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VIRGINIA SOYBEAN PERFORMANCE TESTS

2019

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Tidewater Agricultural Research and Extension Center

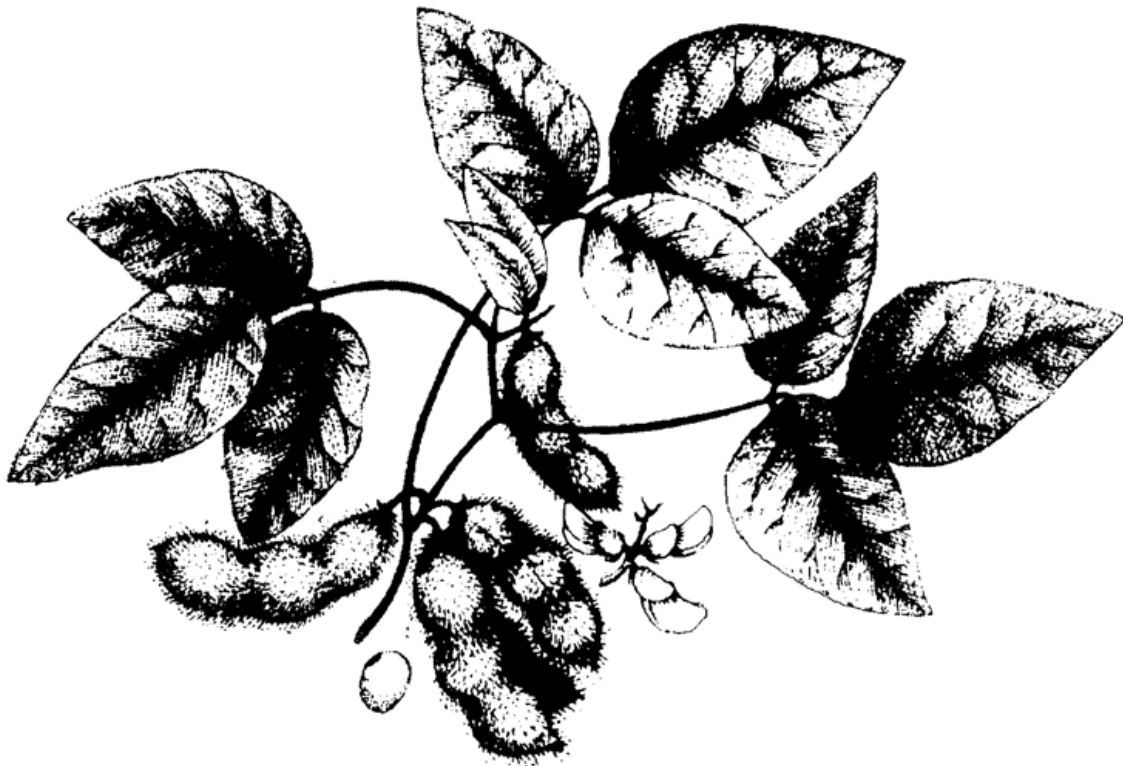
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All County Extension Agents for an excellent job of disseminating this information.

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INTRODUCTION

The purpose of this publication is to provide performance data of the many soybean varieties offered for sale in Virginia. These data should be of benefit to producers and agribusinesses in making selections of varieties for their use. It is realized that not all varieties that are offered for sale in Virginia are included in these tests. There is no implication that varieties not included are inferior in any way, but only that they have not been tested.

In general, Virginia experienced an average growing season, with intermittent drought scattered throughout the year and varying by location. The most severe dry period was between the middle of August throughout September and into October in many locations. Warsaw in the Northern Coastal Plain of Virginia experienced the driest weather with no measurable rain from Aug. 23 thru Oct. 16. As a result of this late-season drought, earlier maturity groups performed relatively better than late-maturing soybean. Full-season yielded more than double-crop soybean where much of the soil moisture was removed by the wheat crop and was never fully replenished before the dry weather began in August. Still, good cooperators, good farming practices, and long-term no-till and/or cover crops minimized the negative effects of the drought.

MATERIALS AND 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 (Cape Charles) regions of Virginia. All double-crop tests were no-till planted following wheat harvest except on the Eastern Shore where no wheat was planted. All plots were planted 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 Table 1. 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 165,000 seed per acre in full-season tests and 220,000 seed per acre in double-crop tests. All tests were maintained weed free with preemergence and/or postemergence herbicides and hand weeding. Insecticides were applied if insect pests 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 (SQ) 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 (SS) was obtained from the weight of a 100-seed sample then converted to number of seed per pound.

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

The experimental design was a randomized complete block design with three replications per site. Due to the number of entries, it was necessary to separate the varieties by maturity in all locations. To facilitate field operations and to allow for more accurate comparison, maturity group IV 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-1e contain full-season and double-crop yield summaries over all sites. Tables 2a-2k contain either full-season or double-crop tests and 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. Instead, relative yield may be a better indicator. Varieties in the summary tables are ranked by average yield or relative yield across sites in descending order. The remaining pages (Tables 3a – 8j) contain detailed yield and other performance data from each site. Varieties are sorted by Brand and variety name. Traits shown in these tables are maturity, lodging, height, seed quality, purple stain, seed size, and yield.

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 his farm and under his management conditions.

Within maturity groups at each location, LSD (least significant difference) was calculated at the 10% probability level. The LSD is a statistical test to assist the reader in comparing the yield differences among varieties within a particular maturity group. When two entries are compared and the difference between them is greater than the calculated LSD value, the varieties are considered 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.

Table 1. Production information.

Location	Planting Date	Tillage System	Herbicides	Date Applied	Insecticide/ Fungicides	Date Applied	Soil Type	Row Width	Rows Planted	Rows Harvested	Row Length Harvested
Blackstone-FS	5/20	No-Till	Liberty, Zidua, Envive Flexstar, Basagran Provonis	5/20 6/27 7/19	None	N/A	Appling sandy loam	15"	6	4	17'
Orange-FS	5/21	No-Till	Bucaneer, Dual Mag, Authority First Volunteer, Flexstar	5/22 7/1	None	N/A	Davison clay / Myersville silt loam / Lloyd clay loam	15"	6	4	17'
Eastern Shore-FS	5/23	No-Till	Liberty, Zidua, Envive Volunteer Flexstar	5/23 6/29 7/22	Beseige	8/27	Nimmo sandy loam	15"	6	4	17'
Suffolk-FS	5/14	No-Till	Bucaneer, Dual Mag, Sonic, Linex Volunteer, Faststrike	5/18 7/30	None	N/A	Dragston fine sandy loam / Eunola loamy fine sand	15"	6	4	17'
Warsaw-FS	6/14,15	Conv.	First rate, Medal II	5/11	Tombstone	8/26	Kempsville loam	30"	4	2	12'

Table 1. continued. Production information.

Location	Planting Date	Tillage System	Herbicides	Date Applied	Insecticide/ Fungicides	Date Applied	Soil Type	Row Width	Rows Planted	Rows Harvested	Row Length Harvested
Blackstone-DC	6/25	No-Till	Liberty, Dual, Flexstar, Volunteer	6/27	None	8/22	Appling sandy loam	15"	6	4	17'
			Ultra Blazer, Basagran	8/7							
			Clethodim	8/8							
Orange-DC	6/15	No-Till	Roundup Powermax, Zidua, Authority First	6/15	None	8/15	Bucks silt loam	15"	6	4	17'
			Flexstar, Provonis	7/18							
Eastern Shore-DC	6/20		Liberty, Zidua, Envive	5/23	Quadris Top SBX, Besiege	8/27	Nimmo sandy loam	15	6	4	17
			Liberty, Volunteer, Dual	6/29							
			Volunteer, Faststrike, Flexstar	7/22							

Table 1. continued. Production information.

Location	Planting Date	Tillage System	Herbicides	Date Applied	Insecticide/ Fungicides	Date Applied	Soil Type	Row Width	Rows Planted	Rows Harvested	Row Length Harvested
Suffolk-DC	6/26	No-Till	Bucaneer Plus, Envive, Zidua Flexstar, Basagran	6/24 8/14	Quadris Top SBX	9/4	Nansemond loamy fine sand	15"	6	4	17'
Warsaw-DC	6/28	No-Till	Roundup, Dual Magnum	6/18	Tombstone	8/8	Kempsville loam	20"	4	3	12'

Table 2. Average monthly precipitation (in) May-October at trial locations compared with 15-year averages.

Location		May	June	July	Aug.	Sept.	Oct.	Total
Blackstone	2019	3.02	5.57	5.97	2.61	0.86	4.43	22.46
	15-yr Avg.	4.45	3.48	4.99	3.89	3.64	4.50	24.95
Eastern Shore	2019	0.55	1.30	2.24	0.66	1.32	3.75	9.73
	15-yr. Avg.	3.60	3.80	4.00	4.20	4.10	3.70	23.40
Orange	2019	0.58	2.70	4.00	1.38	0.95	1.85	11.46
	15-yr Avg.	4.62	4.09	3.69	3.65	3.66	4.11	23.81
Suffolk	2019	2.55	7.52	4.17	5.22	2.67	4.82	26.95
	15-yr. Avg.	4.22	4.93	6.07	5.73	6.03	4.26	31.27
Warsaw	2019	1.14	2.66	0.70	2.98	0.26	2.39	10.14
	15-yr Avg.	4.07	4.64	4.07	4.57	3.94	4.86	25.86

Table 3. 2019 Seed source for soybean entries.

SUPPLIER	BRAND	VARIETIES
Armor Seed 2532 Alexander Dr. Jonesboro, AR 72401	Armor	51-D77, 52-D71, 55-D57, X58D70, 62-D60
BASF 168 Fontana Drive Clayton, NC 27527	Credenz	CZ 3929 GTLL, CZ 4600X, CZ 4570X, CZ 4539 GTLL, CZ 4649 LL, CZ 4770X, CZ 4979X, CZ 4869X, 5150 LL, CZ 5299X, CZ 5859 LL, CZ 5700X, CZ 5515 LL, CZ 6730 LL, CZ 6770X, CZ 6109 LL, CZ 6260 LL, CZ 6520 LL, CZ 6020X
Bayer Crop Science 800 N Lindbergh Blvd. St. Louis, MO 63167	Asgrow	AG46X0, AG46X6, AG42X9, AG43X8, AG48X9, AG48X7, AG49X9, AG47X9, AG47X0, AG55X7, AG52X9, AG55X0, AG56X8,
Nutrien Ag Solutions 396 Washington St. Boydton, VA 23917	Dyna-Gro	S39EN19, S46XS87, S46XS60, S43XS27, S46XT80, S49XS76, S49EN79, S52RS86, S52XS39 (SX18652XS), S58RY78, S56XT99
Hubner Seed 306 North Main Street Monticello, IN 47960	Hubner Seed	H46-29R2X, H43-27R2X, H49-27R2X, H50-10R2X, H56-20R2X
LG Seeds 9915 W M 21 Ovid, MI, 48866	LG Seeds	LGS 3550RX, LGS 3777RX, C4227RX, LGS4597RX LGS 4899RX
Local Seed Company, LLC 802 Rozelle Street Memphis, TN 38104	Local Seed	LS4795XS, LS4299XS, ZS4694E3S, LS4565XS, LS4487XS, ZS4596GLS, LS4889XS, LS4894X, LS4798X, LS4999X, ZS4797E3, LS5087X, LS5386X, LS5588X
Meherrin Ag & Chemical Co P.O. Box 200/4136 Severn Road Severn, NC 27877	Southern Harvest	SH 3814 LL, SH 4619 LLGT27, SH 4019 LLGT27, SH 4020 Enlist E3, SH 4817 LL, SH 4920 Enlist E3, SH 4820 Enlist E3, SH 5215 LL, SH 5120 Enlist E3, SH 5515 LL, SH 6020 LL/STS, SH 6515 LL/STS
Mid-Atlantic Seeds 204 ST. Charles Way 163E York, PA 17403	Mid-Atlantic	MAS4688NRR2/STS/X, MAS4367GT/LL, MAS4619E3, MAS4550GT/LL/STS, MAS4200GT/LL/STS
Petrus Seed & Grain 4100 Hanson Rd. Hazen, AR 72064	Petrus	PS 4916 GT
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny	P4525E3, P4620RXS, P4291LR, P4682E3, P4565LR, P4851RX, P4999RX, P4799RXS, P4821RX, P4816RX, P4710E3, P5226RYS, P5016RXS, P5170RX, P5211E3, P5252RX, P5414LLS, P5554RX, P5688RX, P6461RX
Seed Consultants 648 Miami Trace Rd. SW Washington Court House OH, 43160	Seed Consultants	SC 9469BR, SC 8518X, SC 8570X, SC 9578R,

Table 3. continued. 2019 Seed source for soybean entries.

SUPPLIER	BRAND	VARIETIES
SeedKoz 1725 Windward Concourse Suite 410 Alpharetta, GA 30005	MorSoy	MS 4616 RXT/STS, MS 4846 RXT, MS 5398 RXT, MS 5607 RXT
Syngenta Seeds, Inc. 4013 Fairmount Pike Signal Mountain, TN 37377	NK	S39-G2X, S44-C7X, S49-F5X, S53-F7X, S57-A7X
Tidewater Seed 2900 Information Ln Suite 302 Easton, MD 21601	Axis	XP473218X, 5319NRX, 5519NRX
UniSouth Genetics, Inc. 3205C Hwy 46 S Dickson, TN 37055	USG	7370ETS, 7399ET, 7390ET, 7447XTS, 7429ET, 7410ET, 7440ETS, 7450ETS, 7460ET, 7487XTS, 7480XT, 7496XTS, 7478XTS, 7499ET, 7480ET, Ellis, 7479ET, 7529XTS, 5618V, 75B75R
University of Missouri PO Box 160, 147 West St. Portageville, MO	University of Missouri	S16-14730C, S13-10592C, S13-10590C, S14- 15138R, S13-1955C, S15-10434C
Virginia Crop Improvement Association PO Box 78, Mount Holly, VA 22524	Public	MO4901D GT, Corbin
Virginia Tech 220 Ag Quad Ln Blacksburg, VA 24060	Virginia Tech	V15-287ST, V14-2288, V15-057DI, V16-0293, V15- 1407, V15-259ST, V16-2197R, V16-0725PR, V15- 1861, V14-2116, V15-2261ST, V16-1672RLP, V16- 0709PR, V15-1815DI, V14-0988, V15-1872, V15- 2287ST

Table 1a. Yield summaries of maturity group III entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season				Rel. Yield (bu/A)
				ESH (bu/A)	ORG (bu/A)	WAR (bu/A)	Avg. (bu/A)	
NK	S39-G2X	RR2/Extend	3.9	72.6	87.2	54.9	71.6	117
Dyna-Gro	S39EN19	Enlist E3	3.9	69.1	82.7	49.4	67.1	109
USG	7370ETS	Enlist STS	3.7	72.1	78.0	39.0	63.0	101
USG	7399ET	Enlist	3.9	70.0	82.8	35.9	62.9	99
USG	7390ET	Enlist	3.9	65.7	78.8	40.8	61.8	99
Credenz	CZ 3929 GTLL	GTLL	3.9	66.5	63.3	45.3	58.4	96
Southern Harvest	SH 3814 LL	LL	3.8	59.9	77.4	40.9	59.4	96
LG Seeds	LGS 3550RX	Xtend, STS	3.5	58.8	74.8	37.8	57.1	92
LG Seeds	LGS 3777RX	Xtend, STS	3.7	56.0	73.6	37.3	55.6	89
LSD P=.10				12.1	10.6	6.9	6.9	
CV				12.7	9.5	11.4	13.5	
Grand Mean				66.1	77.7	42.3	61.9	

Table 1b. Yield summaries of early maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						Rel. Yield (bu/A)
				BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	
Local Seed	LS4795XS	RR2X/STS	4.6	56.1	72.8	78.9	93.7	56.9	71.7	46.1	71.6	41.9	36.8	39.7	47.2	107
Pioneer	P46A16	RR	4.6	59.8	70.5	82.1	84.4	63.6	72.1	45.6	58.3	38.6	36.3	47.1	45.2	106
LG Seeds	LGS4597RX	RR2X	4.5	61.6	72.3	75.4	76.2	55.2	68.1	43.9	69.3	42.3	43.4	41.1	48.0	106
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6	58.4	71.4	76.7	80.7	57.7	69.0	47.4	67.0	40.1	38.5	41.2	46.8	105
USG	7399ET	Enlist	3.9								47.2	65.6	41.3	35.3	45.8	105
Asgrow	AG46X0	RR2X/SR	4.6	57.4	76.2	67.8	81.1	52.8	67.1	42.7	74.1	44.1	39.4	41.1	48.3	105
Progeny	P4525E3	Enlist	4.5								43.6	67.3	47.1	39.6	36.7	105
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3	58.4	73.3	75.0	87.9	48.3	68.6	47.6	69.0	39.7	38.1	42.4	47.4	105
Mid-Atlantic Seeds	MAS4688NRR2/STS/X	RR2/STS/X	4.6								48.1	63.6	38.1	43.4	40.0	105
NK	S44-C7X	RR2/Extend	4.4	58.8	68.4	78.1	87.9	50.7	68.8							105
Asgrow	AG46X6	RR2X	4.6	54.6	68.3	74.4	91.1	59.9	69.7	46.1	74.9	36.8	33.7	41.9	46.7	104
Dyna-Gro	S46XS87	Xtend/STS	4.6	67.7	73.0	69.6	71.1	54.5	67.2	50.6	76.8	38.0	33.4	38.9	47.5	104
Dyna-Gro	S46XS60	Xtend/STS	4.6	61.2	73.7	64.8	85.7	53.5	67.8							104
USG	7447XTS	RRXT/STS	4.4	59.2	67.3	85.2	94.3	51.2	71.4	45.2	68.2	37.2	35.1	38.0	44.7	104
USG	7429ET	Enlist	4.2	58.2	66.4	80.1	86.2	51.3	68.4	43.7	61.7	37.4	45.6	39.7	45.6	104
Dyna-Gro	S43XS27	Xtend/STS	4.3	54.9	75.0	78.3	89.2	45.4	68.6	47.8	66.9	37.7	42.1	37.3	46.4	104
USG	7410ET	Enlist	4.1	51.7	64.3	85.3	73.2	46.0	64.1	50.5	70.7	42.9	37.6	43.0	48.9	103
Local Seed	LS4299XS	RR2X/STS	4.2	69.3	62.0	68.9	74.3	57.8	66.5							103
Progeny	P4620RXS	R2X, STS	4.6								45.1	68.8	36.9	35.0	45.9	103
USG	7440ETS	Enlist STS	4.4	60.7	70.7	76.1	70.4	51.9	66.0	46.5	56.4	40.1	39.5	42.3	44.9	102
USG	7390ET	Enlist	3.9								43.8	65.7	34.7	38.2	44.9	101
LG Seeds	C4227RX	Xtend, STS	4.2	58.9	67.3	82.1	85.5	50.9	68.9	47.6	61.1	36.2	28.1	45.9	43.8	101
Mid-Atlantic Seeds	MAS4367GT/LL	GT/LL	4.3								43.1	66.2	40.6	38.3	38.3	101
Pioneer	P42A96X	RR2X	4.2	51.0	62.5	69.9	82.0	50.3	63.1	46.1	62.5	42.5	41.0	41.2	46.6	101
MorSoy	MS 4616 RXT/STS	RXT/STS	4.6	57.2	64.7	71.1	76.8	56.7	65.3							101
USG	7450ETS	Enlist STS	4.5	59.5	73.8	73.8	75.5	58.8	68.3	42.5	64.5	37.1	33.1	38.4	43.1	100
Local Seed	ZS4694E3S	E3/STS	4.6	65.8	62.9	64.5	73.4	55.5	64.4	48.3	60.7	43.7	30.9	41.5	45.0	100
Local Seed	LS4565XS	RR2X/STS	4.5	57.2	69.3	69.7	72.5	52.4	64.2	44.8	63.2	47.9	36.2	34.8	45.4	100
Univ of Missouri	S16-14730C	CONV	4.5	51.5	58.0	69.9	71.3	59.1	62.0	44.0	54.1	43.9	40.0	47.3	45.9	100
Channel	4519R2X	RR2X/SR	4.5	59.7	68.1	69.8	85.9	49.6	66.6	41.7	65.8	39.1	34.0	40.9	44.3	100
Local Seed	LS4487XS	RR2X/STS	4.4	56.3	59.6	70.4	81.5	52.0	64.0	50.3	59.8	41.5	35.6	40.4	45.5	100
Credenz	CZ 4600X	XTEND	4.6	62.1	63.1	71.6	73.8	53.7	64.9							100
Mid-Atlantic Seeds	MAS4619E3	E3	4.6								44.4	67.4	36.6	37.5	38.2	99
Credenz	CZ 4570X	XTEND	4.5	61.3	61.0	71.7	84.8	47.1	65.2							99
Seed Consultants	SC 9469BR	RR2/BOLT	4.6	55.8	66.2	70.5	82.4	50.4	65.1							99
Local Seed	ZS4596GLS	GT/LL/STS	4.5	55.1	67.3	68.1	85.1	49.4	65.0	42.0	60.3	42.5	36.4	34.6	43.2	98
Dyna-Gro	S46XT80	Xtend	4.6								44.2	62.3	39.0	31.8	42.3	98
Progeny	P4291LR	LL/GT27	4.2								45.6	62.9	34.3	35.7	39.4	97

Table 1b. Yield summaries of early maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						Rel. Yield (bu/A)
				BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	
USG	7460ET	Enlist	4.6	53.7	63.6	73.8	73.0	58.0	64.4	43.4	58.0	36.1	35.1	38.4	42.2	97
Asgrow	AG42X9	RR2X	4.2	58.5	56.5	71.1	83.1	50.5	63.9	46.3	56.0	33.1	37.2	40.7	42.7	97
Asgrow	AG43X8	RR2X	4.3	55.4	67.1	67.4	84.1	47.4	64.3	41.5	64.6	35.4	36.7	36.0	42.9	96
Mid-Atlantic Seeds	MAS4550GT/LL/STS	GT/LL/STS	4.5							43.5	66.3	35.9	38.5	31.8	43.2	96
Southern Harvest	SH 4619 LLGT27	LLGT27	4.6	56.6	65.7	64.2	71.7	49.6	61.6							95
Southern Harvest	SH 4019 LLGT27	LLGT27	4.0	61.5	53.6	72.0	71.7	48.0	61.4							94
USG	7370ETS	Enlist STS	3.7							49.6	63.6	33.0	30.7	34.7	42.3	93
Univ of Missouri	S13-10592C	CONV	4.5	48.9	55.5	66.3	69.6	53.2	58.7	42.7	55.9	39.0	32.7	41.5	42.4	93
Progeny	P4682E3	Enlist	4.6							40.6	51.2	36.2	37.5	37.2	40.5	92
Southern Harvest	SH 4020 Enlist E3	Enlist E3	4.0	57.6	52.7	73.6	82.5	37.9	60.9							92
Mid-Atlantic Seeds	MAS4200GT/LL/STS	GT/LL/STS	4.2							40.9	58.0	30.2	39.4	36.7	41.0	92
Credenz	CZ 4539 GTLL*	LL/GT27	4.5	51.2	65.1	58.9	73.7		62.2							91
Credenz	CZ 4649 LL	LL	4.6	58.6	58.4	52.0	67.3	54.1	58.1							90
Progeny	P4565LR	LL/GT27	4.5							43.5	58.1	31.9	29.5	38.1	40.2	89
Univ of Missouri	S13-10590C	CONV	4.3	41.8	48.1	64.6	70.2	40.4	53.0	40.5	49.4	36.0	30.7	42.6	39.8	85
LSD P=.10				8.3	7.6	10.3	9.6	8.0	5.5	5.5	10.7	8.2	7.6	5.8	4.1	
CV				10.6	8.5	10.5	8.9	11.3	14.0	9.0	12.4	15.5	15.2	10.6	8.8	
Grand Mean				57.3	65.6	71.8	79.6	52.2	65.4	45.1	63.6	38.7	36.4	40.2	44.8	

*variety not received prior to planting at WAR

Table 1c. Yield summaries of late maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						Rel Yield (bu/A)
				BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	
USG	7487XTS	RRXT/STS	4.8	77.3	92.1	64.4	75.5	72.4	76.3	50.1	77.8	35.9	41.9	52.2	51.6	111
Asgrow	AG48X9	RR2X/SR	4.8	76.3	86.6	73.0	80.2	69.3	77.1							109
USG	7480XT	RRXT	4.8	84.2	82.0	76.5	85.9	78.5	81.4	43.2	60.3	34.7	40.3	49.8	45.7	109
Local Seed	LS4889XS	RR2X/STS	4.8	68.8	75.4	72.0	72.2	72.4	72.2	50.9	76.3	39.5	41.0	50.3	51.6	109
USG	7496XTS	RRXT/STS	4.9	74.8	78.1	66.1	81.9	74.0	75.0	44.0	65.6	39.6	42.6	48.6	48.1	107
NK	S49-F5X	RR2/Extend	4.9	74.7	80.5	71.6	76.8	74.4	75.6							107
Progeny	P4851RX	R2X	4.8							48.2	63.4	33.8	39.4	54.0	47.8	107
Local Seed	LS4894X	RR2X	4.8	70.4	79.2	75.2	81.2	69.0	75.0							106
Southern Harvest	SH 4817 LL	LL	4.8	77.1	82.6	67.8	71.1	75.7	74.9							106
USG	7478XTS	RRXT/STS	4.7	71.4	82.5	68.2	76.5	45.2	68.8	46.6	67.8	33.8	51.1	56.3	51.1	106
Channel	4818R2X	RR/R2X	4.8	68.8	78.9	71.7	79.5	68.1	73.4	46.8	69.7	27.7	45.0	54.9	48.8	106
Southern Harvest	SH 4920 Enlist E3	Enlist E3	4.9	75.2	91.9	60.3	77.2	69.6	74.8							106
Credenz	CZ 4770X	XTEND	4.7	79.0	81.2	66.3	80.5	64.6	74.3							105
Local Seed	LS4798X	RR2X	4.7	64.1	77.6	58.0	75.8	65.8	68.3	47.9	71.3	32.4	50.3	52.8	50.9	105
LG Seeds	LGS 4899RX	Xtend, STS	4.8	65.1	88.1	65.8	79.9	70.5	73.9							104
Asgrow	AG48X7	RR2X/SR	4.8	78.2	88.9	64.6	69.6	67.8	73.8	43.6	57.9	29.5	44.0	56.7	46.3	104
Asgrow	AG48X9	RR2X/SR	4.8							46.3	69.6	24.9	44.0	53.6	47.7	104
MorSoy	MS 4846 RXT	RXT	4.8	72.1	83.5	66.3	86.3	69.9	75.6	40.9	68.1	27.5	36.8	56.3	45.9	103
USG	7499ET	Enlist	4.9	77.8	84.6	62.8	73.3	75.6	74.8	45.1	67.5	35.1	30.0	47.4	45.0	103
Pioneer	P48A60X	RR2X	4.8	63.9	80.0	72.1	80.3	66.7	72.6	47.5	69.2	26.6	36.3	57.1	47.3	103
Progeny	P4999RX	R2X	4.9							42.2	64.6	33.4	39.3	51.2	46.1	103
Credenz	CZ 4979X	XTEND	4.9	71.3	86.6	59.4	78.5	67.9	72.7							103
Channel	4919	RR2X/SR	4.9	78.2	79.5	52.9	81.0	73.4	73.0	44.7	68.0	28.9	35.5	54.0	46.2	102
Local Seed	LS4999X	RR2X	4.9	65.9	77.7	73.5	71.6	68.2	71.4							101
USG	7480ET	Enlist	4.8	56.0	74.1	61.4	74.9	71.6	67.6	43.0	59.3	37.9	46.3	47.6	46.8	101
Progeny	P4799RXS	R2X, STS	4.7							42.7	65.7	29.9	39.7	50.6	45.7	101
USG	Ellis	CONV	4.9	70.5	61.0	63.6	81.0	74.5	70.1	44.9	59.4	31.3	42.1	49.6	45.5	101
Asgrow	AG49X9	RR2X/SR	4.9	70.4	83.4	62.1	77.3	68.2	72.3	44.3	60.5	27.4	40.6	47.5	44.1	100
Asgrow	AG46X6	RR2X	4.6	71.1	81.3	61.8	79.4	62.9	71.3	48.5	59.3	32.1	39.5	40.8	44.0	100
Progeny	P4821RX	R2X	4.8							44.3	65.0	29.2	38.6	48.7	45.2	100
Asgrow	AG47X9	RR2X	4.7	63.3	67.8	65.8	82.4	61.2	68.1	45.9	72.0	26.5	43.1	47.0	46.9	99
Dyna-Gro	S49XS76	Xtend/STS	4.9	67.3	68.9	62.0	74.7	76.6	69.9	45.4	61.3	27.9	37.5	52.8	45.0	99
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9	64.2	76.1	63.6	74.4	67.7	69.2	45.1	66.5	25.9	40.4	51.4	45.9	99
Axis	XP473218X	RR2X	4.7	64.5	86.7	60.1	76.1	59.1	69.3	45.1	66.4	27.3	43.0	44.8	45.3	99

Table 1c. Yield summaries of late maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						Rel Yield (bu/A)
				BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	
Progeny	P4816RX	R2X	4.8							42.8	59.1	27.4	39.0	54.1	44.5	98
Virginia Tech	V15-1407	CONV	4.9	70.9	66.6	55.2	76.4	67.8	67.4	41.0	53.5	33.6	43.3	51.1	44.5	98
Petrus	PS 4916 GT	RR	4.9							42.7	59.1	33.8	39.9	40.9	43.3	98
USG	7479ET	Enlist	4.7	68.0	69.1	55.0	80.4	67.2	67.9	40.5	62.8	29.3	37.4	54.6	44.9	98
Dyna-Gro	S49EN79	Enlist E3	4.9	73.0	73.7	56.3	76.6	73.0	70.5	46.6	61.9	23.9	30.8	55.6	43.8	97
Virginia Tech	V15-0057DI	CONV	4.9	63.2	74.0	61.2	75.5	68.2	68.4	43.9	55.8	29.1	40.4	49.3	43.7	97
Credenz	CZ 4869X	XTEND	4.8	66.8	80.2	57.7	72.4	66.4	68.7							97
Progeny	P4710E3	Enlist	4.7							43.9	58.8	27.8	36.5	51.9	43.8	97
Virginia Tech	V16-0293	CONV	4.9	73.0	76.0	59.3	78.4	64.2	70.2	43.6	61.4	24.5	38.3	47.2	43.0	97
Univ of Missouri	S14-15138R	RR1/STS	4.8	64.7	87.5	64.7	70.6	70.3	71.6	45.0	48.8	23.7	35.2	45.7	39.7	95
Local Seed	ZS4797E3	E3	4.7	65.8	73.1	57.4	78.2	60.5	67.0							95
Petrus	PS 4916 GT	RR	4.9	57.1	74.5	58.0	72.3	65.4	65.5							93
Asgrow	AG47X0	RR2X/SR	4.7	55.0	65.9	65.2	73.2	70.9	66.0	41.4	51.6	24.3	39.6	47.9	41.0	92
Virginia Tech	V15-2287ST	STS	4.7	59.2	73.6	62.8	65.6	48.1	61.9	40.8	53.6	30.0	37.5	53.5	43.1	92
Southern Harvest	SH 4820 Enlist E3	Enlist E3	4.8	67.2	66.3	50.5	75.8	59.3	63.8							90
Virginia Tech	V15-2259ST	STS	4.9	59.6	69.1	62.0	77.2	60.5	65.7	35.0	64.5	20.7	34.7	45.0	40.0	90
Public	MO4901D GT	GT	4.9	68.5	59.7	55.7	79.2	67.6	66.1	38.0	45.2	26.2	29.4	47.8	37.3	89
Virginia Tech	V16-2197R	RR	4.9	63.8	67.4	53.9	73.2	59.3	63.5	41.1	54.2	25.0	36.3	39.4	39.2	88
Virginia Tech	V14-2288	CONV	4.9	55.3	47.2	54.1	79.0	52.2	57.6	35.2	49.2	26.8	38.3	44.4	38.8	84
LSD P=.10				9.7	10.1	9.8	9.0	9.6	6.0	4.1	11.2	7.7	7.4	9.1	4.4	
CV				10.2	9.6	11.4	8.6	10.6	14.0	6.9	13.3	19.2	13.6	13.3	16.1	
Grand Mean				69.3	77.0	63.0	76.9	67.1	70.5	44.0	62.3	29.6	39.6	50.1	45.1	

Table 1d. Yield summaries of early maturity group V entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						Rel. Yield (bu/A)
				BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	
Progeny	P5226RYS	R2Y/STS	5.2							48.4	75.6	41.5	36.4	34.3	47.2	110
Dyna-Gro	S52RS86	RR2Y/STS	5.2	68.0	84.7	69.3	75.5	60.6	71.6	46.6	79.0	37.0	34.4	36.6	46.7	109
MorSoy	MS 5398 RXT	RXT	5.3	62.9	76.2	74.9	81.3	60.1	71.1							109
Local Seed	LS5087X	RR2X	5.0	63.7	80.6	74.6	78.1	53.4	70.1	47.3	66.5	49.2	32.9	35.9	46.4	108
Southern Harvest	SH 5215 LL	LL	5.2	60.1	71.2	70.0	75.8	56.5	66.7	50.5	70.5	37.1	45.3	34.5	47.6	107
USG	7529XTS	RRXT	5.2							41.4	62.1	47.8	40.2	31.5	44.6	107
Local Seed	LS5386X	RR2X	5.3	62.1	72.7	76.7	84.6	56.4	70.5	45.9	66.3	39.5	33.3	34.8	44.0	105
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0	52.0	72.1	72.2	73.8	64.7	67.0	45.1	69.5	39.0	36.1	39.6	45.9	105
Southern Harvest	SH 5120 Enlist E3	Enlist E3	5.1	66.6	74.0	74.7	64.4	62.4	68.4							105
Armor Seed	52-D71	RR2X	5.2	66.0	76.8	66.5	72.2	59.4	68.2							104
Credenz	CZ 5150 LL	LL	5.1	57.1	72.4	60.4	75.7	56.9	64.5	43.3	75.1	38.6	42.0	35.8	47.0	104
Asgrow	AG55X7	RR2X	5.5	57.8	66.4	75.4	76.7	57.2	66.7	48.6	68.9	36.7	35.8	36.2	45.2	104
Asgrow	AG52X9	RR2X/SR	5.2	64.6	74.2	73.6	70.9	57.9	68.2	42.5	62.7	37.5	30.8	36.0	41.9	102
Seed Consultants	SC 8518X	RR2/Xtend	5.1	58.5	77.7	72.3	65.0	57.8	66.3							101
Dyna-Gro	S52XS39	Xtend/STS	5.2	58.0	65.4	73.0	66.7	58.2	64.3	45.0	62.6	42.9	35.8	31.5	43.6	101
Axis	5319NRX	RR2X	5.3	53.1	74.1	72.4	77.0	55.6	66.4	44.6	66.3	33.1	35.4	33.5	42.6	100
Virginia Tech	V16-0709PR	CONV	5.4	67.1	70.7	70.5	59.2	58.3	65.2	41.6	65.7	41.2	30.4	31.9	42.2	99
Pioneer	P51A61X	RR2X	5.1	64.2	71.4	67.9	69.1	60.2	66.6	42.0	64.0	39.6	29.4	31.6	41.3	99
NK	S53-F7X	RR2/Extend	5.3	61.0	76.2	63.7	69.4	54.3	64.9							99
Progeny	P5170RX	R2X	5.1							43.1	67.5	30.1	32.4	35.9	41.8	97
Progeny	P5016RXS	R2X, STS	5.0							41.9	66.8	35.9	28.4	35.8	41.8	97
Public	Corbin	GT	5.3	59.8	59.6	66.7	75.9	61.4	64.7	40.9	59.0	40.3	26.9	34.2	40.3	97
Progeny	P5211E3	Enlist	5.2							43.3	69.3	34.1	27.9	35.2	42.0	97
Credenz	CZ 5299X	XTEND	5.2	63.0	63.3	59.9	72.5	56.7	63.1							97
Progeny	P5252RX	R2X	5.2							42.3	60.0	35.7	34.9	30.8	40.7	96
Virginia Tech	V15-2261ST	STS	5.3	53.7	70.3	64.1	72.2	61.3	64.3	43.4	61.3	28.8	34.9	31.1	39.9	96
Progeny	P5414LLS	LL, STS	5.4							37.6	58.2	35.3	38.8	31.4	40.3	96
Virginia Tech	V15-1861	CONV	5.2	60.4	61.8	67.3	69.2	59.5	63.6	41.7	64.9	35.4	25.2	33.5	40.1	95
Virginia Tech	V14-2116	CONV	5.2	42.8	64.5	69.8	68.4	55.3	60.2	42.3	64.5	36.6	38.4	26.1	41.6	95
Armor Seed	51-D77	RR2X	5.1	63.6	65.5	58.7	66.5	53.1	61.5							94
Progeny	P5554RX	R2X	5.4							39.1	66.6	32.6	27.2	30.2	39.1	90
Virginia Tech	V16-0725PR	CONV	5.1	59.1	52.6	59.7	66.6	47.2	57.0	40.8	62.5	28.0	29.2	28.0	37.7	87
Virginia Tech	V16-1672RLP	RR	5.3	57.8	59.8	49.5	67.4	32.0	53.3	40.4	56.6	32.0	35.4	30.0	38.9	87
LSD P=.10				9.3	6.7	13.6	9.9	6.4	5.6	4.8	7.9	6.9	6.1	4.2	3.9	
CV				11.3	7.0	14.5	10.1	8.2	14.1	8.1	8.8	13.7	13.3	9.2	14.9	
Grand Mean				60.1	70.2	68.2	71.6	56.7	65.4	43.4	65.8	37.1	33.5	33.3	42.7	

Table 1d. Yield summaries of late maturity group V entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop					
				BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)
Pioneer	P55A49X	RR2X	5.5	69.3	70.7	65.7	79.3	58.2	68.6	44.4	71.7	40.7	38.9	43.0	47.7
USG	5618V	CONV	5.6	70.3	62.8	63.8	69.5	55.0	64.3	43.5	57.7	41.1	44.9	50.2	47.5
Seed Consultants	SC 8570X*	RR2/Xtend	5.7	61.8	68.9	67.8	80.5		69.8						
Credenz	CZ 5859 LL	LL	5.8	66.6	70.3	69.7	80.8	47.0	66.9	43.4	61.4	33.9	46.2	42.7	45.5
Dyna-Gro	S58RY78	RR2Y	5.8	69.6	63.7	72.2	69.8	50.1	65.1	40.8	69.8	33.9	41.2	48.2	46.8
Virginia Tech	V15-1872	CONV	5.7	70.5	68.6	66.3	63.8	52.5	64.3	44.3	61.0	32.3	42.1	49.8	45.9
Virginia Tech	V15-1815DI	CONV	5.6	64.6	63.2	66.9	70.5	47.3	62.5	47.5	66.1	36.7	38.3	48.4	47.4
Asgrow	AG55X7	RR2X	5.5	67.8	66.6	66.0	53.1	55.5	61.8	45.6	62.3	39.4	33.9	54.1	47.1
Dyna-Gro	S56XT99	Xtend	5.6							45.5	65.7	35.1	42.5	42.2	46.2
Seed Consultants	SC 9578R	RR	5.7	58.3	73.2	65.1	67.7	53.1	63.5						
Asgrow	AG55X0	RR2X/SR	5.5	68.0	78.4	67.8	63.6	38.6	63.3	45.9	67.2	32.5	42.4	42.2	46.0
Local Seed	LS5588X	RR2X	5.5	73.0	62.6	58.3	78.4	43.8	63.2						
Asgrow	AG56X8	RR2X	5.6	62.4	68.0	65.7	75.1	46.8	63.6	39.1	65.4	35.3	43.8	40.0	44.7
NK	S57-A7X	RR2/Extend	5.7	76.9	64.8	56.4	66.7	48.0	62.6						
USG	75B75R	RR2Y	5.7	68.9	68.0	61.2	63.6	50.8	62.5	40.1	60.7	39.2	33.9	47.2	44.2
Axis	5519NRX	RR2X	5.5	68.9	68.1	53.4	75.0	43.9	61.9	41.7	63.0	38.1	42.4	40.4	45.1
Progeny	P5688RX	R2X	5.6							43.0	60.2	33.1	44.1	42.9	44.7
Armor Seed	X58D70	RR2X	5.8	69.0	65.0	60.3	69.9	45.6	62.0						
MorSoy	MS 5607 RXT	RXT	5.6	68.4	60.7	66.6	69.0	42.2	61.4	41.7	65.4	30.1	47.0	42.2	45.3
Univ of Missouri	S13-1955C	CONV	5.5	60.6	71.8	62.9	72.5	52.0	64.0	38.7	59.6	33.0	39.9	42.5	42.7
Dyna-Gro	S56XT99	Xtend	5.6	68.1	62.0	59.0	72.4	45.5	61.4						
Armor Seed	55-D57	RR2X	5.5	67.8	66.7	60.1	64.3	46.3	61.0						
Virginia Tech	V14-0988	CONV	5.6	64.4	60.1	63.4	70.6	39.6	59.6	44.5	66.4	32.6	38.1	45.7	45.5
Southern Harvest	SH 5515 LL	LL	5.5	68.4	57.8	58.9	64.3	49.9	59.9						
Credenz	CZ 5700X	Xtend	5.7	67.5	67.8	55.4	69.1	42.4	60.4						
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6	56.7	60.4	60.6	71.0	47.4	59.2	39.5	55.3	32.3	40.0	41.7	41.8
Univ of Missouri	S15-10434C	CONV	5.5	61.6	67.5	63.2	56.9	44.7	58.8	44.8	56.3	28.4	35.6	45.0	42.0
Credenz	CZ 5515 LL	LL	5.5	62.2	61.5	55.1	63.6	44.2	57.3	42.5	61.0	33.8	30.5	43.3	42.2
LSD P=.10				8.0	10.9	11.4	10.3	6.8	5.3	4.7	7.0	6.7	7.1	4.5	3.9
CV				8.8	12.0	13.3	10.8	10.5	13.9	7.9	8.0	14.0	12.8	7.3	14.2
Grand Mean				66.6	66.0	62.8	69.4	47.6	62.6	43.0	63.0	34.8	40.3	44.8	45.2

*variety not received prior to planting at WAR

Rel. Yield (bu/A)
108
105
105
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Table 1e. Yield summaries of maturity group VI entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						Rel. Yield (bu/A)
				BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	
Armor Seed	62-D60	RR2X	6.2	73.4	76.1	59.7	69.0	51.2	65.9							108
Progeny	P6461RX	R2X	6.4							44.7	60.5	33.4	46.6	28.8	42.8	103
Credenz	CZ 6730 LL	LL	6.7	70.0	72.5	49.7	63.3	53.9	61.9	43.1	65.5	27.3	43.7	35.2	43.0	102
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1	61.8	72.4	60.3	66.3	50.0	62.2	42.3	67.2	27.2	43.3	32.5	42.5	101
Credenz	CZ 6770X	Xtend	6.7	64.9	67.3	57.7	65.8	51.0	61.3							101
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5	60.1	71.7	61.1	68.6	51.3	62.6	44.1	58.3	26.4	44.2	32.8	41.2	100
Credenz	CZ 6109 LL	LL	6.1	60.9	69.2	54.3	66.8	50.9	60.4	41.9	66.9	25.0	44.0	32.1	42.0	99
Credenz	CZ 6260 LL	LL	6.2	52.4	63.1	48.9	69.6	55.2	57.8	42.2	59.5	27.0	43.5	38.4	42.1	98
Credenz	CZ 6520 LL	LL	6.5	60.7	65.9	54.6	62.7	46.8	58.1	44.0	59.0	25.6	46.9	30.6	41.2	97
Credenz	CZ 6020X	Xtend	6.0	62.7	74.9	47.9	59.5	46.4	58.3							95
LSD P=.10				9.4	7.5	10.7	6.2	4.7	4.4	4.0	7.7	6.9	4.7	5.1	3.1	
CV				10.4	7.5	13.6	6.6	6.5	11.6	6.2	8.4	17.3	7.3	10.6	11.9	
Grand Mean				63.0	70.3	54.9	65.7	50.8	60.9	43.3	62.4	27.4	44.5	32.9	42.1	

Table 2a. Yield summaries of full-season maturity group III entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	ESH (bu/A)	ORG (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
NK	S39-G2X	RR2/Extend	3.9	72.6	87.2	54.9	71.6		
Dyna-Gro	S39EN19	Enlist E3	3.9	69.1	82.7	49.4	67.1		
USG	7370ETS	Enlist STS	3.7	72.1	78.0	39.0	63.0		
USG	7399ET	Enlist	3.9	70.0	82.8	35.9	62.9		
USG	7390ET	Enlist	3.9	65.7	78.8	40.8	61.8		
Southern Harvest	SH 3814 LL	LL	3.8	59.9	77.4	40.9	59.4	59.9	65.9
Credenz	CZ 3929 GTLL	GTLL	3.9	66.5	63.3	45.3	58.4		
LG Seeds	LGS 3550RX	Xtend, STS	3.5	58.8	74.8	37.8	57.1		
LG Seeds	LGS 3777RX	Xtend, STS	3.7	56.0	73.6	37.3	55.6		
LSD P=.10				12.1	10.6	6.9	6.9		
CV				12.7	9.5	11.4	13.5		
Grand Mean				66.1	77.7	42.3	61.9		

Table 2b. Yield summaries of full-season early maturity group IV entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Pioneer	P46A16	RR	4.6	59.8	70.5	82.1	84.4	63.6	72.1	72.3	69.9
Local Seed	LS4795XS	RR2X/STS	4.6	56.1	72.8	78.9	93.7	56.9	71.7		
USG	7447XTS	RRXT/STS	4.4	59.2	67.3	85.2	94.3	51.2	71.4	68.2	67.4
Asgrow	AG46X6	RR2X	4.6	54.6	68.3	74.4	91.1	59.9	69.7	69.8	68.2
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6	58.4	71.4	76.7	80.7	57.7	69.0		
LG Seeds	C4227RX	Xtend, STS	4.2	58.9	67.3	82.1	85.5	50.9	68.9		
NK	S44-C7X	RR2/Extend	4.4	58.8	68.4	78.1	87.9	50.7	68.8		
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3	58.4	73.3	75.0	87.9	48.3	68.6	67.5	68.2
Dyna-Gro	S43XS27	Xtend/STS	4.3	54.9	75.0	78.3	89.2	45.4	68.6	66.2	66.6
USG	7429ET	Enlist	4.2	58.2	66.4	80.1	86.2	51.3	68.4		
USG	7450ETS	Enlist STS	4.5	59.5	73.8	73.8	75.5	58.8	68.3		
LG Seeds	LGS4597RX	RR2X	4.5	61.6	72.3	75.4	76.2	55.2	68.1		
Dyna-Gro	S46XS60	Xtend/STS	4.6	61.2	73.7	64.8	85.7	53.5	67.8		
Dyna-Gro	S46XS87	Xtend/STS	4.6	67.7	73.0	69.6	71.1	54.5	67.2	65.9	64.2
Asgrow	AG46X0	RR2X/SR	4.6	57.4	76.2	67.8	81.1	52.8	67.1		
Local Seed	LS4299XS	RR2X/STS	4.2	69.3	62.0	68.9	74.3	57.8	66.5		
USG	7440ETS	Enlist STS	4.4	60.7	70.7	76.1	70.4	51.9	66.0		
MorSoy	MS 4616 RXT	RR2Y	4.6	57.2	64.7	71.1	76.8	56.7	65.3	66.6	67.2
Credenz	CZ 4570X	XTEND	4.5	61.3	61.0	71.7	84.8	47.1	65.2		
Seed Consultants	SC 9469BR	RR2/BOLT	4.6	55.8	66.2	70.5	82.4	50.4	65.1		
Local Seed	ZS4596GLS	GT/LL/STS	4.5	55.1	67.3	68.1	85.1	49.4	65.0		
Credenz	CZ 4600X	XTEND	4.6	62.1	63.1	71.6	73.8	53.7	64.9		
Local Seed	ZS4694E3S	E3/STS	4.6	65.8	62.9	64.5	73.4	55.5	64.4		
USG	7460ET	Enlist	4.6	53.7	63.6	73.8	73.0	58.0	64.4		
Asgrow	AG43X8	RR2X	4.3	55.4	67.1	67.4	84.1	47.4	64.3		65.2
Local Seed	LS4565XS	RR2X/STS	4.5	57.2	69.3	69.7	72.5	52.4	64.2		
USG	7410ET	Enlist	4.1	51.7	64.3	85.3	73.2	46.0	64.1		
Local Seed	LS4487XS	RR2X/STS	4.4	56.3	59.6	70.4	81.5	52.0	64.0		
Asgrow	AG42X9	RR2X	4.2	58.5	56.5	71.1	83.1	50.5	63.9	61.9	
Pioneer	P42A96X	RR2X	4.2	51.0	62.5	69.9	82.0	50.3	63.1	61.0	

Table 2b. Yield summaries of full-season early maturity group IV entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Credenz	CZ 4539 GTLL*	LL/GT27	4.5	51.2	65.1	58.9	73.7		62.2		
Univ of Missouri	S16-14730C	CONV	4.5	51.5	58.0	69.9	71.3	59.1	62.0		
Southern Harvest	SH 4619 LLGT27	LLGT27	4.6	56.6	65.7	64.2	71.7	49.6	61.6		
Southern Harvest	SH 4019 LLGT27	LLGT27	4.0	61.5	53.6	72.0	71.7	48.0	61.4		
Southern Harvest	SH 4020 Enlist E3	Enlist E3	4.0	57.6	52.7	73.6	82.5	37.9	60.9		
Univ of Missouri	S13-10592C	CONV	4.5	48.9	55.5	66.3	69.6	53.2	58.7	58.0	
Credenz	CZ 4649 LL	LL	4.6	58.6	58.4	52.0	67.3	54.1	58.1	58.0	
Univ of Missouri	S13-10590C	CONV	4.3	41.8	48.1	64.6	70.2	40.4	53.0	53.1	53.7
LSD P=.10				8.3	7.6	10.3	9.6	8.0	5.5		
CV				10.6	8.5	10.5	8.9	11.3	14.0		
Grand Mean				57.3	65.6	71.8	79.6	52.2	65.4	64.0	65.6

*Variety not received prior to planting at WAR

Table 2c. Yield summaries of double-crop early maturity group IV entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
USG	7410ET	Enlist	4.1	50.5	70.7	42.9	37.6	43.0	48.9		
Asgrow	AG46X0	RR2X/SR	4.6	42.7	74.1	44.1	39.4	41.1	48.3		
LG Seeds	LGS4597RX	RR2X	4.5	43.9	69.3	42.3	43.4	41.1	48.0		
Dyna-Gro	S46XS87	Xtend/STS	4.6	50.6	76.8	38.0	33.4	38.9	47.5	55.3	57.8
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3	47.6	69.0	39.7	38.1	42.4	47.4	54.8	57.5
Local Seed	LS4795XS	RR2X/STS	4.6	46.1	71.6	41.9	36.8	39.7	47.2		
USG	7399ET	Enlist	3.9	47.2	65.6	41.3	35.3	45.8	47.0	50.8	
Progeny	P4525E3	Enlist	4.5	43.6	67.3	47.1	39.6	36.7	46.9		
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6	47.4	67.0	40.1	38.5	41.2	46.8		
Asgrow	AG46X6	RR2X	4.6	46.1	74.9	36.8	33.7	41.9	46.7	50.2	53.3
Pioneer	P42A96X	RR2X	4.2	46.1	62.5	42.5	41.0	41.2	46.6		
Mid-Atlantic Seeds	MAS4688NRR2/STS/X	RR2/STS/X	4.6	48.1	63.6	38.1	43.4	40.0	46.6		
Dyna-Gro	S43XS27	Xtend/STS	4.3	47.8	66.9	37.7	42.1	37.3	46.4	53.5	56.7
Progeny	P4620RXS	R2X, STS	4.6	45.1	68.8	36.9	35.0	45.9	46.3	51.2	53.9
Univ of Missouri	S16-14730C	CONV	4.5	44.0	54.1	43.9	40.0	47.3	45.9		
USG	7429ET	Enlist	4.2	43.7	61.7	37.4	45.6	39.7	45.6		
Local Seed	LS4487XS	RR2X/STS	4.4	50.3	59.8	41.5	35.6	40.4	45.5		
USG	7390ET	Enlist	3.9	43.8	65.7	34.7	38.2	44.9	45.5		
Local Seed	LS4565XS	RR2X/STS	4.5	44.8	63.2	47.9	36.2	34.8	45.4		
Mid-Atlantic Seeds	MAS4367GT/LL	GT/LL	4.3	43.1	66.2	40.6	38.3	38.3	45.3		
Pioneer	P46A16	RR	4.6	45.6	58.3	38.6	36.3	47.1	45.2	51.3	55.2
Local Seed	ZS4694E3S	E3/STS	4.6	48.3	60.7	43.7	30.9	41.5	45.0		
USG	7440ETS	Enlist STS	4.4	46.5	56.4	40.1	39.5	42.3	44.9		
Mid-Atlantic Seeds	MAS4619E3	E3	4.6	44.4	67.4	36.6	37.5	38.2	44.8		
USG	7447XTS	RRXT/STS	4.4	45.2	68.2	37.2	35.1	38.0	44.7	50.4	53.4
Channel	4519R2X	RR2X/SR	4.5	41.7	65.8	39.1	34.0	40.9	44.3		
Dyna-Gro	S46XT80	Xtend	4.6	44.2	62.3	39.0	31.8	42.3	43.9		
LG Seeds	C4227RX	Xtend, STS	4.2	47.6	61.1	36.2	28.1	45.9	43.8		
Progeny	P4291LR	LL/GT27	4.2	45.6	62.9	34.3	35.7	39.4	43.6		
Mid-Atlantic Seeds	MAS4550GT/LL/STS	GT/LL/STS	4.5	43.5	66.3	35.9	38.5	31.8	43.2		

Table 2c. Yield summaries of double-crop early maturity group IV entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Local Seed	ZS4596GLS	GT/LL/STS	4.5	42.0	60.3	42.5	36.4	34.6	43.2		
USG	7450ETS	Enlist STS	4.5	42.5	64.5	37.1	33.1	38.4	43.1		
Asgrow	AG43X8	RR2X	4.3	41.5	64.6	35.4	36.7	36.0	42.9		51.0
Asgrow	AG42X9	RR2X	4.2	46.3	56.0	33.1	37.2	40.7	42.7	50.3	
Univ of Missouri	S13-10592C	CONV	4.5	42.7	55.9	39.0	32.7	41.5	42.4	46.8	
USG	7370ETS	Enlist STS	3.7	49.6	63.6	33.0	30.7	34.7	42.3		
USG	7460ET	Enlist	4.6	43.4	58.0	36.1	35.1	38.4	42.2		
Mid-Atlantic Seeds	MAS4200GT/LL/STS	GT/LL/STS	4.2	40.9	58.0	30.2	39.4	36.7	41.0		
Progeny	P4682E3	Enlist	4.6	40.6	51.2	36.2	37.5	37.2	40.5		
Progeny	P4565LR	LL/GT27	4.5	43.5	58.1	31.9	29.5	38.1	40.2		
Univ of Missouri	S13-10590C	CONV	4.3	40.5	49.4	36.0	30.7	42.6	39.8	43.7	46.8
LSD P=.10				5.5	10.7	8.2	7.6	5.8	4.1		
CV				9.0	12.4	15.5	15.2	10.6	8.8		
Grand Mean				45.1	63.6	38.7	36.4	40.2	44.8	50.8	54.0

Table 2d. Yield summaries of full-season late maturity group IV entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
USG	7480XT	RRXT	4.8	84.2	82.0	76.5	85.9	78.5	81.4		
Asgrow	AG48X9	RR2X/SR	4.8	76.3	86.6	73.0	80.2	69.3	77.1	73.0	
USG	7487XTS	RRXT/STS	4.8	77.3	92.1	64.4	75.5	72.4	76.3	70.7	68.6
MorSoy	MS 4846 TXT	RR2Y	4.8	72.1	83.5	66.3	86.3	69.9	75.6	73.1	69.4
NK	S49-F5X	RR2/Extend	4.9	74.7	80.5	71.6	76.8	74.4	75.6		
Local Seed	LS4894X	RR2X	4.8	70.4	79.2	75.2	81.2	69.0	75.0		
USG	7496XTS	RRXT/STS	4.9	74.8	78.1	66.1	81.9	74.0	75.0	70.4	68.8
Southern Harvest	SH 4817 LL	LL	4.8	77.1	82.6	67.8	71.1	75.7	74.9	68.9	66.7
Southern Harvest	SH 4920 Enlist E3	Enlist E3	4.9	75.2	91.9	60.3	77.2	69.6	74.8		
USG	7499ET	Enlist	4.9	77.8	84.6	62.8	73.3	75.6	74.8		
Credenz	CZ 4770X	XTEND	4.7	79.0	81.2	66.3	80.5	64.6	74.3		
LG Seeds	LGS 4899RX	Xtend, STS	4.8	65.1	88.1	65.8	79.9	70.5	73.9		
Asgrow	AG48X7	RR2X/SR	4.8	78.2	88.9	64.6	69.6	67.8	73.8	69.2	67.3
Channel	4818R2X	RR/R2X	4.8	68.8	78.9	71.7	79.5	68.1	73.4		
Channel	4919	RR2X/SR	4.9	78.2	79.5	52.9	81.0	73.4	73.0		
Credenz	CZ 4979X	XTEND	4.9	71.3	86.6	59.4	78.5	67.9	72.7		
Pioneer	P48A60X	RR2X	4.8	63.9	80.0	72.1	80.3	66.7	72.6	70.4	
Asgrow	AG49X9	RR2X/SR	4.9	70.4	83.4	62.1	77.3	68.2	72.3		
Local Seed	LS4889XS	RR2X/STS	4.8	68.8	75.4	72.0	72.2	72.4	72.2	68.9	
Univ of Missouri	S14-15138R	RR1/STS	4.8	64.7	87.5	64.7	70.6	70.3	71.6	63.8	
Local Seed	LS4999X	RR2X	4.9	65.9	77.7	73.5	71.6	68.2	71.4		
Asgrow	AG46X6	RR2X	4.6	71.1	81.3	61.8	79.4	62.9	71.3		
Dyna-Gro	S49EN79	Enlist E3	4.9	73.0	73.7	56.3	76.6	73.0	70.5		
Virginia Tech	V16-0293	CONV	4.9	73.0	76.0	59.3	78.4	64.2	70.2		
USG	Ellis	CONV	4.9	70.5	61.0	63.6	81.0	74.5	70.1	66.1	66.3
Dyna-Gro	S49XS76	Xtend/STS	4.9	67.3	68.9	62.0	74.7	76.6	69.9	67.0	65.0
Axis	XP473218X	RR2X	4.7	64.5	86.7	60.1	76.1	59.1	69.3		
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9	64.2	76.1	63.6	74.4	67.7	69.2	68.0	67.2
USG	7478XTS	RRXT/STS	4.7	71.4	82.5	68.2	76.5	45.2	68.8	68.0	66.6
Credenz	CZ 4869X	XTEND	4.8	66.8	80.2	57.7	72.4	66.4	68.7		

Table 2d. Yield summaries of full-season late maturity group IV entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Virginia Tech	V15-0057DI	CONV	4.9	63.2	74.0	61.2	75.5	68.2	68.4		
Local Seed	LS4798X	RR2X	4.7	64.1	77.6	58.0	75.8	65.8	68.3		
Asgrow	AG47X9	RR2X	4.7	63.3	67.8	65.8	82.4	61.2	68.1	67.6	
USG	7479ET	Enlist	4.7	68.0	69.1	55.0	80.4	67.2	67.9		
USG	7480ET	Enlist	4.8	56.0	74.1	61.4	74.9	71.6	67.6		
Virginia Tech	V15-1407	CONV	4.9	70.9	66.6	55.2	76.4	67.8	67.4		
Local Seed	ZS4797E3	E3	4.7	65.8	73.1	57.4	78.2	60.5	67.0		
Public	MO4901D GT	GT	4.9	68.5	59.7	55.7	79.2	67.6	66.1	63.6	61.7
Asgrow	AG47X0	RR2X/SR	4.7	55.0	65.9	65.2	73.2	70.9	66.0		
Virginia Tech	V15-2259ST	STS	4.9	59.6	69.1	62.0	77.2	60.5	65.7		
Petrus	PS 4916 GT	RR	4.9	57.1	74.5	58.0	72.3	65.4	65.5		
Southern Harvest	SH 4820 Enlist E3	Enlist E3	4.8	67.2	66.3	50.5	75.8	59.3	63.8		
Virginia Tech	V16-2197R	RR	4.9	63.8	67.4	53.9	73.2	59.3	63.5		
Virginia Tech	V15-2287ST	STS	4.7	59.2	73.6	62.8	65.6	48.1	61.9		
Virginia Tech	V14-2288	CONV	4.9	55.3	47.2	54.1	79.0	52.2	57.6		
LSD P=.10				9.7	10.1	9.8	9.0	9.6	6.0		
CV				10.2	9.6	11.4	8.6	10.6	14.0		
Grand Mean				69.3	77.0	63.0	76.9	67.1	70.5	68.6	66.8

Table 2e. Yield summaries of double-crop late maturity group IV entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Local Seed	LS4889XS	RR2X/STS	4.8	50.9	76.3	39.5	41.0	50.3	51.6		
USG	7487XTS	RRXT/STS	4.8	50.1	77.8	35.9	41.9	52.2	51.6	56.2	58.3
USG	7478XTS	RRXT/STS	4.7	46.6	67.8	33.8	51.1	56.3	51.1	54.7	57.0
Local Seed	LS4798X	RR2X	4.7	47.9	71.3	32.4	50.3	52.8	50.9		
Channel	4818R2X	RR/R2X	4.8	46.8	69.7	27.7	45.0	54.9	48.8		
USG	7496XTS	RRXT/STS	4.9	44.0	65.6	39.6	42.6	48.6	48.1	51.8	55.3
Progeny	P4851RX	R2X	4.8	48.2	63.4	33.8	39.4	54.0	47.8	54.9	56.3
Asgrow	AG48X9	RR2X/SR	4.8	46.3	69.6	24.9	44.0	53.6	47.7	54.5	
Pioneer	P48A60X	RR2X	4.8	47.5	69.2	26.6	36.3	57.1	47.3	52.1	
Asgrow	AG47X9	RR2X	4.7	45.9	72.0	26.5	43.1	47.0	46.9	53.1	
USG	7480ET	Enlist	4.8	43.0	59.3	37.9	46.3	47.6	46.8		
Asgrow	AG48X7	RR2X/SR	4.8	43.6	57.9	29.5	44.0	56.7	46.3	52.4	55.5
Channel	4919	RR2X/SR	4.9	44.7	68.0	28.9	35.5	54.0	46.2		
Progeny	P4999RX	R2X	4.9	42.2	64.6	33.4	39.3	51.2	46.1		52.5
MorSoy	MS 4846 TXT	RR2Y	4.8	40.9	68.1	27.5	36.8	56.3	45.9		53.3
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9	45.1	66.5	25.9	40.4	51.4	45.9	52.5	56.0
Progeny	P4799RXS	R2X, STS	4.7	42.7	65.7	29.9	39.7	50.6	45.7	50.1	52.9
USG	7480XT	RRXT	4.8	43.2	60.3	34.7	40.3	49.8	45.7		
USG	Ellis	CONV	4.9	44.9	59.4	31.3	42.1	49.6	45.5	48.1	
Axis	XP473218X	RR2X	4.7	45.1	66.4	27.3	43.0	44.8	45.3		
Progeny	P4821RX	R2X	4.8	44.3	65.0	29.2	38.6	48.7	45.2		
USG	7499ET	Enlist	4.9	45.1	67.5	35.1	30.0	47.4	45.0		
Dyna-Gro	S49XS76	Xtend/STS	4.9	45.4	61.3	27.9	37.5	52.8	45.0	53.9	55.9
USG	7479ET	Enlist	4.7	40.5	62.8	29.3	37.4	54.6	44.9		
Virginia Tech	V15-1407	CONV	4.9	41.0	53.5	33.6	43.3	51.1	44.5		
Progeny	P4816RX	R2X	4.8	42.8	59.1	27.4	39.0	54.1	44.5	50.1	53.4
Asgrow	AG49X9	RR2X/SR	4.9	44.3	60.5	27.4	40.6	47.5	44.1		53.1
Asgrow	AG46X6	RR2X	4.6	48.5	59.3	32.1	39.5	40.8	44.0		
Progeny	P4710E3	Enlist	4.7	43.9	58.8	27.8	36.5	51.9	43.8		
Dyna-Gro	S49EN79	Enlist E3	4.9	46.6	61.9	23.9	30.8	55.6	43.8		
Virginia Tech	V15-0057DI	CONV	4.9	43.9	55.8	29.1	40.4	49.3	43.7		

Table 2e. Yield summaries of double-crop late maturity group IV entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Petrus	PS 4916 GT	RR	4.9	42.7	59.1	33.8	39.9	40.9	43.3		
Virginia Tech	V15-2287ST	STS	4.7	40.8	53.6	30.0	37.5	53.5	43.1		
Virginia Tech	V16-0293	CONV	4.9	43.6	61.4	24.5	38.3	47.2	43.0		
Asgrow	AG47X0	RR2X/SR	4.7	41.4	51.6	24.3	39.6	47.9	41.0		
Virginia Tech	V15-2259ST	STS	4.9	35.0	64.5	20.7	34.7	45.0	40.0		
Univ of Missouri	S14-15138R	RR1/STS	4.8	45.0	48.8	23.7	35.2	45.7	39.7	46.0	
Virginia Tech	V16-2197R	RR	4.9	41.1	54.2	25.0	36.3	39.4	39.2		
Virginia Tech	V14-2288	CONV	4.9	35.2	49.2	26.8	38.3	44.4	38.8		
Public	MO4901D GT	GT	4.9	38.0	45.2	26.2	29.4	47.8	37.3	45.0	46.4
LSD P=.10				4.1	11.2	7.7	7.4	9.1	4.4		
CV				6.9	13.3	19.2	13.6	13.3	16.1		
Grand Mean				44.0	62.3	29.6	39.6	50.1	45.1	51.7	54.3

Table 2f. Yield summaries of full-season early maturity group V entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Dyna-Gro	S52RS86	RR2Y/STS	5.2	68.0	84.7	69.3	75.5	60.6	71.6	69.5	70.4
MorSoy	MS 5398 RXT	RR2Y	5.3	62.9	76.2	74.9	81.3	60.1	71.1		
Local Seed	LS5386X	RR2X	5.3	62.1	72.7	76.7	84.6	56.4	70.5		
Local Seed	LS5087X	RR2X	5.0	63.7	80.6	74.6	78.1	53.4	70.1		
Southern Harvest	SH 5120 Enlist E3	Enlist E3	5.1	66.6	74.0	74.7	64.4	62.4	68.4		
Asgrow	AG52X9	RR2X/SR	5.2	64.6	74.2	73.6	70.9	57.9	68.2	68.5	
Armor Seed	52-D71	RR2X	5.2	66.0	76.8	66.5	72.2	59.4	68.2		
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0	52.0	72.1	72.2	73.8	64.7	67.0		
Southern Harvest	SH 5215 LL	LL	5.2	60.1	71.2	70.0	75.8	56.5	66.7	66.0	66.4
Asgrow	AG55X7	RR2X	5.5	57.8	66.4	75.4	76.7	57.2	66.7		
Pioneer	P51A61X	RR2X	5.1	64.2	71.4	67.9	69.1	60.2	66.6	65.8	
Axis	5319NRX	RR2X	5.3	53.1	74.1	72.4	77.0	55.6	66.4		
Seed Consultants	SC 8518X	RR2/Xtend	5.1	58.5	77.7	72.3	65.0	57.8	66.3		
Virginia Tech	V16-0709PR	CONV	5.4	67.1	70.7	70.5	59.2	58.3	65.2		
NK	S53-F7X	RR2/Extend	5.3	61.0	76.2	63.7	69.4	54.3	64.9		
Public	Corbin	GT	5.3	59.8	59.6	66.7	75.9	61.4	64.7	61.7	
Credenz	CZ 5150 LL	LL	5.1	57.1	72.4	60.4	75.7	56.9	64.5		
Virginia Tech	V15-2261ST	STS	5.3	53.7	70.3	64.1	72.2	61.3	64.3		
Dyna-Gro	S52XS39	Xtend/STS	5.2	58.0	65.4	73.0	66.7	58.2	64.3		
Virginia Tech	V15-1861	CONV	5.2	60.4	61.8	67.3	69.2	59.5	63.6		
Credenz	CZ 5299X	XTEND	5.2	63.0	63.3	59.9	72.5	56.7	63.1		
Armor Seed	51-D77	RR2X	5.1	63.6	65.5	58.7	66.5	53.1	61.5		
Virginia Tech	V14-2116	CONV	5.2	42.8	64.5	69.8	68.4	55.3	60.2		
Virginia Tech	V16-0725PR	CONV	5.1	59.1	52.6	59.7	66.6	47.2	57.0		
Virginia Tech	V16-1672RLP	RR	5.3	57.8	59.8	49.5	67.4	32.0	53.3		
LSD P=.10				9.3	6.7	13.6	9.9	6.4	5.6		
CV				11.3	7.0	14.5	10.1	8.2	14.1		
Grand Mean				60.1	70.2	68.2	71.6	56.7	65.4	66.3	68.4

Table 2g. Yield summaries of double-crop early maturity group V entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Southern Harvest	SH 5215 LL	LL	5.2	50.5	70.5	37.1	45.3	34.5	47.6	53.3	55.4
Progeny	P5226RYS	R2Y/STS	5.2	48.4	75.6	41.5	36.4	34.3	47.2	52.8	
Credenz	CZ 5150 LL	LL	5.1	43.3	75.1	38.6	42.0	35.8	47.0		
Dyna-Gro	S52RS86	RR2Y/STS	5.2	46.6	79.0	37.0	34.4	36.6	46.7	52.7	56.7
Local Seed	LS5087X	RR2X	5.0	47.3	66.5	49.2	32.9	35.9	46.4		
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0	45.1	69.5	39.0	36.1	39.6	45.9		
Asgrow	AG55X7	RR2X	5.5	48.6	68.9	36.7	35.8	36.2	45.2		
USG	7529XTS	RRXT	5.2	41.4	62.1	47.8	40.2	31.5	44.6	51.7	
Local Seed	LS5386X	RR2X	5.3	45.9	66.3	39.5	33.3	34.8	44.0		
Dyna-Gro	S52XS39	Xtend/STS	5.2	45.0	62.6	42.9	35.8	31.5	43.6		
Axis	5319NRX	RR2X	5.3	44.6	66.3	33.1	35.4	33.5	42.6		
Virginia Tech	V16-0709PR	CONV	5.4	41.6	65.7	41.2	30.4	31.9	42.2		
Progeny	P5211E3	Enlist	5.2	43.3	69.3	34.1	27.9	35.2	42.0		
Asgrow	AG52X9	RR2X/SR	5.2	42.5	62.7	37.5	30.8	36.0	41.9	50.2	
Progeny	P5170RX	R2X	5.1	43.1	67.5	30.1	32.4	35.9	41.8		
Progeny	P5016RXS	R2X, STS	5.0	41.9	66.8	35.9	28.4	35.8	41.8	50.5	54.2
Virginia Tech	V14-2116	CONV	5.2	42.3	64.5	36.6	38.4	26.1	41.6		
Pioneer	P51A61X	RR2X	5.1	42.0	64.0	39.6	29.4	31.6	41.3		
Progeny	P5252RX	R2X	5.2	42.3	60.0	35.7	34.9	30.8	40.7	48.2	
Public	Corbin	GT	5.3	40.9	59.0	40.3	26.9	34.2	40.3		
Progeny	P5414LLS	LL, STS	5.4	37.6	58.2	35.3	38.8	31.4	40.3	47.2	48.5
Virginia Tech	V15-1861	CONV	5.2	41.7	64.9	35.4	25.2	33.5	40.1		
Virginia Tech	V15-2261ST	STS	5.3	43.4	61.3	28.8	34.9	31.1	39.9		
Progeny	P5554RX	R2X	5.4	39.1	66.6	32.6	27.2	30.2	39.1	48.4	
Virginia Tech	V16-1672RLP	RR	5.3	40.4	56.6	32.0	35.4	30.0	38.9		
Virginia Tech	V16-0725PR	CONV	5.1	40.8	62.5	28.0	29.2	28.0	37.7		
LSD P=.10				4.8	7.9	6.9	6.1	4.2	3.9		
CV				8.1	8.8	13.7	13.3	9.2	14.9		
Grand Mean				43.4	65.8	37.1	33.5	33.3	42.7	50.6	53.7

Table 2h. Yield summaries of full-season late maturity group V entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Seed Consultants	SC 8570X*	RR2/Xtend	5.7	61.8	68.9	67.8	80.5		69.8		
Pioneer	P55A49X	RR2X	5.5	69.3	70.7	65.7	79.3	58.2	68.6		
Credenz	CZ 5859 LL	LL	5.8	66.6	70.3	69.7	80.8	47.0	66.9		
Dyna-Gro	S58RY78	RR2Y	5.8	69.6	63.7	72.2	69.8	50.1	65.1	60.4	
Virginia Tech	V15-1872	CONV	5.7	70.5	68.6	66.3	63.8	52.5	64.3		
USG	5618V	CONV	5.6	70.3	62.8	63.8	69.5	55.0	64.3	56.6	59.6
Univ of Missouri	S13-1955C	CONV	5.5	60.6	71.8	62.9	72.5	52.0	64.0	57.0	58.4
Asgrow	AG56X8	RR2X	5.6	62.4	68.0	65.7	75.1	46.8	63.6	61.2	
Seed Consultants	SC 9578R	RR	5.7	58.3	73.2	65.1	67.7	53.1	63.5		
Asgrow	AG55X0	RR2X/SR	5.5	68.0	78.4	67.8	63.6	38.6	63.3		
Local Seed	LS5588X	RR2X	5.5	73.0	62.6	58.3	78.4	43.8	63.2		
NK	S57-A7X	RR2/Extend	5.7	76.9	64.8	56.4	66.7	48.0	62.6	59.4	
USG	75B75R	RR2Y	5.7	68.9	68.0	61.2	63.6	50.8	62.5	57.9	61.1
Virginia Tech	V15-1815DI	CONV	5.6	64.6	63.2	66.9	70.5	47.3	62.5		
Armor Seed	X58D70	RR2X	5.8	69.0	65.0	60.3	69.9	45.6	62.0		
Axis	5519NRX	RR2X	5.5	68.9	68.1	53.4	75.0	43.9	61.9		
Asgrow	AG55X7	RR2X	5.5	67.8	66.6	66.0	53.1	55.5	61.8	56.3	60.7
Dyna-Gro	S56XT99	Xtend	5.6	68.1	62.0	59.0	72.4	45.5	61.4	60.6	
MorSoy	MS 5607 RXT	RR2Y	5.6	68.4	60.7	66.6	69.0	42.2	61.4	59.5	60.6
Armor Seed	55-D57	RR2X	5.5	67.8	66.7	60.1	64.3	46.3	61.0		
Credenz	CZ 5700X	Xtend	5.7	67.5	67.8	55.4	69.1	42.4	60.4		
Southern Harvest	SH 5515 LL	LL	5.5	68.4	57.8	58.9	64.3	49.9	59.9	57.3	58.9
Virginia Tech	V14-0988	CONV	5.6	64.4	60.1	63.4	70.6	39.6	59.6		
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6	56.7	60.4	60.6	71.0	47.4	59.2		
Univ of Missouri	S15-10434C	CONV	5.5	61.6	67.5	63.2	56.9	44.7	58.8	53.3	
Credenz	CZ 5515 LL	LL	5.5	62.2	61.5	55.1	63.6	44.2	57.3		
LSD P=.10				8.0	10.9	11.4	10.3	6.8	5.3		
CV				8.8	12.0	13.3	10.8	10.5	13.9		
Grand Mean				66.6	66.0	62.8	69.4	47.6	62.6	58.1	59.9

*Variety not received prior to planting at WAR

Table 2i. Yield summaries of double-crop late maturity group V entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Pioneer	P55A49X	RR2X	5.5	44.4	71.7	40.7	38.9	43.0	47.7		
USG	5618V	CONV	5.6	43.5	57.7	41.1	44.9	50.2	47.5	52.3	52.3
Virginia Tech	V15-1815DI	CONV	5.6	47.5	66.1	36.7	38.3	48.4	47.4		
Asgrow	AG55X7	RR2X	5.5	45.6	62.3	39.4	33.9	54.1	47.1	54.2	55.6
Dyna-Gro	S58RY78	RR2Y	5.8	40.8	69.8	33.9	41.2	48.2	46.8	52.9	
Dyna-Gro	S56XT99	Xtend	5.6	45.5	65.7	35.1	42.5	42.2	46.2	52.1	
Asgrow	AG55X0	RR2X/SR	5.5	45.9	67.2	32.5	42.4	42.2	46.0		
Virginia Tech	V15-1872	CONV	5.7	44.3	61.0	32.3	42.1	49.8	45.9		
Credenz	CZ 5859 LL	LL	5.8	43.4	61.4	33.9	46.2	42.7	45.5	47.4	
Virginia Tech	V14-0988	CONV	5.6	44.5	66.4	32.6	38.1	45.7	45.5		
MorSoy	MS 5607 RXT	RR2Y	5.6	41.7	65.4	30.1	47.0	42.2	45.3		48.3
Axis	5519NRX	RR2X	5.5	41.7	63.0	38.1	42.4	40.4	45.1		
Asgrow	AG56X8	RR2X	5.6	39.1	65.4	35.3	43.8	40.0	44.7	53.1	
Progeny	P5688RX	R2X	5.6	43.0	60.2	33.1	44.1	42.9	44.7	51.0	51.6
USG	75B75R	RR2Y	5.7	40.1	60.7	39.2	33.9	47.2	44.2		
Univ of Missouri	S13-1955C	CONV	5.5	38.7	59.6	33.0	39.9	42.5	42.7	46.7	47.3
Credenz	CZ 5515 LL	LL	5.5	42.5	61.0	33.8	30.5	43.3	42.2		
Univ of Missouri	S15-10434C	CONV	5.5	44.8	56.3	28.4	35.6	45.0	42.0	46.8	
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6	39.5	55.3	32.3	40.0	41.7	41.8		
LSD P=.10				4.7	7.0	6.7	7.1	4.5	3.9		
CV				7.9	8.0	14.0	12.8	7.3	14.2		
Grand Mean				43.0	63.0	34.8	40.3	44.8	45.2	50.7	51.0

Table 2j. Yield summaries of full-season maturity group VI entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Armor Seed	62-D60	RR2X	6.2	73.4	76.1	59.7	69.0	51.2	65.9		
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5	60.1	71.7	61.1	68.6	51.3	62.6	58.3	58.0
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1	61.8	72.4	60.3	66.3	50.0	62.2		
Credenz	CZ 6730 LL	LL	6.7	70.0	72.5	49.7	63.3	53.9	61.9		
Credenz	CZ 6770X	Xtend	6.7	64.9	67.3	57.7	65.8	51.0	61.3		
Credenz	CZ 6109 LL	LL	6.1	60.9	69.2	54.3	66.8	50.9	60.4	55.1	56.3
Credenz	CZ 6020X	Xtend	6.0	62.7	74.9	47.9	59.5	46.4	58.3		
Credenz	CZ 6520 LL	LL	6.5	60.7	65.9	54.6	62.7	46.8	58.1		
Credenz	CZ 6260 LL	LL	6.2	52.4	63.1	48.9	69.6	55.2	57.8		
LSD P=.10				9.4	7.5	10.7	6.2	4.7	4.4		
CV				10.4	7.5	13.6	6.6	6.5	11.6		
Grand Mean				63.0	70.3	54.9	65.7	50.8	60.9	56.7	57.2

Table 2k. Yield summaries of double-crop maturity group VI entries. Analysis includes 1-year (2019), 2-year (2018-2019) and 3-year (2017-2019) averages.

Brand	Variety	Herbicide Resistance	Relative Maturity	BLK (bu/A)	ESH (bu/A)	ORG (bu/A)	SUF (bu/A)	WAR (bu/A)	Avg. (bu/A)	2-Yr Avg. (bu/A)	3-Yr Avg. (bu/A)
Credenz	CZ 6730 LL	LL	6.7	43.1	65.5	27.3	43.7	35.2	43.0		
Progeny	P6461RX	R2X	6.4	44.7	60.5	33.4	46.6	28.8	42.8		
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1	42.3	67.2	27.2	43.3	32.5	42.5		
Credenz	CZ 6260 LL	LL	6.2	42.2	59.5	27.0	43.5	38.4	42.1		
Credenz	CZ 6109 LL	LL	6.1	41.9	66.9	25.0	44.0	32.1	42.0		
Credenz	CZ 6520 LL	LL	6.5	44.0	59.0	25.6	46.9	30.6	41.2		
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5	44.1	58.3	26.4	44.2	32.8	41.2	47.7	51.2
LSD P=.10				4.0	7.7	6.9	4.7	5.1	3.1		
CV				6.2	8.4	17.3	7.3	10.6	11.9		
Grand Mean				43.3	62.4	27.4	44.5	32.9	42.1		

Table 3a. Performance of full-season maturity group III entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed			Yield (Bu/A)
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)	
NK	S39-G2X	RR2/Extend	3.9		2.0	34.3	1	2.0	2578	72.6
USG	7370ETS	Enlist STS	3.7		1.3	30.7	5	3.0	2170	72.1
USG	7399ET	Enlist	3.9		1.0	17.7	6	3.0	2412	70.0
Dyna-Gro	S39EN19	Enlist E3	3.9		1.2	29.3	12	4.0	2226	69.1
Credenz	CZ 3929 GTLL	GTLL	3.9		1.8	22.7	2	3.0	2386	66.5
USG	7390ET	Enlist	3.9		1.0	17.3	2	2.0	2428	65.7
Southern Harvest	SH 3814 LL	LL	3.8		1.3	28.0	2	2.3	2186	59.9
LG Seeds	LGS 3550RX	Xtend, STS	3.5		1.2	29.0	10	2.0	2034	58.8
LG Seeds	LGS 3777RX	Xtend, STS	3.7		1.7	31.0	11	2.3	2177	56.0
LSD P=.10					0.9	12.8	6.4	0.4	153	12.1
CV					45.7	33.6	79	10.9	4.7	12.7
Grand Mean					1.4	26.7	5.7	2.7	2299	66.1

Table 3b. Performance of full-season maturity group III entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed			
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
NK	S39-G2X	RR2/Extend	3.9		2.7	46.3		2.0	3132	87.2
USG	7399ET	Enlist	3.9		2.5	40.7		2.0	2909	82.8
Dyna-Gro	S39EN19	Enlist E3	3.9		2.5	39.0		2.0	2876	82.7
USG	7390ET	Enlist	3.9		2.8	23.3		2.0	2921	78.8
USG	7370ETS	Enlist STS	3.7		2.0	41.0	2	2.0	3160	78.0
Southern Harvest	SH 3814 LL	LL	3.8		1.4	40.4		2.0	2840	77.4
LG Seeds	LGS 3550RX	Xtend, STS	3.5		1.7	39.7		2.0	2914	74.8
LG Seeds	LGS 3777RX	Xtend, STS	3.7		1.7	44.3		2.0	3105	73.6
Credenz	CZ 3929 GTLL	GTLL	3.9		1.9	41.0	1	2.0	3185	63.3
LSD P=.10					0.8	9.2	---	---	231	10.6
CV					26.2	16.2	---	---	5.4	9.5
Grand Mean					2.1	39.7	1.5	2.0	3012	77.7

Table 3c. Performance of full-season maturity group III entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed			Yield (Bu/A)
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)	
NK	S39-G2X	RR2/Extend	3.9	18-Sep	1.3	33.0	2	2.0	3623	54.9
Dyna-Gro	S39EN19	Enlist E3	3.9	18-Sep	1.3	28.0	10	2.0	2911	49.4
Credenz	CZ 3929 GTLL	GTLL	3.9	24-Sep	1.1	32.0	2	2.0	3261	45.3
Southern Harvest	SH 3814 LL	LL	3.8	21-Sep	1.4	29.0	4	2.0	2922	40.9
USG	7390ET	Enlist	3.9	17-Sep	1.2	23.0	7	2.0	2976	40.8
USG	7370ETS	Enlist STS	3.7	16-Sep	1.3	28.0	5	3.0	3328	39.0
LG Seeds	LGS 3550RX	Xtend, STS	3.5	20-Sep	1.3	22.0	3	3.0	3002	37.8
LG Seeds	LGS 3777RX	Xtend, STS	3.7	27-Sep	1.5	29.0	7	3.0	2637	37.3
USG	7399ET	Enlist	3.9	19-Sep	1.1	25.0	8	2.0	3020	35.9
LSD P=.10				2.5	0.2	1.9	3.3	---	187	6.9
CV				8.7	9.0	4.8	43	---	4.3	11.4
Grand Mean				20-Sep	1.3	27.7	5.3	2.3	3076	42.3

Table 4a. Performance of full-season early maturity group IV entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Local Seed	LS4299XS	RR2X/STS	4.2		1.5	34.8	2	1.9	2533	69.3
Dyna-Gro	S46XS87	Xtend/STS	4.6		1.7	35.7	1	2.0	2454	67.7
Local Seed	ZS4694E3S	E3/STS	4.6		1.2	31.0	1	2.0	2565	65.8
Credenz	CZ 4600X	XTEND	4.6		1.0	30.1	2	2.0	3090	62.1
LG Seeds	LGS4597RX	RR2X	4.5		1.2	29.0	2	2.7	2519	61.6
Southern Harvest	SH 4019 LLGT27	LLGT27	4.0		1.3	32.0	2	2.0	2568	61.5
Credenz	CZ 4570X	XTEND	4.5		1.5	32.3	2	2.3	2752	61.3
Dyna-Gro	S46XS60	Xtend/STS	4.6		1.2	27.7		2.0	2577	61.2
USG	7440ETS	Enlist STS	4.4		1.3	31.1	1	2.0	2589	60.7
Pioneer	P46A16	RR	4.6		1.0	31.0	1	2.0	2443	59.8
Channel	4519R2X	RR2X/SR	4.5		1.7	33.0	2	2.3	2487	59.7
USG	7450ETS	Enlist STS	4.5		1.3	30.7	2	2.0	2542	59.5
USG	7447XTS	RRXT/STS	4.4		1.6	32.0	1	2.0	2792	59.2
LG Seeds	C4227RX	Xtend, STS	4.2		1.2	30.0	4	2.0	2604	58.9
NK	S44-C7X	RR2/Extend	4.4		1.2	27.7	3	2.0	2567	58.8
Credenz	CZ 4649 LL	LL	4.6		1.3	31.1		2.0	2779	58.6
Asgrow	AG42X9	RR2X	4.2		1.2	36.3	1	2.0	2433	58.5
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3		1.4	30.1		2.0	2712	58.4
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6		1.2	32.0	2	2.0	2688	58.4
USG	7429ET	Enlist	4.2		1.3	28.7	3	2.0	2892	58.2
Southern Harvest	SH 4020 Enlist E3	Enlist E3	4.0		1.0	29.3	7	3.0	2519	57.6
Asgrow	AG46X0	RR2X/SR	4.6		1.0	29.7	2	2.0	2612	57.4
MorSoy	MS 4616 RXT/STS	RXT/STS	4.6		1.0	33.3	2	2.0	2833	57.2
Local Seed	LS4565XS	RR2X/STS	4.5		1.3	35.3	2	2.0	2799	57.2
Southern Harvest	SH 4619 LLGT27	LLGT27	4.6		1.0	32.6	1	2.0	2658	56.6
Local Seed	LS4487XS	RR2X/STS	4.4		1.2	33.7	2	2.0	2789	56.3
Local Seed	LS4795XS	RR2X/STS	4.6		1.5	29.3	2	2.3	2616	56.1
Seed Consultants	SC 9469BR	RR2/BOLT	4.6		1.5	30.3	1	2.0	2695	55.8
Asgrow	AG43X8	RR2X	4.3		1.5	32.3	1	2.0	2354	55.4
Local Seed	ZS4596GLS	GT/LL/STS	4.5		1.5	30.3	1	2.0	2855	55.1
Dyna-Gro	S43XS27	Xtend/STS	4.3		1.7	32.7	1	2.0	2768	54.9
Asgrow	AG46X6	RR2X	4.6		1.5	29.6	1	2.0	2185	54.6
USG	7460ET	Enlist	4.6		1.3	28.0	2	2.0	2865	53.7
USG	7410ET	Enlist	4.1		1.3	28.3	2	2.3	2145	51.7
Univ of Missouri	S16-14730C	CONV	4.5		1.5	26.7		2.0	2702	51.5
Credenz	CZ 4539 GTLL	LL/GT27	4.5		1.3	30.3	1	2.0	2881	51.2
Pioneer	P42A96X	RR2X	4.2		1.2	30.3	2	2.0	2275	51.0
Univ of Missouri	S13-10592C	CONV	4.5		1.5	32.0	3	2.7	2401	48.9
Univ of Missouri	S13-10590C	CONV	4.3		1.3	32.0	4	2.3	2495	41.8
LSD P=.10					0.3	3.4	1.5	0.3	160	8.3
CV					18.6	8.1	51	12.0	4.5	10.6
Grand Mean					1.3	31.1	2.1	2.1	2618	57.3

Table 4b. Performance of full-season early maturity group IV entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
Asgrow	AG46X0	RR2X/SR	4.6		1.0	34.2	2.0	2645	76.2	
Dyna-Gro	S43XS27	Xtend/STS	4.3		1.0	38.3	2.0	2567	75.0	
USG	7450ETS	Enlist STS	4.5		1.0	30.7	2.0	2585	73.8	
Dyna-Gro	S46XS60	Xtend/STS	4.6		1.2	32.3	2.0	2481	73.7	
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3		1.0	39.0	3	2570	73.3	
Dyna-Gro	S46XS87	Xtend/STS	4.6		1.0	42.0	2.0	2297	73.0	
Local Seed	LS4795XS	RR2X/STS	4.6		1.0	34.7	1	2420	72.8	
LG Seeds	LGS4597RX	RR2X	4.5		1.2	25.3	1	2361	72.3	
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6		1.0	37.0	2.0	2641	71.4	
USG	7440ETS	Enlist STS	4.4		1.0	31.3	1	2721	70.7	
Pioneer	P46A16	RR	4.6		1.0	35.0	1	2446	70.5	
Local Seed	LS4565XS	RR2X/STS	4.5		1.3	38.0	2	2787	69.3	
NK	S44-C7X	RR2/Extend	4.4		1.0	32.7	2.3	2706	68.4	
Asgrow	AG46X6	RR2X	4.6		1.0	32.7	1	2528	68.3	
Channel	4519R2X	RR2X/SR	4.5		1.0	34.7	3	2366	68.1	
LG Seeds	C4227RX	Xtend, STS	4.2		1.2	33.0	5	2422	67.3	
USG	7447XTS	RRXT/STS	4.4		1.0	32.3	1	2676	67.3	
Local Seed	ZS4596GLS	GT/LL/STS	4.5		1.2	35.0	2.0	2666	67.3	
Asgrow	AG43X8	RR2X	4.3		1.0	37.3	2.0	2370	67.1	
USG	7429ET	Enlist	4.2		1.0	31.0	2.0	2944	66.4	
Seed Consultants	SC 9469BR	RR2/BOLT	4.6		1.0	33.3	2.0	2542	66.2	
Southern Harvest	SH 4619 LLGT27	LLGT27	4.6		1.0	36.3	2.0	2662	65.7	
Credenz	CZ 4539 GTLL	LL/GT27	4.5		1.0	34.7	2.0	2827	65.1	
MorSoy	MS 4616 RXT/STS	RXT/STS	4.6		1.2	39.0	2.0	2832	64.7	
USG	7410ET	Enlist	4.1		1.0	26.7	5	2367	64.3	
USG	7460ET	Enlist	4.6		1.2	32.0	2.0	2791	63.6	
Credenz	CZ 4600X	XTEND	4.6		1.0	35.0	2.0	2907	63.1	
Local Seed	ZS4694E3S	E3/STS	4.6		1.0	37.0	2.0	2548	62.9	
Pioneer	P42A96X	RR2X	4.2		1.0	33.0	5	2229	62.5	
Local Seed	LS4299XS	RR2X/STS	4.2		1.0	33.7	1	2446	62.0	
Credenz	CZ 4570X	XTEND	4.5		1.0	33.5	2.0	2439	61.0	
Local Seed	LS4487XS	RR2X/STS	4.4		1.3	35.3	2.0	2720	59.6	
Credenz	CZ 4649 LL	LL	4.6		1.0	34.3	2.0	2459	58.4	
Univ of Missouri	S16-14730C	CONV	4.5		1.3	28.3	2.0	2555	58.0	
Asgrow	AG42X9	RR2X	4.2		1.5	39.5	2	2731	56.5	
Univ of Missouri	S13-10592C	CONV	4.5		1.8	33.3	2.0	2293	55.5	
Southern Harvest	SH 4019 LLGT27	LLGT27	4.0		1.2	30.7	1	2534	53.6	
Southern Harvest	SH 4020 Enlist E3	Enlist E3	4.0		1.0	25.7	3	2796	52.7	
Univ of Missouri	S13-10590C	CONV	4.3		1.2	30.7	2.0	2550	48.1	
LSD P=.10					0.3	5.8	---	0.2	117	7.6
CV					17.5	12.6	---	6.5	3.3	8.5
Grand Mean					1.1	33.8	0.8	2.0	2574	65.6

Table 4c. Performance of full-season early maturity group IV entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		
USG	7410ET	Enlist	4.1		2.0	39.3		2.0	2524	85.3
USG	7447XTS	RRXT/STS	4.4		2.2	48.3		2.0	3075	85.2
LG Seeds	C4227RX	Xtend, STS	4.2		1.7	45.3	1	2.0	2968	82.1
Pioneer	P46A16	RR	4.6		1.6	51.3		2.0	3055	82.1
USG	7429ET	Enlist	4.2		2.0	41.7		2.0	3501	80.1
Local Seed	LS4795XS	RR2X/STS	4.6		1.8	46.0		2.0	2995	78.9
Dyna-Gro	S43XS27	Xtend/STS	4.3		2.2	48.3	1	2.0	3198	78.3
NK	S44-C7X	RR2/Extend	4.4		1.8	49.0	1	2.0	3192	78.1
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6		2.0	50.3		2.0	3306	76.7
USG	7440ETS	Enlist STS	4.4		3.2	43.3		2.0	3155	76.1
LG Seeds	LGS4597RX	RR2X	4.5		2.2	53.3		2.0	3040	75.4
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3		1.8	49.3		2.0	3215	75.0
Asgrow	AG46X6	RR2X	4.6		1.8	50.3		2.0	2683	74.4
USG	7450ETS	Enlist STS	4.5		1.8	47.0	1	2.0	3111	73.8
USG	7460ET	Enlist	4.6		3.0	46.3		2.0	3475	73.8
Southern Harvest	SH 4020 Enlist E3	Enlist E3	4.0		2.8	42.0	1	2.0	3277	73.6
Southern Harvest	SH 4019 LLGT27	LLGT27	4.0		2.2	47.7		2.0	3137	72.0
Credenz	CZ 4570X	XTEND	4.5		2.2	47.3		2.0	3184	71.7
Credenz	CZ 4600X	XTEND	4.6		1.7	46.7		2.0	3314	71.6
Asgrow	AG42X9	RR2X	4.2		1.6	51.7		2.0	3149	71.1
MorSoy	MS 4616 RXT/STS	RXT/STS	4.6		2.2	49.3	2	2.0	3369	71.1
Seed Consultants	SC 9469BR	RR2/BOLT	4.6		1.7	43.7		2.0	3076	70.5
Local Seed	LS4487XS	RR2X/STS	4.4		1.7	46.4		2.0	3363	70.4
Pioneer	P42A96X	RR2X	4.2		1.3	43.3		2.0	2857	69.9
Univ of Missouri	S16-14730C	CONV	4.5		2.0	42.3		2.0	2894	69.9
Channel	4519R2X	RR2X/SR	4.5		1.5	45.0		2.0	2926	69.8
Local Seed	LS4565XS	RR2X/STS	4.5		2.0	51.0		2.0	3336	69.7
Dyna-Gro	S46XS87	Xtend/STS	4.6		1.7	57.0		2.0	2931	69.6
Local Seed	LS4299XS	RR2X/STS	4.2		1.5	42.3		2.0	3132	68.9
Local Seed	ZS4596GLS	GT/LL/STS	4.5		3.0	52.3		2.0	3321	68.1
Asgrow	AG46X0	RR2X/SR	4.6		1.2	49.3		2.0	3111	67.8
Asgrow	AG43X8	RR2X	4.3		1.3	47.3		2.0	2756	67.4
Univ of Missouri	S13-10592C	CONV	4.5		2.7	49.3	1	2.0	2815	66.3
Dyna-Gro	S46XS60	Xtend/STS	4.6		2.0	43.0		2.0	3213	64.8
Univ of Missouri	S13-10590C	CONV	4.3		1.6	42.7	2	2.0	3111	64.6
Local Seed	ZS4694E3S	E3/STS	4.6		1.8	43.7		2.0	3259	64.5
Southern Harvest	SH 4619 LLGT27	LLGT27	4.6		2.7	44.3		2.0	3356	64.2
Credenz	CZ 4539 GTLL	LL/GT27	4.5		2.4	41.3		2.0	3554	58.9
Credenz	CZ 4649 LL	LL	4.6		1.8	51.7	1	2.0	3014	52.0
LSD P=.10					0.7	4.2	1.7	---	210	10.3
CV					26.5	6.6	70	---	5.0	10.5
Grand Mean					2.0	46.8	1.3	2	3121	71.8

Table 4d. Performance of full-season early maturity group IV entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		
USG	7447XTS	RRXT/STS	4.4	7-Oct	3.0	36.0		3.0	2713	94.3
Local Seed	LS4795XS	RR2X/STS	4.6	4-Oct	3.3	33.7	1	2.0	2725	93.7
Asgrow	AG46X6	RR2X	4.6	8-Oct	2.0	32.3		2.0	2395	91.1
Dyna-Gro	S43XS27	Xtend/STS	4.3	4-Oct	3.7	39.7		2.0	2730	89.2
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3	5-Oct	3.0	35.0	2	2.0	2773	87.9
NK	S44-C7X	RR2/Extend	4.4	6-Oct	3.0	35.0		3.0	2725	87.9
USG	7429ET	Enlist	4.2	28-Sep	3.3	32.3		2.0	3200	86.2
Channel	4519R2X	RR2X/SR	4.5	1-Oct	2.0	34.7		2.7	2595	85.9
Dyna-Gro	S46XS60	Xtend/STS	4.6	3-Oct	2.7	36.3		2.0	2741	85.7
LG Seeds	C4227RX	Xtend, STS	4.2	1-Oct	2.3	32.3		2.0	2764	85.5
Local Seed	ZS4596GLS	GT/LL/STS	4.5	1-Oct	3.7	34.3		2.3	2952	85.1
Credenz	CZ 4570X	XTEND	4.5	4-Oct	3.7	34.7		2.0	2594	84.8
Pioneer	P46A16	RR	4.6	5-Oct	2.7	36.3		2.0	2697	84.4
Asgrow	AG43X8	RR2X	4.3	2-Oct	2.3	34.3		2.0	2468	84.1
Asgrow	AG42X9	RR2X	4.2	30-Sep	2.0	34.0		2.0	2731	83.1
Southern Harvest	SH 4020 Enlist E3	Enlist E3	4.0	29-Sep	1.7	29.0	4	2.0	2852	82.5
Seed Consultants	SC 9469BR	RR2/BOLT	4.6	8-Oct	2.7	33.0		2.7	2763	82.4
Pioneer	P42A96X	RR2X	4.2	5-Oct	2.3	35.0		2.0	2454	82.0
Local Seed	LS4487XS	RR2X/STS	4.4	29-Sep	2.0	33.7		2.0	2803	81.5
Asgrow	AG46X0	RR2X/SR	4.6	3-Oct	3.0	33.0		2.0	2735	81.1
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6	30-Sep	2.0	38.0		2.0	3087	80.7
MorSoy	MS 4616 RXT/STS	RXT/STS	4.6	8-Oct	2.3	33.0		2.0	2910	76.8
LG Seeds	LGS4597RX	RR2X	4.5	1-Oct	3.3	33.0		2.0	2755	76.2
USG	7450ETS	Enlist STS	4.5	7-Oct	3.3	36.3		2.0	2747	75.5
Local Seed	LS4299XS	RR2X/STS	4.2	2-Oct	2.7	33.7		2.0	2707	74.3
Credenz	CZ 4600X	XTEND	4.6	7-Oct	3.2	35.0		2.0	3001	73.8
Credenz	CZ 4539 GTLL	LL/GT27	4.5	2-Oct	2.3	34.7		3.0	3042	73.7
Local Seed	ZS4694E3S	E3/STS	4.6	8-Oct	2.9	34.3		2.0	2794	73.4
USG	7410ET	Enlist	4.1	29-Sep	3.0	31.3	5	2.0	2442	73.2
USG	7460ET	Enlist	4.6	7-Oct	3.3	35.0		2.0	3221	73.0
Local Seed	LS4565XS	RR2X/STS	4.5	7-Oct	2.7	35.0	1	2.0	2869	72.5
Southern Harvest	SH 4019 LLGT27	LLGT27	4.0	30-Sep	2.7	32.3		2.0	2692	71.7
Southern Harvest	SH 4619 LLGT27	LLGT27	4.6	30-Sep	3.0	36.3		2.3	3047	71.7
Univ of Missouri	S16-14730C	CONV	4.5	6-Oct	3.0	29.7		2.0	2961	71.3
Dyna-Gro	S46XS87	Xtend/STS	4.6	29-Sep	1.7	37.3		2.7	2823	71.1
USG	7440ETS	Enlist STS	4.4	7-Oct	2.7	31.0		2.0	3164	70.4
Univ of Missouri	S13-10590C	CONV	4.3	3-Oct	2.3	33.0	2	2.0	2510	70.2
Univ of Missouri	S13-10592C	CONV	4.5	8-Oct	4.3	32.7		2.7	2301	69.6
Credenz	CZ 4649 LL	LL	4.6	9-Oct	4.4	33.7		2.7	2646	67.3
LSD P=.10				4.4	1.0	5.7	---	0.3	138	9.6
CV				9.4	27.2	12.3	---	10.5	3.7	8.9
Grand Mean				3-Oct	2.8	34.1	1.1	2.2	2773	79.6

Table 4e. Performance of full-season early maturity group IV entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Pioneer	P46A16	RR	4.6	24-Sep	1.4	36.3	3	2.0	3206	63.6
Asgrow	AG46X6	RR2X	4.6	27-Sep	1.5	33.3	1	2.0	3050	59.9
Univ of Missouri	S16-14730C	CONV	4.5	27-Sep	1.4	32.0	2	2.0	3340	59.1
USG	7450ETS	Enlist STS	4.5	26-Sep	1.6	34.0	2	2.0	3468	58.8
USG	7460ET	Enlist	4.6	27-Sep	1.1	31.0	1	2.0	3817	58.0
Local Seed	LS4299XS	RR2X/STS	4.2	25-Sep	1.5	32.0	1	2.0	3512	57.8
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6	26-Sep	1.5	35.7	1	2.0	4091	57.7
Local Seed	LS4795XS	RR2X/STS	4.6	25-Sep	1.5	32.7	1	2.0	3747	56.9
MorSoy	MS 4616 RXT/STS	RXT/STS	4.6	24-Sep	1.5	37.3	1	2.0	3870	56.7
Local Seed	ZS4694E3S	E3/STS	4.6	26-Sep	1.6	33.0	1	2.0	3449	55.5
LG Seeds	LGS4597RX	RR2X	4.5	25-Sep	1.3	33.7	2	2.0	3598	55.2
Dyna-Gro	S46XS87	Xtend/STS	4.6	26-Sep	1.7	40.0	2	2.0	3493	54.5
Credenz	CZ 4649 LL	LL	4.6	1-Oct	1.1	37.3		2.0	3407	54.1
Credenz	CZ 4600X	XTEND	4.6	28-Sep	1.2	33.0	1	2.0	3869	53.7
Dyna-Gro	S46XS60	Xtend/STS	4.6	25-Sep	1.4	31.7	1	2.0	3755	53.5
Univ of Missouri	S13-10592C	CONV	4.5	25-Sep	2.0	32.7	3	2.0	3009	53.2
Asgrow	AG46X0	RR2X/SR	4.6	26-Sep	1.3	33.0		2.0	3757	52.8
Local Seed	LS4565XS	RR2X/STS	4.5	26-Sep	1.6	35.0	1	2.0	3699	52.4
Local Seed	LS4487XS	RR2X/STS	4.4	26-Sep	1.4	32.0	1	2.0	3673	52.0
USG	7440ETS	Enlist STS	4.4	25-Sep	1.2	30.0		2.0	3827	51.9
USG	7429ET	Enlist	4.2	19-Sep	1.2	29.0	2	2.0	3998	51.3
USG	7447XTS	RRXT/STS	4.4	24-Sep	2.3	32.7	1	2.0	3654	51.2
LG Seeds	C4227RX	Xtend, STS	4.2	19-Sep	1.5	31.3	2	2.0	3410	50.9
NK	S44-C7X	RR2/Extend	4.4	26-Sep	1.2	29.0	2	2.0	3466	50.7
Asgrow	AG42X9	RR2X	4.2	21-Sep	1.4	37.7	1	2.0	3535	50.5
Seed Consultants	SC 9469BR	RR2/BOLT	4.6	21-Sep	1.6	30.7	3	2.0	3546	50.4
Pioneer	P42A96X	RR2X	4.2	23-Sep	1.1	30.3	5	2.0	2840	50.3
Channel	4519R2X	RR2X/SR	4.5	24-Sep	1.6	32.3	1	2.0	3608	49.6
Southern Harvest	SH 4619 LLGT27	LLGT27	4.6	24-Sep	1.3	31.0	3	2.0	3828	49.6
Local Seed	ZS4596GLS	GT/LL/STS	4.5	24-Sep	1.3	33.7	1	2.0	3711	49.4
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3	25-Sep	2.3	32.3	1	2.0	3622	48.3
Southern Harvest	SH 4019 LLGT27	LLGT27	4.0	23-Sep	1.0	31.0	1	2.0	3320	48.0
Asgrow	AG43X8	RR2X	4.3	23-Sep	1.7	33.7	1	2.0	3132	47.4
Credenz	CZ 4570X	XTEND	4.5	26-Sep	1.5	31.3	2	2.0	3787	47.1
USG	7410ET	Enlist	4.1	21-Sep	1.3	26.3	2	2.0	3074	46.0
Dyna-Gro	S43XS27	Xtend/STS	4.3	23-Sep	2.0	33.7	4	2.0	3773	45.4
Univ of Missouri	S13-10590C	CONV	4.3	23-Sep	1.5	29.7	3	2.0	3056	40.4
Southern Harvest	SH 4020 Enlist E3	Enlist E3	4.0	19-Sep	1.2	27.7	6	3.0	3452	37.9
Credenz	CZ 4539 GTLL*	LL/GT27	4.5							
LSD P=.10				1.7	0.2	2.8	2.2	---	179	8.0
CV				5.1	9.4	6.4	76	---	3.7	11.3
Grand Mean				24-Sep	1.5	32.6	2.1	2.0	3538	52.2

*Variety not received prior to planting

Table 4f. Performance of double-crop early maturity group IV entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
Dyna-Gro	S46XS87	Xtend/STS	4.6		1.0	29.0		3.0	2891	50.6
USG	7410ET	Enlist	4.1		1.0	25.0	2	3.0	2855	50.5
Local Seed	LS4487XS	RR2X/STS	4.4		1.0	28.7	0	3.0	3259	50.3
USG	7370ETS	Enlist STS	3.7		1.0	21.7	2	4.0	3090	49.6
Local Seed	ZS4694E3S	E3/STS	4.6		1.0	27.3		3.0	3112	48.3
Mid-Atlantic Seeds	MAS4688NRR2/STS/X	RR2/STS/X	4.6		1.0	27.3		3.0	2781	48.1
Dyna-Gro	S43XS27	Xtend/STS	4.3		1.0	24.3	1	3.0	3089	47.8
LG Seeds	C4227RX	Xtend, STS	4.2		1.0	25.7	2	3.0	2929	47.6
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3		1.0	26.7	0	3.3	3041	47.6
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6		1.0	26.3	1	3.0	3325	47.4
USG	7399ET	Enlist	3.9		1.0	22.0	1	4.0	2758	47.2
USG	7440ETS	Enlist STS	4.4		1.0	23.3	1	3.0	3126	46.5
Asgrow	AG42X9	RR2X	4.2		1.0	29.7	0	3.0	3007	46.3
Pioneer	P42A96X	RR2X	4.2		1.0	27.3		3.7	2528	46.1
Asgrow	AG46X6	RR2X	4.6		1.0	25.7		3.0	2617	46.1
Local Seed	LS4795XS	RR2X/STS	4.6		1.0	24.0		3.0	3162	46.1
Progeny	P4291LR	LL/GT27	4.2		1.0	24.3		3.0	2951	45.6
Pioneer	P46A16	RR	4.6		1.0	25.0	1	3.0	3010	45.6
USG	7447XTS	RRXT/STS	4.4		1.0	24.3		3.0	2997	45.2
Progeny	P4620RXS	R2X, STS	4.6		1.0	29.0	2	3.3	3259	45.1
Local Seed	LS4565XS	RR2X/STS	4.5		1.0	29.3	1	3.0	3392	44.8
Mid-Atlantic Seeds	MAS4619E3	E3	4.6		1.0	23.0	1	3.0	3596	44.4
Dyna-Gro	S46XT80	Xtend	4.6		1.0	23.0		2.7	3315	44.2
Univ of Missouri	S16-14730C	CONV	4.5		1.0	24.7		3.0	3047	44.0
LG Seeds	LGS4597RX	RR2X	4.5		1.0	26.0		3.7	3089	43.9
USG	7390ET	Enlist	3.9		1.0	20.7	2	4.0	2931	43.8
USG	7429ET	Enlist	4.2		1.0	22.7	1	4.0	3416	43.7
Progeny	P4525E3	Enlist	4.5		1.0	24.7		3.7	3103	43.6
Progeny	P4565LR	LL/GT27	4.5		1.0	23.0	1	4.0	3148	43.5
Mid-Atlantic Seeds	MAS4550GT/LL/STS	GT/LL/STS	4.5		1.0	27.0	1	3.0	3169	43.5
USG	7460ET	Enlist	4.6		1.0	21.7		3.0	3339	43.4
Mid-Atlantic Seeds	MAS4367GT/LL	GT/LL	4.3		1.0	23.3		3.0	3099	43.1
Univ of Missouri	S13-10592C	CONV	4.5		1.0	27.7	2	3.3	2692	42.7
Asgrow	AG46X0	RR2X/SR	4.6		1.0	90.0		3.0	3112	42.7
USG	7450ETS	Enlist STS	4.5		1.0	25.3		3.0	3057	42.5
Local Seed	ZS4596GLS	GT/LL/STS	4.5		1.0	26.0		3.0	3185	42.0
Channel	4519R2X	RR2X/SR	4.5		1.0	24.3	1	3.0	2992	41.7
Asgrow	AG43X8	RR2X	4.3		1.0	27.0	1	4.0	2641	41.5
Mid-Atlantic Seeds	MAS4200GT/LL/STS	GT/LL/STS	4.2		1.0	22.3		3.0	3042	40.9
Progeny	P4682E3	Enlist	4.6		1.0	22.0		3.0	3243	40.6
Univ of Missouri	S13-10590C	CONV	4.3		1.0	25.0		4.0	2947	40.5
LSD P=.10					---	25.2	1.6	0.3	153	5.5
CV					---	69.5	70	7.4	3.7	9.0
Grand Mean					1.0	26.7	1.5	3.2	3057	45.1

Table 4g. Performance of double-crop early maturity group IV entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
Dyna-Gro	S46XS87	Xtend/STS	4.6			36.7	1	2.0	2183	76.8
Asgrow	AG46X6	RR2X	4.6			31.3		2.0	2061	74.9
Asgrow	AG46X0	RR2X/SR	4.6			30.7		2.0	2297	74.1
Local Seed	LS4795XS	RR2X/STS	4.6			28.7		2.0	2433	71.6
USG	7410ET	Enlist	4.1		1.0	25.7	1	2.0	2285	70.7
LG Seeds	LGS4597RX	RR2X	4.5		1.5	31.3		2.0	2286	69.3
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3		1.0	33.0		2.0	2486	69.0
Progeny	P4620RXS	R2X, STS	4.6		1.5	32.0		2.0	2735	68.8
USG	7447XTS	RRXT/STS	4.4		1.0	29.3		2.0	2472	68.2
Mid-Atlantic Seeds	MAS4619E3	E3	4.6			31.7		2.0	2987	67.4
Progeny	P4525E3	Enlist	4.5		1.5	28.7	2	2.0	2522	67.3
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6			31.0	1	2.0	2560	67.0
Dyna-Gro	S43XS27	Xtend/STS	4.3		1.3	32.0		2.0	2428	66.9
Mid-Atlantic Seeds	MAS4550GT/LL/STS	GT/LL/STS	4.5		1.8	35.0		2.0	2496	66.3
Mid-Atlantic Seeds	MAS4367GT/LL	GT/LL	4.3			27.3	1	2.0	2510	66.2
Channel	4519R2X	RR2X/SR	4.5		1.0	30.3		2.0	2270	65.8
USG	7390ET	Enlist	3.9			24.0	1	2.0	2510	65.7
USG	7399ET	Enlist	3.9		1.0	25.0	2	2.0	2499	65.6
Asgrow	AG43X8	RR2X	4.3		1.0	31.0	1	2.0	2313	64.6
USG	7450ETS	Enlist STS	4.5			27.7		3.0	2631	64.5
USG	7370ETS	Enlist STS	3.7			25.7	1	2.0	2653	63.6
Mid-Atlantic Seeds	MAS4688NRR2/STS/X	RR2/STS/X	4.6			37.0	1	2.0	2270	63.6
Local Seed	LS4565XS	RR2X/STS	4.5		1.0	32.3		2.0	2698	63.2
Progeny	P4291LR	LL/GT27	4.2			26.0	1	3.0	2681	62.9
Pioneer	P42A96X	RR2X	4.2		1.0	26.7	2	2.0	2218	62.5
Dyna-Gro	S46XT80	Xtend	4.6			28.0	1	2.0	2824	62.3
USG	7429ET	Enlist	4.2			28.7		2.0	2865	61.7
LG Seeds	C4227RX	Xtend, STS	4.2		1.3	29.0	1	2.0	2381	61.1
Local Seed	ZS4694E3S	E3/STS	4.6			24.0	1	2.0	2635	60.7
Local Seed	ZS4596GLS	GT/LL/STS	4.5		1.7	31.7		2.0	2357	60.3
Local Seed	LS4487XS	RR2X/STS	4.4		1.5	32.0		2.0	2517	59.8
Pioneer	P46A16	RR	4.6			25.0	2	2.0	2398	58.3
Progeny	P4565LR	LL/GT27	4.5			26.0	1	2.7	2615	58.1
USG	7460ET	Enlist	4.6			23.7	1	2.0	2768	58.0
Mid-Atlantic Seeds	MAS4200GT/LL/STS	GT/LL/STS	4.2			24.3	1	2.0	2553	58.0
USG	7440ETS	Enlist STS	4.4		1.0	25.3		2.0	2592	56.4
Asgrow	AG42X9	RR2X	4.2		1.5	37.0	1	2.0	2555	56.0
Univ of Missouri	S13-10592C	CONV	4.5		2.0	26.7		2.0	2365	55.9
Univ of Missouri	S16-14730C	CONV	4.5			24.7	1	2.0	2600	54.1
Progeny	P4682E3	Enlist	4.6			27.3	1	2.0	2943	51.2
Univ of Missouri	S13-10590C	CONV	4.3		1.0	25.0	4	2.0	2532	49.4
LSD P=.10					0.3	2.4	2	0.1	94	10.7
CV					14.2	6.2	83	4.4	2.8	12.4
Grand Mean					1.3	29.0	1.4	2.1	2512	63.6

Table 4h. Performance of double-crop early maturity group IV entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
Local Seed	LS4565XS	RR2X/STS	4.5		1.0	25.7	1	2.0	3446	47.9
Progeny	P4525E3	Enlist	4.5		1.0	21.0		3.0	3372	47.1
Asgrow	AG46X0	RR2X/SR	4.6		1.0	22.3		2.3	3450	44.1
Univ of Missouri	S16-14730C	CONV	4.5		1.0	23.0		2.0	3267	43.9
Local Seed	ZS4694E3S	E3/STS	4.6		1.0	22.7		2.0	3285	43.7
USG	7410ET	Enlist	4.1		1.0	19.4		3.0	2698	42.9
Local Seed	ZS4596GLS	GT/LL/STS	4.5		1.0	23.7		2.0	3355	42.5
Pioneer	P42A96X	RR2X	4.2		1.0	22.3	2	2.7	3050	42.5
LG Seeds	LGS4597RX	RR2X	4.5		1.0	24.0		2.0	3072	42.3
Local Seed	LS4795XS	RR2X/STS	4.6		1.0	20.0	1	2.0	3221	41.9
Local Seed	LS4487XS	RR2X/STS	4.4		1.0	22.6		2.0	3399	41.5
USG	7399ET	Enlist	3.9		1.0	18.3	3	3	2880	41.3
Mid-Atlantic Seeds	MAS4367GT/LL	GT/LL	4.3		1.0	21.5		2.5	3776	40.6
USG	7440ETS	Enlist STS	4.4		1.0	20.0		2.0	3324	40.1
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6		1.0	23.3	1	2.0	3820	40.1
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3		1.0	23.3		2.0	3587	39.7
Channel	4519R2X	RR2X/SR	4.5		1.0	23.7	1	2.0	3183	39.1
Univ of Missouri	S13-10592C	CONV	4.5		1.0	24.0	1	3.0	3337	39.0
Dyna-Gro	S46XT80	Xtend	4.6		1.0	22.0	1	2.7	3778	39.0
Pioneer	P46A16	RR	4.6		1.0	23.0		2.0	3372	38.6
Mid-Atlantic Seeds	MAS4688NRR2/STS/X	RR2/STS/X	4.6		1.0	24.7	1	3.0	3015	38.1
Dyna-Gro	S46XS87	Xtend/STS	4.6		1.0	25.7	1	2.0	3284	38.0
Dyna-Gro	S43XS27	Xtend/STS	4.3		1.0	22.7	1	2.0	3647	37.7
USG	7429ET	Enlist	4.2		1.0	18.3	2	2.7	3624	37.4
USG	7447XTS	RRXT/STS	4.4		1.0	24.3		2.0	3393	37.2
USG	7450ETS	Enlist STS	4.5		1.0	20.0		2.0	3302	37.1
Progeny	P4620RXS	R2X, STS	4.6		1.0	25.0		2.0	3711	36.9
Asgrow	AG46X6	RR2X	4.6		1.0	21.0		2.3	2904	36.8
Mid-Atlantic Seeds	MAS4619E3	E3	4.6		1.0	23.0	2	2.0	3828	36.6
Progeny	P4682E3	Enlist	4.6		1.0	21.7		2.0	3617	36.2
LG Seeds	C4227RX	Xtend, STS	4.2		1.0	22.7		2.0	3423	36.2
USG	7460ET	Enlist	4.6		1.0	20.7		2.0	3531	36.1
Univ of Missouri	S13-10590C	CONV	4.3		1.0	21.9	1	3.0	3658	36.0
Mid-Atlantic Seeds	MAS4550GT/LL/STS	GT/LL/STS	4.5		1.0	23.0	1	2.0	3581	35.9
Asgrow	AG43X8	RR2X	4.3		1.0	24.0		3.0	3078	35.4
USG	7390ET	Enlist	3.9		1.0	16.7	3	3.0	3255	34.7
Progeny	P4291LR	LL/GT27	4.2		1.0	20.0		2.0	3539	34.3
Asgrow	AG42X9	RR2X	4.2		1.0	22.3		2.3	3604	33.1
USG	7370ETS	Enlist STS	3.7		1.0	17.3	1	3	3460	33.0
Progeny	P4565LR	LL/GT27	4.5		1.0	19.5		2.0	3812	31.9
Mid-Atlantic Seeds	MAS4200GT/LL/STS	GT/LL/STS	4.2		1.0	17.3		3.0	3523	30.2
LSD P=.10					---	3.1	---	0.3	241	8.2
CV					---	10.3	---	10.5	5.2	15.5
Grand Mean					1.0	21.9	0.6	2.3	3399	38.7

Table 4i. Performance of double-crop early maturity group IV entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed			Yield (Bu/A)
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)	
USG	7429ET	Enlist	4.2	14-Oct		20.0		2.0	3583	45.6
LG Seeds	LGS4597RX	RR2X	4.5	18-Oct		21.3	2	2.0	2904	43.4
Mid-Atlantic Seeds	MAS4688NRR2/STS/X	RR2/STS/X	4.6	24-Oct		18.7	2	2.0	2692	43.4
Dyna-Gro	S43XS27	Xtend/STS	4.3	24-Oct		22.3	2	2.0	3154	42.1
Pioneer	P42A96X	RR2X	4.2	19-Oct		20.3	2	2.7	2637	41.0
Univ of Missouri	S16-14730C	CONV	4.5	18-Oct		19.3		2.0	3084	40.0
Progeny	P4525E3	Enlist	4.5	18-Oct		21.3		2.0	3035	39.6
USG	7440ETS	Enlist STS	4.4	15-Oct		18.6		2.1	3052	39.5
Asgrow	AG46X0	RR2X/SR	4.6	22-Oct		17.7		2.0	3053	39.4
Mid-Atlantic Seeds	MAS4200GT/LL/STS	GT/LL/STS	4.2	16-Oct		19.6		2.0	2946	39.4
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6	22-Oct		21.1		2.1	3135	38.5
Mid-Atlantic Seeds	MAS4550GT/LL/STS	GT/LL/STS	4.5	17-Oct		20.7	0	2.0	3291	38.5
Mid-Atlantic Seeds	MAS4367GT/LL	GT/LL	4.3	19-Oct		19.3	0	2.0	2917	38.3
USG	7390ET	Enlist	3.9	16-Oct		17.4	1	2.5	2835	38.2
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3	18-Oct		21.7		2.0	3279	38.1
USG	7410ET	Enlist	4.1	16-Oct		18.3		3.0	2661	37.6
Progeny	P4682E3	Enlist	4.6	18-Oct		21.3	0	2.0	3183	37.5
Mid-Atlantic Seeds	MAS4619E3	E3	4.6	15-Oct		19.0		2.0	3549	37.5
Asgrow	AG42X9	RR2X	4.2	16-Oct		18.3	1	3.0	3013	37.2
Local Seed	LS4795XS	RR2X/STS	4.6	23-Oct		18.3		2.0	3213	36.8
Asgrow	AG43X8	RR2X	4.3	22-Oct		19.3		2.0	2810	36.7
Local Seed	ZS4596GLS	GT/LL/STS	4.5	16-Oct		20.0	2	2.0	3208	36.4
Pioneer	P46A16	RR	4.6	18-Oct		21.0	0	2.3	2768	36.3
Local Seed	LS4565XS	RR2X/STS	4.5	17-Oct		19.0		2.0	3275	36.2
Progeny	P4291LR	LL/GT27	4.2	16-Oct		21.0	3	2.0	3194	35.7
Local Seed	LS4487XS	RR2X/STS	4.4	19-Oct		20.7	1	2.0	3339	35.6
USG	7399ET	Enlist	3.9	15-Oct		16.3	2	2.7	2676	35.3
USG	7447XTS	RRXT/STS	4.4	24-Oct		21.3		2.0	3119	35.1
USG	7460ET	Enlist	4.6	17-Oct		20.3		2.0	3299	35.1
Progeny	P4620RXS	R2X, STS	4.6	16-Oct		19.7		2.0	3365	35.0
Channel	4519R2X	RR2X/SR	4.5	22-Oct		18.0	2	2.3	3219	34.0
Asgrow	AG46X6	RR2X	4.6	17-Oct		20.0	1	2.0	2695	33.7
Dyna-Gro	S46XS87	Xtend/STS	4.6	24-Oct		22.7		2.0	2924	33.4
USG	7450ETS	Enlist STS	4.5	16-Oct		18.0		2.0	3131	33.1
Univ of Missouri	S13-10592C	CONV	4.5	16-Oct		20.0		2.0	3103	32.7
Dyna-Gro	S46XT80	Xtend	4.6	17-Oct		21.0		2.0	3103	31.8
Local Seed	ZS4694E3S	E3/STS	4.6	19-Oct		18.7		2.0	3018	30.9
USG	7370ETS	Enlist STS	3.7	14-Oct		18.3	2	3.3	2917	30.7
Univ of Missouri	S13-10590C	CONV	4.3	17-Oct		19.0	2	2.3	2948	30.7
Progeny	P4565LR	LL/GT27	4.5	17-Oct		20.0		2.7	2932	29.5
LG Seeds	C4227RX	Xtend, STS	4.2	16-Oct		17.7	0	3.0	2760	28.1
LSD P=.10				4.1		3.0	0.9	0.3	168	7.6
CV				6.2		11.1	42	11.0	4.1	15.2
Grand Mean				18-Oct		19.7	1.3	2.2	3051	36.4

Table 4j. Performance of double-crop early maturity group IV entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
Univ of Missouri	S16-14730C	CONV	4.5	10-Oct	1.3	31.7	2	2.0	3539	47.3
Pioneer	P46A16	RR	4.6	12-Oct	1.2	35.0	2	3.0	3323	47.1
LG Seeds	C4227RX	Xtend, STS	4.2	5-Oct	1.5	32.0	1	3.0	3704	45.9
Progeny	P4620RXS	R2X, STS	4.6	7-Oct	1.4	37.7	1	2.0	3898	45.9
USG	7399ET	Enlist	3.9	29-Sep	1.2	27.7	3	3.0	3275	45.8
USG	7390ET	Enlist	3.9	29-Sep	1.3	27.3	3	3.0	3520	44.9
USG	7410ET	Enlist	4.1	4-Oct	1.2	27.7	3	3.0	3228	43.0
Univ of Missouri	S13-10590C	CONV	4.3	1-Oct	1.3	34.3	1	2.7	3673	42.6
Hubner Seed	H43-27R2X	RR2Y/ Xtend/SR	4.3	6-Oct	1.4	33.3	2	2.3	3798	42.4
USG	7440ETS	Enlist STS	4.4	6-Oct	1.2	25.7		3.0	3736	42.3
Dyna-Gro	S46XT80	Xtend	4.6	2-Oct	1.1	29.7	1	2.0	4079	42.3
Asgrow	AG46X6	RR2X	4.6	7-Oct	1.3	29.7		2.7	3298	41.9
Univ of Missouri	S13-10592C	CONV	4.5	3-Oct	1.4	34.0	3	3.0	3449	41.5
Local Seed	ZS4694E3S	E3/STS	4.6	8-Oct	1.3	30.3		2.0	3702	41.5
Pioneer	P42A96X	RR2X	4.2	7-Oct	1.1	31.3	1	3.0	3409	41.2
Hubner seed	H46-29R2X	RR2Y/ Xtend/SR	4.6	9-Oct	1.2	31.3	1	2.3	3892	41.2
Asgrow	AG46X0	RR2X/SR	4.6	11-Oct	1.1	30.3	1	2.0	3725	41.1
LG Seeds	LGS4597RX	RR2X	4.5	9-Oct	1.2	28.7		2.7	3596	41.1
Channel	4519R2X	RR2X/SR	4.5	7-Oct	1.2	30.3	2	2.3	3683	40.9
Asgrow	AG42X9	RR2X	4.2	3-Oct	1.3	36.3		3.0	3805	40.7
Local Seed	LS4487XS	RR2X/STS	4.4	6-Oct	1.3	33.3		3.0	3918	40.4
Mid-Atlantic Seeds	MAS4688NRR2/STS/X	RR2/STS/X	4.6	8-Oct	1.2	32.0	1	2.0	3441	40.0
USG	7429ET	Enlist	4.2	30-Sep	1.2	26.3	2	3.0	4103	39.7
Local Seed	LS4795XS	RR2X/STS	4.6	13-Oct	1.3	28.3	1	2.0	3826	39.7
Progeny	P4291LR	LL/GT27	4.2	2-Oct	1.2	28.0	1	2.0	3718	39.4
Dyna-Gro	S46XS87	Xtend/STS	4.6	11-Oct	1.3	35.0	1	3.0	3531	38.9
USG	7450ETS	Enlist STS	4.5	6-Oct	1.2	29.7		2.0	3652	38.4
USG	7460ET	Enlist	4.6	6-Oct	1.1	29.3	2	2.0	3858	38.4
Mid-Atlantic Seeds	MAS4367GT/LL	GT/LL	4.3	6-Oct	1.3	29.7	1	2.3	3589	38.3
Mid-Atlantic Seeds	MAS4619E3	E3	4.6	5-Oct	1.3	28.7		2.3	4128	38.2
Progeny	P4565LR	LL/GT27	4.5	4-Oct	1.2	31.0	1	2.3	3716	38.1
USG	7447XTS	RRXT/STS	4.4	9-Oct	1.3	33.0		3.0	3807	38.0
Dyna-Gro	S43XS27	Xtend/STS	4.3	6-Oct	1.3	31.7		2.0	3896	37.3
Progeny	P4682E3	Enlist	4.6	3-Oct	1.1	30.3	1	2.3	3849	37.2
Progeny	P4525E3	Enlist	4.5	5-Oct	1.3	29.0		2.7	3794	36.7
Mid-Atlantic Seeds	MAS4200GT/LL/STS	GT/LL/STS	4.2	2-Oct	1.0	27.0		3.0	3613	36.7
Asgrow	AG43X8	RR2X	4.3	5-Oct	1.3	31.7		3.0	3162	36.0
Local Seed	LS4565XS	RR2X/STS	4.5	7-Oct	1.2	33.0	1	2.3	3935	34.8
USG	7370ETS	Enlist STS	3.7	28-Sep	1.2	26.7	1	3.0	3673	34.7
Local Seed	ZS4596GLS	GT/LL/STS	4.5	5-Oct	1.3	30.3		2.0	3959	34.6
Mid-Atlantic Seeds	MAS4550GT/LL/STS	GT/LL/STS	4.5	5-Oct	1.1	29.7		2.0	4056	31.8
LSD P=.10				3.3	0.2	3.8	1.1	0.4	142	5.8
CV				6.8	11.6	9.2	48	12.3	2.8	10.6
Grand Mean				5-Oct	1.2	30.7	1.5	2.5	3697	40.2

Table 5a. Performance of full-season late maturity group IV entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
USG	7480XT	RRXT	4.8		1.2	35.0	3	2.7	2410	84.2
Credenz	CZ 4770X	XTEND	4.7		1.3	36.0	1	3.0	2382	79.0
Asgrow	AG48X7	RR2X/SR	4.8		1.2	40.7	1	2.3	2452	78.2
Channel	4919	RR2X/SR	4.9		1.2	33.7		3.0	2568	78.2
USG	7499ET	Enlist	4.9		1.0	32.0		2.0	2599	77.8
USG	7487XTS	RRXT/STS	4.8		1.0	39.1		3.0	2466	77.3
Southern Harvest	SH 4817 LL	LL	4.8		1.2	33.1		2.5	2691	77.1
Asgrow	AG48X9	RR2X/SR	4.8		1.0	35.0		2.3	2520	76.3
Southern Harvest	SH 4920 Enlist E3	Enlist E3	4.9		1.3	35.7		2.0	3001	75.2
USG	7496XTS	RRXT/STS	4.9		1.5	38.0	1	3.0	2718	74.8
NK	S49-F5X	RR2/Extend	4.9		1.2	33.1		3.0	2488	74.7
Dyna-Gro	S49EN79	Enlist E3	4.9		0.9	32.0	1	3.0	2857	73.0
Virginia Tech	V16-0293	CONV	4.9		1.3	35.0	1	2.7	2513	73.0
MorSoy	MS 4846 RXT	RXT	4.8		1.0	33.6		3.0	2278	72.1
USG	7478XTS	RRXT/STS	4.7		1.0	33.7	2	2.0	2689	71.4
Credenz	CZ 4979X	XTEND	4.9		1.2	37.6		3.0	2977	71.3
Asgrow	AG46X6	RR2X	4.6		1.0	30.1		2.5	2233	71.1
Virginia Tech	V15-1407	CONV	4.9		1.7	28.3		3.0	2975	70.9
USG	Ellis	CONV	4.9		1.2	29.6		2.0	3084	70.5
Local Seed	LS4894X	RR2X	4.8		1.0	32.1		2.0	2487	70.4
Asgrow	AG49X9	RR2X/SR	4.9		1.5	30.6		3.0	2551	70.4
Channel	4818R2X	RR/R2X	4.8		1.5	37.3		3.0	2387	68.8
Local Seed	LS4889XS	RR2X/STS	4.8		1.3	38.7	1	3.0	2424	68.8
Public	MO4901D GT	GT	4.9		1.8	37.7		2.0	3287	68.5
USG	7479ET	Enlist	4.7		1.4	32.0	3	3.0	2354	68.0
Dyna-Gro	S49XS76	Xtend/STS	4.9		1.0	36.7	2	3.0	2844	67.3
Southern Harvest	SH 4820 Enlist E3	Enlist E3	4.8		1.5	34.0	2	2.3	2822	67.2
Credenz	CZ 4869X	XTEND	4.8		1.4	34.0		2.3	2850	66.8
Local Seed	LS4999X	RR2X	4.9		1.0	34.7		3.0	2455	65.9
Local Seed	ZS4797E3	E3	4.7		1.0	31.3		2.3	2775	65.8
LG Seeds	LGS 4899RX	Xtend, STS	4.8		1.0	31.0	1	2.3	2596	65.1
Univ of Missouri	S14-15138R	RR1/STS	4.8		1.2	32.7		2.7	2557	64.7
Axis	XP473218X	RR2X	4.7		1.1	34.3	2	3.0	2598	64.5
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9		1.2	35.3		3.0	2647	64.2
Local Seed	LS4798X	RR2X	4.7		1.3	36.7		2.3	2717	64.1
Pioneer	P48A60X	RR2X	4.8		1.0	32.1	1	3.0	2879	63.9
Virginia Tech	V16-2197R	RR	4.9		1.5	37.1		2.0	2898	63.8
Asgrow	AG47X9	RR2X	4.7		1.0	34.0	1	2.7	2725	63.3
Virginia Tech	V15-0057DI	CONV	4.9		1.5	32.4		3.0	2533	63.2
Virginia Tech	V15-2259ST	STS	4.9		1.2	29.1		3.0	3257	59.6
Virginia Tech	V15-2287ST	STS	4.7		1.5	32.1		3.0	2798	59.2
Petrus	PS 4916 GT	RR	4.9		2.0	32.0		2.0	3339	57.1
USG	7480ET	Enlist	4.8		1.2	30.4		2.5	2896	56.0
Virginia Tech	V14-2288	CONV	4.9		1.0	29.7		2.7	2595	55.3
Asgrow	AG47X0	RR2X/SR	4.7		1.5	32.3		3.0	2548	55.0
LSD P=.10					0.3	4.0	---	0.5	156	9.7
CV					18.7	8.5	---	14.0	4.3	10.2
Grand Mean					1.3	34.2	0.5	2.6	2681	69.3

Table 5b. Performance of full-season late maturity group IV entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
USG	7487XTS	RRXT/STS	4.8		2.0	44.7	1	2.0	2361	92.1
Southern Harvest	SH 4920 Enlist E3	Enlist E3	4.9		2.7	39.3	2	2.0	2727	91.9
Asgrow	AG48X7	RR2X/SR	4.8		2.0	44.0		2.0	2338	88.9
LG Seeds	LGS 4899RX	Xtend, STS	4.8		1.0	36.0	2	2.0	2427	88.1
Univ of Missouri	S14-15138R	RR1/STS	4.8		1.3	34.7		2.0	2532	87.5
Axis	XP473218X	RR2X	4.7		2.2	39.7	2	2.0	2637	86.7
Asgrow	AG48X9	RR2X/SR	4.8		1.3	38.7	4	2.3	2415	86.6
Credenz	CZ 4979X	XTEND	4.9		2.7	38.7	1	2.0	2580	86.6
USG	7499ET	Enlist	4.9		1.8	33.7	3	2.0	2742	84.6
MorSoy	MS 4846 RXT	RXT	4.8		1.5	36.3	1	3.0	2206	83.5
Asgrow	AG49X9	RR2X/SR	4.9		1.3	36.7	1	2.0	2555	83.4
Southern Harvest	SH 4817 LL	LL	4.8		1.3	39.3	1	2.3	2486	82.6
USG	7478XTS	RRXT/STS	4.7		1.7	26.3	2	2.0	2743	82.5
USG	7480XT	RRXT	4.8		1.8	36.3	1	2.0	2267	82.0
Asgrow	AG46X6	RR2X	4.6		1.3	37.3	2	2.0	2297	81.3
Credenz	CZ 4770X	XTEND	4.7		1.3	36.3		2.3	2326	81.2
NK	S49-F5X	RR2/Extend	4.9		1.7	35.7	1	2.0	2703	80.5
Credenz	CZ 4869X	XTEND	4.8		2.8	40.7	2	2.0	2697	80.2
Pioneer	P48A60X	RR2X	4.8		1.2	33.3	2	2.0	2687	80.0
Channel	4919	RR2X/SR	4.9		2.2	37.3	1	2.0	2482	79.5
Local Seed	LS4894X	RR2X	4.8		2.3	39.3	1	2.0	2416	79.2
Channel	4818R2X	RR/R2X	4.8		1.7	47.7	2	2.0	2483	78.9
USG	7496XTS	RRXT/STS	4.9		2.5	37.3	1	2.0	2550	78.1
Local Seed	LS4999X	RR2X	4.9		1.2	34.7	3	2.0	2586	77.7
Local Seed	LS4798X	RR2X	4.7		2.7	42.7	2	2.3	2614	77.6
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9		1.0	40.3		2.0	2385	76.1
Virginia Tech	V16-0293	CONV	4.9		1.7	36.7		2.0	2434	76.0
Local Seed	LS4889XS	RR2X/STS	4.8		3.0	46.0		2.0	2301	75.4
Petrus	PS 4916 GT	RR	4.9		1.3	27.0		2.0	3276	74.5
USG	7480ET	Enlist	4.8		1.2	37.2	1	2.0	2897	74.1
Virginia Tech	V15-0057DI	CONV	4.9		1.0	23.0		2.0	2758	74.0
Dyna-Gro	S49EN79	Enlist E3	4.9		1.5	29.1	4	2.0	2610	73.7
Virginia Tech	V15-2287ST	STS	4.7		1.0	26.3		2.0	2919	73.6
Local Seed	ZS4797E3	E3	4.7		1.7	33.0	1	2.0	2826	73.1
USG	7479ET	Enlist	4.7		1.5	29.3	3	2.3	2596	69.1
Virginia Tech	V15-2259ST	STS	4.9		1.0	26.0	1	2.0	3318	69.1
Dyna-Gro	S49XS76	Xtend/STS	4.9		1.7	40.3	2	2.0	2570	68.9
Asgrow	AG47X9	RR2X	4.7		1.3	39.3	7	2.3	2683	67.8
Virginia Tech	V16-2197R	RR	4.9		1.0	23.0		2.0	3161	67.4
Virginia Tech	V15-1407	CONV	4.9		1.0	17.0		2.0	2955	66.6
Southern Harvest	SH 4820 Enlist E3	Enlist E3	4.8		1.3	36.7	2	2.0	2977	66.3
Asgrow	AG47X0	RR2X/SR	4.7		2.0	39.0		3.0	2624	65.9
USG	Ellis	CONV	4.9		1.0	20.7		2.0	3371	61.0
Public	MO4901D GT	GT	4.9		1.0	29.0		2.0	3183	59.7
Virginia Tech	V14-2288	CONV	4.9		1.0	17.7		3.0	2901	47.2
LSD P=.10					0.7	6.0	0.9	0.3	159	10.1
CV					29.8	12.7	31	10.2	4.4	9.6
Grand Mean					1.6	34.8	1.9	2.1	2657	77.0

Table 5c. Performance of full-season late maturity group IV entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
USG	7480XT	RRXT	4.8		2.6	44.0		3.0	2704	76.5
Local Seed	LS4894X	RR2X	4.8		3.3	30.0		3.0	2950	75.2
Local Seed	LS4999X	RR2X	4.9		1.5	44.0		3.0	3110	73.5
Asgrow	AG48X9	RR2X/SR	4.8		1.0	41.0	1	3.0	2933	73.0
Pioneer	P48A60X	RR2X	4.8		1.2	37.3	1	3.0	3346	72.1
Local Seed	LS4889XS	RR2X/STS	4.8		3.3	53.4		3.0	2922	72.0
Channel	4818R2X	RR/R2X	4.8		2.3	53.7	3	3.0	2836	71.7
NK	S49-F5X	RR2/Extend	4.9		1.8	44.7	2	3.0	2925	71.6
USG	7478XTS	RRXT/STS	4.7		1.5	43.0		2.0	3143	68.2
Southern Harvest	SH 4817 LL	LL	4.8		1.2	40.3		3.0	3148	67.8
Credenz	CZ 4770X	XTEND	4.7		2.2	40.7		3.0	2970	66.3
MorSoy	MS 4846 RXT	RXT	4.8		1.0	38.3		3.0	2790	66.3
USG	7496XTS	RRXT/STS	4.9		1.3	46.3	3	3.0	3162	66.1
Asgrow	AG47X9	RR2X	4.7		1.5	42.0		2.7	3285	65.8
LG Seeds	LGS 4899RX	Xtend, STS	4.8		1.2	40.7		3.0	3039	65.8
Asgrow	AG47X0	RR2X/SR	4.7		2.2	50.7	2	3.0	2907	65.2
Univ of Missouri	S14-15138R	RR1/STS	4.8		2.0	27.3		3.0	2910	64.7
Asgrow	AG48X7	RR2X/SR	4.8		1.2	45.7		3.0	2859	64.6
USG	7487XTS	RRXT/STS	4.8		1.3	41.8		3.0	2793	64.4
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9		1.3	48.9		3.0	2988	63.6
USG	Ellis	CONV	4.9		1.3	36.3		3.0	3724	63.6
Virginia Tech	V15-2287ST	STS	4.7		1.8	36.3		3.0	3364	62.8
USG	7499ET	Enlist	4.9		1.7	39.2	4	3.0	3171	62.8
Asgrow	AG49X9	RR2X/SR	4.9		2.0	45.7	1	3.0	3169	62.1
Dyna-Gro	S49XS76	Xtend/STS	4.9		1.2	43.4		3.0	3411	62.0
Virginia Tech	V15-2259ST	STS	4.9		2.0	36.7		3.0	3704	62.0
Asgrow	AG46X6	RR2X	4.6		1.2	39.0	2	3.0	2751	61.8
USG	7480ET	Enlist	4.8		1.9	45.7	2	3.0	3206	61.4
Virginia Tech	V15-0057DI	CONV	4.9		4.0	37.4		3.0	3068	61.2
Southern Harvest	SH 4920 Enlist E3	Enlist E3	4.9		1.2	42.0	1	3.0	3595	60.3
Axis	XP473218X	RR2X	4.7		1.0	44.3	1	3.0	3216	60.1
Credenz	CZ 4979X	XTEND	4.9		2.5	45.3	1	3.0	3346	59.4
Virginia Tech	V16-0293	CONV	4.9		1.2	46.3	1	3.0	2929	59.3
Local Seed	LS4798X	RR2X	4.7		2.4	48.3		3.0	3390	58.0
Petrus	PS 4916 GT	RR	4.9		4.2	47.3		3.0	3733	58.0
Credenz	CZ 4869X	XTEND	4.8		1.3	40.7		3.0	3708	57.7
Local Seed	ZS4797E3	E3	4.7		2.2	40.3		3.0	3527	57.4
Dyna-Gro	S49EN79	Enlist E3	4.9		1.2	42.3	3	3.0	3288	56.3
Public	MO4901D GT	GT	4.9		1.8	36.0		3.0	3892	55.7
Virginia Tech	V15-1407	CONV	4.9		3.0	38.7	1	3.0	3347	55.2
USG	7479ET	Enlist	4.7		3.5	37.7	1	3.0	3020	55.0
Virginia Tech	V14-2288	CONV	4.9		3.3	37.7	2	3.0	2966	54.1
Virginia Tech	V16-2197R	RR	4.9		2.7	40.3		3.0	3579	53.9
Channel	4919	RR2X/SR	4.9		1.5	47.3	2	3.0	3422	52.9
Southern Harvest	SH 4820 Enlist E3	Enlist E3	4.8		1.0	37.7		3.0	3683	50.5
LSD P=.10					1.2	9.3	1.1	0.1	223	9.8
CV					46.9	16.3	35	3.0	5.1	11.4
Grand Mean					1.9	41.7	1.7	3.0	3207	63.0

Table 5d. Performance of full-season late maturity group IV entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
MorSoy	MS 4846 RXT	RXT	4.8	10-Oct	1.5	43.7	3.0	2346	86.3	
USG	7480XT	RRXT	4.8	12-Oct	3.1	42.7	3.0	2326	85.9	
Asgrow	AG47X9	RR2X	4.7	1-Oct	1.5	42.7	3.0	2665	82.4	
USG	7496XTS	RRXT/STS	4.9	10-Oct	2.2	45.0	2	3.0	2733	81.9
Local Seed	LS4894X	RR2X	4.8	10-Oct	2.7	44.3	3.0	2373	81.2	
Channel	4919	RR2X/SR	4.9	9-Oct	2.5	48.3	3.0	2704	81.0	
USG	Ellis	CONV	4.9	8-Oct	1.3	29.3	1	3.0	2773	81.0
Credenz	CZ 4770X	XTEND	4.7	7-Oct	2.7	42.0	2	3.0	2446	80.5
USG	7479ET	Enlist	4.7	6-Oct	4.3	37.7	3.0	2512	80.4	
Pioneer	P48A60X	RR2X	4.8	7-Oct	2.5	42.7	2	3.0	2783	80.3
Asgrow	AG48X9	RR2X/SR	4.8	3-Oct	2.3	44.7	1	3.0	2594	80.2
LG Seeds	LGS 4899RX	Xtend, STS	4.8	8-Oct	2.0	42.0	3.0	2609	79.9	
Channel	4818R2X	RR/R2X	4.8	2-Oct	3.0	49.3	3.0	2720	79.5	
Asgrow	AG46X6	RR2X	4.6	6-Oct	2.5	44.7	3.0	2325	79.4	
Public	MO4901D GT	GT	4.9	9-Oct	2.0	37.0	1	3.0	3068	79.2
Virginia Tech	V14-2288	CONV	4.9	15-Oct	2.2	35.7	3.0	2800	79.0	
Credenz	CZ 4979X	XTEND	4.9	10-Oct	3.8	45.7	3.0	2728	78.5	
Virginia Tech	V16-0293	CONV	4.9	8-Oct	3.2	46.7	2	3.0	2538	78.4
Local Seed	ZS4797E3	E3	4.7	4-Oct	2.8	37.7	3.0	3083	78.2	
Asgrow	AG49X9	RR2X/SR	4.9	12-Oct	2.5	41.7	3.0	2682	77.3	
Southern Harvest	SH 4920 Enlist E3	Enlist E3	4.9	12-Oct	2.8	43.0	3.0	3168	77.2	
Virginia Tech	V15-2259ST	STS	4.9	13-Oct	1.0	31.0	3.0	3111	77.2	
NK	S49-F5X	RR2/Extend	4.9	7-Oct	2.3	41.0	3.0	2868	76.8	
Dyna-Gro	S49EN79	Enlist E3	4.9	15-Oct	3.2	39.7	1	3.0	2853	76.6
USG	7478XTS	RRXT/STS	4.7	7-Oct	2.3	38.3	1	3.0	3048	76.5
Virginia Tech	V15-1407	CONV	4.9	13-Oct	1.0	26.3	1	3.0	2746	76.4
Axis	XP473218X	RR2X	4.7	7-Oct	2.2	42.3	2	2.7	2753	76.1
Local Seed	LS4798X	RR2X	4.7	17-Oct	2.2	47.3	1	3.0	2661	75.8
Southern Harvest	SH 4820 Enlist E3	Enlist E3	4.8	12-Oct	3.0	44.0	3	3.0	2827	75.8
USG	7487XTS	RRXT/STS	4.8	3-Oct	2.2	52.3	3.0	2718	75.5	
Virginia Tech	V15-0057DI	CONV	4.9	3-Oct	1.7	32.7	3.0	2583	75.5	
USG	7480ET	Enlist	4.8	8-Oct	2.3	40.2	5	3.0	2763	74.9
Dyna-Gro	S49XS76	Xtend/STS	4.9	12-Oct	1.7	43.3	1	3.0	2875	74.7
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9	30-Sep	2.2	52.0	3.0	2838	74.4	
USG	7499ET	Enlist	4.9	8-Oct	4.3	43.4	3.0	2702	73.3	
Asgrow	AG47X0	RR2X/SR	4.7	4-Oct	1.5	44.7	3.0	2683	73.2	
Virginia Tech	V16-2197R	RR	4.9	9-Oct	1.2	31.0	3.0	2987	73.2	
Credenz	CZ 4869X	XTEND	4.8	2-Oct	3.5	42.7	3.0	3113	72.4	
Petrus	PS 4916 GT	RR	4.9	7-Oct	2.8	39.0	3.0	3213	72.3	
Local Seed	LS4889XS	RR2X/STS	4.8	4-Oct	3.7	47.0	3.0	2700	72.2	
Local Seed	LS4999X	RR2X	4.9	2-Oct	2.3	40.4	3.0	2952	71.6	
Southern Harvest	SH 4817 LL	LL	4.8	30-Sep	2.7	43.3	3.0	2826	71.1	
Univ of Missouri	S14-15138R	RR1/STS	4.8	7-Oct	3.5	40.7	3.0	2741	70.6	
Asgrow	AG48X7	RR2X/SR	4.8	1-Oct	2.3	51.0	3.0	2719	69.6	
Virginia Tech	V15-2287ST	STS	4.7	16-Oct	1.0	24.7	2	3.0	2909	65.6
LSD P=.10				7.1	0.8	4.9	1	0.1	159	9.0
CV				13.5	23.7	8.7	32	2.9	4.3	8.6
Grand Mean				7-Oct	2.4	41.4	1.6	3.0	2761	76.9

Table 5e. Performance of full-season late maturity group IV entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
USG	7480XT	RRXT	4.8	29-Sep	2.7	39.0		2.0	2968	78.5
Dyna-Gro	S49XS76	Xtend/STS	4.9	2-Oct	1.8	40.3	2	2.0	3340	76.6
Southern Harvest	SH 4817 LL	LL	4.8	4-Oct	1.5	38.0		2.0	3097	75.7
USG	7499ET	Enlist	4.9	5-Oct	2.2	37.7	2	2.0	3190	75.6
USG	Ellis	CONV	4.9	5-Oct	1.6	34.0		2.0	4008	74.5
NK	S49-F5X	RR2/Extend	4.9	28-Sep	2.0	37.7	1	2.0	3282	74.4
USG	7496XTS	RRXT/STS	4.9	3-Oct	2.2	41.7	2	2.0	3363	74.0
Channel	4919	RR2X/SR	4.9	5-Oct	1.9	42.3		2.0	3521	73.4
Dyna-Gro	S49EN79	Enlist E3	4.9	1-Oct	2.1	36.7	1	2.0	3235	73.0
Local Seed	LS4889XS	RR2X/STS	4.8	1-Oct	2.4	46.7	2	2.0	2978	72.4
USG	7487XTS	RRXT/STS	4.8	1-Oct	2.0	43.7		2.0	3209	72.4
USG	7480ET	Enlist	4.8	2-Oct	1.9	37.7		2.0	3467	71.6
Asgrow	AG47X0	RR2X/SR	4.7	30-Sep	2.1	40.7	2	2.0	3164	70.9
LG Seeds	LGS 4899RX	Xtend, STS	4.8	4-Oct	1.7	35.3	1	2.0	3290	70.5
Univ of Missouri	S14-15138R	RR1/STS	4.8	1-Oct	1.9	37.7	1	2.0	2936	70.3
MorSoy	MS 4846 RXT	RXT	4.8	3-Oct	1.4	34.7	1	2.0	2752	69.9
Southern Harvest	SH 4920 Enlist E3	Enlist E3	4.9	1-Oct	1.9	39.0	2	2.0	3614	69.6
Asgrow	AG48X9	RR2X/SR	4.8	30-Sep	1.9	38.0	1	2.0	3230	69.3
Local Seed	LS4894X	RR2X	4.8	4-Oct	2.5	38.7		2.0	3190	69.0
Asgrow	AG49X9	RR2X/SR	4.9	30-Sep	2.5	36.7		2.0	3161	68.2
Local Seed	LS4999X	RR2X	4.9	27-Sep	1.7	36.7	1	2.0	3326	68.2
Virginia Tech	V15-0057DI	CONV	4.9	1-Oct	1.6	30.3		2.0	3285	68.2
Channel	4818R2X	RR/R2X	4.8	2-Oct	2.5	45.7	1	2.0	3348	68.1
Credenz	CZ 4979X	XTEND	4.9	2-Oct	1.9	39.3		2.0	3458	67.9
Asgrow	AG48X7	RR2X/SR	4.8	30-Sep	2.1	44.7	1	2.0	3311	67.8
Virginia Tech	V15-1407	CONV	4.9	1-Oct	2.2	27.0	1	2.0	3546	67.8
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9	30-Sep	1.8	43.7		2.0	3484	67.7
Public	MO4901D GT	GT	4.9	28-Sep	1.6	31.7		2.0	3914	67.6
USG	7479ET	Enlist	4.7	2-Oct	3.1	37.0	2	2.0	3090	67.2
Pioneer	P48A60X	RR2X	4.8	29-Sep	1.6	34.3		2.0	3153	66.7
Credenz	CZ 4869X	XTEND	4.8	27-Sep	2.1	36.0		2.0	3816	66.4
Local Seed	LS4798X	RR2X	4.7	2-Oct	2.1	43.7	1	2.0	3450	65.8
Petrus	PS 4916 GT	RR	4.9	2-Oct	2.8	36.7		2.0	4104	65.4
Credenz	CZ 4770X	XTEND	4.7	3-Oct	2.3	35.0		2.0	3041	64.6
Virginia Tech	V16-0293	CONV	4.9	2-Oct	1.7	37.7	1	2.0	3154	64.2
Asgrow	AG46X6	RR2X	4.6	29-Sep	2.1	36.0	1.1	2.0	2954	62.9
Asgrow	AG47X9	RR2X	4.7	28-Sep	1.6	37.0	1.3	2.0	3463	61.2
Local Seed	ZS4797E3	E3	4.7	27-Sep	1.3	33.3		2.0	3752	60.5
Virginia Tech	V15-2259ST	STS	4.9	4-Oct	1.8	30.7		2.0	4009	60.5
Southern Harvest	SH 4820 Enlist E3	Enlist E3	4.8	1-Oct	1.6	35.3		2.0	3753	59.3
Virginia Tech	V16-2197R	RR	4.9	29-Sep	1.4	30.3		2.0	3598	59.3
Axis	XP473218X	RR2X	4.7	28-Sep	1.9	37.7	2	2.0	3424	59.1
Virginia Tech	V14-2288	CONV	4.9	27-Sep	1.8	26.3	1	2.0	3496	52.2
Virginia Tech	V15-2287ST	STS	4.7	1-Oct	1.4	26.7		2.0	3830	48.1
USG	7478XTS	RRXT/STS	4.7	1-Oct	1.6	34.3	1	2.0	3399	45.2
LSD P=.10				3.2	0.3	2.7	1	---	135	9.6
CV				7.6	11.1	5.4	48	---	3.0	10.6
Grand Mean				275.3	1.9	37.0	1.4	2	3381	67.1

Table 5f. Performance of double-crop late maturity group IV entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Local Seed	LS4889XS	RR2X/STS	4.8		1.3	34.7	1	2.0	2820	50.9
USG	7487XTS	RRXT/STS	4.8		1.0	26.7		2.0	2912	50.1
Asgrow	AG46X6	RR2X	4.6		1.1	26.0		2.7	2675	48.5
Progeny	P4851RX	R2X	4.8		1.2	28.0	2	2.0	2971	48.2
Local Seed	LS4798X	RR2X	4.7		1.1	28.3		3.0	3192	47.9
Pioneer	P48A60X	RR2X	4.8		1.1	26.7		2.0	3038	47.5
Channel	4818R2X	RR/R2X	4.8		1.2	33.7		2.0	2946	46.8
USG	7478XTS	RRXT/STS	4.7		1.0	26.0	1	3.0	3093	46.6
Dyna-Gro	S49EN79	Enlist E3	4.9		1.0	24.3	1	3.0	3180	46.6
Asgrow	AG48X9	RR2X/SR	4.8		1.0	26.7	2	2.0	2985	46.3
Asgrow	AG47X9	RR2X	4.7		1.0	27.3		3.0	3268	45.9
Dyna-Gro	S49XS76	Xtend/STS	4.9		1.1	29.3	1	2.3	3087	45.4
Axis	XP473218X	RR2X	4.7		1.0	27.3		3.7	2974	45.1
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9		1.3	31.3	1	3.0	3061	45.1
USG	7499ET	Enlist	4.9		1.0	24.0		3.0	3101	45.1
Univ of Missouri	S14-15138R	RR1/STS	4.8		1.0	25.0		2.0	3087	45.0
USG	Ellis	CONV	4.9		1.3	26.7		2.0	4087	44.9
Channel	4919	RR2X/SR	4.9		1.3	31.0		3.0	3328	44.7
Progeny	P4821RX	R2X	4.8		1.2	24.7	1	3.0	2597	44.3
Asgrow	AG49X9	RR2X/SR	4.9		1.0	25.7		3.0	3018	44.3
USG	7496XTS	RRXT/STS	4.9		1.1	27.7		2.0	3148	44.0
Progeny	P4710E3	Enlist	4.7		1.0	21.0		3.0	3041	43.9
Virginia Tech	V15-0057DI	CONV	4.9		1.3	30.3		2.3	3547	43.9
Asgrow	AG48X7	RR2X/SR	4.8		1.2	30.7		2.0	2976	43.6
Virginia Tech	V16-0293	CONV	4.9		1.0	26.3		2.0	3062	43.6
USG	7480XT	RRXT	4.8		1.0	23.7	1	3.0	2861	43.2
USG	7480ET	Enlist	4.8		1.1	24.7		2.0	3355	43.0
Progeny	P4816RX	R2X	4.8		1.0	24.0		2.0	2582	42.8
Progeny	P4799RXS	R2X, STS	4.7		1.0	29.0		3.3	2988	42.7
Petrus	PS 4916 GT	RR	4.9		1.5	32.7	2	2.0	4299	42.7
Progeny	P4999RX	R2X	4.9		1.1	26.3		3.0	3274	42.2
Asgrow	AG47X0	RR2X/SR	4.7		1.2	28.3	1	3.0	2841	41.4
Virginia Tech	V16-2197R	RR	4.9		1.2	27.7		2.0	3932	41.1
Virginia Tech	V15-1407	CONV	4.9		1.3	22.3		2.0	3851	41.0
MorSoy	MS 4846 RXT	RXT	4.8		1.0	22.7	1	2.0	2546	40.9
Virginia Tech	V15-2287ST	STS	4.7		1.2	26.7		2.0	3629	40.8
USG	7479ET	Enlist	4.7		1.1	22.7		3.0	3092	40.5
Public	MO4901D GT	GT	4.9		1.5	96.7		2.0	4437	38.0
Virginia Tech	V14-2288	CONV	4.9		1.2	24.7		3.0	3177	35.2
Virginia Tech	V15-2259ST	STS	4.9		1.2	25.0		2.0	4073	35.0
LSD P=.10					0.2	24.6	1.0	0.3	187	4.1
CV					11.2	63.1	50	8.1	4.3	6.9
Grand Mean					1.1	28.7	1.2	2.5	3203	44.0

Table 5g. Performance of double-crop late maturity group IV entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
USG	7487XTS	RRXT/STS	4.8		1.5	35.0		2.0	2233	77.8
Local Seed	LS4889XS	RR2X/STS	4.8			38.3		2.0	2248	76.3
Asgrow	AG47X9	RR2X	4.7			30.0	1	2.0	2609	72.0
Local Seed	LS4798X	RR2X	4.7		2.7	34.3	2	2.0	2286	71.3
Channel	4818R2X	RR/R2X	4.8		2.5	39.0		2.0	2174	69.7
Asgrow	AG48X9	RR2X/SR	4.8			31.7		2.0	2261	69.6
Pioneer	P48A60X	RR2X	4.8			26.0		2.0	2548	69.2
MorSoy	MS 4846 RXT	RXT	4.8		3.7	29.3		2.0	2100	68.1
Channel	4919	RR2X/SR	4.9		1.7	28.0		2.0	2532	68.0
USG	7478XTS	RRXT/STS	4.7			29.3	2	2.0	2451	67.8
USG	7499ET	Enlist	4.9			28.3	1	2.0	2417	67.5
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9		1.5	35.3		2.0	2211	66.5
Axis	XP473218X	RR2X	4.7		2.0	30.0	1	2.0	2398	66.4
Progeny	P4799RXS	R2X, STS	4.7			30.0		2.0	2411	65.7
USG	7496XTS	RRXT/STS	4.9		1.5	32.3	2	2.0	2402	65.6
Progeny	P4821RX	R2X	4.8		1.5	29.7	1	2.0	1975	65.0
Progeny	P4999RX	R2X	4.9			30.0	2	2.0	2527	64.6
Virginia Tech	V15-2259ST	STS	4.9		2.7	28.0		2.0	2974	64.5
Progeny	P4851RX	R2X	4.8		3.5	27.7		2.0	2295	63.4
USG	7479ET	Enlist	4.7		1.5	26.7	1	2.0	2269	62.8
Dyna-Gro	S49EN79	Enlist E3	4.9			28.7	1	2.0	2486	61.9
Virginia Tech	V16-0293		4.9		1.5	28.7		2.0	2363	61.4
Dyna-Gro	S49XS76	Xtend/STS	4.9			31.0		2.0	2415	61.3
Asgrow	AG49X9	RR2X/SR	4.9			27.7		2.0	2486	60.5
USG	7480XT	RRXT	4.8		1.5	28.3		2.0	2217	60.3
USG	Ellis	CONV	4.9		1.9	21.7		2.0	3198	59.4
Asgrow	AG46X6	RR2X	4.6		1.5	32.3	1	2.0	2000	59.3
USG	7480ET	Enlist	4.8			25.7	1	2.0	2692	59.3
Progeny	P4816RX	R2X	4.8			25.3	1	2.0	2190	59.1
Petrus	PS 4916 GT	RR	4.9		2.7	27.7	3	2.0	2963	59.1
Progeny	P4710E3	Enlist	4.7			24.3	1	2.0	2419	58.8
Asgrow	AG48X7	RR2X/SR	4.8		1.5	31.3		2.0	2271	57.9
Virginia Tech	V15-0057DI		4.9		3.0	28.3		2.0	2631	55.8
Virginia Tech	V16-2197R	RR	4.9		2.8	25.3		2.0	2775	54.2
Virginia Tech	V15-2287ST	STS	4.7		1.7	25.7		2.0	2868	53.6
Virginia Tech	V15-1407		4.9		1.5	21.0		2.0	2868	53.5
Asgrow	AG47X0	RR2X/SR	4.7		1.5	34.3		2.0	2381	51.6
Virginia Tech	V14-2288		4.9		2.8	25.3		2.0	2580	49.2
Univ of Missouri	S14-15138R	RR1/STS	4.8		1.5	23.0	1	2.0	2464	48.8
Public	MO4901D GT	GT	4.9		1.9	27.3		2.0	3039	45.2
LSD P=.10					1.1	4.6	1.1	---	90	11.2
CV					35.3	11.5	52	---	2.7	13.3
Grand Mean					2.3	29.1	1.3	2.0	2466	62.3

Table 5h. Performance of double-crop late maturity group IV entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
USG	7496XTS	RRXT/STS	4.9		1.0	25.0		2.0	3221	39.6
Local Seed	LS4889XS	RR2X/STS	4.8		1.0	26.7	1	2.0	2929	39.5
USG	7480ET	Enlist	4.8		1.0	21.0	2	3.0	3259	37.9
USG	7487XTS	RRXT/STS	4.8		1.0	24.0		3.0	2917	35.9
USG	7499ET	Enlist	4.9		1.0	18.7	1	2.7	3106	35.1
USG	7480XT	RRXT	4.8		1.0	19.3	2	2.0	2911	34.7
Progeny	P4851RX	R2X	4.8		1.0	23.0		2.0	3155	33.8
USG	7478XTS	RRXT/STS	4.7		1.0	22.3	1	2.3	3092	33.8
Petrus	PS 4916 GT	RR	4.9		1.0	27.7	1	2.0	4153	33.8
Virginia Tech	V15-1407	CONV	4.9		1.0	23.0		2.0	4120	33.6
Progeny	P4999RX	R2X	4.9		1.0	21.7	1	2.0	3364	33.4
Local Seed	LS4798X	RR2X	4.7		1.0	23.7	2	3.0	3228	32.4
Asgrow	AG46X6	RR2X	4.6		1.0	19.0		3.0	2877	32.1
USG	Ellis	CONV	4.9		1.0	20.3		2.0	4329	31.3
Virginia Tech	V15-2287ST	STS	4.7		1.0	27.7		2.0	4190	30.0
Progeny	P4799RXS	R2X, STS	4.7		1.0	22.7	1	2.0	3010	29.9
Asgrow	AG48X7	RR2X/SR	4.8		1.0	24.0	1	2.0	3167	29.5
USG	7479ET	Enlist	4.7		1.0	22.3	1	2.0	3025	29.3
Progeny	P4821RX	R2X	4.8		1.0	20.0		3.0	2784	29.2
Virginia Tech	V15-0057DI	CONV	4.9		1.0	30.7		2.0	4073	29.1
Channel	4919	RR2X/SR	4.9		1.0	22.0	1	3.0	3338	28.9
Dyna-Gro	S49XS76	Xtend/STS	4.9		1.0	23.0	1	2.0	3380	27.9
Progeny	P4710E3	Enlist	4.7		1.0	17.3	1	2.0	3314	27.8
Channel	4818R2X	RR/R2X	4.8		1.0	25.7		2.0	3065	27.7
MorSoy	MS 4846 RXT	RXT	4.8		1.0	22.7	2	2.0	2686	27.5
Asgrow	AG49X9	RR2X/SR	4.9		1.0	18.0	3	2.0	3267	27.4
Progeny	P4816RX	R2X	4.8		1.0	17.3	1	2.0	2850	27.4
Axis	XP473218X	RR2X	4.7		1.0	22.3	3	3.0	3414	27.3
Virginia Tech	V14-2288	CONV	4.9		1.0	22.3		3.0	3495	26.8
Pioneer	P48A60X	RR2X	4.8		1.0	20.3		2.0	3442	26.6
Asgrow	AG47X9	RR2X	4.7		1.0	21.3		3.0	3664	26.5
Public	MO4901D GT	GT	4.9		1.0	29.0	1	2.0	4633	26.2
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9		1.0	25.7		2.0	3194	25.9
Virginia Tech	V16-2197R	RR	4.9		1.0	28.7	2	2.0	4344	25.0
Asgrow	AG48X9	RR2X/SR	4.8		1.0	20.3	3	2.7	3412	24.9
Virginia Tech	V16-0293	CONV	4.9		1.0	21.3	1	2.0	3217	24.5
Asgrow	AG47X0	RR2X/SR	4.7		1.0	20.3	1	3.0	3126	24.3
Dyna-Gro	S49EN79	Enlist E3	4.9		1.0	20.0		2.0	3487	23.9
Univ of Missouri	S14-15138R	RR1/STS	4.8		1.0	21.0	1	2.0	3511	23.7
Virginia Tech	V15-2259ST	STS	4.9		1.0	23.3	1	2.0	4336	20.7
LSD P=.10					---	4.0	1.2	0.2	215	7.7
CV					---	13.1	53	7.0	4.6	19.2
Grand Mean					1.0	22.6	1.4	2.3	3402	29.6

Table 5i. Performance of double-crop late maturity group IV entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
USG	7478XTS	RRXT/STS	4.7	20-Oct	1.0	22.0	2	2.0	3097	51.1
Local Seed	LS4798X	RR2X	4.7	23-Oct	1.0	26.7	2	2.0	3031	50.3
USG	7480ET	Enlist	4.8	26-Oct	1.0	23.0	1	2.0	3104	46.3
Channel	4818R2X	RR/R2X	4.8	26-Oct	1.0	29.7	2	2.0	2844	45.0
Asgrow	AG48X7	RR2X/SR	4.8	21-Oct	1.0	23.0	1	2.0	3073	44.0
Asgrow	AG48X9	RR2X/SR	4.8	22-Oct	1.0	22.3	1	2.0	2977	44.0
Virginia Tech	V15-1407	CONV	4.9	22-Oct	1.0	14.7		2.0	3183	43.3
Asgrow	AG47X9	RR2X	4.7	16-Oct	1.0	25.3		2.0	3468	43.1
Axis	XP473218X	RR2X	4.7	18-Oct	1.0	28.3	1	2.0	3034	43.0
USG	7496XTS	RRXT/STS	4.9	23-Oct	1.0	25.0	2	2.0	3153	42.6
USG	Ellis	CONV	4.9	22-Oct	1.0	18.7	1	2.0	3436	42.1
USG	7487XTS	RRXT/STS	4.8	24-Oct	1.0	24.7	1	2.0	3096	41.9
Local Seed	LS4889XS	RR2X/STS	4.8	23-Oct	1.0	28.0	1	2.0	3034	41.0
Asgrow	AG49X9	RR2X/SR	4.9	21-Oct	1.0	22.3		2.0	2956	40.6
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9	23-Oct	1.0	22.3		2.0	3096	40.4
Virginia Tech	V15-0057DI	CONV	4.9	17-Oct	1.0	16.0	1	2.0	3138	40.4
USG	7480XT	RRXT	4.8	20-Oct	1.0	20.7		2.0	2818	40.3
Petrus	PS 4916 GT	RR	4.9	18-Oct	1.3	20.0		2.0	3635	39.9
Progeny	P4799RXS	R2X, STS	4.7	23-Oct	1.0	23.7	1	2.0	2937	39.7
Asgrow	AG47X0	RR2X/SR	4.7	20-Oct	1.3	27.0	1	2.0	3011	39.6
Asgrow	AG46X6	RR2X	4.6	19-Oct	1.0	22.7	2	2.0	2649	39.5
Progeny	P4851RX	R2X	4.8	22-Oct	1.0	24.3	1	2.0	2909	39.4
Progeny	P4999RX	R2X	4.9	23-Oct	1.0	22.3	1	2.0	3103	39.3
Progeny	P4816RX	R2X	4.8	21-Oct	1.0	21.0	1	2.0	2613	39.0
Progeny	P4821RX	R2X	4.8	19-Oct	1.0	22.3	2	2.0	2574	38.6
Virginia Tech	V14-2288	CONV	4.9	21-Oct	1.0	18.3	2	2.0	2727	38.3
Virginia Tech	V16-0293	CONV	4.9	23-Oct	1.0	19.7		2.0	2917	38.3
Virginia Tech	V15-2287ST	STS	4.7	17-Oct	1.0	16.7	1	2.0	3162	37.5
Dyna-Gro	S49XS76	Xtend/STS	4.9	23-Oct	1.0	25.0		2.0	3052	37.5
USG	7479ET	Enlist	4.7	23-Oct	1.0	19.7	3	2.7	2943	37.4
MorSoy	MS 4846 RXT	RXT	4.8	22-Oct	1.0	20.7	2	2.0	2589	36.8
Progeny	P4710E3	Enlist	4.7	17-Oct	1.0	18.7	2	2.0	3015	36.5
Pioneer	P48A60X	RR2X	4.8	20-Oct	1.0	21.7		2.0	3055	36.3
Virginia Tech	V16-2197R	RR	4.9	23-Oct	1.0	19.0		2.0	3467	36.3
Channel	4919	RR2X/SR	4.9	23-Oct	1.0	22.3	1	2.0	3246	35.5
Univ of Missouri	S14-15138R	RR1/STS	4.8	21-Oct	1.0	22.0		2.0	3008	35.2
Virginia Tech	V15-2259ST	STS	4.9	25-Oct	1.0	20.3		2.0	3484	34.7
Dyna-Gro	S49EN79	Enlist E3	4.9	24-Oct	1.0	19.3	1	2.0	3167	30.8
USG	7499ET	Enlist	4.9	27-Oct	1.0	19.7	1	2.0	2979	30.0
Public	MO4901D GT	GT	4.9	18-Oct	1.0	18.7		2.0	3773	29.4
LSD P=.10				3.5	0.2	2.5	0.8	0.1	210	7.4
CV				4.9	12.6	8.4	38	4.6	5.1	13.6
Grand Mean				21-Oct	1.0	22.0	1.5	2.0	3061	39.6

Table 5j. Performance of double-crop late maturity group IV entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Pioneer	P48A60X	RR2X	4.8	14-Oct	1.4	35.3		2.0	3692	57.1
Asgrow	AG48X7	RR2X/SR	4.8	17-Oct	1.4	39.3		2.0	3231	56.7
USG	7478XTS	RRXT/STS	4.7	13-Oct	5.8	33.3	1	2.0	3720	56.3
MorSoy	MS 4846 RXT	RXT	4.8	15-Oct	1.3	32.7	2	2.0	2967	56.3
Dyna-Gro	S49EN79	Enlist E3	4.9	15-Oct	1.4	33.0	1	2.0	3657	55.6
Channel	4818R2X	RR/R2X	4.8	15-Oct	6.6	39.7	1	2.0	3408	54.9
USG	7479ET	Enlist	4.7	10-Oct	1.8	35.0	1	2.0	3384	54.6
Progeny	P4816RX	R2X	4.8	15-Oct	1.3	32.3	1	2.0	3274	54.1
Progeny	P4851RX	R2X	4.8	11-Oct	1.8	34.7	1	2.0	3560	54.0
Channel	4919	RR2X/SR	4.9	17-Oct	1.3	37.7		2.0	3926	54.0
Asgrow	AG48X9	RR2X/SR	4.8	16-Oct	1.3	34.0	1	2.0	3570	53.6
Virginia Tech	V15-2287ST	STS	4.7	12-Oct	1.8	33.7	1	2.0	4273	53.5
Local Seed	LS4798X	RR2X	4.7	13-Oct	1.6	37.0	1	2.0	3704	52.8
Dyna-Gro	S49XS76	Xtend/STS	4.9	18-Oct	1.3	37.3	1	2.0	3883	52.8
USG	7487XTS	RRXT/STS	4.8	16-Oct	1.4	38.7	1	2.0	3550	52.2
Progeny	P4710E3	Enlist	4.7	11-Oct	1.2	30.3	2	2.0	3583	51.9
Hubner Seed	H49-27R2X	RR2Y/ Xtend/SR	4.9	16-Oct	1.6	39.0		2.0	3529	51.4
Progeny	P4999RX	R2X	4.9	13-Oct	1.3	35.0	1	2.0	3671	51.2
Virginia Tech	V15-1407	CONV	4.9	14-Oct	2.1	30.3		2.0	4092	51.1
Progeny	P4799RXS	R2X, STS	4.7	15-Oct	1.3	37.0	1	2.0	3293	50.6
Local Seed	LS4889XS	RR2X/STS	4.8	14-Oct	1.8	40.0	3	2.0	3526	50.3
USG	7480XT	RRXT	4.8	11-Oct	1.4	30.3	1	2.0	3484	49.8
USG	Ellis	CONV	4.9	18-Oct	2.0	36.3	1	2.0	4798	49.6
Virginia Tech	V15-0057DI	CONV	4.9	12-Oct	2.5	33.3	1	2.0	3881	49.3
Progeny	P4821RX	R2X	4.8	12-Oct	1.3	30.7	2	2.0	3129	48.7
USG	7496XTS	RRXT/STS	4.9	14-Oct	1.3	37.3	1	2.0	4068	48.6
Asgrow	AG47X0	RR2X/SR	4.7	12-Oct	1.5	35.3	1	2.0	3475	47.9
Public	MO4901D GT	GT	4.9	12-Oct	2.7	37.0		2.0	4732	47.8
USG	7480ET	Enlist	4.8	11-Oct	1.4	35.3		2.0	4019	47.6
Asgrow	AG49X9	RR2X/SR	4.9	12-Oct	1.4	31.3		2.0	3759	47.5
USG	7499ET	Enlist	4.9	12-Oct	1.3	30.7		2.0	3683	47.4
Virginia Tech	V16-0293	CONV	4.9	14-Oct	1.3	34.0	1	2.0	3433	47.2
Asgrow	AG47X9	RR2X	4.7	10-Oct	1.3	33.7		2.0	3975	47.0
Univ of Missouri	S14-15138R	RR1/STS	4.8	10-Oct	1.3	33.7		2.0	3773	45.7
Virginia Tech	V15-2259ST	STS	4.9	16-Oct	1.6	34.3		2.0	4439	45.0
Axis	XP473218X	RR2X	4.7	10-Oct	1.5	34.3	1	2.0	3597	44.8
Virginia Tech	V14-2288	CONV	4.9	13-Oct	1.5	33.7		2.0	3274	44.4
Petrus	PS 4916 GT	RR	4.9	16-Oct	2.8	40.0	1	2.0	4476	40.9
Asgrow	AG46X6	RR2X	4.6	9-Oct	1.3	32.7		2.0	3414	40.8
Virginia Tech	V16-2197R	RR	4.9	15-Oct	1.6	35.0	1	2.0	4143	39.4
LSD P=.10				2.5	2.3	2.8	0.8	---	207	9.1
CV				4.1	95.7	5.9	42	---	4.09	13.3
Grand Mean				13-Oct	1.8	34.9	1.2	2	3726	50.1

Table 6a. Performance of full-season early maturity group V entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
Dyna-Gro	S52RS86	RR2Y/STS	5.2		1.2	35.0	2	3.0	2526	68.0
Virginia Tech	V16-0709PR	CONV	5.4		1.5	35.7	2	3.0	2540	67.1
Southern Harvest	SH 5120 Enlist E3	Enlist E3	5.1		1.2	31.7	3	3.0	2730	66.6
Armor Seed	52-D71	RR2X	5.2		1.0	34.3	1	3.0	2703	66.0
Asgrow	AG52X9	RR2X/SR	5.2		1.0	30.7		3.0	2709	64.6
Pioneer	P51A61X	RR2X	5.1		1.0	31.7	3	3.0	3207	64.2
Local Seed	LS5087X	RR2X	5.0		1.0	32.7		3.0	2746	63.7
Armor Seed	51-D77	RR2X	5.1		1.2	34.0	1	3.0	3119	63.6
Credenz	CZ 5299X	XTEND	5.2		1.0	34.3		3.0	3128	63.0
MorSoy	MS 5398 RXT	RXT	5.3		1.0	30.0	1	3.0	2666	62.9
Local Seed	LS5386X	RR2X	5.3		1.0	34.3	1	3.0	2768	62.1
NK	S53-F7X	RR2/Extend	5.3		1.0	31.0	2	3.0	2730	61.0
Virginia Tech	V15-1861	CONV	5.2		1.3	29.3	2	3.0	2757	60.4
Southern Harvest	SH 5215 LL	LL	5.2		1.2	33.0	2	3.0	2926	60.1
Public	Corbin	GT	5.3		1.5	29.0		3.0	2979	59.8
Virginia Tech	V16-0725PR	CONV	5.1		1.2	29.7	1	3.0	3145	59.1
Seed Consultants	SC 8518X	RR2/Xtend	5.1		1.5	33.3	2	3.0	2820	58.5
Dyna-Gro	S52XS39	Xtend/STS	5.2		1.2	29.3	1	3.0	2256	58.0
Virginia Tech	V16-1672RLP	RR	5.3		1.8	36.0		3.0	3173	57.8
Asgrow	AG55X7	RR2X	5.5		1.2	28.0		3.0	3245	57.8
Credenz	CZ 5150 LL	LL	5.1		1.0	33.0		3.0	3000	57.1
Virginia Tech	V15-2261ST	STS	5.3		1.0	33.0		3.0	2856	53.7
Axis	5319NRX	RR2X	5.3		1.0	28.3	3	3.0	2778	53.1
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0		1.3	21.0	2	3.0	2702	52.0
Virginia Tech	V14-2116	CONV	5.2		1.5	27.0	3	3.0	3174	42.8
LSD P=.10					0.3	6.0	2.5	---	472	9.3
CV					16.2	13.9	66	---	12.1	11.3
Grand Mean					1.2	31.4	2	3	2855	60.12

Table 6b. Performance of full-season early maturity group V entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed			Yield (Bu/A)
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)	
Dyna-Gro	S52RS86	RR2Y/STS	5.2			46.3	2	2.0	2499	84.7
Local Seed	LS5087X	RR2X	5.0			44.3	0	2.0	2456	80.6
Seed Consultants	SC 8518X	RR2/Xtend	5.1			42.0	2	2.0	2913	77.7
Armor Seed	52-D71	RR2X	5.2			42.7		2.0	2392	76.8
MorSoy	MS 5398 RXT	RXT	5.3			42.0	2	2.0	2451	76.2
NK	S53-F7X	RR2/Extend	5.3			41.7		2.0	2767	76.2
Asgrow	AG52X9	RR2X/SR	5.2			43.7	1	2.0	2634	74.2
Axis	5319NRX	RR2X	5.3			41.7		2.0	2506	74.1
Southern Harvest	SH 5120 Enlist E3	Enlist E3	5.1			38.3	5	2.0	3052	74.0
Local Seed	LS5386X	RR2X	5.3			42.3		2.0	2485	72.7
Credenz	CZ 5150 LL	LL	5.1			41.0		2.0	2985	72.4
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0			42.7	4	2.0	2359	72.1
Pioneer	P51A61X	RR2X	5.1			27.7		2.0	3100	71.4
Southern Harvest	SH 5215 LL	LL	5.2			42.3		2.0	2766	71.2
Virginia Tech	V16-0709PR	CONV	5.4			47.7		2.0	2520	70.7
Virginia Tech	V15-2261ST	STS	5.3			24.7	0	2.0	2943	70.3
Asgrow	AG55X7	RR2X	5.5			22.0		2.0	3202	66.4
Armor Seed	51-D77	RR2X	5.1			41.3	1	2.0	2949	65.5
Dyna-Gro	S52XS39	Xtend/STS	5.2			43.7	0	2.0	2871	65.4
Virginia Tech	V14-2116	CONV	5.2			23.0	4	2.0	3015	64.5
Credenz	CZ 5299X	XTEND	5.2			42.7		2.0	2756	63.3
Virginia Tech	V15-1861	CONV	5.2			24.0		2.0	2829	61.8
Virginia Tech	V16-1672RLP	RR	5.3			30.0		2.0	2647	59.8
Public	Corbin	GT	5.3			24.7		2.0	2887	59.6
Virginia Tech	V16-0725PR	CONV	5.1			29.7		2.0	3086	52.6
LSD P=.10						3.9	2.3	---	419	6.7
CV						7.7	57	---	11.1	7.0
Grand Mean						37.2	2.6	2.0	2763	70.2

Table 6c. Performance of full-season early maturity group V entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed			
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Local Seed	LS5386X	RR2X	5.3		1.4	50.7	1	2.0	2706	76.7
Asgrow	AG55X7	RR2X	5.5		2.3	45.3		2.0	3055	75.4
MorSoy	MS 5398 RXT	RXT	5.3		2.5	54.7	1	2.0	2796	74.9
Southern Harvest	SH 5120 Enlist E3	Enlist E3	5.1		2.5	49.7	2	2.0	2994	74.7
Local Seed	LS5087X	RR2X	5.0		2.3	53.0		2.3	2864	74.6
Asgrow	AG52X9	RR2X/SR	5.2		1.1	47.7		2.0	2950	73.6
Dyna-Gro	S52XS39	Xtend/STS	5.2		2.7	53.0		2.0	2981	73.0
Axis	5319NRX	RR2X	5.3		1.7	52.0		2.0	2684	72.4
Seed Consultants	SC 8518X	RR2/Xtend	5.1		2.7	51.0		2.0	3105	72.3
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0		1.7	53.0		2.0	2833	72.2
Virginia Tech	V16-0709PR	CONV	5.4		2.5	47.3		2.0	2406	70.5
Southern Harvest	SH 5215 LL	LL	5.2		1.8	54.3	1	2.0	2977	70.0
Virginia Tech	V14-2116	CONV	5.2		3.8	44.0		2.0	3188	69.8
Dyna-Gro	S52RS86	RR2Y/STS	5.2		2.3	59.0		2.0	2557	69.3
Pioneer	P51A61X	RR2X	5.1		2.7	49.0	1	2.0	3350	67.9
Virginia Tech	V15-1861	CONV	5.2		3.8	43.3		2.0	2781	67.3
Public	Corbin	GT	5.3		4.0	44.7		2.0	3119	66.7
Armor Seed	52-D71	RR2X	5.2		1.7	51.3		2.3	2846	66.5
Virginia Tech	V15-2261ST	STS	5.3		3.5	43.3	1	2.0	2859	64.1
NK	S53-F7X	RR2/Extend	5.3		1.3	50.7	1	2.0	2923	63.7
Credenz	CZ 5150 LL	LL	5.1		1.7	45.3	1	2.0	3188	60.4
Credenz	CZ 5299X	XTEND	5.2		2.0	49.7		2.0	3212	59.9
Virginia Tech	V16-0725PR	CONV	5.1		3.4	47.3		2.0	3320	59.7
Armor Seed	51-D77	RR2X	5.1		2.0	45.7	1	2.7	3205	58.7
Virginia Tech	V16-1672RLP	RR	5.3		3.0	49.7	1	2.0	3341	49.5
LSD P=.10					0.8	5.7	---	0.3	200.4	13.6
CV					0.6	4.2	---	0.2	4.9	14.5
Grand Mean					24.5	8.4	0.4	10.0	2965.7	68.152

Table 6d. Performance of full-season early maturity group V entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Local Seed	LS5386X	RR2X	5.3	21-Oct	1.6	41.6		3.0	2335	84.6
MorSoy	MS 5398 RXT	RXT	5.3	16-Oct	1.5	41.3	1	3.0	2628	81.3
Local Seed	LS5087X	RR2X	5.0	9-Oct	3.0	42.0	1	3.0	2708	78.1
Axis	5319NRX	RR2X	5.3	13-Oct	1.3	38.3	1	3.0	2709	77.0
Asgrow	AG55X7	RR2X	5.5	17-Oct	1.0	20.1		3.0	3314	76.7
Public	Corbin	GT	5.3	12-Oct	1.0	25.0		3.0	2726	75.9
Southern Harvest	SH 5215 LL	LL	5.2	11-Oct	2.2	39.0		3.0	3003	75.8
Credenz	CZ 5150 LL	LL	5.1	11-Oct	2.2	42.3	0	3.0	2970	75.7
Dyna-Gro	S52RS86	RR2Y/STS	5.2	16-Oct	2.4	39.1		3.0	2257	75.5
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0	14-Oct	2.5	42.3	2	2.0	2776	73.8
Credenz	CZ 5299X	XTEND	5.2	12-Oct	3.0	40.7		3.0	3011	72.5
Armor Seed	52-D71	RR2X	5.2	12-Oct	1.8	36.3		3.0	2385	72.2
Virginia Tech	V15-2261ST	STS	5.3	19-Oct	1.0	25.0		3.0	2661	72.2
Asgrow	AG52X9	RR2X/SR	5.2	10-Oct	1.7	38.3		3.0	2806	70.9
NK	S53-F7X	RR2/Extend	5.3	9-Oct	1.7	41.3	1	3.0	2738	69.4
Virginia Tech	V15-1861	CONV	5.2	19-Oct	1.0	25.3		3.0	2460	69.2
Pioneer	P51A61X	RR2X	5.1	7-Oct	1.0	26.0		3.0	3004	69.1
Virginia Tech	V14-2116	CONV	5.2	14-Oct	1.0	19.7	1	3.0	2776	68.4
Virginia Tech	V16-1672RLP	RR	5.3	12-Oct	1.5	34.0		3.0	2882	67.4
Dyna-Gro	S52XS39	Xtend/STS	5.2	14-Oct	3.0	39.3	0	3.0	3104	66.7
Virginia Tech	V16-0725PR	CONV	5.1	14-Oct	0.9	27.6	1	3.0	3236	66.6
Armor Seed	51-D77	RR2X	5.1	14-Oct	3.3	39.0	1	3.0	3012	66.5
Seed Consultants	SC 8518X	RR2/Xtend	5.1	15-Oct	4.0	30.7	2	3.0	2803	65.0
Southern Harvest	SH 5120 Enlist E3	Enlist E3	5.1	13-Oct	2.2	29.7	3	3.0	2862	64.4
Virginia Tech	V16-0709PR	CONV	5.4	18-Oct	2.2	31.7		3.0	2623	59.2
LSD P=.10				4.9	0.8	7.7	5.2	---	179	9.9
CV				8.0	30.0	16.3	63	---	4.7	10.1
Grand Mean				13-Oct	2.0	34.5	1.6	3.0	2810	71.6

Table 6e. Performance of full-season early maturity group V entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0	30-Sep	2.2	41.3	2	2.0	3301	64.7
Southern Harvest	SH 5120 Enlist E3	Enlist E3	5.1	2-Oct	1.4	34.0	2	2.0	3261	62.4
Public	Corbin	GT	5.3	4-Oct	2.5	30.7		2.0	3753	61.4
Virginia Tech	V15-2261ST	STS	5.3	4-Oct	1.6	32.0	1	2.0	3146	61.3
Dyna-Gro	S52RS86	RR2Y/STS	5.2	2-Oct	1.9	40.0	2	2.0	3404	60.6
Pioneer	P51A61X	RR2X	5.1	29-Sep	1.3	31.3	1	2.0	4043	60.2
MorSoy	MS 5398 RXT	RXT	5.3	1-Oct	1.5	38.0	2	2.0	3356	60.1
Virginia Tech	V15-1861	CONV	5.2	2-Oct	1.3	30.3	1	2.0	3623	59.5
Armor Seed	52-D71	RR2X	5.2	1-Oct	1.4	39.7	2	2.0	3294	59.4
Virginia Tech	V16-0709PR	CONV	5.4	29-Sep	1.8	40.0	1	2.0	3287	58.3
Dyna-Gro	S52XS39	Xtend/STS	5.2	4-Oct	1.5	38.0		2.0	4275	58.2
Asgrow	AG52X9	RR2X/SR	5.2	30-Sep	1.5	38.0	1	2.0	3403	57.9
Seed Consultants	SC 8518X	RR2/Xtend	5.1	27-Sep	2.0	39.7	1	2.0	3475	57.8
Asgrow	AG55X7	RR2X	5.5	30-Sep	1.3	33.0	1	2.0	4237	57.2
Credenz	CZ 5150 LL	LL	5.1	3-Oct	1.5	38.7	2	2.0	3880	56.9
Credenz	CZ 5299X	XTEND	5.2	5-Oct	1.8	41.0	2	2.0	4129	56.7
Southern Harvest	SH 5215 LL	LL	5.2	28-Sep	1.3	36.3	1	2.0	4084	56.5
Local Seed	LS5386X	RR2X	5.3	28-Sep	1.5	37.7	1	2.0	3319	56.4
Axis	5319NRX	RR2X	5.3	2-Oct	1.4	37.7	2	2.0	2953	55.6
Virginia Tech	V14-2116	CONV	5.2	3-Oct	1.6	29.7	1	2.0	3872	55.3
NK	S53-F7X	RR2/Extend	5.3	29-Sep	1.3	37.7	1	2.0	3486	54.3
Local Seed	LS5087X	RR2X	5.0	28-Sep	1.5	36.7	1	2.0	3489	53.4
Armor Seed	51-D77	RR2X	5.1	4-Oct	1.3	35.7	1	2.0	3930	53.1
Virginia Tech	V16-0725PR	CONV	5.1	13-Oct	1.6	37.0	1	2.0	3973	47.2
Virginia Tech	V16-1672RLP	RR	5.3	6-Oct	1.9	38.0	2	2.0	4020	32.0
LSD P=.10				2.8	0.3	3.4	1.1	---	209	6.4
CV				6.3	14.8	6.8	49	---	4.2	8.2
Grand Mean				2-Oct	1.6	36.5	1.5	2.0	3640	56.7

Table 6f. Performance of double-crop early maturity group V entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
Southern Harvest	SH 5215 LL	LL	5.2		1.1	27.7	1	2.0	3216	50.5
Asgrow	AG55X7	RR2X	5.5		1.0	29.0	1	3.0	3547	48.6
Progeny	P5226RYS	R2Y/STS	5.2		1.2	28.3		3.0	2877	48.4
Local Seed	LS5087X	RR2X	5.0		1.2	29.3		2.0	3141	47.3
Dyna-Gro	S52RS86	RR2Y/STS	5.2		1.1	31.0		2.0	2803	46.6
Local Seed	LS5386X	RR2X	5.3		1.0	29.0	1	3.0	2989	45.9
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0		1.3	31.3		2.0	3191	45.1
Dyna-Gro	S52XS39	Xtend/STS	5.2		1.1	25.3		2.0	3460	45.0
Axis	5319NRX	RR2X	5.3		1.1	27.3		3.0	3015	44.6
Virginia Tech	V15-2261ST	STS	5.3		1.1	30.0		2.0	3229	43.4
Credenz	CZ 5150 LL	LL	5.1		1.1	24.3	1	2.0	3268	43.3
Progeny	P5211E3	Enlist	5.2		1.0	23.3		2.0	3069	43.3
Progeny	P5170RX	R2X	5.1		1.1	29.0		2.0	3140	43.1
Asgrow	AG52X9	RR2X/SR	5.2		1.0	28.0		2.0	3082	42.5
Progeny	P5252RX	R2X	5.2		1.0	23.3		2.0	3397	42.3
Virginia Tech	V14-2116	CONV	5.2		1.4	29.0	2	2.0	3372	42.3
Pioneer	P51A61X	RR2X	5.1		1.3	31.0		2.0	3729	42.0
Progeny	P5016RXS	R2X, STS	5.0		1.0	29.3		2.0	3086	41.9
Virginia Tech	V15-1861	CONV	5.2		1.3	30.0		2.0	3331	41.7
Virginia Tech	V16-0709PR	CONV	5.4		1.3	27.3		3.0	2737	41.6
USG	7529XTS	RRXT	5.2		1.1	24.0		2.0	3458	41.4
Public	Corbin	GT	5.3		1.3	26.7		2.0	3487	40.9
Virginia Tech	V16-0725PR	CONV	5.1		1.3	28.0		2.0	3486	40.8
Virginia Tech	V16-1672RLP	RR	5.3		1.1	28.6		2.7	3375	40.4
Progeny	P5554RX	R2X	5.4		1.3	28.0		3.0	3148	39.1
Progeny	P5414LLS	LL, STS	5.4		1.7	37.3	1	3.0	2949	37.6
LSD P=.10					0.2	2.9	---	0.2	147	4.8
CV					13.8	7.6	---	4.9	3.3	8.1
Grand Mean					1.2	28.3	0.5	2.3	3215	43.4

Table 6g. Performance of double-crop early maturity group V entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		
Dyna-Gro	S52RS86	RR2Y/STS	5.2		1.5	36.3	0	2.0	2205	79.0
Progeny	P5226RYS	R2Y/STS	5.2		1.0	32.3		2.0	2201	75.6
Credenz	CZ 5150 LL	LL	5.1		1.0	33.3	2	2.0	2495	75.1
Southern Harvest	SH 5215 LL	LL	5.2		1.0	33.7		2.0	2590	70.5
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0		1.0	36.0		2.0	2451	69.5
Progeny	P5211E3	Enlist	5.2		1.0	28.7	2	2.3	2501	69.3
Asgrow	AG55X7	RR2X	5.5		1.0	28.3		2.0	2606	68.9
Progeny	P5170RX	R2X	5.1		1.5	34.7		2.0	2500	67.5
Progeny	P5016RXS	R2X, STS	5.0		1.2	33.0	2	2.3	2482	66.8
Progeny	P5554RX	R2X	5.4		1.0	30.3		2.0	2197	66.6
Local Seed	LS5087X	RR2X	5.0		1.0	35.7	1	2.0	2520	66.5
Axis	5319NRX	RR2X	5.3		1.2	34.0		2.0	2505	66.3
Local Seed	LS5386X	RR2X	5.3		1.0	34.7	2	2.0	2392	66.3
Virginia Tech	V16-0709PR	CONV	5.4		1.0	33.7	1	2.0	2061	65.7
Virginia Tech	V15-1861	CONV	5.2		1.5	27.3		2.0	2038	64.9
Virginia Tech	V14-2116	CONV	5.2		1.8	25.3		2.0	2787	64.5
Pioneer	P51A61X	RR2X	5.1		1.0	29.7		2.0	2817	64.0
Asgrow	AG52X9	RR2X/SR	5.2		1.0	32.0	1	2.0	2455	62.7
Dyna-Gro	S52XS39	Xtend/STS	5.2		1.0	32.7		2.0	2716	62.6
Virginia Tech	V16-0725PR	CONV	5.1		1.0	30.0		2.0	2553	62.5
USG	7529XTS	RRXT	5.2		1.0	31.3		2.0	2640	62.1
Virginia Tech	V15-2261ST	STS	5.3		1.2	30.3		2.0	2542	61.3
Progeny	P5252RX	R2X	5.2		1.0	28.3	0	2.0	2637	60.0
Public	Corbin	GT	5.3		1.0	25.3	1	2.0	2681	59.0
Progeny	P5414LLS	LL, STS	5.4		2.0	32.3		2.0	2546	58.2
Virginia Tech	V16-1672RLP	RR	5.3		1.0	28.0	1	2.0	2581	56.6
LSD P=.10					0.3	3.5	2.6	0.2	140	7.9
CV					21.9	8.1	41	7.8	4.1	8.8
Grand Mean					1.1	31.4	1.2	2.0	2488	65.8

Table 6h. Performance of double-crop early maturity group V entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Local Seed	LS5087X	RR2X	5.0		1.0	21.3	2	2.0	3104	49.2
USG	7529XTS	RRXT	5.2		1.0	26.0		2.0	3418	47.8
Dyna-Gro	S52XS39	Xtend/STS	5.2		1.0	22.9	0	2.0	3534	42.9
Progeny	P5226RYS	R2Y/STS	5.2		1.0	31.0	2	2.0	3021	41.5
Virginia Tech	V16-0709PR	CONV	5.4		1.0	25.6		2.0	2794	41.2
Public	Corbin	GT	5.3		1.3	28.7		2.0	3953	40.3
Pioneer	P51A61X	RR2X	5.1		1.0	28.3	1	2.0	3905	39.6
Local Seed	LS5386X	RR2X	5.3		1.0	25.9	2	2.5	3016	39.5
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0		1.0	25.7	1.2	2.0	3460	39.0
Credenz	CZ 5150 LL	LL	5.1		1.0	25.7		2.0	3209	38.6
Asgrow	AG52X9	RR2X/SR	5.2		1.0	23.0		2.3	3358	37.5
Southern Harvest	SH 5215 LL	LL	5.2		1.0	30.0		2.0	3333	37.1
Dyna-Gro	S52RS86	RR2Y/STS	5.2		1.0	26.0	2	2.0	3254	37.0
Asgrow	AG55X7	RR2X	5.5		1.0	29.7		2.0	3635	36.7
Virginia Tech	V14-2116	CONV	5.2		1.0	34.1	2	2.0	4137	36.6
Progeny	P5016RXS	R2X, STS	5.0		1.0	26.7	2	2.0	3777	35.9
Progeny	P5252RX	R2X	5.2		1.0	24.0	0	2.0	3441	35.7
Virginia Tech	V15-1861	CONV	5.2		1.0	29.3	1	2.0	3751	35.4
Progeny	P5414LLS	LL, STS	5.4		1.7	42.3		2.0	3127	35.3
Progeny	P5211E3	Enlist	5.2		1.0	20.0	2	2.0	3317	34.1
Axis	5319NRX	RR2X	5.3		1.0	14.7	0	2.0	3287	33.1
Progeny	P5554RX	R2X	5.4		1.2	32.0	2	2.0	3458	32.6
Virginia Tech	V16-1672RLP	RR	5.3		1.0	27.7	2	2.7	3588	32.0
Progeny	P5170RX	R2X	5.1		1.0	23.0		2.0	3661	30.1
Virginia Tech	V15-2261ST	STS	5.3		1.0	28.9	1	2.5	3519	28.8
Virginia Tech	V16-0725PR	CONV	5.1		1.0	21.0		2.0	4149	28.0
LSD P=.10					0.2	6.1	2.3	0.3	279	6.9
CV					16.7	16.6	69	10.8	5.9	13.7
Grand Mean					1.0	26.7	1.8	2.1	3472	37.1

Table 6i. Performance of double-crop early maturity group V entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
Southern Harvest	SH 5215 LL	LL	5.2	25-Oct		20.7	1	2.0	3200	45.3
Credenz	CZ 5150 LL	LL	5.1	28-Oct		19.8		2.0	3318	42.0
USG	7529XTS	RRXT	5.2	27-Oct		16.7	1	2.0	3432	40.2
Progeny	P5414LLS	LL, STS	5.4	31-Oct		17.3		3.0	2961	38.8
Virginia Tech	V14-2116	CONV	5.2	25-Oct		18.3		2.0	2853	38.4
Progeny	P5226RYS	R2Y/STS	5.2	29-Oct		19.7	2	2.0	2739	36.4
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0	27-Oct		17.0	1	2.0	3041	36.1
Dyna-Gro	S52XS39	Xtend/STS	5.2	28-Oct		19.3	1	2.0	3101	35.8
Asgrow	AG55X7	RR2X	5.5	25-Oct		14.7		2.0	2875	35.8
Axis	5319NRX	RR2X	5.3	24-Oct		20.3	1	2.0	3095	35.4
Virginia Tech	V16-1672RLP	RR	5.3	28-Oct		19.0	1	2.0	3141	35.4
Progeny	P5252RX	R2X	5.2	28-Oct		17.3	3	2.0	3220	34.9
Virginia Tech	V15-2261ST	STS	5.3	25-Oct		15.3	1	2.0	3034	34.9
Dyna-Gro	S52RS86	RR2Y/STS	5.2	27-Oct		15.2	4	2.0	2878	34.4
Local Seed	LS5386X	RR2X	5.3	28-Oct		15.7		2.0	2864	33.3
Local Seed	LS5087X	RR2X	5.0	24-Oct		17.7	1	2.0	2868	32.9
Progeny	P5170RX	R2X	5.1	28-Oct		18.0	1	2.0	3096	32.4
Asgrow	AG52X9	RR2X/SR	5.2	28-Oct		17.3	1	2.0	2800	30.8
Virginia Tech	V16-0709PR	CONV	5.4	28-Oct		18.3	1	2.7	2760	30.4
Pioneer	P51A61X	RR2X	5.1	25-Oct		14.7		2.0	3256	29.4
Virginia Tech	V16-0725PR	CONV	5.1	21-Oct		13.0		2.0	3068	29.2
Progeny	P5016RXS	R2X, STS	5.0	27-Oct		18.7		2.0	3126	28.4
Progeny	P5211E3	Enlist	5.2	27-Oct		15.7	2	2.0	3018	27.9
Progeny	P5554RX	R2X	5.4	29-Oct		14.7	2	2.0	2692	27.2
Public	Corbin	GT	5.3	24-Oct		12.7	1	2.0	3139	26.9
Virginia Tech	V15-1861	CONV	5.2	25-Oct		11.7		2.0	2925	25.2
LSD P=.10				2.6		4.3	1.6	0.2	220	6.1
CV				3.3		18.9	69	5.6	5.3	13.3
Grand Mean				26-Oct		16.8	1.5	2.1	3014	33.5

Table 6j. Performance of double-crop early maturity group V entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		
Hubner Seed	H50-10R2X	RR2Y/ Xtend/SR	5.0	16-Oct	1.6	41.0		2.0	3756	39.6
Dyna-Gro	S52RS86	RR2Y/STS	5.2	17-Oct	1.6	37.3	1	2.0	3507	36.6
Asgrow	AG55X7	RR2X	5.5	14-Oct	1.7	34.7		2.0	4248	36.2
Asgrow	AG52X9	RR2X/SR	5.2	13-Oct	1.3	37.0	1	2.0	3808	36.0
Local Seed	LS5087X	RR2X	5.0	14-Oct	1.5	37.0		2.0	3709	35.9
Progeny	P5170RX	R2X	5.1	13-Oct	1.4	38.3		2.0	3831	35.9
Progeny	P5016RXS	R2X, STS	5.0	15-Oct	1.3	39.0	2	2.0	4072	35.8
Credenz	CZ 5150 LL	LL	5.1	17-Oct	1.4	36.7		2.0	3915	35.8
Progeny	P5211E3	Enlist	5.2	13-Oct	1.4	33.7		2.0	3785	35.2
Local Seed	LS5386X	RR2X	5.3	17-Oct	1.3	35.0		2.0	3714	34.8
Southern Harvest	SH 5215 LL	LL	5.2	16-Oct	1.8	36.7	1	2.0	4182	34.5
Progeny	P5226RYS	R2Y/STS	5.2	16-Oct	1.5	36.7	2	2.0	3496	34.3
Public	Corbin	GT	5.3	15-Oct	2.6	36.7		2.0	3950	34.2
Virginia Tech	V15-1861	CONV	5.2	16-Oct	2.1	34.3		2.0	3858	33.5
Axis	5319NRX	RR2X	5.3	16-Oct	1.7	35.7		2.0	3662	33.5
Virginia Tech	V16-0709PR	CONV	5.4	14-Oct	1.8	35.3		2.0	3370	31.9
Pioneer	P51A61X	RR2X	5.1	16-Oct	1.3	37.3		2.0	4398	31.6
Dyna-Gro	S52XS39	Xtend/STS	5.2	17-Oct	1.4	35.0		2.0	4367	31.5
USG	7529XTS	RRXT	5.2	18-Oct	1.4	34.7	1	2.0	4360	31.5
Progeny	P5414LLS	LL, STS	5.4	22-Oct	1.9	41.0	1	2.0	3268	31.4
Virginia Tech	V15-2261ST	STS	5.3	18-Oct	1.9	36.7	2	2.0	3893	31.1
Progeny	P5252RX	R2X	5.2	18-Oct	1.3	33.3	1	2.0	4219	30.8
Progeny	P5554RX	R2X	5.4	18-Oct	1.8	35.0		2.0	3817	30.2
Virginia Tech	V16-1672RLP	RR	5.3	18-Oct	2.2	37.0	1	2.0	3915	30.0
Virginia Tech	V16-0725PR	CONV	5.1	13-Oct	1.6	36.0		2.0	4284	28.0
Virginia Tech	V14-2116	CONV	5.2	15-Oct	2.8	37.3	1	2.0	4230	26.1
LSD P=.10				3.2	0.4	2.6	1.8	---	171	4.2
CV				5.0	18.9	5.1	72	---	3.2	9.2
Grand Mean				16-Oct	1.7	36.5	1.3	2	3908	33.3

Table 7a. Performance of full-season late maturity group V entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		
NK	S57-A7X	RR2/Extend	5.7		1.2	23.7		2.0	2792	76.9
Local Seed	LS5588X	RR2X	5.5		1.3	38.7	1	2.0	2809	73.0
Virginia Tech	V15-1872	CONV	5.7		1.3	33.7		2.0	2555	70.5
USG	5618V	CONV	5.6		1.2	32.7		2.0	3022	70.3
Dyna-Gro	S58RY78	RR2Y	5.8		1.0	27.7		2.0	2993	69.6
Pioneer	P55A49X	RR2X	5.5		1.2	30.7		2.0	3223	69.3
Armor Seed	X58D70	RR2X	5.8		1.0	32.7		2.0	2960	69.0
Axis	5519NRX	RR2X	5.5		1.0	35.0	1	2.0	2831	68.9
USG	75B75R	RR2Y	5.7		1.3	38.0		2.0	2843	68.9
Southern Harvest	SH 5515 LL	LL	5.5		1.2	37.3		2.0	3034	68.4
MorSoy	MS 5607 RXT	RXT	5.6		2.0	37.3		2.0	2867	68.4
Dyna-Gro	S56XT99	Xtend	5.6		1.7	39.7		2.0	2712	68.1
Asgrow	AG55X0	RR2X/SR	5.5		1.5	35.3	0	2.0	2982	68.0
Armor Seed	55-D57	RR2X	5.5		1.3	37.7		2.0	2819	67.8
Asgrow	AG55X7	RR2X	5.5		1.0	30.3		2.0	3124	67.8
Credenz	CZ 5700X	Xtend	5.7		1.8	38.0	2	2.0	2846	67.5
Credenz	CZ 5859 LL	LL	5.8		1.7	33.3		2.0	2885	66.6
Virginia Tech	V15-1815DI	CONV	5.6		1.7	33.0		2.0	2602	64.6
Virginia Tech	V14-0988	CONV	5.6		1.7	34.3	3	2.0	2603	64.4
Asgrow	AG56X8	RR2X	5.6		1.2	35.3	3	2.0	2897	62.4
Credenz	CZ 5515 LL	LL	5.5		1.7	44.7	0	2.0	2851	62.2
Seed Consultants	SC 8570X	RR2/Xtend	5.7		2.7	40.0	1	2.0	3026	61.8
Univ of Missouri	S15-10434C	CONV	5.5		2.8	32.0	0	2.0	3137	61.6
Univ of Missouri	S13-1955C	CONV	5.5		2.7	33.7	2	2.0	3193	60.6
Seed Consultants	SC 9578R	RR	5.7		3.2	31.3		2.0	2710	58.3
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6		1.3	36.3		2.0	2551	56.7
LSD P=.10					0.7	6.3	5.2	---	133	8.0
CV					33.5	13.2	54	---	3.4	8.8
Grand Mean					1.6	34.7	1.9	2	2880	66.6

Table 7b. Performance of full-season late maturity group V entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Asgrow	AG55X0	RR2X/SR	5.5		1.2	38.3		2.0	2590	78.4
Seed Consultants	SC 9578R	RR	5.7		3.2	39.7		2.0	2561	73.2
Univ of Missouri	S13-1955C	CONV	5.5		2.0	33.0		2.0	2754	71.8
Pioneer	P55A49X	RR2X	5.5		1.0	29.3		2.0	2917	70.7
Credenz	CZ 5859 LL	LL	5.8		1.7	31.3		2.0	2491	70.3
Seed Consultants	SC 8570X	RR2/Xtend	5.7		1.2	36.3	2	2.0	2412	68.9
Virginia Tech	V15-1872	CONV	5.7		1.2	35.5		2.0	2289	68.6
Axis	5519NRX	RR2X	5.5		1.4	32.9		2.0	2350	68.1
Asgrow	AG56X8	RR2X	5.6		1.2	33.3		2.0	2411	68.0
USG	75B75R	RR2Y	5.7		1.5	24.3		2.0	2590	68.0
Credenz	CZ 5700X	Xtend	5.7		1.0	36.7		2.0	2553	67.8
Univ of Missouri	S15-10434C	CONV	5.5		2.0	30.5		2.0	3090	67.5
Armor Seed	55-D57	RR2X	5.5		1.0	32.7		2.0	2786	66.7
Asgrow	AG55X7	RR2X	5.5		1.0	32.3		2.0	2676	66.6
Armor Seed	X58D70	RR2X	5.8		1.0	34.0		2.0	2482	65.0
NK	S57-A7X	RR2/Extend	5.7		1.2	35.0		2.0	2447	64.8
Dyna-Gro	S58RY78	RR2Y	5.8		1.0	32.7		2.0	2741	63.7
Virginia Tech	V15-1815DI	CONV	5.6		1.2	34.7		2.0	2376	63.2
USG	5618V	CONV	5.6		1.3	32.0		2.0	2555	62.8
Local Seed	LS5588X	RR2X	5.5		0.9	34.0		2.0	2307	62.6
Dyna-Gro	S56XT99	Xtend	5.6		1.2	34.3		2.0	2318	62.0
Credenz	CZ 5515 LL	LL	5.5		2.7	45.3		2.0	2334	61.5
MorSoy	MS 5607 RXT	RXT	5.6		1.3	36.3		2.0	2411	60.7
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6		1.2	36.0		2.0	2357	60.4
Virginia Tech	V14-0988	CONV	5.6		1.3	32.3		2.0	2513	60.1
Southern Harvest	SH 5515 LL	LL	5.5		1.3	40.0		2.0	2840	57.8
LSD P=.10					0.6	6.5	---	---	87	10.9
CV					30.0	13.9	---	---	2.5	12.0
Grand Mean					1.4	34.4	2.0	2.0	2546	66.0

Table 7c. Performance of full-season late maturity group V entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		Seed Size (Seed/lb)
Dyna-Gro	S58RY78	RR2Y	5.8		1.7	37.0		2.0	3198	72.2
Credenz	CZ 5859 LL	LL	5.8		4.0	54.8		2.0	2863	69.7
Asgrow	AG55X0	RR2X/SR	5.5		2.0	41.3		2.0	3260	67.8
Seed Consultants	SC 8570X	RR2/Xtend	5.7		3.3	42.0	1	2.0	3202	67.8
Virginia Tech	V15-1815DI	CONV	5.6		3.3	42.0		2.0	2969	66.9
MorSoy	MS 5607 RXT	RXT	5.6		3.0	44.7		2.0	2781	66.6
Virginia Tech	V15-1872	CONV	5.7		3.8	50.3		2.0	2652	66.3
Asgrow	AG55X7	RR2X	5.5		2.5	29.7		2.0	3148	66.0
Pioneer	P55A49X	RR2X	5.5		2.5	28.3	1	2.0	3661	65.7
Asgrow	AG56X8	RR2X	5.6		2.3	44.7	1	2.0	2652	65.7
Seed Consultants	SC 9578R	RR	5.7		4.2	44.7		2.0	2929	65.1
USG	5618V	CONV	5.6		3.3	41.0		2.0	2994	63.8
Virginia Tech	V14-0988	CONV	5.6		3.0	42.7		2.0	2930	63.4
Univ of Missouri	S15-10434C	CONV	5.5		3.7	41.7	1	2.0	3547	63.2
Univ of Missouri	S13-1955C	CONV	5.5		3.3	48.0	1	2.0	3860	62.9
USG	75B75R	RR2Y	5.7		2.8	48.7		2.0	3013	61.2
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6		3.2	44.3		2.0	2763	60.6
Armor Seed	X58D70	RR2X	5.8		3.3	46.7		2.0	3193	60.3
Armor Seed	55-D57	RR2X	5.5		2.5	44.3		2.0	2759	60.1
Dyna-Gro	S56XT99	Xtend	5.6		1.7	42.0		2.0	2714	59.0
Southern Harvest	SH 5515 LL	LL	5.5		2.0	46.0		2.0	3442	58.9
Local Seed	LS5588X	RR2X	5.5		2.5	40.7		2.0	2975	58.3
NK	S57-A7X	RR2/Extend	5.7		3.2	48.0		2.0	3040	56.4
Credenz	CZ 5700X	Xtend	5.7		2.2	43.0		2.0	3331	55.4
Credenz	CZ 5515 LL	LL	5.5		3.2	47.0	1	2.0	2948	55.1
Axis	5519NRX	RR2X	5.5		2.5	41.8		2.0	2897	53.4
LSD P=.10					0.8	10.1	---	---	271	11.4
CV					20.7	17.1	---	---	6.4	13.3
Grand Mean					2.9	43.1	0.4	2.0	3073	62.8

Table 7d. Performance of full-season late maturity group V entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Credenz	CZ 5859 LL	LL	5.8	15-Oct		33.7		2.0	2952	80.8
Seed Consultants	SC 8570X	RR2/Xtend	5.7	18-Oct		39.3		2.7	3042	80.5
Pioneer	P55A49X	RR2X	5.5	21-Oct		18.7	1	2.7	3254	79.3
Local Seed	LS5588X	RR2X	5.5	21-Oct		34.0	1	3.0	2656	78.4
Asgrow	AG56X8	RR2X	5.6	22-Oct		32.7		2.7	2677	75.1
Axis	5519NRX	RR2X	5.5	19-Oct		31.3	2	3.0	2803	75.0
Univ of Missouri	S13-1955C	CONV	5.5	18-Oct		32.0	2	2.3	3199	72.5
Dyna-Gro	S56XT99	Xtend	5.6	22-Oct		38.0		2.1	2659	72.4
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6	15-Oct		30.7		2.3	2736	71.0
Virginia Tech	V14-0988	CONV	5.6	17-Oct		34.7		2.0	2717	70.6
Virginia Tech	V15-1815DI	CONV	5.6	16-Oct		29.0	1	2.7	2614	70.5
Armor Seed	X58D70	RR2X	5.8	14-Oct		45.7		2.0	2954	69.9
Dyna-Gro	S58RY78	RR2Y	5.8	22-Oct		28.7		1.9	3018	69.8
USG	5618V	CONV	5.6	19-Oct		31.3		2.0	2835	69.5
Credenz	CZ 5700X	Xtend	5.7	17-Oct		38.7		2.0	2850	69.1
MorSoy	MS 5607 RXT	RXT	5.6	17-Oct		34.3	2	2.0	2893	69.0
Seed Consultants	SC 9578R	RR	5.7	16-Oct		30.7		2.7	2857	67.7
NK	S57-A7X	RR2/Extend	5.7	16-Oct		34.7		2.0	2956	66.7
Armor Seed	55-D57	RR2X	5.5	18-Oct		40.0		2.7	2793	64.3
Southern Harvest	SH 5515 LL	LL	5.5	15-Oct		47.3	1	2.0	3082	64.3
Virginia Tech	V15-1872	CONV	5.7	15-Oct		28.0		3.0	2548	63.8
Asgrow	AG55X0	RR2X/SR	5.5	17-Oct		32.0		2.6	2912	63.6
Credenz	CZ 5515 LL	LL	5.5	16-Oct		50.2		2.5	2842	63.6
USG	75B75R	RR2Y	5.7	16-Oct		25.0		2.1	2766	63.6
Univ of Missouri	S15-10434C	CONV	5.5	15-Oct		30.7	1	2.3	3047	56.9
Asgrow	AG55X7	RR2X	5.5	16-Oct		28.7	1	2.7	2706	53.1
LSD P=.10				4.5		7.0	---	0.6	239	10.3
CV				6.8		15.3	---	16.9	6.1	10.8
Grand Mean				17-Oct		33.5	0.5	2.4	2862	69.4

Table 7e. Performance of full-season late maturity group V entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Pioneer	P55A49X	RR2X	5.5	5-Oct	1.3	30.0		2.0	4174	58.2
Asgrow	AG55X7	RR2X	5.5	2-Oct	1.2	30.7		2.0	4034	55.5
USG	5618V	CONV	5.6	4-Oct	1.5	33.7		2.0	3671	55.0
Seed Consultants	SC 9578R	RR	5.7	2-Oct	1.7	25.3	1	2.0	3715	53.1
Virginia Tech	V15-1872	CONV	5.7	4-Oct	1.3	32.3		2.0	3283	52.5
Univ of Missouri	S13-1955C	CONV	5.5	5-Oct	1.8	33.0		2.0	3938	52.0
USG	75B75R	RR2Y	5.7	6-Oct	1.4	37.7	2	2.0	3684	50.8
Dyna-Gro	S58RY78	RR2Y	5.8	8-Oct	1.3	27.0		2.0	4060	50.1
Southern Harvest	SH 5515 LL	LL	5.5	2-Oct	1.4	37.0	1	2.0	3884	49.9
NK	S57-A7X	RR2/Extend	5.7	13-Oct	1.3	34.3	1	2.0	3903	48.0
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6	7-Oct	1.4	34.7		2.0	3186	47.4
Virginia Tech	V15-1815DI	CONV	5.6	5-Oct	1.3	28.7		2.0	3510	47.3
Credenz	CZ 5859 LL	LL	5.8	5-Oct	1.5	34.3		2.0	3743	47.0
Asgrow	AG56X8	RR2X	5.6	4-Oct	1.2	33.0		2.0	3556	46.8
Armor Seed	55-D57	RR2X	5.5	6-Oct	1.4	33.3	1	2.0	3533	46.3
Armor Seed	X58D70	RR2X	5.8	13-Oct	1.6	37.7		2.0	4149	45.6
Dyna-Gro	S56XT99	Xtend	5.6	6-Oct	1.3	31.0		2.0	3491	45.5
Univ of Missouri	S15-10434C	CONV	5.5	5-Oct	1.5	29.3		2.0	4091	44.7
Credenz	CZ 5515 LL	LL	5.5	4-Oct	1.8	47.7		2.0	3589	44.2
Axis	5519NRX	RR2X	5.5	5-Oct	1.3	32.3		2.0	3350	43.9
Local Seed	LS5588X	RR2X	5.5	5-Oct	1.3	31.7	2	2.0	3493	43.8
Credenz	CZ 5700X	Xtend	5.7	13-Oct	1.6	36.7		2.0	4112	42.4
MorSoy	MS 5607 RXT	RXT	5.6	4-Oct	1.2	32.0		2.0	3654	42.2
Virginia Tech	V14-0988	CONV	5.6	2-Oct	1.3	30.0	2	2.0	3485	39.6
Asgrow	AG55X0	RR2X/SR	5.5	3-Oct	1.5	34.7		2.0	3930	38.6
Seed Consultants	SC 8570X*	RR2/Xtend	5.7	4-Oct	1.7	37.7	1	2.0	3745	
LSD P=.10				1.7	0.2	2.2	---	---	196	6.8
CV				3.5	9.0	4.9	---	---	3.8	10.5
Grand Mean				5-Oct	1.4	33.1	0.6	2.0	3729	47.6

*Variety not received prior to planting

Table 7f. Performance of double-crop late maturity group V entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Virginia Tech	V15-1815DI	CONV	5.6		1.3	36.3		2.0	3049	47.5
Asgrow	AG55X0	RR2X/SR	5.5		1.3	37.7	1	2.0	3502	45.9
Asgrow	AG55X7	RR2X	5.5		1.0	31.0		2.0	3531	45.6
Dyna-Gro	S56XT99	Xtend	5.6		1.0	34.0		2.0	3020	45.5
Univ of Missouri	S15-10434C	CONV	5.5		1.2	30.0	2	2.0	3283	44.8
Virginia Tech	V14-0988	CONV	5.6		1.2	34.3		2.0	3079	44.5
Pioneer	P55A49X	RR2X	5.5		1.0	29.7		2.0	3708	44.4
Virginia Tech	V15-1872	CONV	5.7		1.0	38.0		2.0	3062	44.3
USG	5618V	CONV	5.6		1.0	35.7		2.0	3325	43.5
Credenz	CZ 5859 LL	LL	5.8		1.0	34.7	3	2.0	3275	43.4
Progeny	P5688RX	R2X	5.6		1.0	33.3	1	2.0	3350	43.0
Credenz	CZ 5515 LL	LL	5.5		1.0	33.0	1	2.0	3298	42.5
Axis	5519NRX	RR2X	5.5		1.0	33.0	1	2.0	3061	41.7
MorSoy	MS 5607 RXT	RXT	5.6		1.0	34.0	1	2.0	3233	41.7
Dyna-Gro	S58RY78	RR2Y	5.8		1.0	30.7		2.0	3287	40.8
USG	75B75R	RR2Y	5.7		1.2	37.7		2.0	3191	40.1
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6		1.0	33.7	1	2.0	2962	39.5
Asgrow	AG56X8	RR2X	5.6		1.0	32.7		2.0	3317	39.1
Univ of Missouri	S13-1955C	CONV	5.5		1.3	33.3		2.0	3659	38.7
LSD P=.10					0.2	2.7	---	---	197	4.7
CV					15.2	5.8	---	---	4.4	7.9
Grand Mean					1.1	33.8	0.6	2.0	3273	43.0

Table 7g. Performance of double-crop late maturity group V entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Pioneer	P55A49X	RR2X	5.5		0.9	25.3	1	2.0	2995	71.7
Dyna-Gro	S58RY78	RR2Y	5.8		1.0	32.0		2.3	2633	69.8
Asgrow	AG55X0	RR2X/SR	5.5		1.2	37.3		2.0	2677	67.2
Virginia Tech	V14-0988	CONV	5.6		0.9	28.8	1	2.0	2521	66.4
Virginia Tech	V15-1815DI	CONV	5.6		1.4	31.3		2.0	2282	66.1
Dyna-Gro	S56XT99	Xtend	5.6		0.9	27.3		2.0	2252	65.7
Asgrow	AG56X8	RR2X	5.6		0.9	26.8		2.0	2329	65.4
MorSoy	MS 5607 RXT	RXT	5.6		0.9	26.3		2.0	2456	65.4
Axis	5519NRX	RR2X	5.5		1.2	28.3	1	2.0	2263	63.0
Asgrow	AG55X7	RR2X	5.5		1.2	25.8		2.0	2650	62.3
Credenz	CZ 5859 LL	LL	5.8		0.9	22.8		2.0	2480	61.4
Credenz	CZ 5515 LL	LL	5.5		1.8	36.7	2	2.0	2314	61.0
Virginia Tech	V15-1872	CONV	5.7		1.9	25.3		2.0	2294	61.0
USG	75B75R	RR2Y	5.7		1.4	28.8		2.0	2375	60.7
Progeny	P5688RX	R2X	5.6		0.9	25.3		2.0	2500	60.2
Univ of Missouri	S13-1955C	CONV	5.5		2.4	24.8		2.0	2814	59.6
USG	5618V	CONV	5.6		0.9	22.3		3.0	2591	57.7
Univ of Missouri	S15-10434C	CONV	5.5		1.4	23.8		2.0	2816	56.3
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6		1.4	23.8		2.0	2437	55.3
LSD P=.10					0.6	3.7	---	0.2	103	7.0
CV					29.6	9.1	---	6.4	3.0	8.0
Grand Mean					1.3	28.5	0.4	2.1	2509	63.0

Table 7h. Performance of double-crop late maturity group V entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)
							PSS (%)	Quality (1-5)	
USG	5618V	CONV	5.6		1.0	32.0	2.0	3522	41.1
Pioneer	P55A49X	RR2X	5.5		1.0	31.0	2	4557	40.7
Asgrow	AG55X7	RR2X	5.5		1.0	29.0	2.0	3882	39.4
USG	75B75R	RR2Y	5.7		1.0	34.7	2.0	3387	39.2
Axis	5519NRX	RR2X	5.5		1.0	33.7	2.0	3554	38.1
Virginia Tech	V15-1815DI	CONV	5.6		1.0	33.7	2	3344	36.7
Asgrow	AG56X8	RR2X	5.6		1.0	27.0	1	3809	35.3
Dyna-Gro	S56XT99	Xtend	5.6		1.0	33.3	2.0	3438	35.1
Credenz	CZ 5859 LL	LL	5.8		1.0	34.7	3	3593	33.9
Dyna-Gro	S58RY78	RR2Y	5.8		1.0	25.7	3	3625	33.9
Credenz	CZ 5515 LL	LL	5.5		1.0	30.7	2.0	3309	33.8
Progeny	P5688RX	R2X	5.6		1.0	33.3	2.0	3808	33.1
Univ of Missouri	S13-1955C	CONV	5.5		1.0	30.7	2	4479	33.0
Virginia Tech	V14-0988	CONV	5.6		1.0	33.0	3	3458	32.6
Asgrow	AG55X0	RR2X/SR	5.5		1.0	33.7	2.0	3972	32.5
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6		1.0	32.7	2.0	3437	32.3
Virginia Tech	V15-1872	CONV	5.7		1.0	31.3	2.0	3504	32.3
MorSoy	MS 5607 RXT	RXT	5.6		1.0	34.0	1	3713	30.1
Univ of Missouri	S15-10434C	CONV	5.5		1.0	27.7	2.0	4121	28.4
LSD P=.10					---	4.9	---	278	6.7
CV					---	11.2	---	5.44	14.0
Grand Mean					1.0	31.7	0.8	3711	34.8

Table 7i. Performance of double-crop late maturity group V entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
MorSoy	MS 5607 RXT	RXT	5.6	28-Oct	1.0	20.0		2.0	3091	47.0
Credenz	CZ 5859 LL	LL	5.8	2-Nov	1.0	20.7	1	2.0	2963	46.2
USG	5618V	CONV	5.6	28-Oct	1.0	19.7		2.0	3145	44.9
Progeny	P5688RX	R2X	5.6	28-Oct	1.0	20.7	1	2.0	2823	44.1
Asgrow	AG56X8	RR2X	5.6	28-Oct	1.0	18.7	2	2.0	3055	43.8
Dyna-Gro	S56XT99	Xtend	5.6	29-Oct	1.0	16.7		2.0	3096	42.5
Asgrow	AG55X0	RR2X/SR	5.5	25-Oct	1.0	21.0		2.0	3290	42.4
Axis	5519NRX	RR2X	5.5	1-Nov	1.0	20.0		2.0	2938	42.4
Virginia Tech	V15-1872	CONV	5.7	28-Oct	1.0	20.0		2.0	3146	42.1
Dyna-Gro	S58RY78	RR2Y	5.8	30-Oct	1.0	20.7		2.0	3120	41.2
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6	28-Oct	1.0	20.0		2.0	2833	40.0
Univ of Missouri	S13-1955C	CONV	5.5	28-Oct	1.0	18.3	1	2.0	3172	39.9
Pioneer	P55A49X	RR2X	5.5	27-Oct	1.0	15.7	2	2.3	3363	38.9
Virginia Tech	V15-1815DI	CONV	5.6	25-Oct	1.0	18.0	1	2.0	2741	38.3
Virginia Tech	V14-0988	CONV	5.6	27-Oct	1.0	17.7		2.0	2794	38.1
Univ of Missouri	S15-10434C	CONV	5.5	28-Oct	1.0	17.2		2.0	3034	35.6
USG	75B75R	RR2Y	5.7	24-Oct	1.0	19.3		2.0	3139	33.9
Asgrow	AG55X7	RR2X	5.5	25-Oct	1.0	15.3		2.0	3127	33.9
Credenz	CZ 5515 LL	LL	5.5	24-Oct	1.0	21.7	1	2.0	2875	30.5
LSD P=.10				4.1	---	3.7	---	0.2	279	7.1
CV				5.1	---	14.0	---	6.8	6.7	12.8
Grand Mean				27-Oct	1.0	19.0	0.5	2.0	3040	40.3

Table 7j. Performance of double-crop late maturity group V entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Asgrow	AG55X7	RR2X	5.5	16-Oct	1.7	34.7	1	2.0	4009	54.1
USG	5618V	CONV	5.6	18-Oct	2.3	37.3		2.0	3816	50.2
Virginia Tech	V15-1872	CONV	5.7	18-Oct	1.9	38.0	1	2.0	3652	49.8
Virginia Tech	V15-1815DI	CONV	5.6	18-Oct	2.3	38.3	2	2.0	3892	48.4
Dyna-Gro	S58RY78	RR2Y	5.8	21-Oct	1.7	34.0	1	2.0	4043	48.2
USG	75B75R	RR2Y	5.7	20-Oct	2.2	40.7	1	2.0	3633	47.2
Virginia Tech	V14-0988	CONV	5.6	18-Oct	2.3	38.0	1	2.0	3633	45.7
Univ of Missouri	S15-10434C	CONV	5.5	18-Oct	2.6	35.0		2.0	4426	45.0
Credenz	CZ 5515 LL	LL	5.5	15-Oct	1.9	39.7	1	2.0	3531	43.3
Pioneer	P55A49X	RR2X	5.5	18-Oct	1.6	33.0		2.0	4797	43.0
Progeny	P5688RX	R2X	5.6	18-Oct	2.2	37.3	1	2.0	3995	42.9
Credenz	CZ 5859 LL	LL	5.8	23-Oct	2.1	37.3	2	2.0	4008	42.7
Univ of Missouri	S13-1955C	CONV	5.5	18-Oct	2.9	35.7	1	2.0	4170	42.5
Asgrow	AG55X0	RR2X/SR	5.5	17-Oct	2.3	37.3	2	2.0	4410	42.2
Dyna-Gro	S56XT99	Xtend	5.6	18-Oct	1.8	38.3		2.0	3795	42.2
MorSoy	MS 5607 RXT	RXT	5.6	19-Oct	1.9	36.0		2.0	3983	42.2
Hubner Seed	H56-20R2X	RR2Y/ Xtend/SR	5.6	19-Oct	2.1	39.7		2.0	3683	41.7
Axis	5519NRX	RR2X	5.5	16-Oct	2.0	36.7	2	2.0	3795	40.4
Asgrow	AG56X8	RR2X	5.6	17-Oct	1.8	37.7		2.0	4016	40.0
LSD P=.10				2.4	0.5	2.7	---	---	149	4.5
CV				3.6	16.7	5.3	---	---	2.7	7.3
Grand Mean				18-Oct	2.1	37.1	0.5	2.0	3962	44.8

Table 8a. Performance of full-season maturity group VI entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Armor Seed	62-D60	RR2X	6.2		1.8	34.3	1	2.0	3021	73.4
Credenz	CZ 6730 LL	LL	6.7		1.5	35.3		2.0	3071	70.0
Credenz	CZ 6770X	Xtend	6.7		1.0	32.3		2.0	3541	64.9
Credenz	CZ 6020X	Xtend	6.0		1.2	36.7	2	2.0	3192	62.7
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1		2.2	39.3		2.0	2843	61.8
Credenz	CZ 6109 LL	LL	6.1		2.7	36.7		2.0	2795	60.9
Credenz	CZ 6520 LL	LL	6.5		1.5	39.0		2.0	3040	60.7
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5		2.0	37.0		2.0	2974	60.1
Credenz	CZ 6260 LL	LL	6.2		1.5	32.0		2.0	2588	52.4
LSD P=.10					0.7	3.6	---	---	195	9.4
CV					27.8	7.0	---	---	4.5	10.4
Grand Mean					1.7	35.9	1.3	2.0	3007	63.0

Table 8b. Performance of full-season maturity group VI entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)
Armor Seed	62-D60	RR2X	6.2		1.5	32.7	2.0	2626	76.1
Credenz	CZ 6020X	Xtend	6.0		1.2	30.7	2.0	3199	74.9
Credenz	CZ 6730 LL	LL	6.7		1.0	34.3	2.0	2752	72.5
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1		1.3	33.7	2.0	2532	72.4
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5		1.3	33.7	2.0	2551	71.7
Credenz	CZ 6109 LL	LL	6.1		1.5	35.3	2.0	2491	69.2
Credenz	CZ 6770X	Xtend	6.7		1.2	32.7	2.0	2913	67.3
Credenz	CZ 6520 LL	LL	6.5		1.0	36.7	2.0	2671	65.9
Credenz	CZ 6260 LL	LL	6.2		1.0	28.0	2.0	2500	63.1
LSD P=.10					0.5	2.9	---	105	7.5
CV					26.0	6.1	---	2.7	7.5
Grand Mean					1.2	33.1	2.0	2693	70.3

Table 8c. Performance of full-season maturity group VI entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5		3.7	46.0	2.0	3450	61.1
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1		3.5	47.3	2.0	3355	60.3
Armor Seed	62-D60	RR2X	6.2		2.3	49.3	2.0	3374	59.7
Credenz	CZ 6770X	Xtend	6.7		1.7	46.0	2.0	3765	57.7
Credenz	CZ 6520 LL	LL	6.5		3.3	53.3	2.0	3460	54.6
Credenz	CZ 6109 LL	LL	6.1		3.7	33.0	2.0	3425	54.3
Credenz	CZ 6730 LL	LL	6.7		2.3	43.7	2.0	3797	49.7
Credenz	CZ 6260 LL	LL	6.2		1.9	33.7	2.0	2927	48.9
Credenz	CZ 6020X	Xtend	6.0		1.7	44.0	2.0	3840	47.9
LSD P=.10					0.9	15.4	---	241	10.7
CV					22.6	24.5	---	4.9	13.6
Grand Mean					2.7	44.0	2.0	3488	54.9

Table 8d. Performance of full-season maturity group VI entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Yield (Bu/A)	
							PSS (%)	Quality (1-5)		
Credenz	CZ 6260 LL	LL	6.2	6-Oct	1.7	35.3		2.0	2757	69.6
Armor Seed	62-D60	RR2X	6.2	6-Oct	1.7	31.0		2.0	3372	69.0
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5	6-Oct	2.0	35.0		2.0	3057	68.6
Credenz	CZ 6109 LL	LL	6.1	6-Oct	2.8	41.0		2.0	2994	66.8
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1	6-Oct	2.2	38.7		2.0	3035	66.3
Credenz	CZ 6770X	Xtend	6.7	6-Oct	1.5	31.8		2.0	3943	65.8
Credenz	CZ 6730 LL	LL	6.7	6-Oct	2.5	37.3		2.0	3291	63.3
Credenz	CZ 6520 LL	LL	6.5	6-Oct	1.8	40.3	1	2.0	3221	62.7
Credenz	CZ 6020X	Xtend	6.0	6-Oct	1.7	35.0		2.0	3613	59.5
LSD P=.10				---	0.5	3.7	---	---	125	6.2
CV				---	17.1	7.1	---	---	2.7	6.6
Grand Mean				21-Oct	2.0	36.3	1.0	2.0	3228	65.7

Table 8e. Performance of full-season maturity group VI entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Credenz	CZ 6260 LL	LL	6.2	13-Feb	1.5	37.3		2.0	3146	55.2
Credenz	CZ 6730 LL	LL	6.7	19-Feb	1.4	39.0		2.0	4067	53.9
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5	14-Feb	1.3	39.3		2.0	3623	51.3
Armor Seed	62-D60	RR2X	6.2	17-Feb	1.4	36.0		2.0	3551	51.2
Credenz	CZ 6770X	Xtend	6.7	9-Feb	1.7	36.7		2.0	4697	51.0
Credenz	CZ 6109 LL	LL	6.1	13-Feb	1.7	41.0		2.0	3954	50.9
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1	13-Feb	1.4	41.0		2.0	3634	50.0
Credenz	CZ 6520 LL	LL	6.5	19-Feb	1.4	40.0	2	2.0	3684	46.8
Credenz	CZ 6020X	Xtend	6.0	18-Feb	1.5	40.0	2	2.0	4409	46.4
LSD P=.10				4.9	0.2	2.2	---	---	177	4.7
CV				7.5	9.3	4.0	---	---	3.22	6.5
Grand Mean				16-Oct	1.5	38.9	2.0	2.0	3863	50.8

Table 8f. Performance of double-crop maturity group VI entries at Blackstone VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed			Yield (Bu/A)
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)	
Progeny	P6461RX	R2X	6.4		1.0	34.7		2.0	3458	44.7
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5		1.0	36.0		2.0	3181	44.1
Credenz	CZ 6520 LL	LL	6.5		1.0	34.0		2.0	3063	44.0
Credenz	CZ 6730 LL	LL	6.7		1.0	33.3		2.0	3296	43.1
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1		1.0	34.4	1	2.0	3209	42.3
Credenz	CZ 6260 LL	LL	6.2		1.0	33.3		2.0	2972	42.2
Credenz	CZ 6109 LL	LL	6.1		1.0	35.3		2.0	3107	41.9
LSD P=.10					---	3.9	---	---	184	4.0
CV					---	7.8	---	---	3.9	6.2
Grand Mean					1.0	34.5	1.0	2.0	3182	43.3

Table 8g. Performance of double-crop maturity group VI entries at Eastern Shore VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1		1.3	35.3	2.0	2365	67.2
Credenz	CZ 6109 LL	LL	6.1		1.3	35.7	2.0	2447	66.9
Credenz	CZ 6730 LL	LL	6.7		2.0	32.0	2.0	2527	65.5
Progeny	P6461RX	R2X	6.4		2.5	36.3	2.0	2803	60.5
Credenz	CZ 6260 LL	LL	6.2		1.0	28.3	2.0	2357	59.5
Credenz	CZ 6520 LL	LL	6.5		1.2	37.0	2.0	2419	59.0
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5		1.7	35.3	2.0	2398	58.3
LSD P=.10					0.6	4.7	---	69	7.7
CV					26.1	9.4	---	1.9	8.4
Grand Mean					1.6	34.3	2.0	2474	62.4

Table 8h. Performance of double-crop maturity group VI entries at Orange VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Progeny	P6461RX	R2X	6.4		1.0	27.3			4031	33.4
Credenz	CZ 6730 LL	LL	6.7		1.0	23.3			3961	27.3
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1		1.0	28.3	1		3698	27.2
Credenz	CZ 6260 LL	LL	6.2		1.0	21.3	2		3476	27.0
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5		1.0	22.0			3974	26.4
Credenz	CZ 6520 LL	LL	6.5		1.0	24.3	2		3785	25.6
Credenz	CZ 6109 LL	LL	6.1		1.0	23.7	2	2.0	3743	25.0
LSD P=.10					---	9.9	---	---	234	6.9
CV					---	27.7	---	---	4.2	17.3
Grand Mean					1.0	24.4	0.8	2.0	3801	27.4

Table 8i. Performance of double-crop maturity group VI entries at Suffolk VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed			Yield (Bu/A)
							PSS (%)	Quality (1-5)	Seed Size (Seed/lb)	
Credenz	CZ 6520 LL	LL	6.5	1-Nov	1.0	21.0		2.0	3205	46.9
Progeny	P6461RX	R2X	6.4	28-Oct	1.0	21.3	1	2.0	3605	46.6
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5	28-Oct	1.0	20.3	2	2.0	3146	44.2
Credenz	CZ 6109 LL	LL	6.1	28-Oct	1.0	21.0		2.0	3041	44.0
Credenz	CZ 6730 LL	LL	6.7	1-Nov	1.0	19.0	2	2.0	3077	43.7
Credenz	CZ 6260 LL	LL	6.2	2-Nov	1.0	19.7		2.0	2961	43.5
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1	28-Oct	1.0	19.3	2	2.0	3103	43.3
LSD P=.10				1.0	---	2.4	---	---	84	4.7
CV				1.1	---	8.2	---	---	1.8	7.3
Grand Mean				29-Oct	1.0	20.2	0.7	2.0	3162	44.6

Table 8j. Performance of double-crop maturity group VI entries at Warsaw VA, 2019.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (in)	Seed		Seed Size (Seed/lb)	Yield (Bu/A)
							PSS (%)	Quality (1-5)		
Credenz	CZ 6260 LL	LL	6.2	27-Oct	2.1	40.7	1	2	3202	38.4
Credenz	CZ 6730 LL	LL	6.7	28-Oct	1.7	38.0	0	2	3735	35.2
Southern Harvest	SH 6515 LL/STS	LL/STS	6.5	25-Oct	2.1	39.3		2	3682	32.8
Southern Harvest	SH 6020 LL/STS	LL/STS	6.1	27-Oct	1.9	37.3		2	3539	32.5
Credenz	CZ 6109 LL	LL	6.1	22-Oct	1.9	43.0		2	3588	32.1
Credenz	CZ 6520 LL	LL	6.5	24-Oct	1.6	39.3	1	2	3627	30.6
Progeny	P6461RX	R2X	6.4	27-Oct	2.0	35.3	3	2	4204	28.8
LSD P=.10				2.2	0.5	3.7	2.6	---	186	5.1
CV				2.7	16.9	6.6	32	---	3.5	10.6
Grand Mean				26-Oct	1.9	39.0	1.6	2.0	3654	32.9



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