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VIRGINIA SOYBEAN PERFORMANCE TESTS 2018

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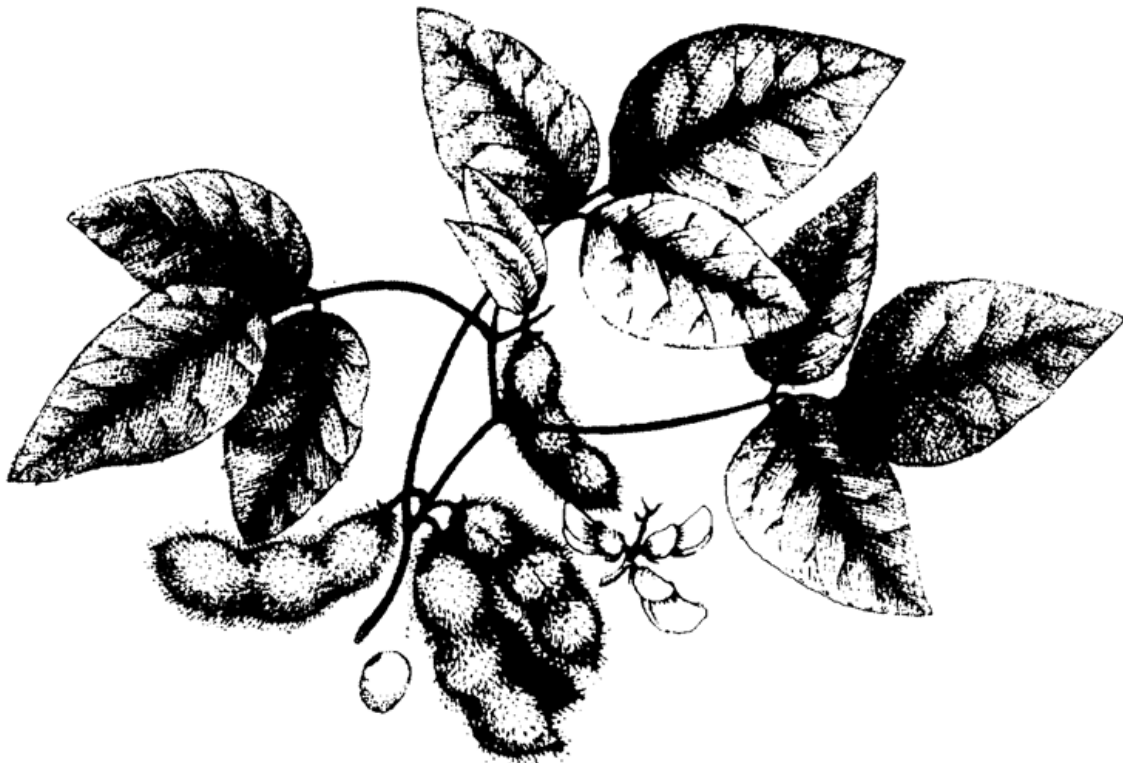
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All County Extension Agents for an excellent job of disseminating this information

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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.

The past year was one characterized by excessive rainfall throughout the season in most regions of Virginia, but every site experienced 2- to 4-week dry spell in late-June through July. Due to multiple rainfall events, especially in August and September, total incident radiation (sunlight) was low. Although average temperatures were not excessive, a much warmer than average fall (plus high rainfall) resulted in greater seed disease than usual; hence, very poor seed quality in the full-season early maturing varieties. Additionally, excessive rainfall events kept seed moisture high after maturity, preventing timely harvest and contributing to poor seed quality. Purple seed stain due to *Cercospora kikuchii* infection was also quite high in some locations. The lack of sunlight and probably excessive rainfall leading to shallow roots led to good yet lower yields than expected.

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 (Painter) regions of Virginia. All double-crop tests were no-till planted following barley or wheat harvest or at a comparable timing following application of herbicide during the small grain heading stage.

Recommended cultural practices were used and data were collected from a uniform set of instructions. Details of cultural practices used and soil types are listed on 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 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).

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. If MG 6 varieties were entered, they were placed in the late-5 test. 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-2i 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 – 11e) 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	5/15	No-Till	Dual II Mag, Sonic, Buccaneer Plus	5/15	None	N/A	Madison clay loam	15"	5	4	17'
			Reflex	6/21							
			Firstrate	7/13							
Orange-FS	5/08	No-Till	Dual II Mag, Sonic, Buccaneer Plus	5/20	None	N/A	Davidson clay loam	15"	5	4	17'
			Reflex	6/15							
			Volunteer	7/18							
Painter-FS	5/10	No-Till	Dual II Mag, Sonic, Buccaneer Plus	5/10	Besiege, Bifenthrin Headline, Folicur	8/14	Bojac sandy loam	15"	5	4	17'
			Volunteer	7/17							
Suffolk-FS	5/14	No-Till	Dual II Mag, Sonic, Buccaneer Plus	5/14	Headline, Folicur	8/7	Dragston fine sandy loam / Eunola loamy fine sand	15"	5	4	17'
			Volunteer		Besiege, Bifenthrin	8/24					

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
Warsaw-FS	6/14,15	Conv.	Medal II, First Rate	5/25	Tombstone Sniper	7/2 8/20	Kempsville loam	30'''	4	2	12'
Blackstone- DC	6/25	No-Till	Dual II Mag, Envive, Roundup PowerMax	6/25	Quadris Top SBX	8/22	Madison clay loam	15"	5	4	17'
Orange-DC	6/15	No-Till	Dual II Mag, Sonic, Liberty Volunteer	6/15 7/18	Headline, Folicure	8/15	Bucks silt loam	15"	5	4	17'
Painter-DC	6/20		Valor, Dual II Mag, Liberty Volunteer	6/20 7/17	Headline, Folicure, Bisiege, Bifenthrin	8/14	Bojac sandy loam/nimmo sandy loam	15	5	4	17
Suffolk-DC	6/26	No-Till	Dual II Mag, Sonic, Buccaneer Plus, Liberty Volunteer	6/30 7/19	Folicure, Headline Bisiege, Bifenthrin	8/7 8/24	Suffolk loamy sand	15"	5	4	17'
Warsaw-DC	6/28	No-Till	Roundup, Medal II Intensity One Intensity One	6/28 8/8 8/20	Sniper	8/20	Kempsville loam	20"	5	3	12'



Table 2. Average monthly precipitation (in) May-October at trial locations compared with 30-year averages.

Location		May	June	July	Aug.	Sept.	Oct.	Total
Blackstone	2018	9.53	6.11	6.30	4.55	4.63	10.47	41.59
	30-yr Avg.	4.26	3.83	4.58	4.03	4.28	4.43	25.41
Orange	2018	7.05	11.00	3.70	9.46	7.18	3.63	42.02
	30-yr. Avg.	4.70	4.82	4.72	3.50	4.67	3.65	26.06
Painter	2018	5.01	4.52	6.06	2.65	9.44	4.27	31.95
	30-yr Avg.	4.51	4.50	5.15	4.84	4.48	4.06	27.54
Suffolk	2018	4.69	5.44	8.13	2.92	3.34	3.54	28.06
	30-yr. Avg.	4.24	3.94	5.34	5.25	5.65	4.15	28.57
Warsaw	2018	8.87	8.44	6.10	5.15	5.19	8.60	42.35
	30-yr Avg.	4.42	4.04	4.86	4.64	4.24	3.66	25.86

Table 3. 2018 Seed source for soybean entries.

SUPPLIER	BRAND	VARIETIES
Armor Seed 183 Pennsylvania Ave. Waldenburg, AR 72475	Armor	X50D13, X52D71, X55D57, 55-R68, X62D60, X65D19
Asgrow 800 N Lindbergh Blvd. St. Louis, MO 63167	Asgrow	AG41X8, AG42X9, AG43X7, AG45X6, AG46X6, AG47X6, AG47X9, AG4835, AG48X7, AG48X9, AG51X8, AG52X9, AG54X9, AG55X7, AG56X8
BASF 168 Fontana Drive Clayton, NC 27527	Credenz	CZ 3841 LL, CZ 3945 LL, CZ 4044 LL, CZ 4105 LL, CZ 4222 LL, CZ 4308 LL, CZ 4540 LL, CZ 4548 LL, CZ 4649 LL, CZ 4748 LL, CZ 4820 LL, CZ 4918 LL, CZ 4938 LL, CZ 5147 LL, CZ 5150 LL, CZ 5242 LL, CZ 5328 LL, CZ 5375 RY, CZ 5445 LL, CZ 5515 LL, CZ 5859 LL, CZ 5947 LL, CZ 6069 LL, CZ 6109 LL, CZ 6316 LL, CZ 6515 LL
Channel Bio 800 N. Lindbergh Blvd. St. Louis, MO 63167	Channel	4717
Doebler's PA Hybrids Inc. 1000 Commerce Park Dr. Williamsport, PA 17701	Doeblers	39X9, 42X9, 49R9, 56R8, DB6017R
Dyna-Gro 1140 Sweet Road East Aurora, NY 14052	Dyna-Gro	S39XT08, S39XT68, S43XS27, S46XS87, S48XS78, S49XS76, S52RS86, S56XT99, S58RY78, SX18652XS
Growmark FS, LLC 329 Tyler Lane Smyrna, DE 19977	Growmark FS	HS48X70, HS52T60
Hubner Seed 306 North Main Street Monticello, IN 47960	Hubner Seed	H39-28R2X, H42-28R2X, H49-29, H43-27R2X, H47- 16R2, H49-27R2X, H49-29R2X, H57-18R2X
Local Seed Company, LLC 802 Rozelle Street Memphis, TN 38104	Local Seed	LS4458XS, LS4677X, LS4988X
Meherrin Ag & Chemical Co 5745 Brushy Meadows Dr. Fuquay Varina, NC 27526	Southern Harvest	SH 3814 LL, SH 4817 LL, SH 5215 LL, SH 5515 LL, SH 5915 LL, SH 6515 LL
Mid-Atlantic Seeds 204 ST. Charles Way 163E York, PA 17403	Mid-Atlantic	MAS4688NRR2/STS/X, MAS5034NRR2/STS/X, MAS4355RR2/STS, MA3611RR2/X, MAS3718RR2/X MAS3918RR2/X
Pioneer Hi-Bred International Inc. (Dupont) P.O. Box 257 Johnston, IA 50131-0257	Pioneer	P37A69X, P42A96X, P46A16R, P48A60X, P48T27, P48T53, P51A61X, P52A26X, P52A43L, P54A75X P55T81R

Table 4. continued. 2018 Seed source for soybean entries.

SUPPLIER	BRAND	VARIETIES
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny	P4570RXS, P4620RXS, P4757RY, P4799RXS, P4816RX, P4851RX, P4955RX, P4994RX, P5016RXS, P5018RX, P5226RYS, P5252RX, P5279RXS, P5414LLS, P5554RX, P5688RX, P5752RY
SeedKoz 1725 Windward Concourse Suite 410 Alpharetta, GA 30005	MorSoy	MS 4426, MS 4616, MS 4846, MS 5607, MS 6208
Syngenta Seeds, Inc. 4013 Fairmount Pike Signal Mountain, TN 37377	NK Brand	S39-P5X, S45-K5X, S52-Y7X S57-A7X S64-T4X
Tidewater Seed 2900 Information Ln Suite 302 Easton, MD 21601	Axis	4617NRXS, 4817NRXS, 5016NRXS, 5618NRX
UniSouth Genetics, Inc. 3205C Hwy 46 S Dickson, TN 37055	USG	5618V, 7379XTS, 7478XTS, 7487XTS, 7496XTS, 74K95RS, 7529XT, 7568XT, 75B75R, 75J90R, ELLIS
University of Arkansas 115 Plant Science Building Fayetteville, AR 72701	University of Arkansas	R11-982G, R14-14797RR, R14-356
University of Missouri PO Box 160, 147 West St. Portageville, MO	University of Missouri	S13-10590C, S13-10592C, 13-1955C, S14-15138R, S14-9051R, S15-10434C
Virginia Crop Improvement Association PO Box 78, Mount Holly, VA 22524	VCIA	Corbin, MO4901DGT
Virginia Tech 220 Ag Quad Ln Blacksburg, VA 24060	Virginia	V11-2263, V12-0045R2, V12-1416, V13-0113, V13- 3833, V14-1219, V14-1235, V14-3821, V14-3982, V14-3983

Table 1a. Yield summaries of full-season maturity group III entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season		
				PTR	WAR	AVG
NK Brand	S39-P5X	RR2X	3.9	50.9	76.3	63.6
Mid-Atlantic Seeds	MAS3718RR2/X	RR2X	3.7	48.0	75.7	61.9
Credenz	CZ 3945 LL	LL	3.9	46.8	76.5	61.7
USG	7399XT	XT	3.9	48.3	74.9	61.6
Southern Harvest	SH 3814 LL	LL	3.8	43.1	78.4	60.8
Mid-Atlantic Seeds	MAS3611RR2/X	RR2X	3.6	42.5	78.8	60.7
Credenz	CZ 3841 LL	LL	3.8	44.0	77.2	60.6
Mid-Atlantic Seeds	MAS3918RR2/ X	RR2X	3.9	45.2	74.8	60.0
Dyna-Gro	S39XT08	RR2X	3.9	44.9	74.5	59.7
Pioneer	P37A69X	RR2X	3.7	42.2	75.8	59.0
USG	7379XTS	RR2X/STS	3.7	39.7	78.1	58.9
Dyna-Gro	S39XT68	RR2X	3.9	48.2	68.8	58.5
LSD P=.10				5.8	6.3	5.0
CV				9	6	7
Grand Mean				45.3	75.8	56.2

*Due to very poor seed quality, resulting in Growmark FSghly variable yields, the ORG data was not included.

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

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						FS & DC
				BLK	ORG	PTR	SUF	WAR	AVG	BLK	ORG	PTR	SUF	WAR	AVG	Avg Rel Yield
Pioneer	P46A16R	RR	4.6	60.1	80.4	67.2	75.4	79.1	72.4	68.7	80.2	52.1	48.3	53.3	60.5	115
MorSoy	MS 4616	RR2X	4.6	60.3	79.1	55.4	68.2	76.1	67.8							112
Hubner Seed	H43-27R2X	RR2X/STS	4.3	58.3	84.1	46.8	70.8	71.6	66.3	72.9	79.7	54.3	56.2	48.5	62.3	111
Asgrow	AG46X6	RR2X	4.6	62.2	78.1	59.7	68.3	81.3	69.9	69.1	57.1	57.8	48.2	46.9	55.8	109
Doebler's PA Hybrids	42X9	RR2X	4.2							68.5	62.2	67.0	54.6	45.7	59.6	108
Dyna-Gro	S46XS87	RR2X/STS	4.6	60.2	66.6	59.0	70.7	66.3	64.6	66.9	72.2	64.3	58.9	36.4	59.7	108
Mid-Atlantic Seeds	MAS4688RR2/STS/X	RR2X/STS	4.6	55.3	70.1	58.7	64.6	75.3	64.8							107
Dyna-Gro	S43XS27	RR2X/STS	4.3	58.7	78.2	44.3	62.4	75.2	63.8	63.5	77.6	55.6	56.3	49.9	60.6	107
Local Seed	LS4458XS	RR2X/STS	4.4	58.5	73.8	51.9	65.6	73.0	64.6							107
Mid-Atlantic Seeds	MAS4355RR2/STS	RR2Y/STS	4.3	61.1	73.3	59.6	54.3	71.9	64.0							107
Credenz	CZ 4548 LL	LL/STS	4.5	52.4	71.2	57.1	61.5	80.4	64.5							106
Axis	4617NRXS	RR2X	4.6	60.7	73.5	59.9	73.5	66.3	66.8	65.9	64.5	62.5	51.4	36.1	56.1	106
Hubner Seed	H47-16R2	RR2X/STS	4.7							62.8	71.4	62.7	55.3	41.3	58.7	106
USG	7447XTS	RR2X/STS	4.4	59.3	73.7	52.3	66.7	72.6	64.9	67.6	73.6	55.3	53.4	37.2	57.4	105
NK Brand	S45-K5X	RR2X	4.5	48.0	62.9	57.0	67.2	77.9	62.6							103
Asgrow	AG45X6	RR2X/STS	4.5	61.8	70.2	54.5	65.0	62.9	62.9	63.4	66.6	57.7	46.3		58.5	103
Hubner Seed	H42-28R2X	RR2X/STS	4.2	58.8	75.7	49.8	56.6	71.9	62.6	59.8	71.9	60.7	46.5	44.3	56.6	103
Progeny Ag Products	P4570RXS	RR2X/STS	4.5							68.6	71.6	57.2	43.5	45.1	57.2	103
Asgrow	AG42X9	RR2X	4.2	47.4	73.5	55.3	57.6	77.4	62.2							102
Asgrow	AG41X8	RR2X	4.1	58.0	69.3	47.6	64.0	67.1	61.2							101
Hubner Seed	H42-28R2X	RR2X/STS	4.2	51.6	71.2	49.5	63.6	74.7	62.1	62.7	71.9	57.9	43.9	41.4	55.6	101
Credenz	CZ 4308 LL	LL	4.3	42.0	63.5	52.8	66.5	82.3	61.4							101
Asgrow	AG43X7	RR2X/STS	4.3	54.1	61.2	53.3	61.0	71.9	60.3	62.1	65.1	58.6	45.0	48.1	55.8	101
Asgrow	AG42X9	RR2X	4.2	55.2	55.5	48.9	61.0	65.8	57.3	64.1	72.7	55.4	51.0	46.9	58.0	100
MorSoy	MS 4426	RR2X	4.4	56.5	57.3	50.7	62.5	70.9	59.6							99
Southern Harvest	SH 3814 LL	LL	3.8							66.2	67.3	60.5	41.2	41.2	55.3	99
Local Seed	LS4677X	RR2X	4.6	45.1	58.7	55.2	68.9	70.2	59.6							99
USG	7399XT	RR2X	3.9							66.1	63.6	54.5	37.2	51.4	54.6	99
Progeny Ag Products	P4620RXS	RR2X/STS	4.6							64.2	72.6	55.3	44.3	37.3	54.7	98
USG	7447XTS	RR2X/STS	4.4							65.3	70.5	55.9	40.4	41.0	54.6	98
Pioneer	P42A96X	RR2X	4.2	54.8	68.9	50.6	45.2	75.1	58.9							97
Credenz	CZ 4649 LL	LL	4.6	48.1	59.4	51.5	55.1	75.5	57.9							96
USG	7379XTS	RR2X/STS	3.7							64.2	62.4	58.4	32.4	44.9	52.5	94
Hubner Seed	H39-28R2X	RR2X	3.9	43.6	52.4	42.5	48.3	73.6	52.1	63.3	60.8	53.7	46.9	53.4	55.6	94

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

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						FS & DC
				BLK	ORG	PTR	SUF	WAR	AVG	BLK	ORG	PTR	SUF	WAR	AVG	Avg Rel Yield
Credenz	CZ 4540 LL	LL	4.5	45.9	55.1	50.2	58.5	71.7	56.3							93
Credenz	CZ 4044 LL*	LL	4.0	51.1		45.2	52.3	71.9	55.1							93
University of Missouri	S13-10592C	CONV	4.5	47.0	62.2	50.4	52.7	74.5	57.4	58.8	63.3	50.2	41.9	37.3	50.3	92
Doebler's PA Hybrids	39X9	RR2X	3.9	51.5	60.2	41.6	44.6	73.2	54.2							89
Credenz	CZ 4222 LL	LL/STS	4.2	40.6	49.7	43.9	60.6	74.9	53.9							88
Virginia Tech	V14-1219	CONV	4.2	44.6	57.7	47.5	48.7	70.2	53.7	58.3	59.0	53.4	37.6	35.0	48.7	88
Virginia Tech	V14-1235	CONV	4.1	47.1	49.7	39.0	46.7	66.2	49.7	59.9	65.8	51.0	39.4	43.9	52.0	88
Credenz	CZ 4105 LL	LL	4.1	55.1	51.4	41.0	48.8	68.3	52.9							88
Virginia Tech	V11-2263	CONV	4.5	45.7	58.8	42.2	52.5	68.8	53.6	57.6	57.4	52.0	31.0	42.0	48.0	87
University of Missouri	S13-10590C	CONV	4.3	38.4	54.9	51.7	51.1	70.2	53.3	64.2	54.9	52.1	28.3	38.1	47.5	86
LSD P=.10				8.2	13.2	6.8	15.1	4.8	6.9	6.8	10.9	8.5	6.9	46.9	3.2	
CV				11	15	10	18	5	9	8	12	11	11	10	11	
Grand Mean				52.8	65.8	51.2	60.0	72.7	60.5	64.4	67.5	56.8	45.4	43.5	55.5	

*Due to combine malfunction at ORG for full-season early maturity group IV, data was excluded for variety CZ 4044 LL.

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

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						FS & DC
				BLK	ORG	PTR	SUF	WAR	AVG	BLK	ORG	PTR	SUF	WAR	AVG	Avg Rel Yield
Progeny Ag Products	P4851RX	RR2X	4.8							62.9	63.3	60.5	69.5	54.4	62.1	111
MorSoy	MS 4846	RR2X	4.8	68.5	75.7	61.0	73.8	73.5	70.5							111
Asgrow	AG4835	RR2Y	4.8	62.0	74.7	65.6	72.2	72.9	69.5							109
Asgrow	AG48X9	RR2X/STS	4.8	65.4	82.6	60.4	63.7	72.2	68.9	63.0	68.0	59.9	55.3	60.5	61.3	108
Doebler's PA Hybrids	49R9	RR	4.9	61.5	85.2	60.2	58.0	80.3	69.0	63.4	70.4	66.0	55.2	49.0	60.8	107
Pioneer	P48T27	RR2	4.8	67.0	75.1	53.9	77.0	67.7	68.1	60.6	65.3	65.5	59.7	51.9	60.6	107
Dyna-Gro	S46XS87	RR2X/STS	4.6	64.7	63.2	63.2	72.0	65.6	65.7	66.9	65.8	62.2	52.4	58.2	61.1	106
Dyna-Gro	S49XS76	RR2X/STS	4.9	56.3	66.5	59.9	63.5	74.3	64.1	63.8	70.0	64.1	59.5	56.3	62.7	105
Hubner Seed	H49-27R2X	RR2X/STS	4.9	61.4	69.1	63.3	74.8	65.8	66.9	63.7	64.4	60.8	48.8	57.6	59.1	104
USG	7487XTS	RR2X/STS	4.8	64.0	63.0	65.3	64.5	68.6	65.1	70.1	69.8	62.4	43.5	58.8	60.9	104
Asgrow	AG47X9	RR2X	4.7	61.3	65.8	57.1	71.1	80.2	67.1	63.7	75.0	55.7	50.0	52.4	59.4	104
Channel	4717	RR2X/STS	4.7	55.2	63.1	63.2	71.1	65.4	63.6	66.0	73.6	62.8	46.9	61.2	62.1	104
USG	7478XTS	RR2X/STS	4.7	64.8	74.8	62.2	75.3	59.0	67.2	58.8	67.8	61.5	52.8	50.3	58.2	104
Dyna-Gro	S46XS87	RR2X	4.6							62.9	72.5	57.9	53.2	49.8	59.3	104
Progeny Ag Products	P4955RX	RR2X	4.9							63.8	66.0	65.5	43.1	57.2	59.1	103
Local Seed	LS4988X	RR2X	4.9	59.3	68.1	62.1	68.3	70.2	65.6							103
Pioneer	P48A60X	RR2X	4.8	61.9	70.7	57.7	69.7	80.7	68.1	62.7	71.0	62.7	33.7	54.6	56.9	103
Hubner Seed	H47-16R2	RR2X/STS	4.7							67.6	63.9	58.3	50.3	46.8	57.4	103
Asgrow	AG48X7	RR2X/STS	4.8	60.0	67.5	62.8	66.4	66.4	64.6	64.9	68.2	60.7	51.7	46.4	58.4	102
Axis	4817NRXS	RR2X	4.8	63.6	59.9	63.6	65.0	62.2	62.9	66.9	67.0	66.5	45.7	52.0	59.6	102
Asgrow	AG47X6	RR2X/STS	4.7	62.0	78.9	57.3	58.6	72.3	65.8	61.0	65.0	64.3	44.9	49.1	56.9	101
USG	74K95RS	RR2Y/STS	4.9							59.3	60.1	62.1	48.5	55.9	57.2	101
Progeny Ag Products	P4994RX	RR2X	4.9							60.2	63.0	63.1	46.0	53.7	57.2	100
Southern Harvest	SH 4817 LL	LL	4.8	47.8	72.1	62.2	64.3	68.4	63.0	64.2	60.6	58.9	47.4	56.6	57.5	100
Dyna-Gro	S48XS78	RR2X/STS	4.8	59.2	71.4	58.7	68.1	60.7	63.6	63.9	72.0	59.2	48.6	42.4	57.2	100
Hubner Seed	H49-29R2X	RR2X/STS	4.9	70.2	77.4	53.8	53.0	74.0	65.7	63.3	66.0	62.1	37.2	49.5	55.6	100
USG	7496XTS	RR2X/STS	4.9	53.7	68.6	63.4	65.8	77.2	65.7	62.5	73.1	60.4	48.4	33.5	55.6	99
Credenz	CZ 4820 LL	LL	4.8	61.8	58.6	55.7	64.8	74.9	63.2							99
Growmark FS	HiSoy 48X70	RR2X	4.8	59.8	58.1	56.4	66.2	61.9	60.5	60.4	66.9	61.9	49.7	49.5	57.7	98
Credenz	CZ 4938 LL	LL	4.9							61.2	61.9	60.7	47.5	47.9	55.8	98
Credenz	CZ 4748 LL	LL	4.7	51.5	67.6	56.2	65.9	71.4	62.5							98
Progeny Ag Products	P4816RX	RR2X	4.8							59.0	64.5	64.4	44.0	47.0	55.8	97

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

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						FS & DC
				BLK	ORG	PTR	SUF	WAR	AVG	BLK	ORG	PTR	SUF	WAR	AVG	Avg Rel Yield
Progeny Ag Products	P4757RY	RR2Y	4.7							58.1	67.0	65.2	44.4	42.4	55.4	96
Progeny Ag Products	P4799RXS	RR2X/STS	4.7							52.9	65.3	58.0	46.1	50.0	54.5	95
VCIA	MO4901DGT	RR	4.9	45.1	64.5	60.2	75.5	59.5	61.0	49.5	51.2	60.1	50.8	52.2	52.8	95
Pioneer	P48T53	RR	4.8	52.4	78.1	49.0	62.6	68.5	62.1	60.7	64.7	58.7	39.8	37.2	52.2	94
Credenz	CZ 4918 LL	LL	4.9							63.3	61.2	60.5	39.1	44.9	53.8	93
USG	ELLIS	CONV	4.9	52.0	69.2	56.5	55.5	77.1	62.1	55.8	62.1	57.8	34.0	44.3	50.8	92
University of Missouri	S14-15138R	RR/STS	4.8	48.8	61.2	56.4	48.5	65.3	56.0	55.2	58.8	58.9	37.6	51.3	52.4	90
Virginia Tech	V13-0113	RR	4.7	39.6	66.4	41.5	48.7	69.0	53.0	49.9	65.9	50.8	49.6	43.9	52.0	87
University of Missouri	S14-9051R	RR	4.7	26.1	52.1	54.0	21.9	67.4	44.3	54.6	51.1	61.0	26.9	44.6	47.6	76
LSD P=.10				8.6	9.8	6.5	9.6	4.6	4.1	6.8	10.9	7.9	7.3	8.8	3.2	
CV				10.9	10.4	8.1	11.0	4.8	9.0	8.2	12.2	9.5	11.3	12.8	10.9	
Grand Mean				57.6	69.0	58.8	64.2	69.8	63.8	61.3	65.6	61.1	47.3	50.4	57.1	

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

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						FS & DC	
				BLK	ORG	PTR	SUF	WAR	AVG	BLK	ORG	PTR	SUF	WAR	AVG	Avg Rel Yield	
Armor	X50D13	RR2X	5.0	64.4	73.0	62.4	70.4	79.2	69.9								114
Progeny Ag Products	P5018RX	RR2X	5.0							72.9	72.9	68.0	42.1	64.2	64.0		111
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2	66.6	58.6	66.7	81.5	81.4	71.0	62.8	65.5	67.4	49.2	59.0	60.8		111
Mid-Atlantic Seeds	MAS5034NRR2/STS/X	RR2X/STS	5.0							63.2	76.1	68.5	44.9	65.8	63.7		111
Pioneer	P52A26X	RR2X	5.2	60.0	74.8	64.2	65.1	73.6	67.5								110
Pioneer	P54A75X	RR2X	5.4	59.5	68.6	67.5	83.2	73.0	70.4	54.1	72.0	59.9	50.6	54.9	58.3		108
Asgrow	AG52X9	RR2X/STS	5.2	64.0	79.7	55.3	68.1	76.2	68.7	63.6	72.8	64.8	38.7	53.1	58.6		107
Dyna-Gro	S52RS86	RR2Y/STS	5.2	54.2	66.7	65.1	72.6	78.7	67.5	59.3	60.2	60.8	48.8	64.6	58.7		106
Pioneer	P51A61X	RR2X	5.1	57.3	65.7	62.9	71.9	67.0	65.0								106
Southern Harvest	SH 5215 LL	LL	5.2	59.1	58.8	60.3	78.1	70.0	65.3	61.2	65.3	60.1	45.8	63.1	59.1		105
Dyna-Gro	SX18652XS	RR2X/STS	5.2	51.3	54.9	55.8	78.9	73.6	62.9	65.8	70.6	56.1	53.3	57.9	60.7		104
Asgrow	AG54X9	RR2X	5.4	55.7	57.1	55.7	78.6	73.0	64.0	64.8	59.2	60.5	50.8	58.8	58.8		104
Progeny Ag Products	P5016RXS	RR2X/STS	5.0							63.8	74.4	58.0	47.1	52.5	59.2		103
NK Brand	S52-Y7X	RR2X	5.2	64.0	56.4	57.3	70.2	66.3	62.8								103
Hubner	H49-29	RR2X/STS	4.9	59.1	68.1	50.1	60.5	77.2	63.0								102
Progeny Ag Products	P5554RX	RR2X	5.4							63.0	58.5	58.5	51.7	56.4	57.6		101
Progeny Ag Products	P5226RYS	RR2Y/STS	5.2							62.3	68.7	66.1	44.1	50.1	58.3		101
Credenz	CZ 5150 LL	LL	5.1	50.4	60.9	56.9	67.4	76.3	62.4								101
USG	7529XT	RR2X	5.2	49.7	49.1	56.9	72.1	74.7	60.5	61.8	66.6	57.1	49.6	58.7	58.8		100
Virginia Tech	V14-3982	CONV	5.2	49.8	67.3	49.1	50.1	72.1	57.7	65.7	66.9	59.6	48.8	57.9	59.8		99
Progeny Ag Products	P5279RXS	RR2X/STS	5.2							59.6	58.5	63.4	48.3	52.0	56.4		99
Axis	5016NRXS	RR2X	5.0	51.0	63.3	50.5	62.8	76.3	60.8	62.7	70.0	63.1	40.6	49.3	57.1		99
Armor	X52D71	RR2X	5.3	45.0	62.0	60.4	59.1	78.5	61.0								99
Progeny Ag Products	P5252RX	RR2X	5.2							58.4	62.8	57.2	50.2	50.2	55.8		98
Pioneer	P52A43L	LL	5.2	62.7	62.4	57.5	71.0	68.6	64.4	55.3	38.3	58.3	41.9	56.3	50.0		97
USG	5618V	CONV	5.4	48.1	58.9	52.6	66.4	71.8	59.6	58.7	63.1	56.9	44.1	52.3	55.0		96
University of Arkansas	R14-14797RR	RR	5.2	49.2	53.5	62.4	61.1	69.6	59.2								96
Credenz	CZ 5375 RY	RR	5.3	44.8	53.1	60.8	63.0	73.5	59.0								96
Progeny Ag Products	P5414LLS	LL/STS	5.4							62.5	48.8	55.4	47.4	56.4	54.1		95
Asgrow	AG51X8	RR2X/STS	5.1	64.3	58.2	60.4	59.3	32.2	54.9	63.1	64.4	62.5	46.8	45.3	56.4		95
Credenz	CZ 5147 LL	LL	5.1	47.0	52.8	62.1	58.6	71.5	58.4								95
Virginia Tech	V13-3833	CONV	5.0	46.7	62.8	54.1	40.2	71.3	55.0	65.2	56.4	62.2	38.0	65.2	57.4		95
Credenz	CZ 5242 LL	LL	5.2	47.9	45.8	54.8	68.1	71.1	57.5								93

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

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season						Double-Crop						FS & DC
				BLK	ORG	PTR	SUF	WAR	AVG	BLK	ORG	PTR	SUF	WAR	AVG	Avg Rel Yield
VCIA	Corbin	RR	5.3	51.0	57.5	58.3	63.2	63.5	58.7	54.2	48.9	47.3	46.5	53.1	50.0	92
Public	Glenn	CONV	5.4	46.0	61.6	51.4	54.4	69.8	56.6							92
Credenz	CZ 5328 LL	LL	5.3	41.7	51.5	63.6	54.2	65.9	55.4							90
University of Arkansas	R11-982G	CONV	5.3	42.9	49.2	53.8	50.8	71.1	53.6							87
University of Arkansas	R14-356	CONV	5.2	44.5	53.9	57.4	46.2	59.7	52.3							85
Credenz	CZ 5445 LL	LL	5.4							54.0	58.1	58.2	39.1	17.0	45.3	78
LSD P=.10				9.7	8.6	6.7	9.0	5.6	8.79	9.0	8.5	5.5	8.1	8.2	4.2	
CV				13	10	8	10	6	11	11	10	7	13	11	10	
Grand Mean				53.3	60.2	58.2	64.9	70.9	61.5	61.6	63.3	60.4	46.2	54.8	57.2	

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

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season					Double-Crop					FS & DC		
				BLK	PTR	SUF	WAR	AVG	BLK	ORG	PTR	SUF	WAR	AVG	Avg Rel Yield	
Armor	X55D57	RR2X	5.5	59.7	75.2	74.6	72.7	70.6								115
Asgrow	AG56X8	RR2X	5.6	65.3	67.7	74.1	74.2	70.3	51.3	65.2	63.8	58.1	68.6	61.4		114
Dyna-Gro	S56XT99	RR2X	5.6	68.9	75.7	63.3	74.8	70.7	57.6	62.9	55.4	54.7	59.8	58.1		111
Axis	5618NRX	RR2X	5.6	61.2	71.6	68.9	68.5	67.6	58.2	63.3	61.1	54.7	58.4	59.1		110
MorSoy	MS 5607	RR2X	5.6	64.0	67.8	65.3	72.0	67.3								110
Armor	X62D60	RR2X	6.2	60.4	58.2	73.4	76.3	67.1								109
NK Brand	S57-A7X	RR2X	5.7	62.7	66.8	62.2	71.9	65.9								108
Progeny Ag Products	P5688RX	RR2X	5.6						52.3	62.7	52.5	58.6	60.3	57.3		107
Asgrow	AG55X7	RR2X	5.5	53.4	54.6	59.4	73.0	60.1	55.3	75.9	63.8	46.1	65.6	61.3		106
Dyna-Gro	S58RY78	RR2Y	5.8	58.2	63.3	56.5	72.8	62.7	57.6	57.5	63.0	54.6	62.6	59.1		106
MorSoy	MS 6208	RR2X	6.2	57.5	58.0	68.8	77.4	65.4								106
Asgrow	AG52X9	RR2X	5.2						65.6	65.9	67.6	41.5	45.7	57.3		106
USG	7568XT	RR2X	5.6						57.1	52.7	58.9	50.4	62.7	56.4		105
Doebler's PA Hybrids	56R8	RR	5.6	60.5	63.4	70.0	73.1	66.8	47.7	43.6	57.8	69.8	52.1	54.2		105
Doebler's PA Hybrids	DB6017R	RR	6.0	53.0	61.9	67.1	74.8	64.2								104
Southern Harvest	SH 5215 LL	LL	5.2	56.4	58.4	69.6	71.1	63.9								104
Southern Harvest	SH 5515 LL	LL	5.5	50.5	57.3	71.3	72.8	63.0	53.4	65.1	51.9	60.6	51.9	56.6		104
Armor	55-R68	RR2X	5.5	53.6	65.0	65.1	71.1	63.7								103
NK Brand	S64-T4X	RR2X	6.4	49.9	62.1	64.8	77.4	63.6								102
Hubner Seed	H57-18R2X	RR2X/STS	5.7	58.0	64.2	55.3	78.2	63.9	46.0	48.8	62.8	51.5	63.6	54.5		102
USG	75B75R	RR2Y	5.7	51.6	69.2	56.6	74.7	63.0								102
USG	75J90R	RR2Y	5.9						55.7	41.8	61.8	52.8	62.1	54.8		102
Southern Harvest	SH 6515 LL	LL	6.5	51.5	61.5	63.9	78.6	63.9	54.0	44.9	65.0	52.8	54.6	54.3		102
USG	5618V	CONV	5.6	55.1	56.2	47.3	72.2	57.7	56.4	67.0	63.5	48.9	49.6	57.1		100
Virginia Tech	V14-3983	CONV	5.5	45.7	52.5	45.6	72.8	54.2	53.4	71.8	63.0	44.2	54.5	57.4		98
Virginia Tech	V12-1416	RR	5.7	58.1	59.2	62.5	75.0	63.7	49.2	54.1	55.0	37.7	50.4	49.3		97
Public	Glenn	CONV	5.5	44.4	55.3	50.2	71.1	55.3	53.2	64.6	51.3	50.0	51.9	54.2		95
University of Missouri	S15-10434C	CONV	5.5	39.7	69.6	51.1	70.1	57.6	47.6	52.7	58.9	39.6	59.4	51.6		94
Credenz	CZ 6109 LL	LL	6.1	38.0	53.0	68.8	75.2	58.8								94
University of Missouri	S13-1955C	CONV	5.5	44.0	66.3	55.8	63.2	57.3	47.9	44.5	57.6	53.9	49.6	50.7		94

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

Brand	Variety	Herbicide Resistance	Relative Maturity	Full-Season					Double-Crop					FS & DC	
				BLK	PTR	SUF	WAR	AVG	BLK	ORG	PTR	SUF	WAR	AVG	Avg Rel Yield
Virginia Tech	V14-3821	CONV	5.6	59.6	54.6	58.5	68.3	60.3	41.7	52.6	51.5	51.9	43.2	48.2	93
Pioneer	P55T81R	RR	5.5						49.7	45.4	55.0	46.5	53.8	50.1	93
Armor	X65D19	RR2X	6.5	45.5	61.2	52.1	71.7	57.6							93
Credenz	CZ 5515 LL	LL	5.5	39.4	55.7	64.4	68.0	56.9							91
Credenz	CZ 5859 LL	LL	5.8						50.1	54.6	58.3	47.7	36.1	49.4	91
Credenz	CZ 6515 LL	LL	6.5						49.5	42.8	64.2	48.1	41.1	49.1	91
Virginia Tech	V12-0045R2	RR2Y	5.6	38.9	52.4	39.2	71.8	50.6	56.8	61.7	55.1	39.6	51.5	52.9	90
Credenz	CZ 6316 LL	LL/STS	6.3	40.8	53.1	61.7	68.9	56.1							90
Credenz	CZ 5947 LL	LL	5.9	39.8	58.5	54.6	70.8	55.9							90
Southern Harvest	SH 5915 LL	LL	5.9	34.9	58.4	53.2	65.1	52.9	51.1	42.0	58.9	47.7	46.4	49.2	88
Progeny Ag Products	P5752RY	RR2Y	5.7						43.3	57.8	55.3	33.7	49.6	47.9	88
Credenz	CZ 6069 LL	LL	6.0						49.9	39.8	46.9	51.1	39.6	45.5	85
LSD P=.10				10.9	7.5	11.9	4.6	5.23	6.6	10.5	8.3	9.1	11.6	5.0	
CV				15	9	14	5	11	9	14	10	11	16	13	
Grand Mean				52.1	61.5	61.1	72.4	52.9	52.3	55.6	58.5	49.9	53.5	54.0	

*Due to severe deer damage, ORG full-season late maturity group V was excluded from averages.

Table 2a. Yield summaries of full-season maturity group III entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018			2017	2016
				PTR	WAR	AVG	2-year AVG	3-year Avg
NK Brand	S39-P5X	RR2X	3.9	50.9	76.3	63.6		
Mid-Atlantic Seeds	MAS3718RR2/X	RR2X	3.7	48.0	75.7	61.9		
Credenz	CZ 3945 LL	LL	3.9	46.8	76.5	61.7	66.7	57.0
USG	7399XT	XT	3.9	48.3	74.9	61.6		
Southern Harvest	SH 3814 LL	LL	3.8	43.1	78.4	60.8	69.8	59.1
Mid-Atlantic Seeds	MAS3611RR2/X	RR2X	3.6	42.5	78.8	60.7		
Credenz	CZ 3841 LL	LL	3.8	44.0	77.2	60.6	68.2	58.8
Mid-Atlantic Seeds	MAS3918RR2/ X	RR2X	3.9	45.2	74.8	60.0		
Dyna-Gro	S39XT08	RR2X	3.9	44.9	74.5	59.7		
Pioneer	P37A69X	RR2X	3.7	42.2	75.8	59.0		
USG	7379XTS	RR2X/STS	3.7	39.7	78.1	58.9		
Dyna-Gro	S39XT08	RR2X	3.9	48.2	68.8	58.5	66.2	
LSD P=.10				5.8	6.3	5.0		
CV				9	6	7		
Grand Mean				45.3	75.8	56.2	67.7	58.3

Table 2b. Yield summaries of full-season early maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORF	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
Pioneer	P46A16R	RR	4.6	60.1	80.4	67.2	75.4	79.1	72.4	68.8	
Asgrow	AG46X6	RR2X	4.6	62.2	78.1	59.7	68.3	81.3	69.9	67.5	63.1
MorSoy	MS 4616 RXT	RR2X	4.6	60.3	79.1	55.4	68.2	76.1	67.8	68.1	
Axis	4617NRXS	RR2X	4.6	60.7	73.5	59.9	73.5	66.3	66.8	66.7	
Hubner Seed	H43-27R2X	RR2X/STS	4.3	58.3	84.1	46.8	70.8	71.6	66.3	68.0	
USG	7447XTS	RR2X/STS	4.4	59.3	73.7	52.3	66.7	72.6	64.9	65.5	59.8
Mid-Atlantic Seeds	MAS4688RR2/STS/X	RR2X/STS	4.6	55.3	70.1	58.7	64.6	75.3	64.8		
Dyna-Gro	S46XS87	RR2X/STS	4.6	60.2	66.6	59.0	70.7	66.3	64.6	62.7	60.5
Local Seed	LS4458XS	RR2X/STS	4.4	58.5	73.8	51.9	65.6	73.0	64.6		
Credenz	CZ 4548 LL	LL/STS	4.5	52.4	71.2	57.1	61.5	80.4	64.5		
Mid-Atlantic Seeds	MAS4355RR2/STS	RR2Y/STS	4.3	61.1	73.3	59.6	54.3	71.9	64.0		
Dyna-Gro	S43XS27	RR2X/STS	4.3	58.7	78.2	44.3	62.4	75.2	63.8	66.0	60.4
Asgrow	AG45X6	RR2X/STS	4.5	61.8	70.2	54.5	65.0	62.9	62.9	64.5	59.0
NK Brand	S45-K5X	RR2X	4.5	48.0	62.9	57.0	67.2	77.9	62.6	63.6	
Hubner	H42-28R2X	RR2X/STS	4.2	55.2	73.5	49.7	60.1	73.3	62.3		
Credenz	CZ 4308 LL	LL	4.3	42.0	63.5	52.8	66.5	82.3	61.4	62.2	
Asgrow	AG41X8	RR2X	4.1	58.0	69.3	47.6	64.0	67.1	61.2		
Asgrow	AG43X7	RR2X/STS	4.3	54.1	61.2	53.3	61.0	71.9	60.3		
Asgrow	AG42X9	RR2X	4.2	51.3	64.5	52.1	59.3	71.6	59.8		
Local Seed	LS4677X	RR2X	4.6	45.1	58.7	55.2	68.9	70.2	59.6		
MorSoy	MS 4426	RR2X	4.4	56.5	57.3	50.7	62.5	70.9	59.6		
Pioneer	P42A96X	RR2X	4.2	54.8	68.9	50.6	45.2	75.1	58.9		
Credenz	CZ 4649 LL	LL	4.6	48.1	59.4	51.5	55.1	75.5	57.9		
University of Missouri	S13-10592C	CONV	4.5	47.0	62.2	50.4	52.7	74.5	57.4		
Credenz	CZ 4540 LL	LL	4.5	45.9	55.1	50.2	58.5	71.7	56.3	57.6	55.5
Credenz	CZ 4044 LL*	LL	4.0	51.1		45.2	52.3	71.9	55.1	57.4	53.9
Doebler's PA Hybrids	39X9	RR2X	3.9	51.5	60.2	41.6	44.6	73.2	54.2		
Credenz	CZ 4222 LL	LL/STS	4.2	40.6	49.7	43.9	60.6	74.9	53.9	57.9	53.5
Virginia Tech	V14-1219	CONV	4.2	44.6	57.7	47.5	48.7	70.2	53.7		
Virginia Tech	V11-2263	CONV	4.5	45.7	58.8	42.2	52.5	68.8	53.6		

Table 2b. Yield summaries of full-season early maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORF	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
University of Missouri	S13-10590C	CONV	4.3	38.4	54.9	51.7	51.1	70.2	53.3	54.0	
Credenz	CZ 4105 LL	LL	4.1	55.1	51.4	41.0	48.8	68.3	52.9	54.2	50.4
Hubner Seed	H39-28R2X	RR2X	3.9	43.6	52.4	42.5	48.3	73.6	52.1		
Virginia Tech	V14-1235	CONV	4.1	47.1	49.7	39.0	46.7	66.2	49.7		
LSD P=.10				8.2	13.2	6.8	15.1	4.8	6.9		
CV				11	15	10	18	5	9		
Grand Mean				52.7	65.6	51.2	60.0	72.7	60.4	62.8	57.3

*Due to combine malfunction at ORG for full-season early maturity group IV, data was excluded for variety CZ 4044 LL.

Table 2c. Yield summaries of double-crop early maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORG	PTR	SUF	WAR	AVG	2-year AVG2	3-year AVG2
Dyna-Gro	S46XS87	RR2X/STS	4.6	66.9	72.2	64.3	58.9	53.3	63.1	63.5	56.0
Hubner Seed	H43-27R2X	RR2X	4.3	72.9	79.7	54.3	56.2	48.5	62.3	63.2	
Dyna-Gro	S43XS27	RR2X/STS	4.3	63.5	77.6	55.6	56.3	49.9	60.6	62.4	
Hubner Seed	H47-16R2	RR2X/STS	4.7	62.8	71.4	62.7	55.3	46.9	59.8		
Doebler's PA Hybrids	42X9	RR2X	4.2	68.5	62.2	67.0	54.6	41.0	58.7		
Asgrow	AG42X9	RR2X	4.2	64.1	72.7	55.4	51.0	46.9	58.0		
Progeny Ag Products	P4570RXS	RR2X/STS	4.5	68.6	71.6	57.2	43.5	46.9	57.6		
Pioneer	P46A16R	RR	4.6	68.7	80.2	52.1	48.3	37.3	57.3	60.8	
Hubner Seed	H42-28R2X	RR2X/STS	4.2	61.3	71.9	59.3	45.2	47.4	57.0		
Progeny Ag Products	P4620RXS	RR2X/STS	4.6	64.2	72.6	55.3	44.3	44.3	56.1	58.1	52.2
Axis	4617NRXS	RR2X	4.6	65.9	64.5	62.5	51.4	36.4	56.1	59.8	
USG	7447XTS	RR2X/STS	4.4	66.5	72.1	55.6	46.9	39.3	56.1	58.3	53.1
Asgrow	AG43X7	RR2X/STS	4.3	62.1	65.1	58.6	45.0	48.1	55.8	57.1	
Southern Harvest	SH 3814 LL	LL	3.8	66.2	67.3	60.5	41.2	41.2	55.3	58.3	52.1
USG	7399XT	RR2X	3.9	66.1	63.6	54.5	37.2	51.4	54.6		
Asgrow	AG45X6	RR2X/STS	4.5	63.4	66.6	57.7	46.3	37.3	54.3		
Asgrow	AG41X8	RR2X	4.1	63.3	60.8	53.7	46.9	45.7	54.1		
Asgrow	AG46X6	RR2X	4.6	69.1	57.1	57.8	48.2	36.1	53.7		
USG	7379XTS	RR2X/STS	3.7	64.2	62.4	58.4	32.4	44.9	52.5		
Virginia Tech	V14-1235	CONV	4.1	59.9	65.8	51.0	39.4	43.9	52.0		
University of Missouri	S13-10592C	CONV	4.5	58.8	63.3	50.2	41.9	42.0	51.2		
Virginia Tech	V14-1219	CONV	4.2	58.3	59.0	53.4	37.6	35.0	48.7		
Virginia Tech	V11-2263	CONV	4.5	57.6	57.4	52.0	31.0	45.1	48.6		
University of Missouri	S13-10590C	CONV	4.3	64.2	54.9	52.1	28.3	38.1	47.5	50.7	
LSD P=.10				6.8	10.9	8.5	6.9	9.8	3.2		
CV				8	12	11	11	16	11		
Grand Mean				64.5	67.2	56.7	45.3	43.6	55.5	59.2	53.3

Table 2d. Yield summaries of full-season late maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORG	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
MorSoy	MS 4846 RXT	RR2X	4.8	68.5	75.7	61.0	73.8	73.5	70.5	66.3	
Asgrow	AG4835	RR2Y/STS	4.8	62.0	74.7	65.6	72.2	72.9	69.5		
Doebler's PA Hybrids	49R9	RR	4.9	61.5	85.2	60.2	58.0	80.3	69.0		
Asgrow	AG48X9	RR2X/STS	4.8	65.4	82.6	60.4	63.7	72.2	68.9		
Pioneer	P48A60X	RR2X	4.8	61.9	70.7	57.7	69.7	80.7	68.1		
Pioneer	P48T27	RR2	4.8	67.0	75.1	53.9	77.0	67.7	68.1		
USG	7478XTS	RR2X/STS	4.7	64.8	74.8	62.2	75.3	59.0	67.2	65.5	
Asgrow	AG47X9	RR2X	4.7	61.3	65.8	57.1	71.1	80.2	67.1		
Hubner Seed	H49-27R2X	RR2X	4.9	61.4	69.1	63.3	74.8	65.8	66.9	66.3	
Asgrow	AG47X6	RR2X/STS	4.7	62.0	78.9	57.3	58.6	72.3	65.8	65.3	64.5
Dyna-Gro	S46XS87	RR2X/STS	4.6	64.7	63.2	63.2	72.0	65.6	65.7		
USG	7496XTS	RR2X/STS	4.9	53.7	68.6	63.4	65.8	77.2	65.7	65.7	65.2
Hubner Seed	H49-29R2X	RR2X/STS	4.9	70.2	77.4	53.8	53.0	74.0	65.7		
Local Seed	LS4988X	RR2X	4.9	59.3	68.1	62.1	68.3	70.2	65.6		
USG	7487XTS	RR2X/STS	4.8	64.0	63.0	65.3	64.5	68.6	65.1	64.8	65.4
Asgrow	AG48X7	RR2X/STS	4.8	60.0	67.5	62.8	66.4	66.4	64.6	64.0	
Dyna-Gro	S49XS76	RR2X/STS	4.9	56.3	66.5	59.9	63.5	74.3	64.1	62.6	63.5
Dyna-Gro	S48XS78	RR2X/STS	4.8	59.2	71.4	58.7	68.1	60.7	63.6	63.4	
Channel	4717	RR2X/STS	4.7	55.2	63.1	63.2	71.1	65.4	63.6		
Credenz	CZ 4820 LL	LL	4.8	61.8	58.6	55.7	64.8	74.9	63.2		
Southern Harvest	SH 4817 LL	LL	4.8	47.8	72.1	62.2	64.3	68.4	63.0	62.6	62.4
Axis	4817NRXS	RR2X/STS	4.8	63.6	59.9	63.6	65.0	62.2	62.9		64.0
Credenz	CZ 4748 LL	LL	4.7	51.5	67.6	56.2	65.9	71.4	62.5	60.7	
Pioneer	P48T53	RR	4.8	52.4	78.1	49.0	62.6	68.5	62.1	60.6	60.2
USG	ELLIS	CONV	4.9	52.0	69.2	56.5	55.5	77.1	62.1	64.4	64.9
VCIA	MO4901DGT	RR	4.9	45.1	64.5	60.2	75.5	59.5	61.0	59.5	
Growmark FS	HiSoy 48X70	RR2X	4.8	59.8	58.1	56.4	66.2	61.9	60.5		

Table 2d. Yield summaries of full-season late maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORG	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
University of Missouri	S14-15138R	RR/STS	4.8	48.8	61.2	56.4	48.5	65.3	56.0		
Virginia Tech	V13-0113	RR	4.7	39.6	66.4	41.5	48.7	69.0	53.0		
University of Missouri	S14-9051R	RR	4.7	26.1	52.1	54.0	21.9	67.4	44.3		
LSD P=.10				8.6	9.8	6.5	9.6	4.6	4.1		
CV				11	10	8	11	5	9		
Grand Mean				57.9	69.0	58.8	63.9	69.8	63.8	63.7	63.8

Table 2e. Yield summaries of double-crop late maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORG	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
Dyna-Gro	S49XS76	RR2X/STS	4.9	63.8	70.0	64.1	59.5	56.3	62.7	63.5	57.4
Progeny Ag Products	P4851RX	RR2X	4.8	62.9	63.3	60.5	69.5	54.4	62.1	61.7	
Channel	4717	RR2X/STS	4.7	66.0	73.6	62.8	46.9	61.2	62.1		
Asgrow	AG48X9	RR2X/STS	4.8	63.0	68.0	59.9	55.3	60.5	61.3		
USG	7487XTS	RR2X/STS	4.8	70.1	69.8	62.4	43.5	58.8	60.9	63.7	57.3
Doebler's PA Hybrids	49R9	RR	4.9	63.4	70.4	66.0	55.2	49.0	60.8		
Pioneer	P48T27	RR2	4.8	60.6	65.3	65.5	59.7	51.9	60.6		
Dyna-Gro	S46XS87	RR2X/STS	4.6	64.9	69.2	60.1	52.8	54.0	60.2		
Axis	4817NRXS	RR2X/STS	4.8	66.9	67.0	66.5	45.7	52.0	59.6		53.4
Asgrow	AG47X9	RR2X	4.7	63.7	75.0	55.7	50.0	52.4	59.4		
Progeny Ag Products	P4955RX	RR2X	4.9	63.8	66.0	65.5	43.1	57.2	59.1		
Hubner Seed	H49-27R2X	RR2X	4.9	63.7	64.4	60.8	48.8	57.6	59.1	62.0	
Asgrow	AG48X7	RR2X/STS	4.8	64.9	68.2	60.7	51.7	46.4	58.4	61.0	
USG	7478XTS	RR2X/STS	4.7	58.8	67.8	61.5	52.8	50.3	58.2	60.8	
Growmark FS	HiSoy 48X70	RR2X/STS	4.8	60.4	66.9	61.9	49.7	49.5	57.7	61.3	
Southern Harvest	SH 4817 LL	LL	4.8	64.2	60.6	58.9	47.4	56.6	57.5	61.4	55.5
Hubner Seed	H47-16R2X	RR2X	4.7	67.6	63.9	58.3	50.3	46.8	57.4	59.1	
Dyna-Gro	S48XS78	RR2X/STS	4.8	63.9	72.0	59.2	48.6	42.4	57.2	59.7	
Progeny Ag Products	P4994RX	RR2X	4.9	60.2	63.0	63.1	46.0	53.7	57.2		
USG	74K95RS	RR2Y/STS	4.9	59.3	60.1	62.1	48.5	55.9	57.2	60.6	55.7
Pioneer	P48A60X	RR2X	4.8	62.7	71.0	62.7	33.7	54.6	56.9		
Asgrow	AG47X6	RR2X/STS	4.7	61.0	65.0	64.3	44.9	49.1	56.9	60.1	55.0
Credenz	CZ 4938 LL	LL	4.9	61.2	61.9	60.7	47.5	47.9	55.8		
Progeny Ag Products	P4816RX	RR2X	4.8	59.0	64.5	64.4	44.0	47.0	55.8	58.7	53.1
Hubner Seed	H49-29R2X	RR2X/STS	4.9	63.3	66.0	62.1	37.2	49.5	55.6		
USG	7496XTS	RR2X/STS	4.9	62.5	73.1	60.4	48.4	33.5	55.6	59.2	55.2
Progeny Ag Products	P4757RY	RR2Y	4.7	58.1	67.0	65.2	44.4	42.4	55.4	58.4	54.1
Progeny Ag Products	P4799RXS	RR2X/STS	4.7	52.9	65.3	58.0	46.1	50.0	54.5	57.0	52.2
Credenz	CZ 4918 LL	LL	4.9	63.3	61.2	60.5	39.1	44.9	53.8	56.2	
VCIA	MO4901DGT	RR	4.9	49.5	51.2	60.1	50.8	52.2	52.8	51.6	

Table 2e. Yield summaries of double-crop late maturity group IV entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORG	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
University of Missouri	S14-15138R	RR/STS	4.8	55.2	58.8	58.9	37.6	51.3	52.4		
Pioneer	P48T53	RR	4.8	60.7	64.7	58.7	39.8	37.2	52.2	56.0	51.3
Virginia Tech	V13-0113	RR	4.7	49.9	65.9	50.8	49.6	43.9	52.0		
USG	ELLIS	CONV	4.9	55.8	62.1	57.8	34.0	44.3	50.8		47.4
University of Missouri	S14-9051R	RR	4.7	54.6	51.1	61.0	26.9	44.6	47.6		
LSD P=.10				6.8	10.9	7.9	7.3	8.8	3.2		
CV				8	12	10	11	13	11		
Grand Mean				61.3	65.6	61.1	47.3	50.4	57.1	59.6	54

Table 2f. Yield summaries of full-season early maturity group V entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORG	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2	66.6	58.6	66.7	81.5	81.4	71.0	69.5	
Pioneer	P54A75X	RR2X	5.4	59.5	68.6	67.5	83.2	73.0	70.4		
Armor	X50D13	RR2X	5.0	64.4	73.0	62.4	70.4	79.2	69.9		
Asgrow	AG52X9	RR2X/STS	5.2	64.0	79.7	55.3	68.1	76.2	68.7		
Pioneer	P52A26X	RR2X	5.2	60.0	74.8	64.2	65.1	73.6	67.5		
Dyna-Gro	S52RS86	RR2Y/STS	5.2	54.2	66.7	65.1	72.6	78.7	67.5		
Southern Harvest	SH 5215 LL	LL	5.2	59.1	58.8	60.3	78.1	70.0	65.3	65.5	61.0
Pioneer	P51A61X	RR2X	5.1	57.3	65.7	62.9	71.9	67.0	65.0		
Pioneer	P52A43L	LL	5.2	62.7	62.4	57.5	71.0	68.6	64.4		
Asgrow	AG54X9	RR2X	5.4	55.7	57.1	55.7	78.6	73.0	64.0		
Hubner	H49-29	RR2X/STS	4.9	59.1	68.1	50.1	60.5	77.2	63.0		
Dyna-Gro	SX18652XS	RR2X/STS	5.2	51.3	54.9	55.8	78.9	73.6	62.9		
NK Brand	S52-Y7X	RR2X	5.2	64.0	56.4	57.3	70.2	66.3	62.8	62.7	
Credenz	CZ 5150 LL	LL	5.1	50.4	60.9	56.9	67.4	76.3	62.4	64.7	
Armor	X52D71	RR2X	5.3	45.0	62.0	60.4	59.1	78.5	61.0		
Axis	5016NRXS	RR2X	5.0	51.0	63.3	50.5	62.8	76.3	60.8	67.1	61.2
USG	7529XT	RR2X	5.2	49.7	49.1	56.9	72.1	74.7	60.5		
USG	5618V	CONV	5.4	48.1	58.9	52.6	66.4	71.8	59.6		
University of Arkansas	R14-14797RR	RR	5.2	49.2	53.5	62.4	61.1	69.6	59.2		
Credenz	CZ 5375 RY	RR2Y	5.3	44.8	53.1	60.8	63.0	73.5	59.0	61.6	57.1
VCIA	Corbin	RR	5.3	51.0	57.5	58.3	63.2	63.5	58.7		
Credenz	CZ 5147 LL	LL	5.1	47.0	52.8	62.1	58.6	71.5	58.4	60.9	57.2
Virginia Tech	V14-3982	CONV	5.2	49.8	67.3	49.1	50.1	72.1	57.7		
Credenz	CZ 5242 LL	LL	5.2	47.9	45.8	54.8	68.1	71.1	57.5	58.1	
Public	Glenn	CONV	5.4	46.0	61.6	51.4	54.4	69.8	56.6	61.5	55.9
Credenz	CZ 5328 LL	LL	5.3	41.7	51.5	63.6	54.2	65.9	55.4		
Virginia Tech	V13-3833	CONV	5.0	46.7	62.8	54.1	40.2	71.3	55.02	60.1	

Table 2f. Yield summaries of full-season early maturity group V entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORG	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
Asgrow	AG51X8	RR2X/STS	5.1	64.3	58.2	60.4	59.3	32.2	54.9		
University of Arkansas	R11-982G	CONV	5.3	42.9	49.2	53.8	50.8	71.1	53.6		
University of Arkansas	R14-356	CONV	5.2	44.5	53.9	57.4	46.2	59.7	52.3		
LSD P=.10				9.7	8.6	6.7	9.0	5.6	8.8		
CV				13	10	8	10	6	11		
Grand Mean				53.1	60.2	58.2	64.7	70.9	61.5	63.2	58.5

Table 2g. Yield summaries of double-crop early maturity group V entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORG	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
Progeny Ag Products	P5018RX	RR2X	5.0	72.9	72.9	68.0	42.1	64.2	64.0		
Mid-Atlantic Seeds	MAS5034NRR2/STS/X	RR2X/STS	5.0	63.2	76.1	68.5	44.9	65.8	63.7		
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2	62.8	65.5	67.4	49.2	59.0	60.8		56.4
Dyna-Gro	SX18652XS	RR2X/STS	5.2	65.8	70.6	56.1	53.3	57.9	60.7		
Virginia Tech	V14-3982	CONV	5.2	65.7	66.9	59.6	48.8	57.9	59.8		
Progeny Ag Products	P5016RXS	RR2X/STS	5.0	63.8	74.4	58.0	47.1	52.5	59.2	59.6	55.8
Southern Harvest	SH 5215 LL	LL	5.2	61.2	65.3	60.1	45.8	63.1	59.1	59.2	55.8
Asgrow	AG54X9	RR2X	5.4	64.8	59.2	60.5	50.8	58.8	58.8		
USG	7529XT	RR2X	5.2	61.8	66.6	57.1	49.6	58.7	58.8		
Dyna-Gro	S52RS86	RR2Y/STS	5.2	59.3	60.2	60.8	48.8	64.6	58.7	60.9	57.5
Asgrow	AG52X9	RR2X/STS	5.2	63.6	72.8	64.8	38.7	53.1	58.6		
Pioneer	P54A75X	RR2X	5.4	54.1	72.0	59.9	50.6	54.9	58.3		
Progeny Ag Products	P5226RYS	RR2Y/STS	5.2	62.3	68.7	66.1	44.1	50.1	58.3		
Progeny Ag Products	P5554RX	RR2X	5.4	63.0	58.5	58.5	51.7	56.4	57.6		
Virginia Tech	V13-3833	CONV	5.2	65.2	56.4	62.2	38.0	65.2	57.4	57.5	
Axis	5016NRXS	RR2X	5.0	62.7	70.0	63.1	40.6	49.3	57.1	60.1	56.0
Asgrow	AG51X8	RR2X/STS	5.1	63.1	64.4	62.5	46.8	45.3	56.4		
Progeny Ag Products	P5279RXS	RR2X/STS	5.2	59.6	58.5	63.4	48.3	52.0	56.4		
Progeny Ag Products	P5252RX	RR2X	5.2	58.4	62.8	57.2	50.2	50.2	55.8		
USG	5618V	CONV	5.4	58.7	63.1	56.9	44.1	52.3	55.0		
Progeny Ag Products	P5414LLS	LL/STS	5.4	62.5	48.8	55.4	47.4	56.4	54.1	53.2	50.7
Pioneer	P52A43L	LL	5.2	55.3	38.3	58.3	41.9	56.3	50.0		
VCIA	Corbin	RR	5.3	54.2	48.9	47.3	46.5	53.1	50.0		
Credenz	CZ 5445 LL	LL	5.4	54.0	58.1	58.2	39.1	17.0	45.3		
LSD P=.10				9.0	8.5	5.5	8.1	8.2	4.2		
CV				11	10	7	13	11	10		
Grand Mean				61.6	63.7	60.2	46.1	54.8	57.3	58.4	55.4

Table 2h. Yield summaries of full-season late maturity group V entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018					2017	2016
				BLK	PTR	SUF	WAR	AVG	2-year AVG	3-year Avg
Dyna-Gro	S56XT99	RR2X	5.6	68.9	75.7	63.3	74.8	70.7		
Armor	X55D57	RR2X	5.5	59.7	75.2	74.6	72.7	70.6		
Asgrow	AG56X8	RR2X	5.6	65.3	67.7	74.1	74.2	70.3		
Axis	5618NRX	RR2X	5.6	61.2	71.6	68.9	68.5	67.6		
MorSoy	MS 5607 RXT	RR2X	5.6	64.0	67.8	65.3	72.0	67.3	60.2	
Armor	X62D60	RR2X	6.2	60.4	58.2	73.4	76.3	67.1		
Doebler's PA Hybrids	56R8	RR	5.6	60.5	63.4	70.0	73.1	66.8		
NK Brand	S57-A7X	RR2X	5.7	62.7	66.8	62.2	71.9	65.9		
MorSoy	MS 6208	RR2X	6.2	57.5	58.0	68.8	77.4	65.4		
Doebler's PA Hybrids	DB6017R	RR	6.0	53.0	61.9	67.1	74.8	64.2		
Hubner Seed	H57-18R2X	RR2X	5.7	58.0	64.2	55.3	78.2	63.9	60.8	
Southern Harvest	SH 6515 LL	LL	6.5	51.5	61.5	63.9	78.6	63.9	55.8	56.3
Southern Harvest	SH 5215 LL	LL	5.2	56.4	58.4	69.6	71.1	63.9		
Virginia Tech	V12-1416	RR	5.7	58.1	59.2	62.5	75.0	63.7	58.9	
Armor	55-R68	RR2X	5.5	53.6	65.0	65.1	71.1	63.7	60.6	
NK Brand	S64-T4X	RR2X	6.4	49.9	62.1	64.8	77.4	63.6		
USG	75B75R	RR2Y	5.7	51.6	69.2	56.6	74.7	63.0	73.6	68.8
Southern Harvest	SH 5515 LL	LL	5.5	50.5	57.3	71.3	72.8	63.0	58.5	
Dyna-Gro	S58RY78	RR2Y	5.8	58.2	63.3	56.5	72.8	62.7		
Virginia Tech	V14-3821	CONV	5.6	59.6	54.6	58.5	68.3	60.3		
Asgrow	AG55X7	RR2X	5.5	53.4	54.6	59.4	73.0	60.1	60.1	
Credenz	CZ 6109 LL	LL	6.1	38.0	53.0	68.8	75.2	58.8	54.3	
USG	5618V	CONV	5.6	55.1	56.2	47.3	72.2	57.7	57.2	57.3
Armor	X65D19	RR2X	6.5	45.5	61.2	52.1	71.7	57.6		
University of Missouri	S15-10434C	CONV	5.5	39.7	69.6	51.1	70.1	57.6		
University of Missouri	S13-1955C	CONV	5.5	44.0	66.3	55.8	63.2	57.3	55.6	
Credenz	CZ 5515 LL	LL	5.5	39.4	55.7	64.4	68.0	56.9	53.9	
Credenz	CZ 6316 LL	LL/STS	6.3	40.8	53.1	61.7	68.9	56.1	53.1	
Credenz	CZ 5947 LL	LL	5.9	39.8	58.5	54.6	70.8	55.9	50.8	
Public	Glenn	CONV	5.4	44.4	55.3	50.2	71.1	55.3	55.5	54.0

Table 2h. Yield summaries of full-season late maturity group V entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018					2017	2016
				BLK	PTR	SUF	WAR	AVG	2-year AVG	3-year Avg
Virginia Tech	V14-3983	CONV	5.5	45.7	52.5	45.6	72.8	54.2		
Southern Harvest	SH 5915 LL	LL	5.9	34.9	58.4	53.2	65.1	52.9	51.5	51.0
Virginia Tech	V12-0045R2	RR2Y	5.6	38.9	52.4	39.2	71.8	50.6		49.1
LSD P=.10				10.9	7.5	11.9	4.6	5.2		
CV				15	9	14	5	11		
Grand Mean				51.9	61.5	60.8	72.4	52.8	57.5	56.1

*Due to severe deer damage, ORG full-season late maturity group V was excluded from averages.

Table 2i. Yield summaries of double-crop late maturity group V entries.

Brand	Variety	Herbicide Resistance	Relative Maturity	2018						2017	2016
				BLK	ORG	PTR	SUF	WAR	AVG	2-year AVG	3-year AVG
Asgrow	AG56X8	RR2X	5.6	51.3	65.2	63.8	58.1	68.6	61.4		
Asgrow	AG55X7	RR2X	5.5	55.3	75.9	63.8	46.1	65.6	61.3	60.3	
Axis	5618NRX	RR2X	5.6	58.2	63.3	61.1	54.7	58.4	59.1		
Dyna-Gro	S58RY78	RR2Y	5.8	57.6	57.5	63.0	54.6	62.6	59.1		
Dyna-Gro	S56XT99	RR2X	5.6	57.6	62.9	55.4	54.7	59.8	58.1		
Virginia Tech	V14-3983	CONV	5.5	53.4	71.8	63.0	44.2	54.5	57.4		
Progeny Ag Products	P5688RX	RR2X	5.6	52.3	62.7	52.5	58.6	60.3	57.3	55.4	
Asgrow	AG52X9	RR2X	5.2	65.6	65.9	67.6	41.5	45.7	57.3		
USG	5618V	CONV	5.6	56.4	67.0	63.5	48.9	49.6	57.1	54.9	49.0
Southern Harvest	SH 5515 LL	LL	5.5	53.4	65.1	51.9	60.6	51.9	56.6	55.7	
USG	7568XT	RR2X	5.6	57.1	52.7	58.9	50.4	62.7	56.4	56.0	
USG	75J90R	RR2Y	5.9	55.7	41.8	61.8	52.8	62.1	54.8		
Hubner Seed	H57-18R2X	RR2X	5.7	46.0	48.8	62.8	51.5	63.6	54.5	52.3	
Southern Harvest	SH 6515 LL	LL	6.5	54.0	44.9	65.0	52.8	54.6	54.3	56.0	55.7
Doebler's PA Hybrids	56R8	RR	5.6	47.7	43.6	57.8	69.8	52.1	54.2		
PUBLIC	GLENN	CONV	5.4	53.2	64.6	51.3	50.0	51.9	54.2	56.4	50.8
Virginia Tech	V12-0045R2	RR2Y	5.6	56.8	61.7	55.1	39.6	51.5	52.9		45.6
University of Missouri	S15-10434C	CONV	5.5	47.6	52.7	58.9	39.6	59.4	51.6		
University of Missouri	S13-1955C	CONV	5.5	47.9	44.5	57.6	53.9	49.6	50.7	49.8	
Pioneer	P55T81R	RR	5.5	49.7	45.4	55.0	46.5	53.8	50.1	50.7	49.0
Credenz	CZ 5859 LL	LL	5.8	50.1	54.6	58.3	47.7	36.1	49.4		
Virginia Tech	V12-1416	RR	5.7	49.2	54.1	55.0	37.7	50.4	49.3	52.3	
Southern Harvest	SH 5915 LL	LL	5.9	51.1	42.0	58.9	47.7	46.4	49.2	49.0	46.4
Credenz	CZ 6515 LL	LL	6.5	49.5	42.8	64.2	48.1	41.1	49.1		
Virginia Tech	V14-3821	CONV	5.6	41.7	52.6	51.5	51.9	43.2	48.2		
Progeny Ag Products	P5752RY	RR2Y	5.7	43.3	57.8	55.3	33.7	49.6	47.9	52.5	51.5
Credenz	CZ 6069 LL	LL	6.0	49.9	39.8	46.9	51.1	39.6	45.5		
LSD P=.10				6.6	10.5	8.3	9.1	11.6	5.0		
CV				9	14	10	11	16	13		
Grand Mean				52.3	55.6	58.5	49.9	53.5	54.0	53.9	49.7

Table 3a. Performance of full-season maturity group III entries at Orange VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Dyna-Gro	S39XT08	RR2X	3.9		1.0	34.7	60	5.0	3131	64.9
Dyna-Gro	S39XT68	RR2X	3.9		1.0	30.7	57	5.0	3190	60.9
NK Brand	S39-P5X	RR2X	3.9		1.0	36.7	16	4.0	3215	59.2
USG	7399XT	XT	3.9		1.0	32.7	37	4.0	3057	58.0
Credeuz	CZ 3841 LL	LL	3.8		1.0	28.7	81	5.0	2908	55.4
Mid-Atlantic Seeds	MAS3918RR2/ X	RR2X	3.9		1.2	32.7	68	5.0	2931	55.1
USG	7379XTS	RR2X/STS	3.7		1.0	28.0	46	5.0	2910	50.1
Mid-Atlantic Seeds	MAS3611RR2/X	RR2X	3.6		1.0	30.0	33	5.0	2956	48.5
Credeuz	CZ 3945 LL	LL	3.9		1.0	31.0	45	5.0	3130	42.2
Mid-Atlantic Seeds	MAS3718RR2/X	RR2X	3.7		1.0	31.3	41	5.0	3282	34.7
Pioneer	P37A69X	RR2X	3.7		1.0	29.7	41	5.0	2917	25.1
Southern Harvest	SH 3814 LL	LL	3.8		1.0	30.3	61	5.0	3076	17.2
LSD P=.10					0.1	4.6	24.4	0.0	263.9	31.0
CV					8	10	36	0	6	47
Grand Mean					1.0	31.4	48.8	4.8	3058.6	47.6

Table 3b. Performance of full-season maturity group III entries at Painter VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
NK Brand	S39-P5X	RR2X	3.9		1.0	31.7	19	5.0	3111	50.9
USG	7399XT	XT	3.9		1.0	29.0	22	5.0	2924	48.3
Dyna-Gro	S39XT68	RR2X	3.9		1.0	31.3	25	5.0	2900	48.2
Mid-Atlantic Seeds	MAS3718RR2/X	RR2X	3.7		1.0	30.3	17	5.0	3138	48.0
Credez	CZ 3945 LL	LL	3.9		1.0	31.0	27	5.0	2651	46.8
Mid-Atlantic Seeds	MAS3918RR2/ X	RR2X	3.9		1.0	31.3	14	5.0	2960	45.2
Dyna-Gro	S39XT08	RR2X	3.9		1.0	31.3	22	4.3	2988	44.9
Credez	CZ 3841 LL	LL	3.8		1.0	33.0	13	4.7	2685	44.0
Southern Harvest	SH 3814 LL	LL	3.8		1.0	32.7	19	5.0	2576	43.1
Mid-Atlantic Seeds	MAS3611RR2/X	RR2X	3.6		1.0	31.0	23	5.0	2810	42.5
Pioneer	P37A69X	RR2X	3.7		1.0	30.7	28	5.0	2883	42.2
USG	7379XTS	RR2X/STS	3.7		1.0	27.3	25	5.0	2797	39.7
LSD P=.10					0	3.1	10	0.3	173.1	5.8
CV					0	7	32	5	4	9
Grand Mean					1	30.9	21	4.9	2868.5	45.3

Table 3c. Performance of full-season maturity group III entries at Warsaw VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Mid-Atlantic Seeds	MAS3611RR2/X	RR2X	3.6	5-Oct	2.7	34.3	0	4.7	2961	78.8
Southern Harvest	SH 3814 LL	LL	3.8	5-Oct	2.4	34.7	0	4.0	2899	78.4
USG	7379XTS	RR2X/STS	3.7	5-Oct	2.6	34.7	0	4.0	2937	78.1
Credez	CZ 3841 LL	LL	3.8	4-Oct	2.7	35.3	0	4.0	2829	77.2
Credez	CZ 3945 LL	LL	3.9	6-Oct	2.9	36.3	0	4.0	2868	76.5
NK Brand	S39-P5X	RR2X	3.9	4-Oct	2.7	37.7	0	4.0	3449	76.3
Pioneer	P37A69X	RR2X	3.7	5-Oct	2.0	32.7	0	5.0	2826	75.8
Mid-Atlantic Seeds	MAS3718RR2/X	RR2X	3.7	3-Oct	3.0	34.7	0	4.7	3585	75.7
USG	7399XT	XT	3.9	4-Oct	3.6	36.3	0	4.3	3265	74.9
Mid-Atlantic Seeds	MAS3918RR2/X	RR2X	3.9	2-Oct	3.3	37.3	0	4.0	3391	74.8
Dyna-Gro	S39XT08	RR2X	3.9	3-Oct	3.2	37.3	0	4.0	3356	74.5
Dyna-Gro	S39XT68	RR2X	3.9	4-Oct	3.5	35.3	0	4.0	3331	68.8
LSD P=.10				1.5	0.4	2.8	0.0	0.4	112.1	6.3
CV				3	10	6	0	7	3	6
Grand Mean				4-Oct	2.9	35.6	0.0	4.2	3141.4	75.8

Table 4a. Performance of full-season early maturity group IV entries at Blackstone VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Asgrow	AG46X6	RR2X	4.6		2.2	39.7	0	3.3	2754	62.2
Asgrow	AG45X6	RR2X/STS	4.5		3.0	40.3	0	3.0	3245	61.8
Mid-Atlantic Seeds	MAS4355RR2/STS	RR2Y/STS	4.3		3.8	48.0	5	4.0	3130	61.1
Axis	4617NRXS	RR2X	4.6		2.2	46.7	0	3.0	2838	60.7
MorSoy	MS 4616	RR2X	4.6		3.8	47.3	0	3.3	3634	60.3
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.7	50.0	4	3.0	2804	60.2
Pioneer	P46A16R	RR	4.6		3.2	44.3	4	3.0	3092	60.1
USG	7447XTS	RR2X/STS	4.4		4.0	45.7	0	3.7	3468	59.3
Dyna-Gro	S43XS27	RR2X/STS	4.3		3.2	44.3	0	4.0	3399	58.7
Local Seed	LS4458XS	RR2X/STS	4.4		2.8	45.7	3	4.0	3299	58.5
Hubner Seed	H43-27R2X	RR2X/STS	4.3		3.0	42.7	0	4.0	3466	58.3
Asgrow	AG41X8	RR2X	4.1		2.0	44.7	0	3.0	3124	58.0
MorSoy	MS 4426	RR2X	4.4		3.8	44.0	0	4.0	3384	56.5
Mid-Atlantic Seeds	MAS4688RR2/STS/X	RR2X/STS	4.6		3.2	47.0	5	4.0	3132	55.3
Hubner Seed	H42-28R2X	RR2X/STS	4.2		2.7	39.8	0	3.5	3633	55.2
Credenz	CZ 4105 LL	LL	4.1		3.0	38.7	18	4.0	2810	55.1
Pioneer	P42A96X	RR2X	4.2		2.7	40.0	11	4.0	2941	54.8
Asgrow	AG43X7	RR2X/STS	4.3		3.3	44.3	0	4.0	3671	54.1
Credenz	CZ 4548 LL	LL/STS	4.5		3.8	39.7	13	4.0	3690	52.4
Doebler's PA Hybrids	39X9	RR2X	3.9		3.5	36.3	12	3.3	3060	51.5
Asgrow	AG42X9	RR2X	4.2		3.8	42.4	4	4.0	3256	51.3
Credenz	CZ 4044 LL	LL	4.0		3.3	38.3	12	4.0	3000	51.1
Credenz	CZ 4649 LL	LL	4.6		2.0	47.3	0	3.0	2911	48.1
NK Brand	S45-K5X	RR2X	4.5		4.3	40.0	0	4.0	3107	48.0
Virginia Tech	V14-1235	CONV	4.1		3.8	41.3	10	4.0	3970	47.1
University of Missouri	S13-10592C	CONV	4.5		4.5	41.7	0	3.7	2782	47.0
Credenz	CZ 4540 LL	LL	4.5		3.8	45.3	0	3.0	3058	45.9
Virginia Tech	V11-2263	CONV	4.5		3.3	39.7	0	3.3	3138	45.7
Local Seed	LS4677X	RR2X	4.6		3.8	42.7	0	3.0	3785	45.1
Virginia Tech	V14-1219	CONV	4.2		3.8	42.7	0	4.0	4007	44.6
Hubner	H39-28R2X	RR2X	3.9		3.3	35.0	15	3.0	3041	43.6
Credenz	CZ 4308 LL	LL	4.3		4.3	41.7	13	4.0	3214	42.0
Credenz	CZ 4222 LL	LL/STS	4.2		3.5	40.0	21	4.0	3945	40.6
University of Missouri	S13-10590C	CONV	4.3		4.0	38.3	17	4.0	3472	38.4
LSD P=.10					1.1	4	6	0.3	193.1	8.2
CV					23	6	89	7	4	11
Grand Mean					3.3	42	5	3.6	3293.1	52.8

Table 4b. Performance of full-season early maturity group IV entries at Orange VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Hubner Seed	H43-27R2X	RR2X/STS	4.3		1.7	39.0	15	3.3	3112	84.1
Pioneer	P46A16R	RR	4.6		1.5	42.0	9	3.3	2805	80.3
MorSoy	MS 4616	RR2X	4.6		1.7	40.0	0	4.0	3284	79.1
Dyna-Gro	S43XS27	RR2X/STS	4.3		2.2	38.3	9	3.0	3052	78.2
Asgrow	AG46X6	RR2X	4.6		1.5	38.3	0	3.0	2543	78.1
Local Seed	LS4458XS	RR2X/STS	4.4		1.7	41.0	13	3.0	2968	73.8
USG	7447XTS	RR2X/STS	4.4		3.0	43.0	0	3.0	3216	73.7
Axis	4617NRXS	RR2X	4.6		1.7	42.7	0	3.0	3104	73.5
Hubner Seed	H42-28R2X	RR2X/STS	4.2		1.4	35.0	5	3.7	3335	73.5
Mid-Atlantic Seeds	MAS4355RR2/STS	RR2Y/STS	4.3		2.0	41.3	17	4.0	2949	73.4
Credenz	CZ 4548 LL	LL/STS	4.5		1.8	38.3	21	3.7	3454	71.2
Asgrow	AG45X6	RR2X/STS	4.5		2.3	37.7	22	4.0	3034	70.2
Mid-Atlantic Seeds	MAS4688RR2/STS/X	RR2X/STS	4.6		1.2	42.7	0	3.3	3152	70.1
Asgrow	AG41X8	RR2X	4.1		1.8	37.3	19	4.0	2886	69.3
Pioneer	P42A96X	RR2X	4.2		1.0	35.0	23	3.7	2629	68.9
Dyna-Gro	S46XS87	RR2X/STS	4.6		2.0	45.0	0	3.0	3271	66.6
Asgrow	AG42X9	RR2X	4.2		1.7	40.2	13	3.2	3190	64.5
Credenz	CZ 4308 LL	LL	4.3		2.7	41.7	24	4.0	2935	63.5
NK Brand	S45-K5X	RR2X	4.5		1.7	31.7	21	4.0	2847	62.7
University of Missouri	S13-10592C	CONV	4.5		4.0	39.0	9	4.0	2566	62.2
Asgrow	AG43X7	RR2X/STS	4.3		2.8	40.7	20	3.7	3208	61.2
Doebler's PA Hybrids	39X9	RR2X	3.9		1.3	31.3	30	4.0	2914	60.2
Credenz	CZ 4649 LL	LL	4.6		2.3	47.0	0	3.0	3097	59.4
Virginia Tech	V11-2263	CONV	4.5		1.0	38.0	0	4.0	2944	58.8
Local Seed	LS4677X	RR2X	4.6		2.2	39.3	0	3.0	3760	58.7
Virginia Tech	V14-1219	CONV	4.2		1.5	35.0	4	3.0	3946	57.7
MorSoy	MS 4426	RR2X	4.4		1.8	40.0	7	3.0	3238	57.4
Credenz	CZ 4540 LL	LL	4.5		2.3	44.0	0	2.7	3144	55.1
University of Missouri	S13-10590C	CONV	4.3		1.8	38.3	16	4.0	2959	54.9
Hubner	H39-28R2X	RR2X	3.9		1.6	34.7	33	4.0	2877	52.3
Credenz	CZ 4105 LL	LL	4.1		1.0	33.0	44	5.0	2692	51.3
Virginia Tech	V14-1235	CONV	4.1		1.8	36.3	24	4.0	3879	49.7
Credenz	CZ 4222 LL	LL/STS	4.2		1.2	33.0	37	4.0	3356	49.6
Credenz	CZ 4044 LL*	LL	4.0		1.7	35.0	43	5.0	3296	
LSD P=.10					1.0	4.3	8.8	0.4	240.3	13.3
CV					39	8	47	9	6	15
Grand Mean					1.8	38.6	13.9	3.6	3118.1	66.2

*Yield not collected due to combine malfunction in 2 of 3 reps.

Table 4c. Performance of full-season early maturity group IV entries at Painter VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Pioneer	P46A16R	RR	4.6		1.0	36.7	9	4.3	2554	67.2
Axis	4617NRXS	RR2X	4.6		1.0	38.0	0	4.0	2697	59.9
Asgrow	AG46X6	RR2X	4.6		1.0	34.0	0	4.3	2371	59.7
Mid-Atlantic Seeds	MAS4355RR2/STS	RR2Y/STS	4.3		1.0	38.7	9	5.0	2604	59.6
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.0	39.0	0	3.0	2708	59.0
Mid-Atlantic Seeds	MAS4688RR2/STS/X	RR2X/STS	4.6		1.0	40.0	6	4.0	2724	58.7
Credenz	CZ 4548 LL	LL/STS	4.5		1.0	36.3	0	4.0	3204	57.1
NK Brand	S45-K5X	RR2X	4.5		1.0	29.7	17	5.0	2530	57.0
MorSoy	MS 4616	RR2X	4.6		1.0	36.0	0	3.0	2975	55.4
Local Seed	LS4677X	RR2X	4.6		1.0	33.7	0	3.3	3388	55.2
Asgrow	AG45X6	RR2X/STS	4.5		1.0	35.0	4	4.7	2634	54.5
Asgrow	AG43X7	RR2X/STS	4.3		1.0	37.0	9	5.0	2713	53.3
Credenz	CZ 4308 LL	LL	4.3		1.0	32.3	14	5.0	2553	52.8
USG	7447XTS	RR2X/STS	4.4		1.0	35.3	0	4.0	2989	52.3
Asgrow	AG42X9	RR2X	4.2		1.0	35.0	3	4.4	2829	52.1
Local Seed	LS4458XS	RR2X/STS	4.4		1.0	35.3	10	4.7	2709	51.9
University of Missouri	S13-10590C	CONV	4.3		1.0	30.7	11	5.0	2606	51.7
Credenz	CZ 4649 LL	LL	4.6		1.0	39.3	0	3.0	2716	51.5
MorSoy	MS 4426	RR2X	4.4		1.0	35.7	3	4.3	2798	50.7
Pioneer	P42A96X	RR2X	4.2		1.0	32.7	21	5.0	2512	50.6
University of Missouri	S13-10592C	CONV	4.5		1.0	36.3	4	5.0	2451	50.4
Credenz	CZ 4540 LL	LL	4.5		1.0	40.7	0	4.3	2962	50.2
Hubner Seed	H42-28R2X	RR2X/STS	4.2		1.0	33.0	0	5.0	2954	49.7
Asgrow	AG41X8	RR2X	4.1		1.0	34.0	16	5.0	2782	47.6
Virginia Tech	V14-1219	CONV	4.2		1.0	32.7	0	5.0	3280	47.5
Hubner Seed	H43-27R2X	RR2X/STS	4.3		1.0	37.0	7	5.0	2869	46.8
Credenz	CZ 4044 LL	LL	4.0		1.0	30.7	16	5.0	2660	45.2
Dyna-Gro	S43XS27	RR2X/STS	4.3		1.0	34.3	5	5.0	2829	44.3
Credenz	CZ 4222 LL	LL/STS	4.2		1.0	27.7	9	5.0	2975	43.9
Hubner	H39-28R2X	RR2X	3.9		1.0	30.3	29	5.0	2510	42.5
Virginia Tech	V11-2263	CONV	4.5		1.0	31.0	20	5.0	2887	42.2
Doebler's PA Hybrids	39X9	RR2X	3.9		1.0	26.3	7	5.0	2869	41.6
Credenz	CZ 4105 LL	LL	4.1		1.0	29.7	19	5.0	2487	41.0
Virginia Tech	V14-1235	CONV	4.1		1.0	32.3	13	5.0	3234	39.0
LSD P=.10					0.0	2.8	7.5	0.4	128.5	6.8
CV					0	6	75	6	3	10
Grand Mean					1.0	34.3	7.3	4.6	2787.4	51.2

Table 4d. Performance of full-season early maturity group IV entries at Suffolk VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Pioneer	P46A16R	RR	4.6	8-Oct	2.0	38.7	8	4.0	2637	75.4
Axis	4617NRXS	RR2X	4.6	16-Oct	1.3	41.7	0	4.0	2758	73.5
Hubner Seed	H43-27R2X	RR2X/STS	4.3	16-Oct	2.5	39.3	6	4.3	2796	70.8
Dyna-Gro	S46XS87	RR2X/STS	4.6	12-Oct	1.7	43.3	0	3.3	2905	70.7
Local Seed	LS4677X	RR2X	4.6	14-Oct	2.2	36.0	0	3.3	3191	68.9
Asgrow	AG46X6	RR2X	4.6	21-Oct	1.7	36.0	0	4.0	2421	68.3
MorSoy	MS 4616	RR2X	4.6	18-Oct	2.5	40.7	0	4.0	2883	68.2
NK Brand	S45-K5X	RR2X	4.5	16-Oct	1.2	38.7	16	5.0	2785	67.2
USG	7447XTS	RR2X/STS	4.4	12-Oct	2.2	36.3	0	4.0	2803	66.7
Credenz	CZ 4308 LL	LL	4.3	2-Oct	2.3	36.3	7	4.3	2630	66.5
Local Seed	LS4458XS	RR2X/STS	4.4	16-Oct	2.0	37.7	15	4.7	2641	65.6
Asgrow	AG45X6	RR2X/STS	4.5	16-Oct	1.5	30.3	0	4.0	2758	65.0
Mid-Atlantic Seeds	MAS4688RR2/STS/X	RR2X/STS	4.6	21-Oct	1.2	37.3	8	4.3	2671	64.6
Asgrow	AG41X8	RR2X	4.1	21-Oct	1.2	37.7	4	5.0	2791	64.0
MorSoy	MS 4426	RR2X	4.4	10-Oct	2.0	37.7	0	4.0	2840	62.5
Dyna-Gro	S43XS27	RR2X/STS	4.3	14-Oct	2.5	41.0	7	5.0	2714	62.4
Credenz	CZ 4548 LL	LL/STS	4.5	7-Oct	2.0	34.7	10	4.3	3271	61.5
Asgrow	AG43X7	RR2X/STS	4.3	16-Oct	1.7	34.7	17	5.0	2787	61.0
Credenz	CZ 4222 LL	LL/STS	4.2	21-Oct	1.3	31.7	32	5.0	2884	60.6
Hubner Seed	H42-28R2X	RR2X/STS	4.2	21-Oct	1.1	33.5	5	4.5	2832	60.1
Asgrow	AG42X9	RR2X	4.2	17-Oct	1.7	35.1	17	4.7	2870	59.3
Credenz	CZ 4540 LL	LL	4.5	12-Oct	1.7	39.7	0	4.0	2879	58.5
Credenz	CZ 4649 LL	LL	4.6	10-Oct	1.8	38.3	0	4.0	2781	55.1
Mid-Atlantic Seeds	MAS4355RR2/STS	RR2Y/STS	4.3	15-Oct	1.5	36.0	7	4.0	2753	54.3
University of Missouri	S13-10592C	CONV	4.5	21-Oct	3.7	34.7	15	5.0	2429	52.7
Virginia Tech	V11-2263	CONV	4.5	21-Oct	1.0	31.7	21	5.0	2876	52.5
Credenz	CZ 4044 LL	LL	4.0	18-Oct	1.2	31.3	19	4.3	2629	52.3
University of Missouri	S13-10590C	CONV	4.3	21-Oct	2.2	39.0	22	5.0	2661	51.1
Credenz	CZ 4105 LL	LL	4.1	14-Oct	1.2	29.7	17	4.7	2639	48.8
Virginia Tech	V14-1219	CONV	4.2	14-Oct	1.8	35.3	7	4.7	3172	48.7
Hubner	H39-28R2X	RR2X	3.9	21-Oct	1.3	32.7	34	5.0	2490	48.3
Virginia Tech	V14-1235	CONV	4.1	21-Oct	1.7	34.3	28	4.7	3223	46.7
Pioneer	P42A96X	RR2X	4.2	21-Oct	1.2	34.0	39	5.0	2578	45.2
Doebler's PA Hybrids	39X9	RR2X	3.9	21-Oct	1.2	30.3	25	5.0	2687	44.6
LSD P=.10				8.6	0.8	6.1	8.3	0.5	149.9	15.1
CV				13	35	12	54	7	4	18.5
Grand Mean				16-Oct	1.7	35.9	11.3	4.5	2788.0	60.0

Table 4e. Performance of full-season early maturity group IV entries at Warsaw VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Credenz	CZ 4308 LL	LL	4.3	6-Oct	2.6	42.3	0	3.0	2826	82.3
Asgrow	AG46X6	RR2X	4.6	12-Oct	2.6	42.3	0	3.0	2671	81.3
Credenz	CZ 4548 LL	LL/STS	4.5	6-Oct	2.2	39.3	0	3.0	3538	80.4
Pioneer	P46A16R	RR	4.6	10-Oct	1.9	43.7	0	3.0	3148	79.1
NK Brand	S45-K5X	RR2X	4.5	9-Oct	2.8	40.3	0	3.0	3008	77.9
MorSoy	MS 4616	RR2X	4.6	10-Oct	3.2	44.0	0	3.0	3577	76.1
Credenz	CZ 4649 LL	LL	4.6	15-Oct	2.6	43.7	0	3.0	2968	75.5
Mid-Atlantic Seeds	MAS4688RR2/STS/X	RR2X/STS	4.6	15-Oct	2.2	46.7	0	3.0	3075	75.3
Dyna-Gro	S43XS27	RR2X/STS	4.3	10-Oct	3.4	40.3	0	3.0	3560	75.2
Pioneer	P42A96X	RR2X	4.2	6-Oct	2.1	37.0	0	3.0	2917	75.1
Credenz	CZ 4222 LL	LL/STS	4.2	3-Oct	3.2	38.3	0	3.0	3467	74.9
University of Missouri	S13-10592C	CONV	4.5	11-Oct	3.7	42.3	0	3.0	2714	74.5
Hubner	H39-28R2X	RR2X	3.9	2-Oct	3.0	37.3	0	3.0	2907	73.6
Hubner Seed	H42-28R2X	RR2X/STS	4.2	5-Oct	2.6	39.4	0	3.0	3582	73.3
Doebler's PA Hybrids	39X9	RR2X	3.9	2-Oct	3.7	37.7	5	3.0	3004	73.2
Local Seed	LS4458XS	RR2X/STS	4.4	9-Oct	3.1	44.0	0	3.0	3168	73.0
USG	7447XTS	RR2X/STS	4.4	11-Oct	2.9	42.0	0	3.0	3677	72.6
Asgrow	AG43X7	RR2X/STS	4.3	9-Oct	4.0	43.0	0	3.0	3365	71.9
Credenz	CZ 4044 LL	LL	4.0	2-Oct	3.2	35.3	8	3.0	3049	71.9
Mid-Atlantic Seeds	MAS4355RR2/STS	RR2Y/STS	4.3	9-Oct	3.5	45.3	0	3.0	3214	71.9
Credenz	CZ 4540 LL	LL	4.5	10-Oct	3.0	42.0	0	3.0	3251	71.7
Asgrow	AG42X9	RR2X	4.2	9-Oct	3.0	41.4	0	3.2	3433	71.6
Hubner Seed	H43-27R2X	RR2X/STS	4.3	9-Oct	3.3	42.7	0	3.0	3723	71.6
MorSoy	MS 4426	RR2X	4.4	10-Oct	3.0	42.0	0	3.0	3614	70.9
Local Seed	LS4677X	RR2X	4.6	9-Oct	3.9	42.0	0	3.0	3742	70.2
University of Missouri	S13-10590C	CONV	4.3	9-Oct	3.0	41.7	0	4.0	3003	70.2
Virginia Tech	V14-1219	CONV	4.2	4-Oct	3.0	39.7	0	3.0	3949	70.2
Virginia Tech	V11-2263	CONV	4.5	4-Oct	2.2	36.3	0	3.0	3140	68.8
Credenz	CZ 4105 LL	LL	4.1	4-Oct	2.3	38.0	0	3.3	2844	68.3
Asgrow	AG41X8	RR2X	4.1	5-Oct	3.4	39.7	0	3.0	3224	67.1
Axis	4617NRXS	RR2X	4.6	9-Oct	3.3	45.7	0	3.0	3422	66.3
Dyna-Gro	S46XS87	RR2X/STS	4.6	9-Oct	3.7	45.0	0	3.0	3380	66.3
Virginia Tech	V14-1235	CONV	4.1	3-Oct	2.9	39.0	0	3.0	4092	66.2
Asgrow	AG45X6	RR2X/STS	4.5	9-Oct	3.2	42.3	0	3.0	3331	62.9
LSD P=.10				1.4	0.5	2.4	2.5	0.2	135.1	4.8
CV				3	12	4	505	4	3	5
Grand Mean				8-Oct	3.0	41.2	0.4	3.1	3294.4	72.7

Table 4f. Performance of double-crop early maturity group IV entries at Blackstone VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Hubner Seed	H43-27R2X	RR2X/STS	4.3		1.0	35.0	0	3.0	2648	72.9
Asgrow	AG46X6	RR2X	4.6		1.2	38.0	0	3.0	2049	69.1
Pioneer	P46A16R	RR	4.6		1.2	37.0	0	3.0	2341	68.7
Progeny Ag Products	P4570RXS	RR2X/STS	4.5		1.0	43.0	0	3.3	2309	68.6
Doebler's PA Hybrids	42X9	RR2X	4.2		1.0	39.0	0	2.3	2711	68.5
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.2	42.7	0	3.7	2334	66.9
USG	7447XTS	RR2X/STS	4.4		1.1	37.8	0	2.5	2596	66.5
Southern Harvest	SH 3814 LL	LL	3.8		1.0	32.7	0	4.0	2599	66.2
USG	7399XT	RR2X	3.9		1.0	35.0	0	4.0	2856	66.1
Axis	4617NRXS	RR2X	4.6		1.2	39.7	0	2.3	2418	65.9
Progeny Ag Products	P4620RXS	RR2X/STS	4.6		1.2	40.7	0	2.0	2482	64.2
University of Missouri	S13-10590C	CONV	4.3		1.8	38.0	0	2.0	2761	64.2
USG	7379XTS	RR2X/STS	3.7		1.2	38.0	0	3.5	2529	64.2
Asgrow	AG42X9	RR2X	4.2		1.2	41.7	0	3.7	2470	64.1
Dyna-Gro	S43XS27	RR2X/STS	4.3		1.0	38.0	0	3.0	2716	63.5
Asgrow	AG45X6	RR2X/STS	4.5		1.0	37.0	0	2.0	2513	63.4
Asgrow	AG41X8	RR2X	4.1		1.1	38.0	0	3.0	2514	63.3
Hubner Seed	H47-16R2	RR2X/STS	4.7		1.0	38.3	0	3.0	2360	62.8
Asgrow	AG43X7	RR2X/STS	4.3		1.2	36.3	0	3.0	2561	62.1
Hubner Seed	H42-28R2X	RR2X/STS	4.2		1.1	39.0	0	2.7	2561	61.3
Virginia Tech	V14-1235	CONV	4.1		1.0	37.0	0	3.3	2930	59.9
University of Missouri	S13-10592C	CONV	4.5		1.3	35.7	0	2.0	2604	58.8
Virginia Tech	V14-1219	CONV	4.2		1.0	34.0	0	4.0	2924	58.3
Virginia Tech	V11-2263	CONV	4.5		1.0	33.0	0	3.0	2650	57.6
LSD P=.10					0.3	3.4	0.0	0.4	141.0	6.8
CV					22	7	0	11	4	8
Grand Mean					1.1	37.7	0.0	2.9	2559.9	64.2

Table 4g. Performance of double-crop early maturity group IV entries at Orange VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Pioneer	P46A16R	RR	4.6		2.8	43.0	0	3.0	2745	80.2
Hubner Seed	H43-27R2X	RR2X/STS	4.3		2.8	35.7	0	3.0	2848	79.7
Dyna-Gro	S43XS27	RR2X/STS	4.3		2.3	37.3	0	3.0	2982	77.6
Asgrow	AG42X9	RR2X	4.2		3.7	45.3	0	3.3	2880	72.7
Progeny Ag Products	P4620RXS	RR2X/STS	4.6		4.3	44.0	0	3.0	3131	72.6
USG	7447XTS	RR2X/STS	4.4		2.9	38.0	0	3.0	2954	72.5
Dyna-Gro	S46XS87	RR2X/STS	4.6		3.5	44.7	0	3.0	2727	72.2
Progeny Ag Products	P4570RXS	RR2X/STS	4.5		3.3	44.7	0	3.0	2695	70.7
Hubner Seed	H47-16R2	RR2X/STS	4.7		1.7	35.7	0	3.0	3056	70.5
Southern Harvest	SH 3814 LL	LL	3.8		3.2	34.7	0	4.0	2944	67.3
Asgrow	AG45X6	RR2X/STS	4.5		2.5	36.3	0	3.0	2996	66.6
Virginia Tech	V14-1235	CONV	4.1		3.2	38.7	0	3.0	3108	65.8
Asgrow	AG43X7	RR2X/STS	4.3		2.7	38.7	0	4.0	3044	65.1
Axis	4617NRXS	RR2X	4.6		2.8	45.3	0	3.0	2698	64.5
University of Missouri	S13-10592C	CONV	4.5		4.2	35.0	0	3.7	2621	63.3
USG	7399XT	RR2X	3.9		3.3	37.0	0	4.0	3132	62.7
USG	7379XTS	RR2X/STS	3.7		2.8	39.0	0	5.0	2892	62.4
Doebler's PA Hybrids	42X9	RR2X	4.2		3.5	39.7	0	3.0	2866	62.2
Hubner Seed	H42-28R2X	RR2X/STS	4.2		1.1	39.0	0	2.7	2561	61.3
Asgrow	AG41X8	RR2X	4.1		3.3	38.4	0	3.2	3116	60.8
Virginia Tech	V14-1219	CONV	4.2		2.0	34.3	0	3.7	3522	59.0
Virginia Tech	V11-2263	CONV	4.5		2.7	36.3	0	3.0	2862	57.4
Asgrow	AG46X6	RR2X	4.6		2.7	42.3	0	3.3	2532	57.1
University of Missouri	S13-10590C	CONV	4.3		2.8	39.3	0	4.0	3103	54.9
LSD P=.10					0.9	3.1	0.0	0.4	224.2	10.1
CV					22	6	0	8	6	11
Grand Mean					3.0	39.0	0.0	3.4	2951.6	67.3

Table 4h. Performance of double-crop early maturity group IV entries at Painter VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Hubner Seed	H47-16R2	RR2X/STS	4.7		1.5	29.7	4	3.0	2437	67.0
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.6	33.3	0	2.3	2440	64.3
Axis	4617NRXS	RR2X	4.6		1.5	35.3	0	2.0	2486	62.5
Southern Harvest	SH 3814 LL	LL	3.8		1.0	27.7	0	3.0	2282	60.5
Hubner Seed	H42-28R2X	RR2X/STS	4.2		1.3	32.0	0	3.0	2590	59.3
USG	7447XTS	RR2X/STS	4.4		1.3	28.5	2	3.0	2387	59.0
Asgrow	AG43X7	RR2X/STS	4.3		1.6	31.0	0	3.0	2770	58.6
USG	7379XTS	RR2X/STS	3.7		1.0	27.7	7	4.0	2653	58.4
Asgrow	AG46X6	RR2X	4.6		1.3	28.7	7	3.0	2258	57.8
Asgrow	AG45X6	RR2X/STS	4.5		1.2	27.7	0	3.0	2505	57.7
Progeny Ag Products	P4570RXS	RR2X/STS	4.5		1.3	33.0	0	3.0	2325	57.2
Doebler's PA Hybrids	42X9	RR2X	4.2		1.3	26.7	0	3.0	2546	55.9
Dyna-Gro	S43XS27	RR2X/STS	4.3		1.3	30.0	0	3.0	2596	55.6
Asgrow	AG42X9	RR2X	4.2		1.3	31.3	0	3.0	2601	55.4
Progeny Ag Products	P4620RXS	RR2X/STS	4.6		1.6	33.7	0	3.0	2832	55.3
USG	7399XT	RR2X	3.9		1.0	26.7	0	3.0	2662	54.5
Hubner Seed	H43-27R2X	RR2X/STS	4.3		1.0	29.3	0	3.0	2468	54.3
Asgrow	AG41X8	RR2X	4.1		1.2	28.4	0	3.0	2575	53.7
Virginia Tech	V14-1219	CONV	4.2		1.0	29.7	0	3.0	3035	53.4
Pioneer	P46A16R	RR	4.6		1.2	30.4	0	3.0	2520	52.1
University of Missouri	S13-10590C	CONV	4.3		1.3	29.0	7	3.0	2517	52.1
Virginia Tech	V11-2263	CONV	4.5		1.0	28.7	0	3.0	2746	52.0
Virginia Tech	V14-1235	CONV	4.1		1.0	27.3	0	3.0	3020	51.0
University of Missouri	S13-10592C	CONV	4.5		1.1	27.3	3	3.0	2421	50.2
LSD P=.10					0.3	4.2	4.6	0.2	134.1	8.5
CV					18	10	287	4	4	11
Grand Mean					1.2	29.7	1.2	3.0	2562.5	56.6

Table 4i. Performance of double-crop early maturity group IV entries at Suffolk VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.0	28.0	0	2.7	2472	58.9
Dyna-Gro	S43XS27	RR2X/STS	4.3		1.0	27.0	0	2.0	2811	56.3
Hubner Seed	H43-27R2X	RR2X/STS	4.3		1.0	26.7	0	2.0	2786	56.2
USG	7447XTS	RR2X/STS	4.4		1.3	26.7	0	2.0	3028	55.3
Hubner Seed	H47-16R2	RR2X/STS	4.7		1.0	26.0	0	2.0	2459	54.6
Axis	4617NRXS	RR2X	4.6		1.3	25.7	0	3.0	2600	51.4
Asgrow	AG42X9	RR2X	4.2		1.3	29.0	0	3.0	2637	51.0
Pioneer	P46A16R	RR	4.6		1.0	24.7	5	3.0	2334	48.3
Asgrow	AG46X6	RR2X	4.6		1.0	23.7	0	3.0	2256	48.2
Asgrow	AG41X8	RR2X	4.1		1.0	23.7	0	2.7	2588	46.9
Asgrow	AG45X6	RR2X/STS	4.5		1.0	24.3	0	2.0	2601	46.3
Hubner Seed	H42-28R2X	RR2X/STS	4.2		1.0	22.4	0	3.0	2760.5	45.2
Asgrow	AG43X7	RR2X/STS	4.3		1.0	23.7	10	3.0	2530	45.0
Progeny Ag Products	P4620RXS	RR2X/STS	4.6		1.0	24.0	0	2.7	2917	44.3
Progeny Ag Products	P4570RXS	RR2X/STS	4.5		1.0	24.7	0	2.7	2366	43.5
University of Missouri	S13-10592C	CONV	4.5		1.7	24.7	7	2.3	2400	41.9
Southern Harvest	SH 3814 LL	LL	3.8		1.0	22.3	0	3.0	2405	41.2
Doebler's PA Hybrids	42X9	RR2X	4.2		1.0	23.3	0	3.0	2683	40.4
Virginia Tech	V14-1235	CONV	4.1		1.0	22.0	0	3.0	2886	39.4
Virginia Tech	V14-1219	CONV	4.2		1.0	21.7	0	3.0	2880	37.6
USG	7399XT	RR2X	3.9		1.0	22.0	0	3.3	2663	37.2
USG	7379XTS	RR2X/STS	3.7		1.0	20.0	4	3.0	2721	32.4
Virginia Tech	V11-2263	CONV	4.5		1.0	21.7	0	3.0	2913	31.0
University of Missouri	S13-10590C	CONV	4.3		1.0	21.7	0	3.0	2694	24.2
LSD P=.10					0.4	2.5	4.2	0.4	137.0	6.4
CV					27	8	314	10	4	10
Grand Mean					1.1	24.1	1.0	2.7	2654.0	45.3

Table 4j. Performance of double-crop early maturity group IV entries at Warsaw VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Dyna-Gro	S46XS87	RR2X/STS	4.6	22-Oct	1.4	30.3	0	3.0	3117	53.3
USG	7399XT	RR2X	3.9	16-Oct	1.3	25.0	7	3.0	3314	51.4
Dyna-Gro	S43XS27	RR2X/STS	4.3	22-Oct	1.6	28.7	0	3.0	3269	49.9
Hubner Seed	H43-27R2X	RR2X/STS	4.3	22-Oct	1.5	28.3	0	3.0	3198	48.5
Asgrow	AG43X7	RR2X/STS	4.3	19-Oct	1.3	29.7	0	3.0	3244	48.1
Hubner Seed	H42-28R2X	RR2X/STS	4.2	17-Oct	1.2	25.4	0	3.0	3463.5	47.4
Asgrow	AG42X9	RR2X	4.2	18-Oct	1.4	30.7	0	3.3	3295	46.9
Progeny Ag Products	P4570RXS	RR2X/STS	4.5	22-Oct	1.5	31.0	0	3.0	3008	46.9
Asgrow	AG41X8	RR2X	4.1	16-Oct	1.2	27.9	0	3.2	3229	45.7
Virginia Tech	V11-2263	CONV	4.5	17-Oct	1.2	23.7	0	3.0	3229	45.1
USG	7379XTS	RR2X/STS	3.7	15-Oct	1.3	25.0	0	4.0	3283	44.9
Progeny Ag Products	P4620RXS	RR2X/STS	4.6	20-Oct	1.3	28.0	0	3.0	3570	44.3
Virginia Tech	V14-1235	CONV	4.1	16-Oct	1.4	26.3	3	3.0	3607	43.9
USG	7447XTS	RR2X/STS	4.4	24-Oct	1.6	27.2	0	3.0	3173	42.1
University of Missouri	S13-10592C	CONV	4.5	19-Oct	1.5	24.0	0	3.0	2713	42.0
Doebler's PA Hybrids	42X9	RR2X	4.2	19-Oct	1.3	27.7	0	3.0	3111	41.3
Southern Harvest	SH 3814 LL	LL	3.8	14-Oct	1.3	26.3	4	3.7	2880	41.2
Hubner Seed	H47-16R2	RR2X/STS	4.7	20-Oct	1.3	25.3	0	3.0	3154	41.0
University of Missouri	S13-10590C	CONV	4.3	16-Oct	1.6	30.7	0	4.0	3021	38.1
Asgrow	AG45X6	RR2X/STS	4.5	21-Oct	1.4	26.3	0	3.3	3032	37.3
Pioneer	P46A16R	RR	4.6	25-Oct	1.2	26.7	0	3.0	2953	37.3
Axis	4617NRXS	RR2X	4.6	24-Oct	1.3	27.7	0	3.0	3113	36.4
Asgrow	AG46X6	RR2X	4.6	21-Oct	1.3	27.0	0	3.0	2729	36.1
Virginia Tech	V14-1219	CONV	4.2	16-Oct	1.4	27.0	0	3.0	3625	35.0
LSD P=.10				2.2	0.2	3.7	2.8	0.3	144.1	9.8
CV				3	10	10	399	7	3	16
Grand Mean				19-Oct	1.4	27.3	0.5	3.1	3192.5	43.7

Table 5a. Performance of full-season late maturity group IV entries at Blackstone VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Hubner Seed	H49-29R2X	RR2X/STS	4.9		1.5	51	0	2.3	3182	70.2
MorSoy	MS 4846	RR2X	4.8		2.3	42	0	3.0	2806	68.5
Pioneer	P48T27	RR2	4.8		2.5	41.7	0	3.0	3127	67.0
Asgrow	AG48X9	RR2X/STS	4.8		2.2	45	0	3.0	2950	65.4
USG	7478XTS	RR2X/STS	4.7		2.5	44.7	0	2.7	3540	64.8
Dyna-Gro	S46XS87	RR2X/STS	4.6		3.0	49.3	0	2.7	2753	64.7
USG	7487XTS	RR2X/STS	4.8		2.2	52	0	3.0	2782	64.0
Axis	4817NRXS	RR2X	4.8		2.3	49.3	0	2.0	2841	63.6
Asgrow	AG47X6	RR2X/STS	4.7		2.0	48.3	0	3.3	3117	62.0
Asgrow	AG4835	RR2Y	4.8		3.2	48.7	0	3.0	3645	62.0
Pioneer	P48A60X	RR2X	4.8		3.8	41.3	0	3.0	3431	61.9
Credenz	CZ 4820 LL	LL	4.8		4.3	41.7	0	3.0	3274	61.8
Doebler's PA Hybrids	49R9	RR	4.9		2.8	47	0	3.0	2905	61.5
Hubner Seed	H49-27R2X	RR2X/STS	4.9		1.8	50	0	3.0	2875	61.4
Asgrow	AG47X9	RR2X	4.7		2.8	45	7	3.0	3427	61.3
Asgrow	AG48X7	RR2X/STS	4.8		2.2	49.7	0	3.0	2814	60.0
Growmark FS	HiSoy 48X70	RR2X	4.8		3.0	44.7	0	3.0	3425	59.8
Local Seed	LS4988X	RR2X	4.9		4.0	43.3	0	3.0	2912	59.3
Dyna-Gro	S48XS78	RR2X/STS	4.8		3.0	44.7	0	2.7	3385	59.2
Dyna-Gro	S49XS76	RR2X/STS	4.9		2.7	48.7	0	3.0	3229	56.3
Channel	4717	RR2X/STS	4.7		2.5	50.7	0	3.0	3079	55.2
USG	7496XTS	RR2X/STS	4.9		2.5	49	0	3.0	3198	53.7
Pioneer	P48T53	RR	4.8		4.2	41.7	0	3.0	3380	52.4
USG	ELLIS	CONV	4.9		2.2	31	0	2.3	3529	52.0
Credenz	CZ 4748 LL	LL	4.7		4.0	42	0	3.7	3095	51.5
University of Missouri	S14-15138R	RR/STS	4.8		3.2	42.7	0	3.0	2886	48.8
Southern Harvest	SH 4817 LL	LL	4.8		4.0	43	3	3.0	3125	47.8
VCIA	MO4901DGT	RR	4.9		2.5	36.7	0	3.0	3575	45.1
Virginia Tech	V13-0113	RR	4.7		4.3	46.7	0	4.0	3254	39.6
University of Missouri	S14-9051R	RR	4.7		4.5	39	0	3.0	3356	26.1
LSD P=.10					1.1	3.3	2.1	0.4	150.2	8.6
CV					26	5	439	9	3	11
Grand Mean					2.9	45.0	0.4	3.0	3165.1	57.9

Table 5b. Performance of full-season late maturity group IV entries at Orange VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Doebler's PA Hybrids	49R9	RR	4.9		1.0	42.3	11	3.0	2818	85.2
Asgrow	AG48X9	RR2X/STS	4.8		1.0	44.3	0	3.7	2725	82.6
Asgrow	AG47X6	RR2X/STS	4.7		1.2	48.3	0	3.3	2899	78.9
Pioneer	P48T53	RR	4.8		1.5	42.0	0	4.0	3054	78.1
Hubner Seed	H49-29R2X	RR2X/STS	4.9		2.0	47.3	0	3.0	2937	77.4
MorSoy	MS 4846	RR2X	4.8		1.0	39.7	0	3.0	2757	75.7
Pioneer	P48T27	RR2	4.8		1.5	36.7	0	4.0	3213	75.1
USG	7478XTS	RR2X/STS	4.7		2.0	44.0	4	3.0	3184	74.8
Asgrow	AG4835	RR2Y	4.8		1.2	41.3	0	3.0	3556	74.7
Southern Harvest	SH 4817 LL	LL	4.8		1.3	42.0	0	3.0	2997	72.1
Dyna-Gro	S48XS78	RR2X/STS	4.8		1.2	41.7	0	3.0	3225	71.4
Pioneer	P48A60X	RR2X	4.8		1.2	37.3	0	3.0	3117	70.7
USG	ELLIS	CONV	4.9		2.0	32.7	0	3.0	3790	69.2
Hubner Seed	H49-27R2X	RR2X/STS	4.9		1.8	50.0	0	3.0	3140	69.1
USG	7496XTS	RR2X/STS	4.9		1.0	42.7	0	3.0	3314	68.6
Local Seed	LS4988X	RR2X	4.9		2.3	42.3	0	3.3	2747	68.1
Credenz	CZ 4748 LL	LL	4.7		1.3	39.3	12	4.0	3021	67.6
Asgrow	AG48X7	RR2X/STS	4.8		1.5	47.0	0	3.3	3102	67.5
Dyna-Gro	S49XS76	RR2X/STS	4.9		1.5	41.3	0	3.7	3102	66.5
Growmark FS	HiSoy 48X70	RR2X	4.8		2.0	44.3	0	3.0	3605	66.4
Virginia Tech	V13-0113	RR	4.7		4.0	51.0	9	4.0	3011	66.4
Asgrow	AG47X9	RR2X	4.7		1.2	40.0	0	3.7	3157	65.8
VCIA	MO4901DGT	RR	4.9		2.7	37.3	0	3.0	3585	64.5
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.2	45.0	0	3.0	3244	63.2
Channel	4717	RR2X/STS	4.7		2.8	46.7	3	4.0	3407	63.1
USG	7487XTS	RR2X/STS	4.8		2.2	46.3	0	3.0	3208	63.0
Credenz	CZ 4820 LL	LL	4.8		1.2	40.7	0	3.3	3055	62.9
University of Missouri	S14-15138R	RR/STS	4.8		1.7	38.3	0	3.0	2937	61.2
Axis	4817NRXS	RR2X	4.8		1.5	46.7	0	3.0	3247	59.9
University of Missouri	S14-9051R	RR	4.7		1.3	30.3	0	3.0	3324	52.1
LSD P=.10					1.0	5.6	3.1	0.4	186.1	9.1
CV					45	10	173	9	4	10
Grand Mean					1.6	42.3	1.3	3.3	3149.3	69.5

Table 5c. Performance of full-season late maturity group IV entries at Painter VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Asgrow	AG4835	RR2Y	4.8		1.0	38.7	0	3.0	3155	65.6
USG	7487XTS	RR2X/STS	4.8		1.0	40.3	0	3.0	2792	65.3
Axis	4817NRXS	RR2X	4.8		1.2	40.7	0	3.0	2595	63.6
USG	7496XTS	RR2X/STS	4.9		1.0	39.7	0	3.0	2923	63.4
Hubner Seed	H49-27R2X	RR2X/STS	4.9		1.2	42.0	0	3.0	2809	63.3
Channel	4717	RR2X/STS	4.7		1.2	41.0	0	3.0	2747	63.2
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.3	38.0	0	4.0	2518	63.2
Asgrow	AG48X7	RR2X/STS	4.8		1.0	37.3	0	4.0	2672	62.8
Southern Harvest	SH 4817 LL	LL	4.8		1.0	35.7	20	4.0	2609	62.2
USG	7478XTS	RR2X/STS	4.7		1.0	37.7	0	3.3	2935	62.2
Local Seed	LS4988X	RR2X	4.9		1.0	34.3	0	3.3	2595	62.1
MorSoy	MS 4846	RR2X	4.8		1.0	34.7	0	4.0	2374	61.0
Asgrow	AG48X9	RR2X/STS	4.8		1.0	35.3	0	3.0	2542	60.4
Doebler's PA Hybrids	49R9	RR	4.9		1.0	38.7	18	4.0	2518	60.2
VCIA	MO4901DGT	RR	4.9		1.0	34.3	0	3.3	3103	60.2
Dyna-Gro	S49XS76	RR2X/STS	4.9		1.0	39.7	0	3.0	2876	59.9
Dyna-Gro	S48XS78	RR2X/STS	4.8		1.0	35.3	9	4.0	2858	58.7
Pioneer	P48A60X	RR2X	4.8		1.0	34.0	0	4.0	2770	57.7
Asgrow	AG47X6	RR2X/STS	4.7		1.2	38.7	7	4.0	2678	57.3
Asgrow	AG47X9	RR2X	4.7		1.0	35.0	12	4.0	2730	57.1
USG	ELLIS	CONV	4.9		1.0	32.0	0	3.0	3325	56.5
Growmark FS	HiSoy 48X70	RR2X	4.8		1.0	36.3	0	3.0	3015	56.4
University of Missouri	S14-15138R	RR/STS	4.8		1.2	34.0	0	3.7	2846	56.4
Credenz	CZ 4748 LL	LL	4.7		1.0	35.0	15	4.3	2726	56.2
Credenz	CZ 4820 LL	LL	4.8		1.0	37.7	7	4.0	2753	55.7
University of Missouri	S14-9051R	RR	4.7		1.0	30.7	26	5.0	2809	54.0
Pioneer	P48T27	RR2	4.8		1.0	34.7	0	3.3	2752	53.9
Hubner Seed	H49-29R2X	RR2X/STS	4.9		1.0	40.0	0	3.3	3010	53.8
Pioneer	P48T53	RR	4.8		1.0	31.7	0	4.0	3032	49.0
Virginia Tech	V13-0113	RR	4.7		2.7	41.0	0	5.0	3017	41.5
LSD P=.10					0.2	2.8	5.3	0.4	141.5	6.5
CV					13	6	100	7	4	8
Grand Mean					1.1	36.8	3.9	3.6	2802.9	58.8

Table 5d. Performance of full-season late maturity group IV entries at Suffolk VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Pioneer	P48T27	RR2	4.8	18-Oct	1.5	34.7	0	3.3	2654	77.0
VCIA	MO4901DGT	RR	4.9	21-Oct	1.0	32.3	0	4.0	3072	75.5
USG	7478XTS	RR2X/STS	4.7	14-Oct	2.0	41.0	0	3.7	2888	75.3
Hubner Seed	H49-27R2X	RR2X/STS	4.9	10-Oct	2.2	45.7	0	4.0	2727	74.8
MorSoy	MS 4846	RR2X	4.8	18-Oct	1.0	30.3	12	5.0	2497	73.8
Asgrow	AG4835	RR2Y	4.8	11-Oct	1.5	38.7	0	3.0	3281	72.2
Dyna-Gro	S46XS87	RR2X/STS	4.6	14-Oct	2.0	42.7	0	4.0	2771	72.0
Asgrow	AG47X9	RR2X	4.7	12-Oct	1.5	38.3	20	5.0	2806	71.1
Channel	4717	RR2X/STS	4.7	14-Oct	1.8	43.3	5	3.7	2716	71.1
Pioneer	P48A60X	RR2X	4.8	21-Oct	1.2	35.7	15	5.0	2758	69.7
Local Seed	LS4988X	RR2X	4.9	5-Oct	2.8	40.7	0	3.0	2615	68.3
Dyna-Gro	S48XS78	RR2X/STS	4.8	17-Oct	1.3	37.7	0	4.3	3047	68.1
Asgrow	AG48X7	RR2X/STS	4.8	12-Oct	2.0	46.7	5	4.0	2681	66.4
Growmark FS	HiSoy 48X70	RR2X	4.8	12-Oct	1.8	36.3	0	4.0	2976	66.2
Credenz	CZ 4748 LL	LL	4.7	16-Oct	1.3	40.7	21	4.3	2616	65.9
USG	7496XTS	RR2X/STS	4.9	21-Oct	1.0	42.0	16	3.3	2709	65.8
Axis	4817NRXS	RR2X	4.8	15-Oct	1.8	43.3	0	4.3	2758	65.0
Credenz	CZ 4820 LL	LL	4.8	7-Oct	1.8	39.7	11	4.0	2737	64.8
USG	7487XTS	RR2X/STS	4.8	16-Oct	1.5	44.3	0	4.0	2615	64.5
Southern Harvest	SH 4817 LL	LL	4.8	14-Oct	2.0	38.0	9	4.7	2763	64.3
Asgrow	AG48X9	RR2X/STS	4.8	21-Oct	1.3	37.3	0	4.0	2791	63.7
Dyna-Gro	S49XS76	RR2X/STS	4.9	21-Oct	1.0	37.3	7	4.0	2733	63.5
Pioneer	P48T53	RR	4.8	3-Oct	1.5	31.3	4	4.0	2878	62.6
Asgrow	AG47X6	RR2X/STS	4.7	18-Oct	1.3	42.0	20	5.0	2543	58.6
Doebler's PA Hybrids	49R9	RR	4.9	21-Oct	1.3	40.3	5	4.0	2625	58.0
USG	ELLIS	CONV	4.9	21-Oct	1.0	28.0	0	3.0	3107	55.5
Hubner Seed	H49-29R2X	RR2X/STS	4.9	21-Oct	1.3	38.3	5	4.3	2765	53.0
Virginia Tech	V13-0113	RR	4.7	18-Oct	2.5	39.3	0	4.3	2999	48.7
University of Missouri	S14-15138R	RR/STS	4.8	16-Oct	1.7	32.0	0	4.7	2793	48.5
University of Missouri	S14-9051R	RR	4.7	23-Oct	1.0	27.3	29	5.0	3051	21.9
LSD P=.10				7.9	0.7	5.3	7.9	0.4	162.2	9.6
CV				12	34	10	94	8	4	11
Grand Mean				15-Oct	1.6	38.2	6.1	4.1	2799.1	64.2

Table 5e. Performance of full-season late maturity group IV entries at Warsaw VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Pioneer	P48T27	RR2	4.8	18-Oct	1.5	34.7	0	3.3	2654	77.0
VCIA	MO4901DGT	RR	4.9	21-Oct	1.0	32.3	0	4.0	3072	75.5
USG	7478XTS	RR2X/STS	4.7	14-Oct	2.0	41.0	0	3.7	2888	75.3
Hubner Seed	H49-27R2X	RR2X/STS	4.9	10-Oct	2.2	45.7	0	4.0	2727	74.8
MorSoy	MS 4846	RR2X	4.8	18-Oct	1.0	30.3	12	5.0	2497	73.8
Asgrow	AG4835	RR2Y	4.8	11-Oct	1.5	38.7	0	3.0	3281	72.2
Dyna-Gro	S46XS87	RR2X/STS	4.6	14-Oct	2.0	42.7	0	4.0	2771	72.0
Asgrow	AG47X9	RR2X	4.7	12-Oct	1.5	38.3	20	5.0	2806	71.1
Channel	4717	RR2X/STS	4.7	14-Oct	1.8	43.3	5	3.7	2716	71.1
Pioneer	P48A60X	RR2X	4.8	21-Oct	1.2	35.7	15	5.0	2758	69.7
Local Seed	LS4988X	RR2X	4.9	5-Oct	2.8	40.7	0	3.0	2615	68.3
Dyna-Gro	S48XS78	RR2X/STS	4.8	17-Oct	1.3	37.7	0	4.3	3047	68.1
Asgrow	AG48X7	RR2X/STS	4.8	12-Oct	2.0	46.7	5	4.0	2681	66.4
Growmark FS	HiSoy 48X70	RR2X	4.8	12-Oct	1.8	36.3	0	4.0	2976	66.2
Credenz	CZ 4748 LL	LL	4.7	16-Oct	1.3	40.7	21	4.3	2616	65.9
USG	7496XTS	RR2X/STS	4.9	21-Oct	1.0	42.0	16	3.3	2709	65.8
Axis	4817NRXS	RR2X	4.8	15-Oct	1.8	43.3	0	4.3	2758	65.0
Credenz	CZ 4820 LL	LL	4.8	7-Oct	1.8	39.7	11	4.0	2737	64.8
USG	7487XTS	RR2X/STS	4.8	16-Oct	1.5	44.3	0	4.0	2615	64.5
Southern Harvest	SH 4817 LL	LL	4.8	14-Oct	2.0	38.0	9	4.7	2763	64.3
Asgrow	AG48X9	RR2X/STS	4.8	21-Oct	1.3	37.3	0	4.0	2791	63.7
Dyna-Gro	S49XS76	RR2X/STS	4.9	21-Oct	1.0	37.3	7	4.0	2733	63.5
Pioneer	P48T53	RR	4.8	3-Oct	1.5	31.3	4	4.0	2878	62.6
Asgrow	AG47X6	RR2X/STS	4.7	18-Oct	1.3	42.0	20	5.0	2543	58.6
Doebler's PA Hybrids	49R9	RR	4.9	21-Oct	1.3	40.3	5	4.0	2625	58.0
USG	ELLIS	CONV	4.9	21-Oct	1.0	28.0	0	3.0	3107	55.5
Hubner Seed	H49-29R2X	RR2X/STS	4.9	21-Oct	1.3	38.3	5	4.3	2765	53.0
Virginia Tech	V13-0113	RR	4.7	18-Oct	2.5	39.3	0	4.3	2999	48.7
University of Missouri	S14-15138R	RR/STS	4.8	16-Oct	1.7	32.0	0	4.7	2793	48.5
University of Missouri	S14-9051R	RR	4.7	23-Oct	1.0	27.3	29	5.0	3051	21.9
LSD P=.10				7.9	0.7	5.3	7.9	0.5	162.2	9.6
CV				12	34	10	94	8	4	11
Grand Mean				15-Oct	1.6	38.2	6.1	4.1	2799.0	63.9

Table 5f. Performance of double-crop late maturity group IV entries at Blackstone VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
USG	7487XTS	RR2X/STS	4.8		1.3	44.7	0	2.0	2248	70.1
Hubner Seed	H47-16R2	RR2X/STS	4.7		1.2	37.0	0	2.0	2586	67.6
Axis	4817NRXS	RR2X	4.8		1.3	39.7	0	2.0	2313	66.9
Channel	4717	RR2X/STS	4.7		1.5	43.7	0	2.0	2450	66.0
Asgrow	AG48X7	RR2X/STS	4.8		1.2	44.7	0	2.3	2255	64.9
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.5	41.3	0	2.2	2307	64.9
Southern Harvest	SH 4817 LL	LL	4.8		1.2	34.3	0	2.0	2481	64.2
Dyna-Gro	S48XS78	RR2X/STS	4.8		1.0	38.3	0	2.7	2510	63.9
Dyna-Gro	S49XS76	RR2X/STS	4.9		1.2	43.0	0	2.3	2562	63.8
Progeny Ag Products	P4955RX	RR2X	4.9		1.7	40.0	0	2.0	2509	63.8
Asgrow	AG47X9	RR2X	4.7		1.0	38.3	0	2.0	2592	63.7
Hubner Seed	H49-27R2X	RR2X/STS	4.9		1.5	43.3	0	2.0	2313	63.7
Doebler's PA Hybrids	49R9	RR	4.9		1.3	38.0	0	2.0	2521	63.4
Credenz	CZ 4918 LL	LL	4.9		1.0	38.0	0	2.0	2738	63.3
Hubner Seed	H49-29R2X	RR2X/STS	4.9		1.2	40.7	0	2.0	2519	63.3
Asgrow	AG48X9	RR2X/STS	4.8		1.0	36.7	0	2.0	2259	63.0
Progeny Ag Products	P4851RX	RR2X	4.8		2.7	44.0	0	3.0	2337	62.9
Pioneer	P48A60X	RR2X	4.8		1.2	36.3	0	2.0	2446	62.7
USG	7496XTS	RR2X/STS	4.9		1.3	42.7	0	2.0	2650	62.5
Credenz	CZ 4938 LL	LL	4.9		1.7	38.3	0	2.0	2689	61.2
Asgrow	AG47X6	RR2X/STS	4.7		1.2	40.7	0	2.0	2377	61.0
Pioneer	P48T53	RR	4.8		1.0	35.3	0	2.0	2769	60.7
Pioneer	P48T27	RR2	4.8		1.7	37.7	0	2.0	2470	60.6
Growmark FS	HiSoy 48X70	RR2X	4.8		1.0	34.3	0	2.0	2551	60.4
Progeny Ag Products	P4994RX	RR2X	4.9		1.0	35.0	0	3.0	2402	60.2
USG	74K95RS	RR2Y/STS	4.9		2.5	40.3	0	2.0	2453	59.3
Progeny Ag Products	P4816RX	RR2X	4.8		1.0	37.3	0	3.0	2216	59.0
USG	7478XTS	RR2X/STS	4.7		1.2	35.0	0	2.0	2482	58.8
Progeny Ag Products	P4757RY	RR2Y	4.7		1.8	40.0	0	3.0	2508	58.1
USG	ELLIS	CONV	4.9		4.0	39.3	0	2.0	3235	55.8
University of Missouri	S14-15138R	RR/STS	4.8		1.5	34.7	0	2.0	2438	55.2
University of Missouri	S14-9051R	RR	4.7		1.5	31.0	0	2.3	2698	54.6
Progeny Ag Products	P4799RXS	RR2X/STS	4.7		1.0	38.3	0	2.7	2339	52.9
Virginia Tech	V13-0113	RR	4.7		1.7	38.7	0	2.0	2780	49.9
VCIA	MO4901DGT	RR	4.9		2.8	38.0	0	2.0	3217	49.5
LSD P=.10					0.5	3.9	0	0.3	128.7	6.8
CV					27	7	0	11	4	8
Grand Mean					1.5	38.8	0	2.2	2514.2	61.3

Table 5g. Performance of double-crop late maturity group IV entries at Orange VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Asgrow	AG47X9	RR2X	4.7		2.5	42.0	0	3.3	3082	75.0
Channel	4717	RR2X/STS	4.7		3.3	43.0	0	3.0	2822	73.6
USG	7496XTS	RR2X/STS	4.9		2.2	41.0	0	3.0	3074	73.1
Dyna-Gro	S48XS78	RR2X/STS	4.8		2.7	39.3	0	3.0	3109	72.0
Pioneer	P48A60X	RR2X	4.8		4.0	39.0	0	3.0	2994	71.0
Doebler's PA Hybrids	49R9	RR	4.9		3.2	43.7	0	3.0	2772	70.4
Dyna-Gro	S49XS76	RR2X/STS	4.9		3.5	41.3	0	3.0	3004	70.0
USG	7487XTS	RR2X/STS	4.8		3.5	48.3	0	3.0	2747	69.8
Dyna-Gro	S46XS87	RR2X/STS	4.6		3.5	46.2	0	3.0	2749.5	69.2
Asgrow	AG48X7	RR2X/STS	4.8		2.3	44.0	0	3.0	2737	68.2
Asgrow	AG48X9	RR2X/STS	4.8		3.2	43.0	0	3.0	2606	68.0
USG	7478XTS	RR2X/STS	4.7		2.7	38.3	0	3.0	3041	67.8
Axis	4817NRXS	RR2X	4.8		3.5	45.7	0	3.0	2902	67.0
Progeny Ag Products	P4757RY	RR2Y	4.7		4.2	40.3	0	4.0	2757	67.0
Growmark FS	HiSoy 48X70	RR2X	4.8		2.5	39.3	0	3.0	3190	66.9
Hubner Seed	H49-29R2X	RR2X/STS	4.9		2.3	39.0	0	3.0	2836	66.0
Progeny Ag Products	P4955RX	RR2X	4.9		4.3	42.0	0	3.0	2917	66.0
Virginia Tech	V13-0113	RR	4.7		3.3	46.0	0	4.0	2763	65.9
Pioneer	P48T27	RR2	4.8		3.3	36.0	0	3.0	2893	65.3
Progeny Ag Products	P4799RXS	RR2X/STS	4.7		2.3	40.0	0	3.3	2740	65.3
Asgrow	AG47X6	RR2X/STS	4.7		3.2	38.0	0	3.0	2886	65.0
Pioneer	P48T53	RR	4.8		3.0	39.3	0	3.0	3032	64.7
Progeny Ag Products	P4816RX	RR2X	4.8		2.2	36.0	0	3.0	2594	64.5
Hubner Seed	H49-27R2X	RR2X/STS	4.9		2.7	46.7	0	3.0	2945	64.4
Hubner Seed	H47-16R2	RR2X/STS	4.7		2.8	36.7	0	3.0	2898	63.9
Progeny Ag Products	P4851RX	RR2X	4.8		4.3	37.7	0	3.0	2716	63.3
Progeny Ag Products	P4994RX	RR2X	4.9		2.7	35.0	0	4.0	2965	63.0
USG	ELLIS	CONV	4.9		4.3	37.0	0	3.3	3805	62.1
Credenz	CZ 4938 LL	LL	4.9		3.2	44.0	0	3.3	3177	61.9
Credenz	CZ 4918 LL	LL	4.9		2.3	34.3	0	3.3	3103	61.2
Southern Harvest	SH 4817 LL	LL	4.8		3.5	39.3	0	3.0	3111	60.6
USG	74K95RS	RR2Y/STS	4.9		3.3	43.7	0	3.0	3192	60.1
University of Missouri	S14-15138R	RR/STS	4.8		3.2	40.3	0	3.0	2784	58.8
VCIA	MO4901DGT	RR	4.9		4.3	45.7	0	3.3	3468	51.2
University of Missouri	S14-9051R	RR	4.7		3.3	33.3	0	3.0	3394	51.1
LSD P=.10					0.9	3.4	0.0	0.3	163.3	10.9
CV					22	6	0	7	4	12
Grand Mean					3.2	40.9	0.0	3.1	2960.0	65.6

Table 5h. Performance of double-crop late maturity group IV entries at Painter VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Axis	4817NRXS	RR2X	4.8		1.3	38.7	0	2.0	2683	66.5
Doebler's PA Hybrids	49R9	RR	4.9		1.3	36.3	0	2.0	2892	66.0
Pioneer	P48T27	RR2	4.8		1.3	33.0	0	2.0	2667	65.5
Progeny Ag Products	P4955RX	RR2X	4.9		1.2	36.3	0	2.0	2705	65.5
Progeny Ag Products	P4757RY	RR2Y	4.7		1.2	36.3	0	2.0	2724	65.2
Progeny Ag Products	P4816RX	RR2X	4.8		1.1	31.3	0	2.7	2229	64.4
Asgrow	AG47X6	RR2X/STS	4.7		1.0	35.3	0	2.0	2566	64.3
Dyna-Gro	S49XS76	RR2X/STS	4.9		1.2	38.0	0	2.0	2807	64.1
Progeny Ag Products	P4994RX	RR2X	4.9		1.2	33.0	0	2.0	2749	63.1
Channel	4717	RR2X/STS	4.7		1.8	38.0	0	2.0	2632	62.8
Pioneer	P48A60X	RR2X	4.8		1.1	35.0	0	2.0	2894	62.7
USG	7487XTS	RR2X/STS	4.8		1.5	38.7	0	2.0	2683	62.4
Hubner Seed	H49-29R2X	RR2X/STS	4.9		1.5	37.7	0	2.0	2835	62.1
USG	74K95RS	RR2Y/STS	4.9		1.3	37.7	0	2.0	2906	62.1
Growmark FS	HiSoy 48X70	RR2X	4.8		1.5	35.0	0	2.0	3054	61.9
USG	7478XTS	RR2X/STS	4.7		1.2	34.0	0	2.0	2826	61.5
University of Missouri	S14-9051R	RR	4.7		1.1	30.7	0	2.0	2963	61.0
Hubner Seed	H49-27R2X	RR2X/STS	4.9		1.2	36.7	0	2.0	2728	60.8
Asgrow	AG48X7	RR2X/STS	4.8		1.3	38.3	0	2.0	2585	60.7
Credenz	CZ 4938 LL	LL	4.9		1.2	37.3	0	2.0	3001	60.7
Credenz	CZ 4918 LL	LL	4.9		1.4	33.0	0	2.0	2838	60.5
Progeny Ag Products	P4851RX	RR2X	4.8		1.5	37.0	0	2.0	2642	60.5
USG	7496XTS	RR2X/STS	4.9		1.2	36.7	0	2.0	2792	60.4
VCIA	MO4901DGT	RR	4.9		1.7	36.7	0	2.0	3408	60.1
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.5	36.2	0	2.0	2662	60.1
Asgrow	AG48X9	RR2X/STS	4.8		1.2	35.0	0	2.0	2646	59.9
Dyna-Gro	S48XS78	RR2X/STS	4.8		1.2	34.7	0	2.0	2998	59.2
Southern Harvest	SH 4817 LL	LL	4.8		1.2	32.7	0	2.0	2981	58.9
University of Missouri	S14-15138R	RR/STS	4.8		1.2	36.0	0	2.0	2775	58.9
Pioneer	P48T53	RR	4.8		1.3	33.0	0	2.0	2925	58.7
Hubner Seed	H47-16R2	RR2X/STS	4.7		1.2	33.7	0	2.0	2675	58.3
Progeny Ag Products	P4799RXS	RR2X/STS	4.7		1.2	37.7	0	2.0	2732	58.0
USG	ELLIS	CONV	4.9		1.3	34.7	0	2.0	3221	57.8
Asgrow	AG47X9	RR2X	4.7		1.0	34.0	0	3.0	2817	55.7
Virginia Tech	V13-0113	RR	4.7		1.5	40.3	0	2.0	2939	50.8
LSD P=.10					0.5	3.1	0.0	0.1	143.7	7.9
CV					27	6	0	5	4	10
Grand Mean					1.3	35.7	0.0	2.1	2801.1	61.1

Table 5i. Performance of double-crop late maturity group IV entries at Suffolk VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Progeny Ag Products	P4851RX	RR2X	4.8		1.5	31.3	5	2.0	2403	69.5
Pioneer	P48T27	RR2	4.8		1.0	29.0	0	2.0	2543	59.7
Dyna-Gro	S49XS76	RR2X/STS	4.9		1.0	27.0	0	2.0	2408	59.5
Asgrow	AG48X9	RR2X/STS	4.8		1.0	27.0	8	2.0	2404	55.3
Doebler's PA Hybrids	49R9	RR	4.9		1.0	27.3	4	2.3	2297	55.2
Dyna-Gro	S46XS87	RR2X/STS	4.6		1.0	27.2	0	2.2	2437	52.8
USG	7478XTS	RR2X/STS	4.7		1.3	26.7	0	2.0	2630	52.8
Asgrow	AG48X7	RR2X/STS	4.8		1.0	24.3	0	2.0	2415	51.7
VCIA	MO4901DGT	RR	4.9		1.8	29.7	0	2.0	3393	50.8
Hubner Seed	H47-16R2	RR2X/STS	4.7		1.0	26.3	0	2.7	2484	50.3
Asgrow	AG47X9	RR2X	4.7		1.0	25.3	0	2.7	2549	50.0
Growmark FS	HiSoy 48X70	RR2X	4.8		1.0	25.0	0	2.0	2631	49.7
Virginia Tech	V13-0113	RR	4.7		1.0	28.3	0	2.3	2615	49.6
Hubner Seed	H49-27R2X	RR2X/STS	4.9		1.0	26.0	0	2.0	2446	48.8
Dyna-Gro	S48XS78	RR2X/STS	4.8		1.0	27.0	0	2.0	2625	48.6
USG	74K95RS	RR2Y/STS	4.9		1.0	26.0	0	2.0	2622	48.5
USG	7496XTS	RR2X/STS	4.9		1.2	23.0	0	2.0	2607	48.4
Credenz	CZ 4938 LL	LL	4.9		1.0	25.3	0	2.3	2769	47.5
Southern Harvest	SH 4817 LL	LL	4.8		1.0	24.3	15	2.0	2402	47.4
Channel	4717	RR2X/STS	4.7		1.0	24.3	0	3.0	2461	46.9
Progeny Ag Products	P4799RXS	RR2X/STS	4.7		1.0	22.3	0	2.0	2372	46.1
Progeny Ag Products	P4994RX	RR2X	4.9		1.0	23.3	0	2.3	2345	46.0
Axis	4817NRXS	RR2X	4.8		1.0	23.7	0	2.0	2455	45.7
Asgrow	AG47X6	RR2X/STS	4.7		1.0	25.0	0	2.3	2325	44.9
Progeny Ag Products	P4757RY	RR2Y	4.7		1.0	26.7	3	2.0	2349	44.4
Progeny Ag Products	P4816RX	RR2X	4.8		1.0	21.3	9	3.0	2143	44.0
USG	7487XTS	RR2X/STS	4.8		1.0	24.7	0	3.0	2556	43.5
Progeny Ag Products	P4955RX	RR2X	4.9		1.0	22.7	0	2.7	2505	43.1
Pioneer	P48T53	RR	4.8		1.0	23.7	0	2.0	2726	39.8
Credenz	CZ 4918 LL	LL	4.9		1.0	20.3	8	2.7	2750	39.1
University of Missouri	S14-15138R	RR/STS	4.8		1.0	20.0	0	2.7	2450	37.6
Hubner Seed	H49-29R2X	RR2X/STS	4.9		1.0	24.0	0	2.0	2730	37.2
USG	ELLIS	CONV	4.9		1.0	18.7	0	2.0	3256	34.0
Pioneer	P48A60X	RR2X	4.8		1.0	20.3	0	2.7	2379	33.7
University of Missouri	S14-9051R	RR	4.7		1.0	16.0	8	3.0	2524	26.9
LSD P=.10					0.2	3.2	4.6	0.5	126.5	7.3
CV					13	10	200	14	4	11
Grand Mean					1.1	24.7	1.7	2.3	2540.1	47.3

Table 5j. Performance of double-crop late maturity group IV entries at Warsaw VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Channel	4717	RR2X/STS	4.7	26-Oct	1.8	33.0	0	2.0	3178	61.2
Asgrow	AG48X9	RR2X/STS	4.8	26-Oct	1.6	31.3	0	2.0	2975	60.5
USG	7487XTS	RR2X/STS	4.8	28-Oct	1.9	35.7	0	3.0	2970	58.8
Hubner Seed	H49-27R2X	RR2X/STS	4.9	24-Oct	1.9	35.0	0	2.7	3096	57.6
Progeny Ag Products	P4955RX	RR2X	4.9	27-Oct	1.9	35.0	0	2.0	3114	57.2
Southern Harvest	SH 4817 LL	LL	4.8	21-Oct	1.8	32.3	0	2.0	3020	56.6
Dyna-Gro	S49XS76	RR2X/STS	4.9	28-Oct	1.8	32.0	0	2.3	3124	56.3
USG	74K95RS	RR2Y/STS	4.9	27-Oct	1.8	33.3	0	2.0	3349	55.9
Pioneer	P48A60X	RR2X	4.8	24-Oct	1.8	30.0	0	2.7	2874	54.6
Progeny Ag Products	P4851RX	RR2X	4.8	24-Oct	2.0	32.7	0	3.0	2869	54.4
Dyna-Gro	S46XS87	RR2X/STS	4.6	25-Oct	1.9	32.2	0	3.0	3114	54.0
Progeny Ag Products	P4994RX	RR2X	4.9	20-Oct	1.5	29.7	0	2.0	2988	53.7
Asgrow	AG47X9	RR2X	4.7	21-Oct	1.8	30.0	0	3.0	3220	52.4
VCIA	MO4901DGT	RR	4.9	21-Oct	2.1	32.3	0	2.7	3619	52.2
Axis	4817NRXS	RR2X	4.8	25-Oct	2.0	35.7	0	3.0	3029	52.0
Pioneer	P48T27	RR2	4.8	20-Oct	1.7	30.3	0	2.0	3199	51.9
University of Missouri	S14-15138R	RR/STS	4.8	27-Oct	1.7	28.0	0	2.3	3273	51.3
USG	7478XTS	RR2X/STS	4.7	22-Oct	1.8	30.7	0	2.3	3103	50.3
Progeny Ag Products	P4799RXS	RR2X/STS	4.7	26-Oct	1.7	34.0	0	3.0	2901	50.0
Growmark FS	HS48X70	RR2X	4.8	21-Oct	1.8	28.7	0	2.0	3235	49.5
Hubner Seed	H49-29R2X	RR2X/STS	4.9	27-Oct	1.8	31.7	0	3.0	3170	49.5
Asgrow	AG47X6	RR2X/STS	4.7	23-Oct	1.7	35.7	0	3.0	2943	49.1
Doebler's PA Hybrids	49R9	RR	4.9	24-Oct	1.6	32.0	0	2.0	2976	49.0
Credenz	CZ 4938 LL	LL	4.9	30-Oct	1.9	31.0	0	2.0	3299	47.9
Progeny Ag Products	P4816RX	RR2X	4.8	27-Oct	1.8	28.3	0	3.0	2560	47.0
Hubner Seed	H47-16R2	RR2X/STS	4.7	19-Oct	1.5	29.3	0	2.0	3117	46.8
Asgrow	AG48X7	RR2X/STS	4.8	22-Oct	1.5	34.0	0	2.0	3035	46.4
Credenz	CZ 4918 LL	LL	4.9	22-Oct	1.7	28.0	0	2.7	3097	44.9
University of Missouri	S14-9051R	RR	4.7	20-Oct	1.7	26.7	3	3.0	3317	44.6
USG	ELLIS	CONV	4.9	27-Oct	1.5	23.3	0	2.0	3484	44.3
Virginia Tech	V13-0113	RR	4.7	21-Oct	2.0	34.7	0	2.7	3214	43.9
Dyna-Gro	S48XS78	RR2X/STS	4.8	25-Oct	1.9	30.0	0	2.7	3243	42.4
Progeny Ag Products	P4757RY	RR2Y	4.7	21-Oct	1.6	31.0	0	3.0	3031	42.4
Pioneer	P48T53	RR	4.8	20-Oct	1.4	25.0	0	2.0	3416	37.2
USG	7496XTS	RR2X/STS	4.9	27-Oct	1.5	30.3	0	2.3	3098	33.5
LSD P=.10				2.7	0.3	3.1	1.3	0.4	132.1	8.8
CV				4	13	7	1039	12	3	13
Grand Mean				24-Oct	1.8	31.3	0.1	2.5	3121.2	50.4

Table 6a. Performance of full-season early maturity group V entries at Blackstone VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2		1.7	46.0	4	3.0	2769	66.6
Armor	X50D13	RR2X	5.0		2.8	43.7	0	3.0	2954	64.4
Asgrow	AG51X8	RR2X/STS	5.1		1.5	47.0	0	3.0	2630	64.3
Asgrow	AG52X9	RR2X/STS	5.2		1.7	44.0	0	3.0	2995	64.0
NK Brand	S52-Y7X	RR2X	5.2		1.5	42.0	5	3.0	3017	64.0
Pioneer	P52A43L	LL	5.2		1.8	34.7	0	3.0	3147	62.7
Pioneer	P52A26X	RR2X	5.2		2.8	46.0	0	3.0	3224	60.0
Pioneer	P54A75X	RR2X	5.4		1.5	31.0	0	3.0	3179	59.5
Hubner	H49-29R2X	RR2X/STS	4.9		1.8	45.7	0	3.0	3209	59.1
Southern Harvest	SH 5215 LL	LL	5.2		1.7	42.3	0	3.0	3063	59.1
Pioneer	P51A61X	RR2X	5.1		1.8	35.7	0	3.0	3596	57.3
Asgrow	AG54X9	RR2X	5.4		1.2	33.7	0	3.0	2963	55.7
Dyna-Gro	S52RS86	RR2Y/STS	5.2		2.2	47.7	0	3.0	2687	54.2
Dyna-Gro	SX18652XS	RR2X/STS	5.2		2.8	46.0	0	3.0	3283	51.3
Axis	5016NRXS	RR2X	5.0		1.8	43.0	0	3.0	3339	51.0
VCIA	Corbin	RR	5.3		1.7	28.7	0	3.0	2982	51.0
Credenz	CZ 5150 LL	LL	5.1		2.0	45.0	0	3.0	3202	50.4
Virginia Tech	V14-3982	CONV	5.2		1.0	25.7	0	3.0	2772	49.8
USG	7529XT	RR2X	5.2		1.7	42.3	0	3.0	3348	49.7
University of Arkansas	R14-14797RR	RR	5.2		2.2	34.7	0	3.0	2516	49.2
USG	5618V	CONV	5.4		1.0	32.0	0	3.0	3021	48.1
Credenz	CZ 5242 LL	LL	5.2		3.2	42.7	0	2.7	3444	47.9
Credenz	CZ 5147 LL	LL	5.1		1.7	35.7	0	3.0	3043	47.0
Virginia Tech	V13-3833	CONV	5.0		1.0	33.0	0	3.0	3164	46.7
Public	Glenn	CONV	5.5		1.5	28.7	0	3.0	3152	46.0
Armor	X52D71	RR2X	5.3		1.5	40.7	10	3.0	2930	45.0
Credenz	CZ 5375 RY	RR	5.3		3.2	33.7	0	3.0	2936	44.8
University of Arkansas	R14-356	CONV	5.2		2.0	31.3	0	3.0	3728	44.5
University of Arkansas	R11-982G	CONV	5.3		2.8	33.7	0	3.0	3040	42.9
Credenz	CZ 5328 LL	LL	5.3		2.5	37.7	0	3.0	2697	41.7
LSD P=.10					1.0	5.2	3.6	0.2	180.2	9.7
CV					37	10	424	4	4	13
Grand Mean					1.9	38.5	0.6	3.0	3068.4	53.1

Table 6b. Performance of full-season early maturity group V entries at Orange VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Asgrow	AG52X9	RR2X/STS	5.2		1.3	44.3	0	3.0	2979	79.7
Pioneer	P52A26X	RR2X	5.2		2.5	48.7	0	3.0	3015	74.8
Armor	X50D13	RR2X	5.0		2.8	45.3	0	3.0	2949	73.0
Pioneer	P54A75X	RR2X	5.4		4.2	37.7	0	3.0	3275	68.6
Hubner	H49-29R2X	RR2X/STS	4.9		1.5	47.0	0	3.0	3125	68.1
Virginia Tech	V14-3982	CONV	5.2		1.5	35.0	0	3.0	2975	67.3
Dyna-Gro	S52RS86	RR2Y/STS	5.2		3.0	45.0	0	3.0	2788	66.7
Pioneer	P51A61X	RR2X	5.1		3.7	44.3	0	3.0	3688	65.7
Axis	5016NRXS	RR2X	5.0		2.0	40.3	0	3.0	3143	63.3
Virginia Tech	V13-3833	CONV	5.0		2.2	36.0	0	2.0	3565	62.8
Pioneer	P52A43L	LL	5.2		3.0	40.0	0	3.0	3319	62.4
Armor	X52D71	RR2X	5.3		1.5	44.7	0	2.0	3042	62.0
Public	Glenn	CONV	5.5		4.0	34.3	0	3.0	3412	61.6
Credenz	CZ 5150 LL	LL	5.1		1.3	47.3	0	3.0	3480	60.9
USG	5618V	CONV	5.4		2.8	37.7	0	2.0	3086	58.9
Southern Harvest	SH 5215 LL	LL	5.2		1.3	46.0	0	2.7	3525	58.8
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2		2.8	46.3	0	3.0	3088	58.6
Asgrow	AG51X8	RR2X/STS	5.1		4.5	48.0	0	3.7	2743	58.2
VCIA	Corbin	RR	5.3		2.8	43.0	0	3.0	3301	57.5
Asgrow	AG54X9	RR2X	5.4		3.3	38.7	0	3.0	3228	57.1
NK Brand	S52-Y7X	RR2X	5.2		1.5	40.3	3	3.0	3446	56.4
Dyna-Gro	SX18652XS	RR2X/STS	5.2		2.0	45.7	0	3.0	3667	54.9
University of Arkansas	R14-356	CONV	5.2		5.0	33.0	0	3.0	4292	53.9
University of Arkansas	R14-14797RR	RR	5.2		4.5	39.3	0	3.0	3022	53.5
Credenz	CZ 5375 RY	RR	5.3		2.5	42.7	0	2.0	3330	53.1
Credenz	CZ 5147 LL	LL	5.1		3.3	40.3	0	2.0	3176	52.8
Credenz	CZ 5328 LL	LL	5.3		3.5	42.3	0	3.0	2895	51.5
University of Arkansas	R11-982G	CONV	5.3		4.0	39.3	0	2.0	3753	49.2
USG	7529XT	RR2X	5.2		2.8	46.3	0	3.0	3380	49.1
Credenz	CZ 5242 LL	LL	5.2		2.7	47.0	0	2.0	4044	45.8
LSD P=.10					1.2	4.9	1.4	0.2	240.9	8.1
CV					31	9	949	5	5	10
Grand Mean					2.8	42.2	0.1	2.8	3291.0	60.4

Table 6c. Performance of full-season early maturity group V entries at Painter VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Pioneer	P54A75X	RR2X	5.4		1.7	28.0	0	2.0	2904	67.5
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2		1.7	40.0	0	2.0	2635	66.7
Dyna-Gro	S52RS86	RR2Y/STS	5.2		1.8	39.7	0	2.0	2654	65.1
Pioneer	P52A26X	RR2X	5.2		1.7	42.7	8	3.0	2642	64.2
Credenz	CZ 5328 LL	LL	5.3		2.0	35.3	0	3.0	2678	63.6
Pioneer	P51A61X	RR2X	5.1		2.3	33.3	0	2.3	3322	62.9
Armor	X50D13	RR2X	5.0		1.8	38.7	0	2.7	2464	62.4
University of Arkansas	R14-14797RR	RR	5.2		1.8	37.0	0	2.0	2542	62.4
Credenz	CZ 5147 LL	LL	5.1		1.8	30.7	0	2.0	2956	62.1
Credenz	CZ 5375 RY	RR	5.3		1.5	34.3	0	2.0	2915	60.8
Armor	X52D71	RR2X	5.3		1.2	38.3	0	2.0	2455	60.4
Asgrow	AG51X8	RR2X/STS	5.1		1.7	44.0	0	3.0	2317	60.4
Southern Harvest	SH 5215 LL	LL	5.2		1.5	39.3	0	3.0	3125	60.3
VCIA	Corbin	RR	5.3		1.7	29.7	0	2.7	2725	58.3
Pioneer	P52A43L	LL	5.2		1.8	32.0	0	2.0	2967	57.5
University of Arkansas	R14-356	CONV	5.2		2.5	34.7	0	2.0	3248	57.4
NK Brand	S52-Y7X	RR2X	5.2		1.2	37.3	0	2.3	2751	57.3
Credenz	CZ 5150 LL	LL	5.1		1.2	38.7	0	2.0	3048	56.9
USG	7529XT	RR2X	5.2		1.5	40.7	0	2.0	3103	56.9
Dyna-Gro	SX18652XS	RR2X/STS	5.2		1.7	40.7	0	2.0	3030	55.8
Asgrow	AG54X9	RR2X	5.4		1.5	33.7	0	2.0	2646	55.7
Asgrow	AG52X9	RR2X/STS	5.2		1.3	37.7	0	2.3	2573	55.3
Credenz	CZ 5242 LL	LL	5.2		1.8	39.0	0	2.0	3091	54.8
Virginia Tech	V13-3833	CONV	5.0		1.0	29.3	0	2.7	2854	54.1
University of Arkansas	R11-982G	CONV	5.3		2.7	32.3	0	2.0	3092	53.8
USG	5618V	CONV	5.4		1.8	34.3	0	2.0	2714	52.6
Public	Glenn	CONV	5.5		1.2	26.0	0	2.0	2599	51.4
Axis	5016NRXS	RR2X	5.0		1.7	37.3	9	3.0	2704	50.5
Hubner	H49-29R2X	RR2X/STS	4.9		1.8	38.7	0	2.3	2812	50.1
Virginia Tech	V14-3982	CONV	5.2		1.0	26.3	0	2.7	2325	49.1
LSD P=.10					0.4	2.7	2.6	0.4	126.4	6.7
CV					16	6	347	13	3	8
Grand Mean					1.7	35.7	0.6	2.3	2796.4	58.2

Table 6d. Performance of full-season early maturity group V entries at Suffolk VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Pioneer	P54A75X	RR2X	5.4	14-Oct	1.2	29.7	0	3.0	3070	83.2
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2	18-Oct	2.0	40.7	0	3.3	2679	81.5
Dyna-Gro	SX18652XS	RR2X/STS	5.2	18-Oct	1.3	35.3	0	3.0	3157	78.9
Asgrow	AG54X9	RR2X	5.4	13-Oct	1.0	30.3	0	3.0	2702	78.6
Southern Harvest	SH 5215 LL	LL	5.2	21-Oct	1.2	35.7	0	3.3	2900	78.1
Dyna-Gro	S52RS86	RR2Y/STS	5.2	21-Oct	1.8	40.7	11	3.3	2728	72.6
USG	7529XT	RR2X	5.2	21-Oct	1.3	37.7	0	4.0	3229	72.1
Pioneer	P51A61X	RR2X	5.1	14-Oct	1.3	28.7	0	3.3	3020	71.9
Pioneer	P52A43L	LL	5.2	18-Oct	1.0	26.3	0	4.0	2605	71.0
Armor	X50D13	RR2X	5.0	21-Oct	1.2	38.3	0	4.3	2601	70.4
NK Brand	S52-Y7X	RR2X	5.2	21-Oct	1.0	35.0	0	4.3	2873	70.2
Asgrow	AG52X9	RR2X/STS	5.2	18-Oct	1.0	32.3	0	3.3	2584	68.1
Credenz	CZ 5242 LL	LL	5.2	21-Oct	1.7	37.7	0	3.3	2840	68.1
Credenz	CZ 5150 LL	LL	5.1	18-Oct	1.2	38.7	0	4.0	2971	67.4
USG	5618V	CONV	5.4	18-Oct	1.0	29.7	0	3.0	2605	66.4
Pioneer	P52A26X	RR2X	5.2	18-Oct	1.2	36.0	11	4.0	2761	65.1
VCIA	Corbin	RR	5.3	21-Oct	1.0	24.0	0	4.0	2880	63.2
Credenz	CZ 5375 RY	RR	5.3	23-Oct	1.2	31.0	0	3.0	3155	63.0
Axis	5016NRXS	RR2X	5.0	21-Oct	1.0	36.7	12	4.0	2733	62.8
University of Arkansas	R14-14797RR	RR	5.2	21-Oct	1.0	28.7	0	4.0	2542	61.1
Hubner	H49-29R2X	RR2X/STS	4.9	21-Oct	1.5	37.3	0	4.7	2697	60.5
Asgrow	AG51X8	RR2X/STS	5.1	17-Oct	1.3	40.0	0	5.0	2535	59.3
Armor	X52D71	RR2X	5.3	18-Oct	1.0	31.3	10	4.3	2629	59.1
Credenz	CZ 5147 LL	LL	5.1	16-Oct	1.0	24.3	0	4.0	3090	58.6
Public	Glenn	CONV	5.5	21-Oct	1.0	19.0	0	4.0	2562	54.4
Credenz	CZ 5328 LL	LL	5.3	15-Oct	1.0	30.0	0	3.7	2329	54.2
University of Arkansas	R11-982G	CONV	5.3	21-Oct	1.2	25.3	0	4.3	2905	50.8
Virginia Tech	V14-3982	CONV	5.2	21-Oct	1.0	23.3	0	4.0	2401	50.1
University of Arkansas	R14-356	CONV	5.2	21-Oct	1.0	25.0	0	3.7	3159	46.2
Virginia Tech	V13-3833	CONV	5.0	18-Oct	1.0	17.3	10	4.0	2645	40.2
LSD P=.10				4.0	0.4	4.8	5.7	0.7	204.3	9.0
CV				6	24	11	231	13	5	10
Grand Mean				19-Oct	1.2	31.5	1.8	3.8	2786.3	64.7

Table 6e. Performance of full-season early maturity group V entries at Warsaw VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2	19-Oct	3.0	44.3	0	2.0	2963	81.4
Armor	X50D13	RR2X	5.0	17-Oct	2.8	46.3	0	2.7	3163	79.2
Dyna-Gro	S52RS86	RR2Y/STS	5.2	19-Oct	2.9	43.7	0	2.0	2949	78.7
Armor	X52D71	RR2X	5.3	18-Oct	2.1	45.7	0	2.0	3289	78.5
Hubner	H49-29R2X	RR2X/STS	4.9	15-Oct	2.6	47.0	0	2.0	3339	77.2
Axis	5016NRXS	RR2X	5.0	15-Oct	2.4	43.0	0	2.0	3200	76.3
Credenz	CZ 5150 LL	LL	5.1	15-Oct	2.0	43.7	0	3.0	3232	76.3
Asgrow	AG52X9	RR2X/STS	5.2	15-Oct	2.2	43.7	0	2.0	3089	76.2
USG	7529XT	RR2X	5.2	16-Oct	2.8	42.3	0	2.0	3703	74.7
Dyna-Gro	SX18652XS	RR2X/STS	5.2	18-Oct	2.8	43.7	0	2.3	3520	73.6
Pioneer	P52A26X	RR2X	5.2	15-Oct	2.2	45.0	0	2.0	3221	73.6
Credenz	CZ 5375 RY	RR	5.3	22-Oct	3.2	35.3	0	2.0	3037	73.5
Asgrow	AG54X9	RR2X	5.4	16-Oct	3.2	37.3	0	2.0	3274	73.0
Pioneer	P54A75X	RR2X	5.4	16-Oct	2.9	35.3	0	2.0	3706	73.0
Virginia Tech	V14-3982	CONV	5.2	14-Oct	2.2	33.0	0	2.0	3089	72.1
USG	5618V	CONV	5.4	16-Oct	3.0	36.7	0	2.0	3205	71.8
Credenz	CZ 5147 LL	LL	5.1	17-Oct	2.9	36.7	0	3.0	3511	71.5
Virginia Tech	V13-3833	CONV	5.0	11-Oct	2.1	35.3	0	2.0	3634	71.3
Credenz	CZ 5242 LL	LL	5.2	17-Oct	2.5	42.0	0	2.0	3626	71.1
University of Arkansas	R11-982G	CONV	5.3	19-Oct	3.8	35.3	0	2.0	3424	71.1
Southern Harvest	SH 5215 LL	LL	5.2	15-Oct	1.6	44.0	0	2.0	3558	70.0
Public	Glenn	CONV	5.5	15-Oct	3.2	33.3	0	2.0	3446	69.8
University of Arkansas	R14-14797RR	RR	5.2	19-Oct	3.4	38.0	0	2.0	2923	69.6
Pioneer	P52A43L	LL	5.2	16-Oct	3.0	34.0	0	2.0	3438	68.6
Pioneer	P51A61X	RR2X	5.1	11-Oct	2.9	39.3	0	2.7	3973	67.0
NK Brand	S52-Y7X	RR2X	5.2	13-Oct	2.1	39.7	0	2.0	3407	66.3
Credenz	CZ 5328 LL	LL	5.3	16-Oct	3.2	41.7	0	2.0	2936	65.9
VCIA	Corbin	RR	5.3	16-Oct	3.4	35.0	0	2.0	3308	63.5
University of Arkansas	R14-356	CONV	5.2	17-Oct	3.7	32.7	0	2.0	4103	59.7
Asgrow	AG51X8	RR2X/STS	5.1	5-Oct	4.8	47.0	0	3.0	3532	32.2
LSD P=.10				1.3	0.6	2.4	0.0	0.3	185.1	5.6
CV				2	14	4	0	9	4	6
Grand Mean				16-Oct	2.8	40.0	0.0	2.2	3359.9	70.9

Table 6f. Performance of double-crop early maturity group V entries at Blackstone VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Progeny Ag Products	P5018RX	RR2X/STS	5.2		1.5	41.7	0	2.3	2450	72.9
Dyna-Gro	SX18652XS	RR2X	5.2		1.8	41.3	0	2.0	2786	65.8
Virginia Tech	V14-3982	RR2X	5.4		2.0	38.0	0	2.0	2478	65.7
Virginia Tech	V13-3833	RR2X/STS	5.0		2.0	39.7	0	2.0	2791	65.2
Asgrow	AG54X9	RR2X/STS	5.1		1.8	39.7	0	2.0	2532	64.8
Progeny Ag Products	P5016RXS	RR2Y/STS	5.2		1.5	43.0	0	2.0	2625	63.8
Asgrow	AG52X9	LL	5.2		1.2	42.3	0	2.0	2370	63.6
Mid-Atlantic Seeds	MAS5034NRR2/STS/X	RR2X/STS	5.0		1.3	44.7	0	2.0	2610	63.2
Asgrow	AG51X8	CONV	5.2		1.3	45.7	0	2.0	2075	63.1
Progeny Ag Products	P5554RX	LL	5.2		2.2	43.0	0	2.0	2414	63.0
Growmark FS	HiSoy 52T60	LL	5.4		1.7	43.0	0	2.0	2446	62.8
Axis	5016NRXS	RR2X	5.0		1.3	41.0	0	2.7	2548	62.7
Progeny Ag Products	P5414LLS	LL/STS	5.4		3.2	179.0	0	2.3	2478	62.5
Progeny Ag Products	P5226RYS	RR2Y/STS	5.2		2.0	37.3	0	2.0	2319	62.3
USG	7529XT	RR2X/STS	5.2		1.8	39.3	0	2.0	2809	61.8
Southern Harvest	SH 5215 LL	RR2Y/STS	5.2		1.0	41.3	0	2.3	2679	61.2
Progeny Ag Products	P5279RXS	CONV	5.0		1.0	39.7	0	2.0	2595	59.6
Dyna-Gro	S52RS86	RR2X	5.4		1.8	41.7	0	2.0	2372	59.3
USG	5618V	RR2X	5.2		2.2	42.3	0	2.0	2708	58.7
Progeny Ag Products	P5252RX	RR2X	5.4		1.7	35.9	0	2.0	2609	58.4
Pioneer	P52A43L	RR	5.3		1.8	36.7	0	2.7	2435	55.3
VCIA	Corbin	RR2X	5.0		3.3	41.7	0	2.3	2462	54.2
Pioneer	P54A75X	RR2X/STS	5.2		3.2	37.0	0	2.0	2661	54.1
Credenz	CZ 5445 LL	CONV	5.4		3.2	37.3	0	2.0	2578	54.0
LSD P=.10					0.7	65.2	0.0	0.5	127.1	9.0
CV					26	102	0	17	4	11
Grand Mean					1.9	46.6	0.0	2.1	2534.6	61.6

Table 6g. Performance of double-crop early maturity group V entries at Orange VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Mid-Atlantic Seeds	MAS5034NRR2/STS/X	RR2X/STS	5.0		2.8	41.7	0	2.0	2853	76.1
Progeny Ag Products	P5016RXS	RR2X/STS	5.0		3.5	43.3	0	2.0	2889	74.4
Progeny Ag Products	P5018RX	RR2X	5.0		2.3	40.3	0	2.0	2735	72.9
Asgrow	AG52X9	RR2X/STS	5.2		2.7	41.7	0	2.0	2438	72.8
Pioneer	P54A75X	RR2X	5.4		3.0	38.7	0	2.0	2860	72.0
Dyna-Gro	SX18652XS	RR2X/STS	5.2		2.8	41.3	0	2.0	2927	70.6
Axis	5016NRXS	RR2X	5.0		2.2	40.3	0	2.0	2858	70.0
Progeny Ag Products	P5226RYS	RR2Y/STS	5.2		2.5	44.3	0	2.0	2728	68.7
Virginia Tech	V14-3982	CONV	5.2		3.2	38.0	0	2.0	2527	66.9
USG	7529XT	RR2X	5.2		3.0	42.7	0	2.0	2968	66.6
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2		3.3	43.3	0	2.0	2601	65.5
Southern Harvest	SH 5215 LL	LL	5.2		2.0	40.7	0	2.0	2781	65.3
Asgrow	AG51X8	RR2X/STS	5.1		4.5	48.3	0	2.0	2389	64.4
USG	5618V	CONV	5.4		3.8	39.0	0	2.0	2661	63.1
Progeny Ag Products	P5252RX	RR2X	5.2		2.8	37.7	0	2.0	2988	62.8
Dyna-Gro	S52RS86	RR2Y/STS	5.2		3.8	44.7	0	2.0	2768	60.2
Asgrow	AG54X9	RR2X	5.4		3.0	37.3	0	2.0	2792	59.2
Progeny Ag Products	P5279RXS	RR2X/STS	5.2		2.5	38.7	0	2.0	2880	58.5
Progeny Ag Products	P5554RX	RR2X	5.4		3.3	39.0	0	2.0	2519	58.5
Credenz	CZ 5445 LL	LL	5.4		3.3	35.3	0	2.0	2855	58.1
Virginia Tech	V13-3833	CONV	5.0		3.5	38.3	0	2.0	3165	56.4
VCIA	Corbin	RR	5.3		4.0	42.0	0	2.0	2792	48.9
Progeny Ag Products	P5414LLS	LL/STS	5.4		4.2	43.7	0	2.0	2741	48.8
Pioneer	P52A43L	LL	5.2		4.0	38.3	0	2.0	2798	38.3
LSD P=.10					0.8	3.4	0.0	0.0	165.6	8.48
CV					18	6	0	0	4	10
Grand Mean					3.2	40.78	0	2.0	2771.4	63.72

Table 6h. Performance of double-crop early maturity group V entries at Painter VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Mid-Atlantic Seeds	MAS5034NRR2/STS/X	RR2X/STS	5.0		1.1	39.4	0	2.0	2822	68.5
Progeny Ag Products	P5018RX	RR2X	5.0		1.3	38.7	0	2.0	2694	68.0
Growmak FS	HiSoy 52T60	RR2Y/STS	5.2		1.3	38.3	0	2.0	2611	67.4
Progeny Ag Products	P5226RYS	RR2Y/STS	5.2		1.2	41.7	0	2.0	2606	66.1
Asgrow	AG52X9	RR2X/STS	5.2		1.3	34.3	0	2.0	2646	64.8
Progeny Ag Products	P5279RXS	RR2X/STS	5.2		1.2	40.0	0	2.0	2874	63.4
Axis	5016NRXS	RR2X	5.0		1.2	38.9	0	2.0	2951	63.1
Asgrow	AG51X8	RR2X/STS	5.1		1.3	41.3	0	2.0	2532	62.5
Virginia Tech	V13-3833	CONV	5.0		1.2	32.9	0	2.0	3111	62.2
Dyna-Gro	S52RS86	RR2Y/STS	5.2		1.7	41.3	0	2.0	2606	60.8
Asgrow	AG54X9	RR2X	5.4		1.3	35.7	0	2.0	2509	60.5
Southern Harvest	SH 5215 LL	LL	5.2		1.0	35.7	0	2.0	3077	60.1
Pioneer	P54A75X	RR2X	5.4		2.0	35.0	0	2.0	2863	59.9
Virginia Tech	V14-3982	CONV	5.2		1.2	35.3	0	2.0	2601	59.6
Progeny Ag Products	P5554RX	RR2X	5.4		1.5	35.4	0	2.7	2415	58.5
Pioneer	P52A43L	LL	5.2		1.2	34.3	0	2.0	2637	58.3
Credenz	CZ 5445 LL	LL	5.4		1.3	31.7	0	2.0	2650	58.2
Progeny Ag Products	P5016RXS	RR2X/STS	5.0		1.5	37.7	0	2.0	2862	58.0
Progeny Ag Products	P5252RX	RR2X	5.2		1.3	36.7	0	2.0	2850	57.2
USG	7529XT	RR2X	5.2		1.3	36.0	0	2.0	3071	57.1
USG	5618V	CONV	5.4		2.2	37.3	0	2.0	2803	56.9
Dyna-Gro	SX18652XS	RR2X/STS	5.2		1.3	35.9	0	2.0	3146	56.1
Progeny Ag Products	P5414LLS	LL/STS	5.4		2.2	39.7	0	2.0	2345	55.4
VCIA	Corbin	RR	5.3		2.5	35.0	0	2.0	2709	47.3
LSD P=.10					0.6	2.8	0.0	0.2	118.6	5.5
CV					28	5	0	6	3	7
Grand Mean					1.5	37.0	0.0	2.0	2749.5	60.2

Table 6i. Performance of double-crop early maturity group V entries at Suffolk VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Dyna-Gro	SX18652XS	RR2X/STS	5.2		1.0	25.0	0	3.0	2651	53.3
Progeny Ag Products	P5554RX	RR2X	5.4		1.0	22.7	0	3.3	2574	51.7
Asgrow	AG54X9	RR2X	5.4		1.0	21.3	0	4.0	2728	50.8
Pioneer	P54A75X	RR2X	5.4		1.2	26.3	0	4.0	2936	50.6
Progeny Ag Products	P5252RX	RR2X	5.2		1.0	23.0	0	3.3	2915	50.2
USG	7529XT	RR2X	5.2		1.0	23.7	0	3.0	2924	49.6
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2		1.0	22.0	0	3.0	2530	49.2
Dyna-Gro	S52RS86	RR2Y/STS	5.2		1.0	20.3	0	3.0	3099	48.8
Virginia Tech	V14-3982	CONV	5.2		1.0	22.3	0	3.7	2640	48.8
Progeny Ag Products	P5279RXS	RR2X/STS	5.2		1.0	22.0	9	4.0	2577	48.3
Progeny Ag Products	P5414LLS	LL/STS	5.4		1.0	29.3	0	4.0	2823	47.4
Progeny Ag Products	P5016RXS	RR2X/STS	5.0		1.0	20.0	0	3.0	2859	47.1
Asgrow	AG51X8	RR2X/STS	5.1		1.0	27.0	0	4.0	2361	46.8
VCIA	Corbin	RR	5.3		1.2	24.0	0	3.0	2940	46.5
Southern Harvest	SH 5215 LL	LL	5.2		1.0	20.3	0	3.0	3002	45.8
Mid-Atlantic Seeds	MAS5034NRR2/STS/X	RR2X/STS	5.0		1.0	20.0	6	4.0	2651	44.9
Progeny Ag Products	P5226RYS	RR2Y/STS	5.2		1.0	20.0	0	3.0	2466	44.1
USG	5618V	CONV	5.4		1.0	23.0	0	4.0	3035	44.1
Progeny Ag Products	P5018RX	RR2X	5.0		1.0	20.7	0	4.0	2670	42.1
Pioneer	P52A43L	LL	5.2		1.0	17.7	0	4.0	2657	41.9
Axis	5016NRXS	RR2X	5.0		1.0	21.0	0	3.0	2755	40.6
Credenz	CZ 5445 LL	LL	5.4		1.0	22.7	0	3.0	3120	39.1
Asgrow	AG52X9	RR2X/STS	5.2		1.0	20.0	0	3.0	2741	38.7
Virginia Tech	V13-3833	CONV	5.0		1.0	18.7	0	4.0	2673	38.0
LSD P=.10					0.1	3.2	3.6	0.3	179.1	8.1
CV					8	11	421	6	5	13
Grand Mean					1.0	22.2	0.6	3.5	2763.6	46.1

Table 6j. Performance of double-crop early maturity group V entries at Warsaw VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)
Mid-Atlantic Seeds	MAS5034NRR2/STS/X	RR2X/STS	5	28-Oct	1.9	36.3	0	2.0	3131	65.8
Virginia Tech	V13-3833	CONV	5	24-Oct	1.7	28.0	0	2.0	3245	65.2
Dyna-Gro	S52RS86	RR2Y/STS	5.2	3-Nov	2.4	34.7	0	2.0	2739	64.6
Progeny Ag Products	P5018RX	RR2X	5	30-Oct	2.2	31.3	0	2.7	3017	64.2
Southern Harvest	SH 5215 LL	LL	5.2	30-Oct	1.9	32.3	0	3.0	3182	63.1
Growmark FS	HiSoy 52T60	RR2Y/STS	5.2	31-Oct	2.0	32.3	0	2.3	2881	59.0
Asgrow	AG54X9	RR2X	5.4	28-Oct	2.0	29.0	0	3.0	2989	58.8
USG	7529XT	RR2X	5.2	31-Oct	2.1	31.0	0	2.0	3278	58.7
Dyna-Gro	SX18652XS	RR2X/STS	5.2	31-Oct	2.3	33.7	0	2.0	3217	57.9
Virginia Tech	V14-3982	CONV	5.2	27-Oct	1.8	27.0	0	2.0	2810	57.9
Progeny Ag Products	P5414LLS	LL/STS	5.4	31-Oct	2.2	34.3	0	3.0	2747	56.4
Progeny Ag Products	P5554RX	RR2X	5.4	29-Oct	2.2	28.3	0	2.3	2894	56.4
Pioneer	P52A43L	LL	5.2	29-Oct	1.9	25.0	0	2.0	2924	56.3
Pioneer	P54A75X	RR2X	5.4	28-Oct	1.7	23.3	0	2.7	3366	54.9
Asgrow	AG52X9	RR2X/STS	5.2	30-Oct	2.0	29.3	0	2.0	2962	53.1
VCIA	Corbin	RR	5.3	28-Oct	2.4	26.3	0	3.0	3166	53.1
Progeny Ag Products	P5016RXS	RR2X/STS	5	30-Oct	1.9	33.7	0	3.0	3068	52.5
USG	5618V	CONV	5.4	28-Oct	1.9	28.7	0	3.0	2892	52.3
Progeny Ag Products	P5279RXS	RR2X/STS	5.2	22-Oct	1.8	31.7	0	3.0	2937	52.0
Progeny Ag Products	P5252RX	RR2X	5.2	1-Nov	2.2	28.7	0	2.0	3184	50.2
Progeny Ag Products	P5226RYS	RR2Y/STS	5.2	31-Oct	2.4	32.7	0	2.3	2682	50.1
Axis	5016NRXS	RR2X	5	28-Oct	1.9	34.0	0	3.0	3154	49.3
Asgrow	AG51X8	RR2X/STS	5.1	29-Oct	2.5	38.0	0	3.0	2716	45.3
Credenz	CZ 5445 LL	LL	5.4	29-Oct	1.6	23.3	0	3.0	3049	17.0
LSD P=.10				2.4	0.37	3.3	0.0	0.4	134	8.2
CV				2	13	8	0	11	3	10.9
Grand Mean				29-Oct	2.0	30.5	0.0	2.5	3009.6	54.8

Table 7a. Performance of full-season late maturity group V entries at Blackstone VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
							Quality (1-5)	Seed Size (Seed/lb)	
Dyna-Gro	S56XT99	RR2X	5.6	1.2	38.0	0	2.0	2799	68.9
Asgrow	AG56X8	RR2X	5.6	1.0	37.3	0	3.0	2826	65.3
MorSoy	MS 5607	RR2X	5.6	1.5	39.3	0	2.3	3016	64.0
NK Brand	S57-A7X	RR2X	5.7	1.3	36.3	0	2.0	2779	62.7
Axis	5618NRX	RR2X	5.6	1.3	38.0	0	2.3	2828	61.2
Doebler's PA Hybrids	56R8	RR	5.6	3.0	37.7	0	2.7	2892	60.5
Armor	X62D60	RR2X	6.2	2.2	32.7	0	2.0	2887	60.4
Armor	X55D57	RR2X	5.5	1.2	34.3	0	3.3	2892	59.7
Virginia Tech	V14-3821	CONV	5.6	1.5	31.0	0	3.7	2491	59.6
Dyna-Gro	S58RY78	RR2Y	5.8	1.0	34.3	0	2.0	3320	58.2
Virginia Tech	V12-1416	RR	5.7	1.3	33.7	0	2.0	3326	58.1
Hubner Seed	H57-18R2X	RR2X/STS	5.7	1.0	31.0	0	2.0	3475	58.0
MorSoy	MS 6208	RR2X	6.2	2.2	33.0	0	2.0	2864	57.5
Southern Harvest	SH 5215 LL	LL	5.2	1.7	42.3	0	2.7	3285	56.4
USG	5618V	CONV	5.6	1.3	32.0	0	2.3	3075	55.1
Armor	55-R68	RR2X	5.5	2.3	34.3	0	3.0	2730	53.6
Asgrow	AG55X7	RR2X	5.5	1.0	30.3	0	2.7	3531	53.4
Doebler's PA Hybrids	DB6017R	RR	6.0	2.8	38.7	0	3.0	2824	53.0
USG	75B75R	RR2Y	5.7	1.2	39.3	0	2.0	2980	51.6
Southern Harvest	SH 6515 LL	LL	6.5	2.5	36.7	0	2.0	2748	51.5
Southern Harvest	SH 5515 LL	LL	5.5	1.7	40.0	0	2.0	3613	50.5
NK Brand	S64-T4X	RR2X	6.4	3.5	39.0	0	2.3	2786	49.9
Virginia Tech	V14-3983	CONV	5.5	1.0	24.0	0	2.7	3184	45.7
Armor	X65D19	RR2X	6.5	3.5	135.7	0	2.0	2599	45.5
Public	Glenn	CONV	5.5	2.2	29.7	0	4.0	3431	44.4
University of Missouri	S13-1955C	CONV	5.5	2.2	31.3	0	2.0	3614	44.0
Credenz	CZ 6316 LL	LL/STS	6.3	2.3	40.0	0	2.0	3579	40.8
Credenz	CZ 5947 LL	LL	5.9	3.2	36.7	0	2.0	3232	39.8
University of Missouri	S15-10434C	CONV	5.5	2.7	34.7	0	2.0	3322	39.7
Credenz	CZ 5515 LL	LL	5.5	2.5	49.7	0	3.0	2962	39.4
Virginia Tech	V12-0045R2	RR2Y	5.6	1.7	29.0	8	2.3	2704	38.9
Credenz	CZ 6109 LL	LL	6.1	2.8	30.7	0	2.0	2699	38.0
Southern Harvest	SH 5915 LL	LL	5.9	2.7	34.0	0	2.0	3089	34.9
LSD P=.10				0.8	40.7	1.6	0.5	150.4	10.4
CV				31	78	510	14	4	15
Grand Mean				2.0	38.3	0.2	2.4	3041.8	52.1

Table 7b. Performance of full-season late maturity group V entries at Orange VA, 2018*.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		
								Quality (1-5)	Seed Size (Seed/lb)	Yield (Bu/A)*
Dyna-Gro	S58RY78	RR2Y	5.8		1.7	39.0	0	4.0	3589	27.3
Southern Harvest	SH 5215 LL	LL	5.2		1.8	45.0	0	4.0	3529	27.2
Virginia Tech	V12-0045R2	RR2Y	5.6		2.3	36.3	0	4.0	3049	26.4
Credenz	CZ 5515 LL	LL	5.5		2.8	50.7	0	3.0	3185	26.3
NK Brand	S64-T4X	RR2X	6.4		3.3	39.3	0	3.0	3513	24.5
Armor	X65D19	RR2X	6.5		2.5	38.7	0	3.0	3157	22.9
Southern Harvest	SH 5515 LL	LL	5.5		1.8	47.3	0	3.3	3742	21.4
Virginia Tech	V12-1416	RR	5.7		2.3	38.3	0	3.0	3434	21.3
University of Missouri	S13-1955C	CONV	5.5		3.3	35.3	0	3.7	3958	20.6
Hubner Seed	H57-18R2X	RR2X/STS	5.7		2.3	39.0	0	4.0	3568	20.4
MorSoy	MS 5607	RR2X	5.6		2.7	40.0	0	3.7	3261	18.8
Southern Harvest	SH 5915 LL	LL	5.9		2.7	40.7	0	3.0	3623	18.0
Doebler's PA Hybrids	56R8	RR	5.6		3.3	40.3	0	3.0	3449	17.8
Armor	X62D60	RR2X	6.2		1.8	40.7	0	3.0	3277	17.5
NK Brand	S57-A7X	RR2X	5.7		1.7	42.3	0	3.7	3375	17.4
MorSoy	MS 6208	RR2X	6.2		2.7	40.7	0	3.0	3276	16.6
Doebler's PA Hybrids	DB6017R	RR	6.0		3.2	43.0	0	4.0	2845	16.5
Armor	55-R68	RR2X	5.5		3.7	38.3	0	3.0	3529	16.3
Credenz	CZ 6316 LL	LL/STS	6.3		1.7	42.0	0	3.0	3848	16.3
Dyna-Gro	S56XT99	RR2X	5.6		2.7	41.3	0	4.0	3082	16.3
Axis	5618NRX	RR2X	5.6		2.3	40.0	0	3.7	3487	15.6
Southern Harvest	SH 6515 LL	LL	6.5		2.2	43.7	0	3.0	3071	14.8
USG	75B75R	RR2Y	5.7		2.2	44.3	0	3.3	3125	14.5
Credenz	CZ 6109 LL	LL	6.1		2.7	43.3	0	3.0	3406	13.8
Credenz	CZ 5947 LL	LL	5.9		3.2	42.3	0	3.3	3926	13.6
USG	5618V	CONV	5.6		1.3	38.3	0	4.0	3206	13.5
Virginia Tech	V14-3821	CONV	5.6		2.7	39.7	0	4.0	2858	13.5
Asgrow	AG55X7	RR2X	5.5		2.0	39.0	0	3.7	3701	13.4
Public	Glenn	CONV	5.5		4.0	34.0	0	3.3	3357	13.4
Armor	X55D57	RR2X	5.5		2.2	40.3	0	3.0	2956	13.3
Asgrow	AG56X8	RR2X	5.6		2.7	38.0	0	3.7	3350	12.3
Virginia Tech	V14-3983	CONV	5.5		1.2	33.0	0	3.0	3452	10.3
University of Missouri	S15-10434C	CONV	5.5		3.2	34.7	0	3.0	4355	8.1
LSD P=.10					0.9	4.5	0.0	0.4	266.2	10.5
CV					28	8	0	9	6	14
Grand Mean					2.5	40.3	0.0	3.4	3413.8	55.6

*Severe deer damage reduced yields in all plots. These data were not included in averages.

Table 7c. Performance of full-season late maturity group V entries at Painter VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Dyna-Gro	S56XT99	RR2X	5.6		1.5	34.3	0	2.0	2645	75.7
Armor	X55D57	RR2X	5.5		1.7	34.7	0	2.0	2626	75.2
Axis	5618NRX	RR2X	5.6		1.7	35.0	0	2.7	2676	71.6
University of Missouri	S15-10434C	CONV	5.5		2.0	35.3	0	2.0	3347	69.6
USG	75B75R	RR2Y	5.7		1.5	39.7	0	2.3	2919	69.2
MorSoy	MS 5607	RR2X	5.6		1.7	34.7	0	2.3	2742	67.8
Asgrow	AG56X8	RR2X	5.6		1.5	36.0	0	2.3	2611	67.7
NK Brand	S57-A7X	RR2X	5.7		1.7	37.7	0	2.0	2786	66.8
University of Missouri	S13-1955C	CONV	5.5		2.2	35.0	0	2.0	3055	66.3
Armor	55-R68	RR2X	5.5		1.8	36.7	0	2.0	2838	65.0
Hubner Seed	H57-18R2X	RR2X/STS	5.7		1.3	35.0	0	2.0	3117	64.2
Doebler's PA Hybrids	56R8	RR	5.6		1.7	37.0	0	2.3	2849	63.4
Dyna-Gro	S58RY78	RR2Y	5.8		1.0	32.0	0	2.0	3139	63.3
NK Brand	S64-T4X	RR2X	6.4		1.7	39.7	0	2.7	2893	62.1
Doebler's PA Hybrids	DB6017R	RR	6.0		1.5	36.7	0	2.0	2413	61.9
Southern Harvest	SH 6515 LL	LL	6.5		1.7	38.7	0	2.0	2954	61.5
Armor	X65D19	RR2X	6.5		1.5	35.7	0	2.3	2749	61.2
Virginia Tech	V12-1416	RR	5.7		1.2	30.7	0	2.0	2911	59.2
Credenz	CZ 5947 LL	LL	5.9		2.2	39.3	0	2.0	3259	58.5
Southern Harvest	SH 5215 LL	LL	5.2		1.5	39.0	0	2.0	3200	58.4
Southern Harvest	SH 5915 LL	LL	5.9		2.8	40.7	0	2.0	2981	58.4
Armor	X62D60	RR2X	6.2		1.5	36.3	0	2.0	2851	58.2
MorSoy	MS 6208	RR2X	6.2		1.5	37.7	0	2.0	2917	58.0
Southern Harvest	SH 5515 LL	LL	5.5		2.2	42.3	0	2.0	3097	57.3
USG	5618V	CONV	5.6		1.5	33.0	0	2.0	2862	56.2
Credenz	CZ 5515 LL	LL	5.5		1.7	51.0	0	2.7	2677	55.7
Public	Glenn	CONV	5.5		1.2	30.0	0	3.0	2625	55.3
Asgrow	AG55X7	RR2X	5.5		1.2	32.3	0	2.7	3059	54.6
Virginia Tech	V14-3821	CONV	5.6		1.5	32.0	0	3.0	2240	54.6
Credenz	CZ 6316 LL	LL/STS	6.3		1.5	37.7	0	2.0	3361	53.1
Credenz	CZ 6109 LL	LL	6.1		2.0	40.3	0	2.0	2911	53.0
Virginia Tech	V14-3983	CONV	5.5		1.0	25.0	0	2.0	2673	52.5
Virginia Tech	V12-0045R2	RR2Y	5.6		1.5	35.0	0	2.3	2511	52.4
LSD P=.10					0.3	2.8	0.0	0.4	139.7	7.5
CV					15	6	0	14	4	9
Grand Mean					1.6	36.2	0.0	2.2	2863.4	61.5

Table 7d. Performance of full-season late maturity group V entries at Suffolk VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Armor	X55D57	RR2X	5.5	21-Oct	1.0	28.3	0	3.0	2693	74.6
Asgrow	AG56X8	RR2X	5.6	21-Oct	1.0	29.0	0	4.0	2580	74.1
Armor	X62D60	RR2X	6.2	23-Oct	1.5	30.7	0	2.7	2630	73.4
Southern Harvest	SH 5515 LL	LL	5.5	18-Oct	2.0	42.0	0	4.3	3033	71.3
Doebler's PA Hybrids	56R8	RR	5.6	21-Oct	1.2	31.7	0	3.7	2598	70
Southern Harvest	SH 5215 LL	LL	5.2	21-Oct	1.0	39.7	0	4.0	3038	69.6
Axis	5618NRX	RR2X	5.6	21-Oct	1.0	28.7	0	3.0	2698	68.9
Credenz	CZ 6109 LL	LL	6.1	21-Oct	1.2	30.7	0	2.0	2748	68.8
MorSoy	MS 6208	RR2X	6.2	28-Oct	1.3	30.7	0	2.0	2714	68.8
Doebler's PA Hybrids	DB6017R	RR	6.0	21-Oct	1.0	32.7	0	4.3	2716	67.1
MorSoy	MS 5607	RR2X	5.6	21-Oct	1.0	27.0	0	3.3	2748	65.3
Armor	55-R68	RR2X	5.5	21-Oct	1.0	31.7	0	2.0	2566	65.1
NK Brand	S64-T4X	RR2X	6.4	28-Oct	1.2	30.3	0	3.7	2640	64.8
Credenz	CZ 5515 LL	LL	5.5	21-Oct	2.0	46.7	0	2.7	2605	64.4
Southern Harvest	SH 6515 LL	LL	6.5	21-Oct	1.0	30.0	0	2.3	2833	63.9
Dyna-Gro	S56XT99	RR2X	5.6	18-Oct	1.0	28.0	0	3.3	2598	63.3
Virginia Tech	V12-1416	RR	5.7	21-Oct	1.0	21.7	0	3.0	2682	62.5
NK Brand	S57-A7X	RR2X	5.7	21-Oct	1.0	24.3	0	3.3	2812	62.2
Credenz	CZ 6316 LL	LL/STS	6.3	21-Oct	1.2	35.3	0	3.0	3143	61.7
Asgrow	AG55X7	RR2X	5.5	23-Oct	1.0	25.0	0	3.0	2823	59.4
Virginia Tech	V14-3821	CONV	5.6	28-Oct	1.0	26.3	3	5.0	2282	58.5
USG	75B75R	RR2Y	5.7	21-Oct	1.0	27.0	0	3.0	2736	56.6
Dyna-Gro	S58RY78	RR2Y	5.8	21-Oct	1.0	18.7	0	4.0	2982	56.5
University of Missouri	S13-1955C	CONV	5.5	23-Oct	1.0	30.7	0	4.7	3162	55.8
Hubner Seed	H57-18R2X	RR2X/STS	5.7	21-Oct	1.0	26.3	0	4.0	3197	55.3
Credenz	CZ 5947 LL	LL	5.9	21-Oct	2.2	34.0	0	2.3	3127	54.6
Southern Harvest	SH 5915 LL	LL	5.9	23-Oct	1.3	33.3	0	3.0	2962	53.2
Armor	X65D19	RR2X	6.5	23-Oct	1.0	23.7	0	3.7	2737	52.1
University of Missouri	S15-10434C	CONV	5.5	21-Oct	1.2	24.0	0	4.0	2830	51.1
Public	Glenn	CONV	5.5	18-Oct	1.0	22.7	0	4.7	2953	50.2
USG	5618V	CONV	5.6	21-Oct	1.0	26.0	0	5.0	3022	47.3
Virginia Tech	V14-3983	CONV	5.5	21-Oct	1.0	13.3	0	4.0	2599	45.6
Virginia Tech	V12-0045R2	RR2Y	5.6	21-Oct	1.0	22.7	9	5.0	2536	39.2
LSD P=.10				2.7	0.4	3.7	2.3	0.5	234.1	11.4
CV				4	25	9	459	11	6	14
Grand Mean				21-Oct	1.2	28.9	0.4	3.5	2788.6	61.0

Table 7e. Performance of full-season late maturity group V entries at Warsaw VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Southern Harvest	SH 6515 LL	LL	6.5	31-Oct	3.6	38.3	0	2.0	2797	78.6
Hubner Seed	H57-18R2X	RR2X/STS	5.7	26-Oct	3.0	33.3	0	2.0	3364	78.2
MorSoy	MS 6208	RR2X	6.2	3-Nov	3.4	35.7	0	2.0	2869	77.4
NK Brand	S64-T4X	RR2X	6.4	31-Oct	3.7	37.7	0	2.0	2844	77.4
Armor	X62D60	RR2X	6.2	8-Nov	3.4	34.7	0	2.0	2961	76.3
Credenz	CZ 6109 LL	LL	6.1	30-Oct	3.1	38.3	0	2.0	2724	75.2
Virginia Tech	V12-1416	RR	5.7	24-Oct	2.8	34.7	0	2.0	3291	75.0
Doebler's PA Hybrids	DB6017R	RR	6.0	20-Oct	3.2	40.0	0	2.0	2621	74.8
Dyna-Gro	S56XT99	RR2X	5.6	17-Oct	2.5	39.0	0	2.0	2925	74.8
USG	75B75R	RR2Y	5.7	19-Oct	2.8	42.7	0	2.0	3034	74.7
Asgrow	AG56X8	RR2X	5.6	17-Oct	2.6	37.7	0	2.0	2998	74.2
Doebler's PA Hybrids	56R8	RR	5.6	22-Oct	3.2	39.3	0	2.0	3007	73.1
Asgrow	AG55X7	RR2X	5.5	17-Oct	2.6	38.3	0	2.0	3314	73.0
Dyna-Gro	S58RY78	RR2Y	5.8	26-Oct	2.5	34.7	0	2.0	3289	72.8
Southern Harvest	SH 5515 LL	LL	5.5	16-Oct	2.5	42.0	0	2.0	3562	72.8
Virginia Tech	V14-3983	CONV	5.5	18-Oct	2.6	33.3	0	2.0	3069	72.8
Armor	X55D57	RR2X	5.5	18-Oct	2.8	37.7	0	2.0	2887	72.7
USG	5618V	CONV	5.6	17-Oct	2.6	37.7	0	2.0	3159	72.2
MorSoy	MS 5607	RR2X	5.6	18-Oct	2.9	37.7	0	2.0	3034	72.0
NK Brand	S57-A7X	RR2X	5.7	28-Oct	2.9	37.0	0	2.0	2907	71.9
Virginia Tech	V12-0045R2	RR2Y	5.6	17-Oct	2.6	34.0	0	2.0	2834	71.8
Armor	X65D19	RR2X	6.5	3-Nov	3.9	37.7	0	2.0	2844	71.7
Armor	55-R68	RR2X	5.5	27-Oct	3.5	34.3	0	2.0	2832	71.1
Public	Glenn	CONV	5.5	17-Oct	2.7	33.3	0	2.0	3309	71.1
Southern Harvest	SH 5215 LL	LL	5.2	16-Oct	2.2	46.0	0	2.0	3399	71.1
Credenz	CZ 5947 LL	LL	5.9	31-Oct	3.8	36.0	0	2.0	3284	70.8
University of Missouri	S15-10434C	CONV	5.5	20-Oct	4.0	35.7	0	2.0	3475	70.1
Credenz	CZ 6316 LL	LL/STS	6.3	31-Oct	2.9	39.0	0	2.0	3347	68.9
Axis	5618NRX	RR2X	5.6	17-Oct	3.1	38.0	0	2.0	3111	68.5
Virginia Tech	V14-3821	CONV	5.6	20-Oct	3.6	36.0	0	2.0	2556	68.3
Credenz	CZ 5515 LL	LL	5.5	17-Oct	2.9	46.3	0	2.0	3035	68.0
Southern Harvest	SH 5915 LL	LL	5.9	23-Oct	3.2	40.3	0	2.0	3110	65.1
University of Missouri	S13-1955C	CONV	5.5	18-Oct	4.0	38.3	0	2.0	3416	63.2
LSD P=.10				2.6	0.4	2.9	0.0	0.0	119.0	4.6
CV				3	10	6	0	0	3	5
Grand Mean				23-Oct	3.1	37.7	0.0	2.0	3066.9	72.4

Table 7f. Performance of double-crop late maturity group V entries at Blackstone VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Asgrow	AG52X9	RR2X	5.2		1.0	41.3	0	2.0	2443	65.6
Axis	5618NRX	RR2X	5.6		1.7	42.7	0	2.0	2735	58.2
Dyna-Gro	S56XT99	RR2X	5.6		1.7	42.3	0	2.0	2553	57.6
Dyna-Gro	S58RY78	RR2Y	5.8		1.2	36.3	0	2.0	2849	57.6
USG	7568XT	RR2X	5.6		2.5	40.7	0	2.0	2525	57.1
Virginia Tech	V12-0045R2	RR2Y	5.6		2.3	40.7	0	2.0	2309	56.8
USG	5618V	CONV	5.6		1.3	40.3	0	2.0	2870	56.4
USG	75J90R	RR2Y	5.9		2.8	46.7	0	2.0	2429	55.7
Asgrow	AG55X7	RR2X	5.5		1.3	39.3	0	2.0	2847	55.3
Southern Harvest	SH 6515 LL	LL	6.5		1.3	44.7	0	2.0	2635	54.0
Southern Harvest	SH 5515 LL	LL	5.5		1.2	39.0	0	2.0	2894	53.4
Virginia Tech	V14-3983	CONV	5.5		2.0	36.3	0	2.0	2547	53.4
Public	Glenn	CONV	5.5		3.7	43.0	0	2.0	2789	53.2
Progeny Ag Products	P5688RX	RR2X	5.6		2.0	40.3	0	2.0	2640	52.3
Asgrow	AG56X8	RR2X	5.6		1.8	40.3	0	2.0	2613	51.3
Southern Harvest	SH 5915 LL	LL	5.9		2.8	49.0	0	2.0	2680	51.1
Credenz	CZ 5859 LL	LL	5.8		2.5	41.0	0	2.0	2785	50.1
Credenz	CZ 6069 LL	LL	6.0		3.2	40.7	0	2.0	2692	49.9
Pioneer	P55T81R	RR	5.5		1.3	41.3	0	2.0	2724	49.7
Credenz	CZ 6515 LL	LL	6.5		2.0	47.0	0	2.0	3262	49.5
Virginia Tech	V12-1416	RR	5.7		1.5	42.3	0	2.0	2904	49.2
University of Missouri	S13-1955C	CONV	5.5		2.5	38.7	0	2.0	2944	47.9
Doebler's PA Hybrids	56R8	RR	5.6		2.8	48.3	0	2.0	2730	47.7
University of Missouri	S15-10434C	CONV	5.5		3.3	36.7	0	2.0	3088	47.6
Hubner Seed	H57-18R2X	RR2X/STS	5.7		2.3	38.7	0	2.0	3135	46.0
Progeny Ag Products	P5752RY	RR2Y	5.7		1.5	44.7	0	2.0	2725	43.3
Virginia Tech	V14-3821	CONV	5.6		3.2	42.0	0	2.0	2374	41.7
LSD P=.10					0.7	3.7	0.0	0.0	171.6	6.6
CV					23	6	0	0	5	9
Grand Mean					2.1	41.6	0.0	2.0	2730.4	52.3

Table 7g. Performance of double-crop late maturity group V entries at Orange VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Asgrow	AG55X7	RR2X	5.5		3.5	39.7	0	2.0	2910	75.9
Virginia Tech	V14-3983	CONV	5.5		3.2	39.3	0	2.0	2565	71.8
USG	5618V	CONV	5.6		3.8	44.0	0	2.0	2650	67.0
Asgrow	AG52X9	RR2X	5.2		2.3	40.0	0	2.0	2565	65.9
Asgrow	AG56X8	RR2X	5.6		3.5	38.0	0	2.0	2551	65.2
Southern Harvest	SH 5515 LL	LL	5.5		2.7	39.3	0	2.0	3303	65.1
Public	Glenn	CONV	5.5		4.3	36.0	0	2.0	2908	64.6
Axis	5618NRX	RR2X	5.6		3.7	41.3	0	2.0	2677	63.3
Dyna-Gro	S56XT99	RR2X	5.6		3.8	40.7	0	2.0	2491	62.9
Progeny Ag Products	P5688RX	RR2X	5.6		3.7	40.0	0	2.0	2945	62.7
Virginia Tech	V12-0045R2	RR2Y	5.6		3.7	38.7	0	2.0	2670	61.7
Progeny Ag Products	P5752RY	RR2Y	5.7		3.3	45.0	0	2.0	2645	57.8
Dyna-Gro	S58RY78	RR2Y	5.8		3.8	39.0	0	2.0	3048	57.5
Credenz	CZ 5859 LL	LL	5.8		3.5	39.3	0	2.0	2921	54.6
Virginia Tech	V12-1416	RR	5.7		4.2	41.0	0	2.0	3176	54.1
University of Missouri	S15-10434C	CONV	5.5		3.8	40.0	0	2.0	3366	52.7
USG	7568XT	RR2X	5.6		4.0	38.3	0	2.0	2693	52.7
Virginia Tech	V14-3821	CONV	5.6		3.8	39.0	0	2.0	2642	52.6
Hubner Seed	H57-18R2X	RR2X/STS	5.7		3.8	39.0	0	2.0	3223	48.8
Pioneer	P55T81R	RR	5.5		3.5	44.7	0	2.0	2918	45.4
Southern Harvest	SH 6515 LL	LL	6.5		3.8	43.0	0	2.0	2785	44.9
University of Missouri	S13-1955C	CONV	5.5		4.7	44.3	0	2.0	3008	44.5
Doebler's PA Hybrids	56R8	RR	5.6		4.2	43.7	0	2.0	2984	43.6
Credenz	CZ 6515 LL	LL	6.5		3.8	40.0	0	2.0	3245	42.8
Southern Harvest	SH 5915 LL	LL	5.9		4.0	42.3	0	2.0	3035	42.0
USG	75J90R	RR2Y	5.9		3.8	40.0	0	2.0	2571	41.8
Credenz	CZ 6069 LL	LL	6.0		4.0	36.7	0	2.0	3083	39.8
LSD P=.10					0.4	5.1	0.0	0.0	287.7	10.5
CV					9	9	0	0	7	14
Grand Mean					3.7	40.5	0.0	2.0	2873.4	55.6

Table 7h. Performance of double-crop late maturity group V entries at Painter VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Asgrow	AG52X9	RR2X	5.2		1.3	36.3	0	2.0	2746	67.6
Southern Harvest	SH 6515 LL	LL	6.5		1.3	36.3	0	2.0	2540	65.0
Credenz	CZ 6515 LL	LL	6.5		1.2	40.7	0	2.0	2971	64.2
Asgrow	AG55X7	RR2X	5.5		1.8	36.0	0	2.0	3035	63.8
Asgrow	AG56X8	RR2X	5.6		1.7	35.3	0	2.0	2600	63.8
USG	5618V	CONV	5.6		2.8	38.7	0	2.0	2794	63.5
Dyna-Gro	S58RY78	RR2Y	5.8		1.6	33.3	0	2.0	2731	63.0
Virginia Tech	V14-3983	CONV	5.5		1.7	34.0	0	2.0	2656	63.0
Hubner Seed	H57-18R2X	RR2X/STS	5.7		1.5	37.0	0	2.0	2930	62.8
USG	75J90R	RR2Y	5.9		1.2	40.0	0	2.0	2310	61.8
Axis	5618NRX	RR2X	5.6		2.2	34.0	0	2.0	2539	61.1
Southern Harvest	SH 5915 LL	LL	5.9		1.7	37.7	0	2.0	2741	58.9
University of Missouri	S15-10434C	CONV	5.5		2.7	35.0	0	2.0	3153	58.9
USG	7568XT	RR2X	5.6		2.0	37.8	0	2.0	2500	58.9
Credenz	CZ 5859 LL	LL	5.8		1.5	35.7	0	2.0	2689	58.3
Doebler's PA Hybrids	56R8	RR	5.6		1.7	41.3	0	2.0	2607	57.8
University of Missouri	S13-1955C	CONV	5.5		3.1	37.3	0	2.0	3083	57.6
Dyna-Gro	S56XT99	RR2X	5.6		1.8	35.7	0	2.0	2386	55.4
Progeny Ag Products	P5752RY	RR2Y	5.7		1.5	37.3	0	2.0	2566	55.3
Virginia Tech	V12-0045R2	RR2Y	5.6		1.8	34.7	0	2.0	2407	55.1
Pioneer	P55T81R	RR	5.5		1.7	39.7	0	2.0	2595	55.0
Virginia Tech	V12-1416	RR	5.7		1.3	36.3	0	2.0	2827	55.0
Progeny Ag Products	P5688RX	RR2X	5.6		2.0	34.7	0	2.0	2585	52.5
Southern Harvest	SH 5515 LL	LL	5.5		1.7	37.3	0	2.0	3138	51.9
Virginia Tech	V14-3821	CONV	5.6		1.8	38.3	0	2.0	2317	51.5
Public	Glenn	CONV	5.5		3.3	33.3	0	2.0	3084	51.3
Credenz	CZ 6069 LL	LL	6.0		1.5	33.0	0	2.0	2522	46.9
LSD P=.10					0.8	2.1	0.0	0.0	121.2	8.3
CV					32	4	0	0	3	10
Grand Mean					1.8	36.5	0.0	2.0	2700.7	58.5

Table 7i. Performance of double-crop late maturity group V entries at Suffolk VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Doebler's PA Hybrids	56R8	RR	5.6		1.2	27.7	0	3.0	2694	69.8
Southern Harvest	SH 5515 LL	LL	5.5		1.2	23.7	0	4.0	2983	60.6
Progeny Ag Products	P5688RX	RR2X	5.6		1.2	20.0	0	3.0	2518	58.6
Asgrow	AG56X8	RR2X	5.6		1.0	20.3	0	4.0	2589	58.1
Axis	5618NRX	RR2X	5.6		1.2	18.0	0	4.0	2811	54.7
Dyna-Gro	S56XT99	RR2X	5.6		1.0	19.0	0	4.0	2747	54.7
Dyna-Gro	S58RY78	RR2Y	5.8		1.0	16.3	0	3.0	2770	54.6
University of Missouri	S13-1955C	CONV	5.5		1.2	19.0	0	4.0	3017	53.9
Southern Harvest	SH 6515 LL	LL	6.5		1.0	20.0	0	3.3	2578	52.8
USG	75J90R	RR2Y	5.9		1.0	19.7	0	3.0	2450	52.8
Virginia Tech	V14-3821	CONV	5.6		1.0	21.7	0	4.0	2245	51.9
Hubner Seed	H57-18R2X	RR2X/STS	5.7		1.0	20.7	0	4.0	3028	51.5
Credenz	CZ 6069 LL	LL	6.0		1.2	22.3	0	3.0	2758	51.1
USG	7568XT	RR2X	5.6		1.0	23.0	0	3.7	2635	50.4
Public	Glenn	CONV	5.5		1.0	21.3	0	4.0	2758	50.0
USG	5618V	CONV	5.6		1.0	22.0	0	4.0	3156	48.9
Credenz	CZ 6515 LL	LL	6.5		1.0	19.0	0	3.0	3215	48.1
Credenz	CZ 5859 LL	LL	5.8		1.2	23.0	0	3.0	2811	47.7
Southern Harvest	SH 5915 LL	LL	5.9		1.2	24.0	0	3.7	2848	47.7
Pioneer	P55T81R	RR	5.5		1.0	16.3	0	3.3	3192	46.5
Asgrow	AG55X7	RR2X	5.5		1.0	19.0	0	4.0	3013	46.1
Virginia Tech	V14-3983	CONV	5.5		1.0	14.3	0	4.0	2886	44.2
Asgrow	AG52X9	RR2X	5.2		1.0	18.7	0	4.0	2661	41.5
University of Missouri	S15-10434C	CONV	5.5		1.0	13.7	0	4.0	3141	39.6
Virginia Tech	V12-0045R2	RR2Y	5.6		1.0	17.0	0	3.7	2305	39.6
Virginia Tech	V12-1416	RR	5.7		1.0	16.0	0	3.0	2962	37.7
Progeny Ag Products	P5752RY	RR2Y	5.7		1.0	20.0	0	3.7	2872	33.7
LSD P=.10					0.2	3.8	0.0	0.3	235.1	9.1
CV					14	14	0	7	6	11
Grand Mean					1.0	19.8	0.0	3.6	2801.6	49.9

Table 7j. Performance of double-crop late maturity group V entries at Warsaw VA, 2018.

Brand	Variety	Herbicide Resistance	Relative Maturity	Maturity Date	Lodging (1-5)	Height (IN)	PSS (%)	Seed		Yield (Bu/A)
								Quality (1-5)	Seed Size (Seed/lb)	
Asgrow	AG56X8	RR2X	5.6	29-Oct	2.4	33.0	0	2.3	2856	68.6
Asgrow	AG55X7	RR2X	5.5	30-Oct	1.8	29.3	0	2.0	3390	65.6
Hubner Seed	H57-18R2X	RR2X/STS	5.7	1-Nov	2.2	29.7	0	2.0	3307	63.6
USG	7568XT	RR2X	5.6	30-Oct	2.5	30.0	0	2.7	2923	62.7
Dyna-Gro	S58RY78	RR2Y	5.8	5-Nov	1.9	30.3	0	2.0	3268	62.6
USG	75J90R	RR2Y	5.9	2-Nov	2.3	31.7	0	3.0	2719	62.1
Progeny Ag Products	P5688RX	RR2X	5.6	31-Oct	2.7	32.3	0	2.0	2982	60.3
Dyna-Gro	S56XT99	RR2X	5.6	31-Oct	2.4	30.3	0	2.7	2844	59.8
University of Missouri	S15-10434C	CONV	5.5	1-Nov	2.6	29.0	0	3.0	3452	59.4
Axis	5618NRX	RR2X	5.6	31-Oct	2.3	31.7	0	2.3	3036	58.4
Southern Harvest	SH 6515 LL	LL	6.5	1-Nov	1.9	29.3	0	4.0	2752	54.6
Virginia Tech	V14-3983	CONV	5.5	31-Oct	2.1	27.0	0	2.0	3125	54.5
Pioneer	P55T81R	RR	5.5	2-Nov	2.1	33.3	0	3.0	3139	53.8
Doebler's PA Hybrids	56R8	RR	5.6	2-Nov	2.1	31.3	0	3.0	3123	52.1
Public	Glenn	CONV	5.5	26-Oct	2.2	24.0	0	2.0	3187	51.9
Southern Harvest	SH 5515 LL	LL	5.5	31-Oct	2.2	34.7	0	2.0	3380	51.9
Virginia Tech	V12-0045R2	RR2Y	5.6	1-Nov	2.2	30.0	0	2.3	2644	51.5
Virginia Tech	V12-1416	RR	5.7	3-Nov	1.5	26.3	0	2.3	3376	50.4
Progeny Ag Products	P5752RY	RR2Y	5.7	1-Nov	2.1	31.3	0	2.3	2951	49.6
University of Missouri	S13-1955C	CONV	5.5	1-Nov	2.4	29.3	0	3.7	3156	49.6
USG	5618V	CONV	5.6	31-Oct	2.0	27.3	0	2.7	2987	49.6
Southern Harvest	SH 5915 LL	LL	5.9	1-Nov	2.1	30.0	0	3.0	3153	46.4
Asgrow	AG52X9	RR2X	5.2	29-Oct	2.0	30.3	0	2.3	3035	45.7
Virginia Tech	V14-3821	CONV	5.6	1-Nov	2.1	27.7	0	3.0	2565	43.2
Credenz	CZ 6515 LL	LL	6.5	11-Nov	2.0	30.7	0	4.0	3703	41.1
Credenz	CZ 6069 LL	LL	6.0	3-Nov	2.3	29.3	0	4.0	2799	39.6
Credenz	CZ 5859 LL	LL	5.8	5-Nov	2.2	26.7	0	4.3	2936	36.1
LSD P=.10				1.4	0.4	4.0	0.0	0.5	137.8	11.6
CV				2	13	10	0	14	3	16
Grand Mean				1-Nov	2.2	29.9	0.0	2.7	3066.2	53.5