo	XO4371E	ENLIST	4.3	23-Oct	20.0	1.0	2.0	16	3176	41.8
Xitavo	XO4681E	ENLIST	4.6	23-Oct	21.0	1.0	1.3	1	3027	44.3
LSD P=.10				3.2	2.9	.	0.6	4.7	89.6	9.7
CV				9.4	10.0	0.0	23.4	78	2.2	15.4
Grand Mean				24-Oct	20.9	1.0	1.9	4.5	3027.9	46.2

Table 8a. Performance of double-crop late-maturity group 4 entries at Blackstone VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG47XF0	XtendFlex/SR	4.7	37.8	1.5	2.7	3	2554	69.2
Asgrow	AG47XF2	XtendFlex/SR	4.7	37.7	2.3	1.0	1	3027	58.9
Asgrow	AG48XF0	XtendFlex/SR	4.8	42.7	1.7	2.0	2	2687	67.6
Asgrow	AG48XF2	XtendFlex	4.8	39.0	2.0	2.0	1	2719	60.0
Credenz	CZ4701GTLL	GTLL	4.7	34.0	1.6	2.0	3	3081	63.0
Dyna-Gro	S48XT90	RR2 Xtend	4.8	39.0	3.0	2.0	0	2799	63.7
Dyna-Gro	S49EN12	Enlist E3	4.9	36.3	1.8	1.0	1	3081	55.5
Dyna-Gro	S49EN79	Enlist E3	4.9	37.7	2.0	1.3	8	3120	58.5
HiSOY	HS48E10	Enlist E3	4.8	36.3	2.1	1.7	4	3030	59.0
HiSOY	HS48F00	XtendFlex	4.8	37.7	1.7	2.3	3	2576	71.8
Hubner	H47-30XF	XtendFlex	4.7	43.2	2.3	2.0	2	2659	69.5
Hubner	H48-31XF	XtendFlex	4.8	42.4	1.5	2.2	3	2590	72.0
Local Seed	LS4707XF	XtendFlex	4.7	43.3	3.3	1.7	2	3172	72.4
Local Seed	LS4795XS	Xtend / STS	4.7	39.3	2.0	1.7	2	3010	72.5
Local Seed	LS4805XFS	XtendFlex / STS	4.8	39.3	1.8	2.7	1	2541	70.8
Local Seed	LS4806XS	Xtend/STS	4.8	40.0	1.9	1.7	2	2807	77.4
Local Seed	LS4919XFS	XtendFlex / STS	4.9	36.7	1.6	1.0	2	3082	64.2
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	42.7	2.5	1.0	5	3058	75.5
Mid-Atlantic Seeds	MAS4820E3/STS	Enlist/STS	4.8	35.3	1.5	1.0	2	3389	63.0
Pioneer	P48A60X	RR2X	4.8	37.0	1.5	1.3	2	2961	58.6
Pioneer	P49A10S	STS	4.9	36.3	1.7	2.0	8	3022	55.4
Pioneer	P49T62E	E3	4.9	35.0	1.7	1.7	2	3027	65.2
Progeny	4775E3S	Enlist/STS	4.7	40.7	2.2	1.0	2	2950	61.3
Progeny	P4806XFS	XtendFlex	4.8	41.0	1.7	2.0	3	2537	66.0
Progeny	P4821RX	Xtend	4.8	39.3	2.0	1.3	4	2509	65.6
Progeny	P4921XFS	XtendFlex	4.9	37.0	1.4	1.3	2	3148	62.8
Progeny	P4931E3S	Enlist	4.9	35.7	2.0	2.0	3	3054	51.8
Progeny	P4970RX	Xtend	4.9	38.7	2.2	1.3	2	2563	70.1
Public	S14-15138GT	GT/STS	4.8	33.0	1.5	1.0	1	3047	50.9
USG	7472ETS	Enlist/STS	4.7	37.3	1.5	1.0	1	3229	68.8
USG	7472XFS	XtendFlex/STS	4.7	41.0	2.8	2.0	1	2824	68.3
USG	7480XT	Xtend	4.8	39.3	2.5	2.0	2	2605	73.9
USG	7481XF	XtendFlex	4.8	44.0	3.5	1.7	2	3207	61.2
USG	7482XFS	XtendFlex/STS	4.8	38.5	1.8	1.0	3	3063	67.0
USG	7491ETS	Enlist/STS	4.9	35.7	2.5	1.0	1	3415	64.4
USG	7491XFS	XtendFlex/STS	4.9	39.0	1.8	2.0	1	2542	68.0
VT	V14-0079	Conv	4.9	37.7	2.3	1.0	0	3125	72.0
VT	V14-1235	Conv	4.8	38.0	2.0	1.0	1	3380	58.6
VT	V15-0057DI	Conv	4.8	32.7	2.0	1.3	1	3609	65.3
VT	V16-0262DI	Conv	4.9	38.3	1.8	2.3	2	2943	65.8
VT	V16-0293	Conv	4.8	38.7	2.0	1.3	1	2833	63.9
VT	V17-0437	Conv	4.9	42.0	3.2	2.0	0	2911	65.7
VT	V17-2478R	RR	4.9	37.0	2.2	1.0	2	3173	52.5
LSD P=.10				3.5	0.6	0.5	2.2	133	6.7
CV				6.6	22.5	23.6	76	3.4	7.5
Grand Mean				39.0	2.0	1.6	2.1	2911	65.2

Table 8b. Performance of double-crop late-maturity group 4 entries at Eastern Shore VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG47XF0	XtendFlex/SR	4.7	34.4	1.2	3.4	1	2812	56.2
Asgrow	AG47XF2	XtendFlex/SR	4.7	34.0	1.5	3.0	0	3113	55.5
Asgrow	AG48XF0	XtendFlex/SR	4.8	38.3	1.5	2.3	0	3045	59.5
Asgrow	AG48XF2	XtendFlex	4.8	38.0	1.8	2.7	0	2562	65.2
Credenz	CZ4701GTLL	GTLL	4.7	33.3	1.3	2.7	1	3380	56.1
Dyna-Gro	S48XT90	RR2 Xtend	4.8	36.3	1.8	3.0	0	3074	47.8
Dyna-Gro	S49EN12	Enlist E3	4.9	33.7	1.5	3.0	1	3217	64.3
Dyna-Gro	S49EN79	Enlist E3	4.9	35.0	1.3	2.7	2	3033	57.6
HiSOY	HS48E10	Enlist E3	4.8	37.7	1.7	3.0	0	3317	59.0
HiSOY	HS48F00	XtendFlex	4.8	35.7	1.2	3.3	2	2929	52.6
Hubner	H47-30XF	XtendFlex	4.7	37.5	1.8	2.5	1	2904	60.2
Hubner	H48-31XF	XtendFlex	4.8	38.7	1.6	3.0	1	2733	59.7
Local Seed	LS4707XF	XtendFlex	4.7	37.3	2.2	3.7	1	3495	44.6
Local Seed	LS4795XS	Xtend / STS	4.7	33.7	1.3	3.3	0	3432	57.5
Local Seed	LS4805XFS	XtendFlex / STS	4.8	36.0	1.2	3.0	0	2695	50.0
Local Seed	LS4806XS	Xtend/STS	4.8	34.5	1.4	3.0	1	2928	54.0
Local Seed	LS4919XFS	XtendFlex / STS	4.9	34.0	1.2	2.7	2	3479	55.4
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	34.7	2.0	2.0	1	3063	64.4
Mid-Atlantic Seeds	MAS4820E3/STS	Enlist/STS	4.8	24.7	1.7	2.3	0	3247	61.7
Pioneer	P48A60X	RR2X	4.8	36.3	1.8	3.0	1	3151	56.0
Pioneer	P49A10S	STS	4.9	37.0	1.8	2.3	1	2925	66.3
Pioneer	P49T62E	E3	4.9	35.3	1.3	3.0	0	2886	60.8
Progeny	4775E3S	Enlist/STS	4.7	34.3	1.5	2.7	0	3051	56.3
Progeny	P4806XFS	XtendFlex	4.8	34.3	1.3	3.0	1	2967	47.2
Progeny	P4821RX	Xtend	4.8	34.0	1.7	2.7	2	2895	57.2
Progeny	P4921XFS	XtendFlex	4.9	35.7	1.2	2.7	0	3167	63.2
Progeny	P4931E3S	Enlist	4.9	37.7	2.2	2.7	1	3018	57.4
Progeny	P4970RX	Xtend	4.9	34.3	1.7	3.0	1	2851	50.0
Public	S14-15138GT	GT/STS	4.8	34.0	1.7	3.0	0	2774	56.0
USG	7472ETS	Enlist/STS	4.7	31.7	1.0	2.7	0	3084	55.5
USG	7472XFS	XtendFlex/STS	4.7	37.3	1.7	3.0	1	2969	54.8
USG	7480XT	Xtend	4.8	35.0	2.0	2.7	0	2618	62.1
USG	7481XF	XtendFlex	4.8	38.7	2.0	2.7	1	3101	51.4
USG	7482XFS	XtendFlex/STS	4.8	33.9	1.3	2.5	1	3135	60.5
USG	7491ETS	Enlist/STS	4.9	33.7	1.7	2.3	1	3351	60.2
USG	7491XFS	XtendFlex/STS	4.9	33.7	1.5	3.0	0	2883	56.4
VT	V14-0079	Conv	4.9	31.0	1.5	2.0	0	3149	59.9
VT	V14-1235	Conv	4.8	33.3	1.7	3.0	3	3557	48.7
VT	V15-0057DI	Conv	4.8	29.0	1.5	2.0	0	3290	59.3
VT	V16-0262DI	Conv	4.9	37.3	1.5	3.0	1	3008	50.8
VT	V16-0293	Conv	4.8	38.7	2.0	2.3	0	2818	56.4
VT	V17-0437	Conv	4.9	34.7	2.5	3.0	0	3104	48.5
VT	V17-2478R	RR	4.9	39.0	2.2	2.0	1	2868	53.6
LSD P=.10				4.8	0.5	0.7	1.3	384	9.1
CV				10.0	22.1	18.0	137	9.3	12.0
Grand Mean				35.2	1.6	2.8	0.7	3029	56.4

Table 8c. Performance of double-crop late-maturity group 4 entries at Orange VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG47XF0	XtendFlex/SR	4.7	41.2	1.8	2.2	2	2511	69.3
Asgrow	AG47XF2	XtendFlex/SR	4.7	40.7	2.7	1.0	0	2991	72.7
Asgrow	AG48XF0	XtendFlex/SR	4.8	45.3	2.7	1.7	2	2643	78.5
Asgrow	AG48XF2	XtendFlex	4.8	45.3	3.2	2.0	2	2456	77.7
Credenz	CZ4701GTLL	GTLL	4.7	42.0	2.3	1.0	0	3103	69.3
Dyna-Gro	S48XT90	RR2 Xtend	4.8	42.0	3.0	1.0	2	2847	74.2
Dyna-Gro	S49EN12	Enlist E3	4.9	44.7	2.7	2.0	2	2804	71.6
Dyna-Gro	S49EN79	Enlist E3	4.9	48.3	3.0	1.7	4	2771	72.8
HiSOY	HS48E10	Enlist E3	4.8	44.0	3.0	1.0	2	3055	65.2
HiSOY	HS48F00	XtendFlex	4.8	42.3	2.5	2.0	2	2532	65.6
Hubner	H47-30XF	XtendFlex	4.7	45.2	2.8	2.0	2	2640	76.6
Hubner	H48-31XF	XtendFlex	4.8	46.7	2.2	1.4	3	2456	72.5
Local Seed	LS4707XF	XtendFlex	4.7	47.3	3.3	1.0	1	3284	62.5
Local Seed	LS4795XS	Xtend / STS	4.7	45.7	2.7	1.7	2	2821	78.0
Local Seed	LS4805XFS	XtendFlex / STS	4.8	43.7	2.2	2.0	3	2452	76.0
Local Seed	LS4806XS	Xtend/STS	4.8	43.2	2.3	1.9	3	2653	76.0
Local Seed	LS4919XFS	XtendFlex / STS	4.9	42.3	2.5	1.3	2	2820	67.3
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	42.7	2.5	1.0	2	2913	74.2
Mid-Atlantic Seeds	MAS4820E3/STS	Enlist/STS	4.8	40.0	3.5	1.0	1	3600	69.7
Pioneer	P48A60X	RR2X	4.8	43.0	2.3	1.0	0	2917	79.7
Pioneer	P49A10S	STS	4.9	42.7	2.5	1.0	2	2855	72.8
Pioneer	P49T62E	E3	4.9	42.7	2.3	2.0	1	2907	63.0
Progeny	4775E3S	Enlist/STS	4.7	44.7	2.2	1.0	1	3014	67.9
Progeny	P4806XFS	XtendFlex	4.8	44.0	2.3	2.0	2	2432	73.3
Progeny	P4821RX	Xtend	4.8	41.0	2.5	2.3	2	2339	70.6
Progeny	P4921XFS	XtendFlex	4.9	42.7	2.3	1.0	2	2972	73.4
Progeny	P4931E3S	Enlist	4.9	45.3	2.8	2.0	1	2987	64.6
Progeny	P4970RX	Xtend	4.9	40.7	2.7	1.3	2	2544	65.2
Public	S14-15138GT	GT/STS	4.8	41.3	2.3	1.0	2	2910	63.8
USG	7472ETS	Enlist/STS	4.7	43.7	1.8	1.3	2	3270	71.3
USG	7472XFS	XtendFlex/STS	4.7	43.7	3.0	1.0	1	2785	75.1
USG	7480XT	Xtend	4.8	40.0	3.0	1.3	1	2598	71.8
USG	7481XF	XtendFlex	4.8	45.0	3.0	1.3	3	3149	65.9
USG	7482XFS	XtendFlex/STS	4.8	43.2	2.3	1.3	3	2841	73.2
USG	7491ETS	Enlist/STS	4.9	41.3	3.2	1.3	1	3536	65.5
USG	7491XFS	XtendFlex/STS	4.9	43.0	2.3	2.0	1	2482	72.6
VT	V14-0079	Conv	4.9	44.7	3.2	1.0	2	2905	67.5
VT	V14-1235	Conv	4.8	42.7	3.8	1.7	1	3444	63.6
VT	V15-0057DI	Conv	4.8	44.0	3.2	1.0	1	3502	71.2
VT	V16-0262DI	Conv	4.9	48.7	2.7	2.0	1	2711	61.9
VT	V16-0293	Conv	4.8	47.0	2.3	1.3	1	2486	64.1
VT	V17-0437	Conv	4.9	49.3	4.2	2.0	0	2549	73.9
VT	V17-2478R	RR	4.9	46.0	2.3	2.0	3	3026	64.3
LSD P=.10				3.7	0.6	0.5	1.9	171	9.8
CV				6.2	16.4	24.0	87	4.5	10.3
Grand Mean				43.8	2.6	1.5	1.6	2823	70.2

Table 8d. Performance of double-crop late-maturity group 4 entries at Suffolk VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG47XF0	XtendFlex/SR	4.7	28-Oct	22.5	1.0	2.2	0	2628	53.7
Asgrow	AG47XF2	XtendFlex/SR	4.7	27-Oct	19.0	1.0	2.0	0	3170	50.5
Asgrow	AG48XF0	XtendFlex/SR	4.8	25-Oct	24.0	1.0	2.3	2	2943	58.3
Asgrow	AG48XF2	XtendFlex	4.8	29-Oct	19.0	1.0	2.0	1	2703	62.4
Credenz	CZ4701GTLL	GTLL	4.7	23-Oct	25.0	1.0	2.0	3	3219	58.5
Dyna-Gro	S48XT90	RR2 Xtend	4.8	27-Oct	21.0	1.0	2.3	1	2725	57.2
Dyna-Gro	S49EN12	Enlist E3	4.9	30-Oct	26.0	1.0	2.0	1	2950	55.5
Dyna-Gro	S49EN79	Enlist E3	4.9	28-Oct	21.0	1.0	2.0	2	3121	60.2
HiSOY	HS48E10	Enlist E3	4.8	29-Oct	27.0	1.0	2.0	0	3234	55.4
HiSOY	HS48F00	XtendFlex	4.8	28-Oct	22.0	1.0	2.3	1	2683	53.3
Hubner	H47-30XF	XtendFlex	4.7	28-Oct	24.0	1.0	1.9	0	2804	60.6
Hubner	H48-31XF	XtendFlex	4.8	27-Oct	25.5	1.0	2.4	1	2879	59.5
Local Seed	LS4707XF	XtendFlex	4.7	24-Oct	26.0	1.0	2.0	1	3467	63.5
Local Seed	LS4795XS	Xtend / STS	4.7	28-Oct	27.0	1.0	1.7	0	2991	57.3
Local Seed	LS4805XFS	XtendFlex / STS	4.8	27-Oct	27.0	1.0	2.0	0	2666	65.9
Local Seed	LS4806XS	Xtend/STS	4.8	30-Oct	24.0	1.0	1.8	0	2906	58.7
Local Seed	LS4919XFS	XtendFlex / STS	4.9	31-Oct	20.0	1.0	2.0	0	3009	58.7
Mid-Atlantic Seeds	MAS4721E3/STS	Enlist/STS	4.7	25-Oct	23.0	1.0	2.0	0	3214	58.8
Mid-Atlantic Seeds	MAS4820E3/STS	Enlist/STS	4.8	31-Oct	26.0	1.0	2.0	0	3587	56.1
Pioneer	P48A60X	RR2X	4.8	29-Oct	21.0	1.0	2.0	1	2942	58.7
Pioneer	P49A10S	STS	4.9	28-Oct	19.0	1.0	2.3	2	3197	51.3
Pioneer	P49T62E	E3	4.9	29-Oct	22.0	1.0	2.3	0	2982	60.6
Progeny	4775E3S	Enlist/STS	4.7	22-Oct	27.0	1.0	2.0	1	3047	52.6
Progeny	P4806XFS	XtendFlex	4.8	29-Oct	24.0	1.0	2.0	0	2680	56.1
Progeny	P4821RX	Xtend	4.8	28-Oct	26.0	1.0	2.0	0	2490	62.7
Progeny	P4921XFS	XtendFlex	4.9	29-Oct	26.0	1.0	2.0	0	3048	62.9
Progeny	P4931E3S	Enlist	4.9	30-Oct	16.0	1.0	1.7	0	3261	55.7
Progeny	P4970RX	Xtend	4.9	29-Oct	26.0	1.0	2.0	0	2590	55.8
Public	S14-15138GT	GT/STS	4.8	29-Oct	27.0	1.0	2.0	0	2874	56.6
USG	7472ETS	Enlist/STS	4.7	28-Oct	22.0	1.0	2.0	0	3369	54.0
USG	7472XFS	XtendFlex/STS	4.7	21-Oct	23.0	1.0	2.0	1	3007	60.8
USG	7480XT	Xtend	4.8	28-Oct	24.0	1.0	2.3	1	2678	56.5
USG	7481XF	XtendFlex	4.8	27-Oct	.	1.0	2.0	1	3543	64.9
USG	7482XFS	XtendFlex/STS	4.8	28-Oct	22.5	1.0	2.0	0	3055	63.6
USG	7491ETS	Enlist/STS	4.9	30-Oct	24.0	1.0	2.7	0	3634	59.1
USG	7491XFS	XtendFlex/STS	4.9	29-Oct	25.0	1.0	2.0	0	2681	59.5
VT	V14-0079	Conv	4.9	1-Nov	21.0	1.0	2.0	0	3007	55.8
VT	V14-1235	Conv	4.8	19-Oct	20.0	1.0	3.0	15	3295	40.1
VT	V15-0057DI	Conv	4.8	1-Nov	26.0	1.0	2.0	0	3256	53.1
VT	V16-0262DI	Conv	4.9	25-Oct	25.0	1.0	2.0	0	2868	60.0
VT	V16-0293	Conv	4.8	30-Oct	.	1.0	2.1	0	2697	64.1
VT	V17-0437	Conv	4.9	25-Oct	.	1.0	2.0	1	2773	69.3
VT	V17-2478R	RR	4.9	30-Oct	.	1.0	2.0	0	3085	61.8
LSD P=.10				3.4	.	.	0.5	1.6	183	10.3
CV				9.2	.	0.0	16.2	168	4.5	13.0
Grand Mean				27-Oct	.	1.0	2.1	0.7	2973	57.9

Table 9a. Performance of double-crop early-maturity group 5 entries at Blackstone VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG53XF2	XtendFlex/STS	5.3	43.7	1.3	2.0	0	2868	78.6
Asgrow	AG54XF0	XtendFlex/STS	5.4	39.0	0.9	2.0	0	2911	69.8
Asgrow	AG55XF0	XtendFlex	5.5	42.0	1.7	2.0	1	2869	71.0
Dyna-Gro	S52XT91	Xtend	5.2	38.0	1.7	2.0	0	3124	74.1
HiSOY	HS54F10	XtendFlex	5.4	38.0	2.0	2.0	1	2949	69.3
Hubner	H51-22XF	XtendFlex	5.1	42.0	1.0	2.0	0	2948	74.6
Local Seed	LS5009XS	Xtend/STS	5.0	42.0	3.0	2.0	1	2907	75.8
Local Seed	LS5119XF	XtendFlex	5.1	41.3	3.3	2.0	3	2687	77.9
Local Seed	LS5418XFS	XtendFlex/STS	5.4	45.3	2.0	2.0	0	3307	73.7
Pioneer	P53A67X	RR2X	5.3	38.2	3.4	2.0	1	3291	76.2
Progeny	P5003XF	XtendFlex	5.0	39.3	1.3	2.0	1	3068	70.3
Progeny	P5121E3S	EnlistE3	5.1	39.3	3.0	2.0	1	2683	71.1
Progeny	P5424XF	XtendFlex	5.4	36.3	2.0	2.0	0	2948	69.6
Progeny	P5521E3	EnlistE3	5.5	47.3	1.3	2.0	0	3140	70.8
Progeny	P5554RX	Xtend	5.5	41.3	1.7	2.0	0	2820	66.1
Southern Harvest	SH5321E3	EnlistE3/STS	5.3	44.0	2.0	2.0	1	3205	64.2
USG	7542ET	EnlistE3	5.4	47.3	2.0	2.0	0	3061	72.3
VT	V15-1815DI	Conv	5.2	34.3	2.7	2.0	0	2725	68.0
VT	V15-2261ST	STS	5.2	33.7	1.0	2.0	0	2987	64.4
VT	V16-2451R2	RR2Y	5.5	36.7	1.7	2.0	1	3097	64.4
VT	V17-2361R	RR	5.3	42.0	2.0	2.0	3	2936	61.4
VT	V17-2933R	RR	5.2	43.0	1.7	2.0	0	3450	68.4
LSD P=.10				2.8	0.7	.	1.2	95	6.9
CV				5.0	27.6	0.0	141	2.3	7.3
Grand Mean				40.3	1.9	2.0	0.6	3019	69.6

Table 9b. Performance of double-crop early-maturity group 5 entries at Eastern Shore VA, 2021.

ID	Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5)2	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
611	Asgrow	AG53XF2	XtendFlex/STS	5.3	40.0	1.3	1.7	1	2688	63.5
617	Asgrow	AG54XF0	XtendFlex/STS	5.4	40.0	1.4	1.0	0	2472	67.9
622	Asgrow	AG55XF0	XtendFlex	5.5	42.0	2.0	1.0	0	2665	64.2
607	Dyna-Gro	S52XT91	Xtend	5.2	36.0	1.4	1.0	0	2715	75.6
618	HiSOY	HS54F10	XtendFlex	5.4	37.7	1.8	1.0	0	3020	62.8
602	Hubner	H51-22XF	XtendFlex	5.1	39.7	1.7	2.0	0	2706	65.2
601	Local Seed	LS5009XS	Xtend/STS	5.0	40.7	2.7	2.0	0	2631	60.5
603	Local Seed	LS5119XF	XtendFlex	5.1	38.3	1.8	3.7	3	2378	53.4
619	Local Seed	LS5418XFS	XtendFlex/STS	5.4	42.7	2.0	1.3	0	2670	62.3
613	Pioneer	P53A67X	RR2X	5.3	35.2	2.7	1.0	0	3154	70.8
645	Progeny	P5003XF	XtendFlex	5.0	37.3	1.8	1.7	0	2929	62.4
646	Progeny	P5121E3S	EnlistE3	5.1	35.7	2.3	3.0	0	2541	67.6
647	Progeny	P5424XF	XtendFlex	5.4	35.3	1.7	1.0	0	2957	64.5
648	Progeny	P5521E3	EnlistE3	5.5	45.0	1.7	2.7	2	2768	65.0
649	Progeny	P5554RX	Xtend	5.5	41.0	2.5	1.3	0	2604	65.7
615	Southern Harvest	SH5321E3	EnlistE3/STS	5.3	44.7	2.2	1.7	0	2727	59.8
621	USG	7542ET	EnlistE3	5.4	46.7	1.8	1.7	0	2828	65.0
609	VT	V15-1815DI	Conv	5.2	38.0	2.0	2.0	1	2467	52.9
610	VT	V15-2261ST	STS	5.2	32.0	1.5	1.3	0	2687	68.3
625	VT	V16-2451R2	RR2Y	5.5	35.0	1.7	1.7	0	2856	61.8
616	VT	V17-2361R	RR	5.3	42.7	2.3	3.0	1	2615	63.8
624	VT	V17-2933R	RR	5.2	41.0	1.7	1.3	1	2874	58.2
LSD P=.10					3.2	0.6	0.6	1.0	157	7.4
CV					6.0	22.2	27.2	181	4.2	8.4
Grand Mean					39.3	1.9	1.7	0.4	2732	63.9

Table 9c. Performance of double-crop early-maturity group 5 entries at Orange VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG53XF2	XtendFlex/STS	5.3	47.0	2.3	2.3	0	2647	87.2
Asgrow	AG54XF0	XtendFlex/STS	5.4	46.9	2.3	2.2	1	2809	78.0
Asgrow	AG55XF0	XtendFlex	5.5	47.0	2.8	2.0	0	2787	66.9
Dyna-Gro	S52XT91	Xtend	5.2	44.3	2.5	2.0	2	2993	80.5
HiSOY	HS54F10	XtendFlex	5.4	43.3	3.0	2.7	0	3001	63.4
Hubner	H51-22XF	XtendFlex	5.1	45.7	2.5	2.0	0	3093	70.9
Local Seed	LS5009XS	Xtend/STS	5.0	45.7	3.3	2.7	1	2914	74.4
Local Seed	LS5119XF	XtendFlex	5.1	44.0	2.5	2.3	2	2752	76.1
Local Seed	LS5418XFS	XtendFlex/STS	5.4	46.7	2.8	2.0	0	3171	67.9
Pioneer	P53A67X	RR2X	5.3	38.0	3.9	2.0	1	3381	68.5
Progeny	P5003XF	XtendFlex	5.0	41.3	2.8	2.3	1	3112	66.0
Progeny	P5121E3S	EnlistE3	5.1	41.3	2.8	3.0	1	2723	79.6
Progeny	P5424XF	XtendFlex	5.4	43.3	3.2	2.3	1	2982	71.3
Progeny	P5521E3	EnlistE3	5.5	52.0	3.0	2.0	0	3276	74.0
Progeny	P5554RX	Xtend	5.5	45.0	2.8	1.7	0	2726	66.5
Southern Harvest	SH5321E3	EnlistE3/STS	5.3	52.3	3.0	2.3	1	3068	70.1
USG	7542ET	EnlistE3	5.4	50.7	2.7	2.3	1	3187	73.2
VT	V15-1815DI	Conv	5.2	43.0	3.8	2.3	1	2807	72.3
VT	V15-2261ST	STS	5.2	42.3	2.8	2.0	0	2949	74.5
VT	V16-2451R2	RR2Y	5.5	45.3	3.0	2.0	0	2973	66.7
VT	V17-2361R	RR	5.3	50.0	2.8	3.0	3	2765	67.1
VT	V17-2933R	RR	5.2	48.7	2.8	2.0	0	3257	71.0
LSD P=.10				3.0	0.5	0.5	1.1	190	8.2
CV				4.8	12.3	17.8	112	4.6	8.3
Grand Mean				45.5	2.9	2.2	0.7	2993	71.7

Table 9d. Performance of double-crop early-maturity group 5 entries at Suffolk VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5)	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
USG	7542ET	EnlistE3	5.4	6-Nov	32.0	1.2	2.0	0	3294	59.8
Asgrow	AG53XF2	XtendFlex/STS	5.3	29-Oct	26.8	1.0	2.0	0	3002	59.0
Asgrow	AG54XF0	XtendFlex/STS	5.4	2-Nov	24.2	1.0	1.9	0	2895	58.2
Asgrow	AG55XF0	XtendFlex	5.5	6-Nov	20.9	1.0	1.7	0	2740	60.5
Hubner	H51-22XF	XtendFlex	5.1	27-Oct	22.3	1.0	2.0	0	3097	55.3
HiSOY	HS54F10	XtendFlex	5.4	29-Oct	13.9	1.0	2.0	1	3013	48.7
Local Seed	LS5009XS	Xtend/STS	5	1-Nov	26.0	1.2	1.7	0	3131	62.5
Local Seed	LS5119XF	XtendFlex	5.1	30-Oct	24.3	1.0	2.0	0	2931	69.8
Local Seed	LS5418XFS	XtendFlex/STS	5.4	1-Nov	27.8	1.0	2.0	0	3235	60.9
Progeny	P5003XF	XtendFlex	5	30-Oct	23.4	1.3	2.0	0	3151	54.4
Progeny	P5121E3S	EnlistE3	5.1	29-Oct	23.8	1.3	2.7	0	2759	61.8
Pioneer	P53A67X	Xtend	5.3	27-Oct	18.4	1.0	2.0	0	3313	58.7
Progeny	P5424XF	XtendFlex	5.4	28-Oct	18.3	1.0	2.3	1	3015	62.3
Progeny	P5521E3	EnlistE3	5.5	9-Nov	33.3	1.3	2.0	0	3298	58.5
Progeny	P5554RX	Xtend	5.5	1-Nov	20.0	1.0	1.7	0	2747	58.4
Dyna-Gro	S52XT91	Xtend	5.2	3-Nov	26.0	1.0	2.0	0	3191	65.0
Southern Harvest	SH5321E3	EnlistE3/STS	5.3	30-Oct	31.3	1.5	2.0	0	3213	59.9
VT	V15-1815DI	Conv	5.2	5-Nov	20.0	1.0	2.0	0	2720	50.8
VT	V15-2261ST	STS	5.2	2-Nov	19.9	1.0	2.0	0	2936	56.9
VT	V16-2451R2	RR2Y	5.5	28-Oct	19.3	1.0	1.7	0	3040	53.6
VT	V17-2361R	RR	5.3	29-Oct	29.3	1.2	1.7	0	2949	62.4
VT	V17-2933R	RR	5.2	2-Nov	28.0	1.2	1.3	0	3332	58.3
LSD P=.10				2.8	3.1	0.2	0.5	0.5	107	7.3
CV				6.5	9.3	14.3	17.7	333	2.6	9.1
Grand Mean				31-Oct	24.3	1.1	1.9	0.1	3065	58.6

Table 10a. Performance of double-crop late-maturity group 5 entries at Blackstone VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG56XF2	XtendFlex	5.6	39.3	1.0	2.0	0	2838	64.5
Asgrow	AG57XF1	XtendFlex/STS	5.7	44.0	1.3	2.0	0	2585	55.3
Dyna-Gro	S56XF01	XtendFlex	5.6	41.0	1.3	1.7	0	3347	64.1
Dyna-Gro	S56XT99	XtendFlex	5.6	40.3	1.7	2.0	0	2815	71.0
Dyna-Gro	S58XT30	Xtend	5.8	39.0	1.3	2.0	0	2956	70.9
Hubner	H58-21XF	XtendFlex	5.8	39.5	2.5	1.9	0	2735	58.7
Southern Harvest	SH5822E3	EnlistE3/STS	5.8	37.0	3.3	2.3	0	3594	68.6
Southern Harvest	SH6020LL/STS	LL/STS	6.0	28.3	1.3	2.0	0	2929	59.4
Southern Harvest	SH6515LL/STS	LL/STS	6.5	35.7	2.0	2.0	0	2955	70.8
USG	5618V	Conv	5.6	34.3	1.7	2.0	1	3154	70.4
USG	7562XF	XtendFlex	5.6	37.0	1.0	2.0	0	2815	72.0
VT	V16-1485ST	STS	5.8	37.7	2.3	2.0	0	2845	66.0
LSD P=.10				4.4	0.7	0.4	0.3	84	7.6
CV				8.5	29.0	13.4	172	2.0	8.2
Grand Mean				37.6	1.8	2.0	0.1	2961	66.2

Table 10b. Performance of double-crop early-maturity group 5 entries at Eastern Shore VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG56XF2	XtendFlex	5.6	39.3	2.0	2.3	0	2868	55.6
Asgrow	AG57XF1	XtendFlex/STS	5.7	46.0	2.3	2.0	0	2343	60.6
Dyna-Gro	S56XF01	XtendFlex	5.6	41.3	1.3	2.7	0	3147	53.0
Dyna-Gro	S56XT99	XtendFlex	5.6	40.3	2.2	2.0	0	2642	61.4
Dyna-Gro	S58XT30	Xtend	5.8	37.7	1.5	2.0	0	2661	67.4
Hubner	H58-21XF	XtendFlex	5.8	45.7	2.7	2.0	0	2467	55.9
Southern Harvest	SH5822E3	EnlistE3/STS	5.8	40.7	2.0	2.3	0	3199	65.7
Southern Harvest	SH6020LL/STS	LL/STS	6	35.7	1.8	2.0	0	2773	61.8
Southern Harvest	SH6515LL/STS	LL/STS	6.5	35.3	2.2	2.7	0	2898	57.5
USG	5618V	Conv	5.6	35.2	1.8	2.0	0	2992	56.6
USG	7562XF	XtendFlex	5.6	34.7	1.5	2.0	0	2834	61.5
VT	V16-1485ST	STS	5.8	42.3	2.2	2.3	0	2900	54.6
LSD P=.10				2.1	0.6	0.5	0.4	126	9.7
CV				3.8	20.7	16.5	333	3.2	11.8
Grand Mean				39.6	2.0	2.2	0.1	2799	58.8

Table 10c. Performance of double-crop late-maturity group 5 entries at Orange VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
						Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG56XF2	XtendFlex	5.6	45.7	3.0	1.0	1	2688	68.9
Asgrow	AG57XF1	XtendFlex/STS	5.7	53.7	2.7	1.0	0	2440	69.9
Dyna-Gro	S56XF01	XtendFlex	5.6	49.0	2.5	1.0	0	3183	64.4
Dyna-Gro	S56XT99	XtendFlex	5.6	45.0	2.8	1.0	1	2511	75.9
Dyna-Gro	S58XT30	Xtend	5.8	44.3	2.8	1.0	0	2962	63.3
Hubner	H58-21XF	XtendFlex	5.8	51.5	4.0	1.0	0	2427	58.9
Southern Harvest	SH5822E3	EnlistE3/STS	5.8	44.0	3.0	1.0	0	3389	59.7
Southern Harvest	SH6020LL/STS	LL/STS	6.0	45.0	3.2	1.0	0	2955	59.7
Southern Harvest	SH6515LL/STS	LL/STS	6.5	44.7	3.3	1.0	0	2871	61.6
USG	5618V	Conv	5.6	44.7	3.3	1.0	1	2761	60.3
USG	7562XF	XtendFlex	5.6	39.7	2.5	1.0	1	2780	61.3
VT	V16-1485ST	STS	5.8	48.7	3.0	1.0	0	2817	71.2
LSD P=.10				4.1	0.6	0.0	0.9	115	12.5
CV				6.3	12.7	0.0	186	3.0	14.0
Grand Mean				46.6	3.1	1.0	0.4	2786	63.9

Table 10d. Performance of double-crop late-maturity group 5 entries at Suffolk VA, 2021.

Brand	Variety	Herbicide Resistance	Rel. Mat.	Mat. Date	Height (in)	Lodging (1-5) ²	Seed			Yield (Bu/A)
							Quality (1-5)	PSS (%)	Seed Size (seed/lb)	
Asgrow	AG56XF2	XtendFlex	5.6	28-Oct	23.3	1.0	1.7	0	2763	58.7
Asgrow	AG57XF1	XtendFlex/STS	5.7	8-Nov	31.7	2.0	2.0	0	2541	59.8
Dyna-Gro	S56XF01	XtendFlex	5.6	1-Nov	26.7	1.0	1.7	0	3484	57.1
Dyna-Gro	S56XT99	XtendFlex	5.6	2-Nov	20.3	1.0	1.7	0	2786	63.7
Dyna-Gro	S58XT30	Xtend	5.8	29-Oct	20.0	1.0	2.0	0	3055	65.1
Hubner	H58-21XF	XtendFlex	5.8	8-Nov	33.3	2.8	1.7	0	2642	59.7
Southern Harvest	SH5822E3	EnlistE3/STS	5.8	6-Nov	26.7	1.2	2.0	0	3961	64.2
Southern Harvest	SH6020LL/STS	LL/STS	6.0	29-Oct	17.0	1.0	2.7	0	2814	62.3
Southern Harvest	SH6515LL/STS	LL/STS	6.5	31-Oct	19.0	1.0	2.7	0	2867	57.4
USG	5618V	Conv	5.6	31-Oct	18.2	1.0	2.0	0	2968	64.1
USG	7562XF	XtendFlex	5.6	1-Nov	25.7	1.0	2.0	0	3042	67.8
VT	V16-1485ST	STS	5.8	12-Nov	34.0	2.5	2.7	0	3082	58.5
LSD P=.10				3.1	3.9	0.4	0.7	0.0	137	9.3
CV				6.6	11.3	19.8	24.7	0.0	3.3	10.5
Grand Mean				3-Nov	24.8	1.5	2.0	0.0	2972	61.9

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