



**THE OHIO STATE
UNIVERSITY**

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

THE 2019 OHIO SOYBEAN PERFORMANCE TRIALS

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INTRODUCTION

The purpose of the Ohio Soybean Performance Trials is to evaluate soybean varieties for yield and other agronomic characteristics. This evaluation gives soybean producers comparative information for selecting the best varieties for their unique production systems.

FIELD PLOT DESIGN

The entries for each test site were planted in a randomized complete block design. Each entry was replicated four times and planted in plots 28 ft long and 5 ft wide containing four rows seeded at 15-inch row width. Seeding rate was 150,000 seeds per acre. At all locations, corn was the previous crop and no-till. Farmer cooperators sprayed preemergence herbicides (varied by location). Postemergence herbicides included: N1 and C1 = Select Max and Basagran; C2 = Select Max, Basagran, First Rate, Flexstar, Raptor; S1 = Alliance, Select Max, Basagran, First Rate, Flexstar; S2 = Alliance, Select Max, Basagran, Flexstar.

METHOD OF CONDUCTING TRIALS

Entries in Trials. Performance of entries in The Ohio Soybean Performance Trials are published if seed will be available to Ohio soybean producers for the following planting season. All 2019 entries were submitted voluntarily by seed companies. Entry fee charges were paid per entry and region.

Test by Maturity and Type. Varieties were grouped, tested and analyzed by maturity (early and late). Conventional (CV), Liberty Link (LL), Roundup Ready (RR1), Roundup Ready 2 Yield (RR2Y), Xtend, Enlist, glyphosate tolerant (GT), Liberty Link/glyphosate-tolerant (LL/GT27), and sulfonyl urea tolerant (STS) varieties were tested in the same block to allow for head-to-head comparisons. All herbicide traits are statistically comparable within a location and maturity grouping (early or late). Conventional herbicides were sprayed on all entries. Use the table below to find varieties by region, maturity, and type.

2019 Tables by Type, Region, Maturity Grouping

North	Early (2.1-3.1)	Table 3
	Late (3.2-4.1)	Table 4
Central	Early (2.5-3.3)	Table 5
	Late (3.4-4.4)	Table 6
South	Early (2.7-3.6)	Table 7
	Late (3.7-4.4)	Table 8

MEASUREMENTS AND RECORDS

Relative Maturity. Relative maturity (RM) is a rating designed to account for all of the factors that affect maturity date and includes variety, planting date, weather, latitude, and disease. Maturity is defined as the “95% brown pods” stage. A variety with a RM rating of 3.5 should reach the 95% brown pod stage 5 days later than a variety with a rating of 3.0. RM was submitted by seed companies.

Lodging Score. There was no lodging in 2019.

Seed Size is reported as number of seeds per pound.

Yield. Each soybean variety was harvested when the moisture content was between 8 and 14 percent and yields reported in bushels per acre at 13 percent moisture.

Protein, Oil %. Analysis was determined by near infrared transmittance technology. The test was performed using a Foss NIR whole grain analyzer and is reported at 13 percent moisture.

LSD. A Least Significant Difference (LSD) for yield was computed for each location and maturity grouping. LSDs are reported in bushels per acre at 13 percent moisture. Yields of two varieties within a location and maturity grouping are significantly different 90% of the time if their yields differ by more than the LSD value shown for that maturity group. A double asterisk (**) is used to denote the variety with the highest yield within a location and maturity grouping. A single asterisk (*) is used to denote varieties with yield not statistically different than the highest yielding variety.

DATA USE. Inclusion of entries in the Ohio Soybean Performance Trials does not constitute an endorsement of a particular entry by the Ohio State University, Ohio Agricultural Research and Development Center, or Ohio State University Extension.



Table 1: The 2019 Ohio Soybean Performance Trials, Site Descriptions

	N1	N2	C1	C2	S1	S2
	Henry Co.	Sandusky Co.	Mercer Co.	Morrow Co.	Preble Co.	Clinton Co.
Soil texture	Clay		Clay loam	Silty clay loam	Silty clay	Silt loam
Soil pH	6.2	This location	6.8	6.3	6.5	6.4
Soil Test P-Mehlich (ppm)	60	was not plant-	68	21	65	113
Soil Test K (ppm)	177	ed due to	137	97	150	172
Plant date	June 12	weather condi-	June 8	June 4	May 16	May 16
Harvest date	Oct. 17 (early trial)	tions.	Oct. 20(early trial)	Oct. 15	Oct. 5	Oct. 10
	Oct. 18 (late trial)		Oct. 19 (late trial)			

Table 2. Directory by Company Listed by Variety/Brand, Maturity Rating, and Type

Physical characteristics and yield data for a variety can be found using the table number(s) associated with each entry in this directory.

Variety	Seed Trt	RM	Type	Table #	Variety	Seed Trt	RM	Type	Table #	Variety	Seed Trt	RM	Type	Table #
Golden Harvest					Local Seed Company					Shur Grow				
11055 Wayzata Blvd. 1-800-445-0956					802 Rozelle St. 901-260-6000					11177 Township Rd. 133 937-418-9782				
Minnetonka, MN 55305 goldenharvestseeds.com					Memphis, TN 38104 localseed.com					W. Mansfield, OH 43358 heritagecooperative.com				
GH3088X	CC+M	3.0	Xtend	3, 5	LS2685X	RP	2.6	Xtend	3, 5	SG3229R2X	None	3.2	Xtend	4, 5
GH3475X	CC+M	3.4	Xtend	4, 6	ZS2898 GL	RP	2.8	LLGT27	3, 5	SG3420R2X	None	3.4	Xtend	4, 6
GH3546X	CC+M	3.5	Xtend	4, 6, 7	ZS3097 E3	RP	3.0	Enlist	3, 5	SG3440GTLL	None	3.4	LLGT27	4, 6
GH3728X	CC+M	3.7	Xtend	8	ZS3399 E3	RP	3.3	Enlist	4, 5, 7	SG3450E	None	3.4	Enlist	4, 6
GH3934X	CC+M	3.9	Xtend	8	ZS3496 GL	RP	3.4	LLGT27	4, 6, 7	SG3628R2X	W+I	3.6	Xtend	6, 7
GROWMARK, Inc.					ZS3797 GL					SG3640GTLL				
1701 Towanda Ave. 1-309-557-6000					ZS3898 E3S					SG3750E				
Bloomington, IL 61701 fsseeds.com					LS3976X					Stewart Seeds				
					LS4299XS					2230 CR E 300 N 800-365-SEED				
					LSX4487XS					Greensburg, IN 47240 stewartseeds.com				
					Rupp Seeds, Inc.					2840R2X AE+NS 2.8 Xtend 3				
					17919 Co. Rd. B 877-591-7333					2949R2X AE+NS 2.9 Xtend 3				
					Wauseon, OH 43567 ruppseeds.com					3120R2X AE+NS 3.1 Xtend 3				
HS 24X80 A+I 2.4 Xtend 3					RS 23BG30 RC 2.3 LLGT27 3					3340R2X AE+NS 3.3 Xtend 4, 5				
HS 26X90 A+I 2.6 Xtend 3					RS 23EL93 RC 2.3 Enlist 3					3450R2X AE+NS 3.4 Xtend 4, 6, 7				
HS 27X90 A+I 2.7 Xtend 3, 5					RS 25XT12 RC 2.5 Xtend 3					3527R2X AE+NS 3.5 Xtend 4, 6, 7				
HS 28X70 A+I 2.8 Xtend 3, 5					RS 27EL10 RC 2.7 Enlist 3					3830R2X AE+NS 3.8 Xtend 4, 6, 8				
HS 28C70 A+I 2.8 CV 3, 5					RS 28BG90 RC 2.8 LLGT27 3, 5					4029R2X AE+NS 4.0 Xtend 8				
HS 28B90 A+I 2.8 LLGT27 3, 5					RS 28XT37 RC 2.8 Xtend 3					University of Missouri				
HS 32X90 A+I 3.2 Xtend 4, 5					RS 31XT40 RC 3.1 Xtend 3, 5					PO Box 160, 147 St. Hwy. T 573-379-5431				
HS 32C80 A+I 3.2 CV 4, 5					RS 31EL46 RC 3.1 Enlist 3, 5					Portageville, MO				
HS 32B90 A+I 3.2 LLGT27 4, 5					RS 33XT32 RC 3.3 Xtend 5					S13-2743C IN 4.1 CV 8				
HS 33X80 A+I 3.3 Xtend 4, 5					RS 35EL01 RC 3.5 Enlist 5					S13-10590C IN 4.3 CV 8				
HS 34C80 A+I 3.4 CV 4, 6					Seed Consultants, Inc.					S13-3851C IN 4.4 CV 8				
HS 34B90 A+I 3.4 LLGT27 4, 6					648 Miami Trace Rd. 740-837-0364					Wellman Seeds, Inc.				
HS 35X90 A+I 3.5 Xtend 4, 6					Washington C.H., OH 43160 seedconsultants.com					23778 Jennings Delphos Rd. 800-717-7333				
HS 36B90 A+I 3.6 LLGT27 4, 6					SC 9277R™ L+EV+G 2.7 RR1 3					Delphos, OH 45833 wellmanseeds.com				
HS 38X70 A+I 3.8 Xtend 4, 6					SC 8279X™ L+EV+G 2.7 Xtend 3					W 5926X EN 2.6 Xtend 3				
HS 39B80 A+I 3.9 LLGT27 4, 6					SC 8329X™ L+EV+G 3.2 Xtend 4, 5					W 296 EN 2.9 CV 3				
LG Seeds					SC 3330L™ L+EV+G 3.3 LL 4, 5					W 6928E EN 2.8 Enlist 3, 5, 7				
1122 E. 169th St. 800-257-7333					SC 9339R™ L+EV+G 3.3 RR1 4, 5, 7					W 5928X EN 2.8 Xtend 3, 5, 7				
Westfield, IN 46074 lgseeds.com					SC 9359RR™ L+EV+G 3.5 RR2Y 4, 6, 7					W 6030E EN 3.0 Enlist 3, 5, 7				
LGS2444RX AS+I 2.4 Xtend 3					SC 8379X™ L+EV+G 3.7 Xtend 6, 8					W 6032E EN 3.2 Enlist 4, 5, 7				
C2888RX AS+I 2.8 Xtend 3, 5, 7					SC 9385RR™ L+EV+G 3.8 RR2Y 6, 8					W 5932X EN 3.2 Xtend 4, 5, 7				
LGS3060RX AS+I 3.0 Xtend 3, 5, 7					SC 3399L™ L+EV+G 3.9 LL 6, 8					W 5033X EN 3.3 Xtend 4, 5, 7				
C3333RX AS+I 3.3 Xtend 4, 5, 7					SC 8399X™ L+EV+G 3.9 Xtend 8					W 6034E EN 3.4 Enlist 4, 6, 7				
LGS3600RX AS+I 3.6 Xtend 6, 7										W 5836X EN 3.6 Xtend 4, 6, 7				
LGS3777RX AS+I 3.7 Xtend, STS 6, 8										W 6037E EN 3.7 Enlist 4, 6, 8				
C3985RX AS+I 3.9 Xtend 6, 8										W 6939E EN 3.9 Enlist 4, 6, 8				
Seed Treatments:														
A=Acceleron					G=Gaucho									
AE=Acceleron Elite					I=ILeVO									
AL=Allegiance					IN=Innovate									
AS=AgriShield					IS=Intego Suite+Rizolex Fungicide									
C=Clariva					L=Lumisena									
CC=Clariva Complete					M=Mertect									
E=EclipseUS					NS=Nemastrike									
EN=Encase					N=N-Hibit									
EQ=Equity VIP					NF=N Force									
ER=EclipseUS-R					PV=Poncho/Votivo									
ET=EclipseUS Trio-R75					RC=Rancona V100 Complete									
					T=T-Methyl									
					TT=Tag Team LCO									
					W=Warden CX									

TABLE 3: The 2019 Ohio Soybean Performance Trials, North Region - Early Varieties (RM 2.1-3.1)

Entry			Physical Characteristics				North Region Yield (bu/ac)	
Variety	Brand/Company Name	Type	RM	Seed size (number/lb)	% Protein	% Oil	N1	'18-'19 Mean
3101RX	Advanced Genetics, Inc.	Xtend	3.1	2867	35.8	18.3	70.1**	
SC 8279X™	Seed Consultants	Xtend	2.7	2548	35.1	19.0	67.9*	67.4
3002RX	Advanced Genetics, Inc.	Xtend	3.0	2781	35.2	18.0	67.2*	
31LL01	Advanced Genetics, Inc.	LL	3.1	2942	35.2	19.8	66.7*	
AG23X8	Asgrow	Xtend	2.3	2681	36.0	18.2	66.1*	
HS 28X70	GROWMARK, Inc	Xtend	2.8	2773	35.3	18.7	65.9*	65.3
HS 26X90	GROWMARK, Inc	Xtend	2.6	3103	35.1	19.6	65.8*	
Ebberts 288R2X	Ebberts Field Seeds	Xtend	2.8	2864	35.2	18.6	65.3*	
W 5928X	Wellman Seeds	Xtend	2.8	2926	35.9	19.5	65.1*	
AG30X8	Asgrow	Xtend	3.0	2759	35.1	19.1	65.0*	63.2
AG28X9	Asgrow	Xtend	2.8	3212	36.4	17.9	64.7*	
LS2685X	Local Seed Company	Xtend	2.6	2773	35.8	18.9	64.6*	
CZ 2760GTLL	Credenz	LL/GT27	2.7	3006	35.2	20.0	63.9*	
RS 31XT40	Rupp Seeds, Inc	Xtend	3.1	2786	35.6	18.4	63.9*	62.0
2840R2X	Stewart Seeds	Xtend	2.8	2851	35.8	18.2	63.6*	
HS 28C70	GROWMARK, Inc	CV	2.8	2934	35.1	19.3	63.3*	60.0
2602RX	Advanced Genetics, Inc.	Xtend	2.6	3030	35.0	18.9	63.0*	
RS 25XT12	Rupp Seeds, Inc	Xtend	2.5	3008	34.8	18.8	63.0*	
RS 28XT37	Rupp Seeds, Inc	Xtend	2.8	2876	34.9	19.2	63.0*	65.1
Ebberts 2029 E3	Ebberts Field Seeds	Enlist	2.8	3275	34.3	19.8	62.9*	
HS 27X90	GROWMARK, Inc	Xtend	2.7	2710	34.7	19.4	62.5	
Ebberts 319R2X	Ebberts Field Seeds	Xtend	3.1	2849	35.3	18.9	62.0	
2801RX	Advanced Genetics, Inc.	Xtend	2.8	2737	35.2	18.9	61.9	
AG21X7	Asgrow	Xtend	2.1	2784	35.1	18.5	61.3	61.1
C2888RX	LG Seeds	Xtend	2.8	3046	35.0	18.8	61.1	62.4
RS 27EL10	Rupp Seeds, Inc	Enlist	2.7	2972	34.5	20.1	61.0	
ZS3097 E3	Local Seed Company	Enlist	3.0	3128	33.9	20.1	60.6	
W 296	Wellman Seeds	CV	2.9	2786	34.9	19.3	60.6	
S28XT58	Dyna-Gro Seed	Xtend	2.8	2746	35.0	18.9	60.5	60.8
RS 28BG90	Rupp Seeds, Inc	LL/GT27	2.8	3024	35.1	19.8	60.2	
9-729AE	Advanced Genetics, Inc.	Enlist	2.9	2862	34.2	19.6	59.9	
RS 31EL46	Rupp Seeds, Inc	Enlist	3.1	3185	33.5	20.7	59.7	
LGS3060RX	LG Seeds	Xtend	3.0	2708	35.3	18.6	59.6	
CZ 3099GTLL	Credenz	LL/GT27	3.0	2305	35.3	19.5	59.4	
G2900RX	AgriGold	Xtend	2.9	2869	35.3	18.8	59.2	61.7
W 6928E	Wellman Seeds	Enlist	2.8	2726	33.4	20.3	59.2	
LGS2444RX	LG Seeds	Xtend	2.4	2926	36.1	18.2	58.9	57.6
CZ 2550GTLL	Credenz	LL/GT27	2.5	2974	35.2	19.4	58.4	
G3150RX	AgriGold	Xtend	3.1	2940	34.9	18.7	58.3	
W 6030E	Wellman Seeds	Enlist	3.0	3410	34.7	19.6	58.3	
ZS2898 GL	Local Seed Company	LL/GT27	2.8	2980	35.4	19.4	58.0	
2949R2X	Stewart Seeds	Xtend	2.9	2846	35.2	18.5	57.3	59.5
Key 1031GL	AGRA Solutions, LLC	LL/GT27	3.1	3311	34.8	18.9	57.1	
CZ 2579GTLL	Credenz	LL/GT27	2.5	3139	35.6	19.2	57.0	
3101 GL	Advanced Genetics, Inc.	GT	3.1	3098	33.7	20.5	56.9	
CZ 3100GTLL	Credenz	LL/GT27	3.1	3282	34.4	19.4	56.3	
SC 9277R	Seed Consultants	RR1	2.7	2963	34.9	20.0	56.3	
2401 RX	Advanced Genetics, Inc.	Xtend	2.4	3150	33.8	20.4	56.0	
RS 23BG30	Rupp Seeds, Inc	LL/GT27	2.3	2721	35.1	19.0	56.0	

NOTE: North Region, Early Variety Trial Results are Continued on the Next Page.

TABLE 3: The 2019 Ohio Soybean Performance Trials, North Region - Early Varieties (RM 2.1-3.1)
CONTINUED FROM PREVIOUS PAGE

Entry			Physical Characteristics				North Region Yield (bu/ac)	
Variety	Brand/Company Name	Type	RM	Seed size (number/lb)	% Protein	% Oil	N1	'18-'19 Mean
S31XT59	Dyna-Gro Seed	Xtend	3.1	3061	34.6	20.2	55.9	59.3
HS 28B90	GROWMARK, Inc	LL/GT27	2.8	3067	33.3	20.3	55.6	
GH3088X	Golden Harvest	Xtend	3.0	3240	35.4	19.3	55.4	60.2
W 5926X	Wellman Seeds	Xtend	2.6	3054	33.1	20.6	55.3	58.0
9-730AE	Advanced Genetics, Inc.	Enlist	3.0	3042	34.2	20.5	54.4	
AG26X8	Asgrow	Xtend	2.6	2913	35.0	19.1	54.1	58.1
AG25X9	Asgrow	Xtend	2.5	2862	34.0	19.1	53.0	
S2908N	Dyna-Gro Seed	CV	2.9	3004	35.4	19.0	52.9	56.9
HS 24X80	GROWMARK, Inc	Xtend	2.4	2679	36.0	18.4	52.8	
9-728AE	Advanced Genetics, Inc.	Enlist	2.8	2862	34.7	20.2	51.5	
RS 23EL93	Rupp Seeds, Inc	Enlist	2.3	3277	35.2	19.0	50.1	
CZ 2889GTLL	Credenz	LL/GT27	2.8	2847	34.2	19.4	49.8	
3120R2X	Stewart Seeds	Xtend	3.1	3065	33.6	19.6	43.7	
		Min	2.1	2305	33.1	17.9	43.7	
		Max	3.1	3410	36.4	20.7	70.1	
		Mean	2.8	2938	34.9	19.3	59.8	
		LSD (0.1)					7.3	
		CV					10.4	

Note: Min, max, mean, LSD, and CV values include experimental cultivars that were not printed in this publication.

TABLE 4: The 2019 Ohio Soybean Performance Trials, North Region - Late Varieties (RM 3.2-4.1)

Entry			Physical Characteristics				North Region Yield (bu/ac)	
Variety	Brand/Company Name	Type	RM	Seed size (number/lb)	% Protein	% Oil	N1	'18-'19 Mean
SG3229R2X	Shur Grow	Xtend	3.2	2902	35.4	18.6	69.3**	65.0
S3305N	Dyna-Gro Seed	CV	3.3	3247	35.1	19.6	65.9*	68.5
SC 3330L™	Seed Consultants	LL	3.3	2690	34.7	19.9	65.3*	
W 5932X	Wellman Seeds	Xtend	3.2	2947	35.5	18.4	64.3*	64.1
3340R2X	Stewart Seeds	Xtend	3.3	2838	35.5	18.7	64.1*	
HS 32X90	GROWMARK, Inc	Xtend	3.2	3179	35.1	18.4	64.0*	
HS 32B90	GROWMARK, Inc	LL/GT27	3.2	2928	34.7	19.2	63.5*	
S33XT79	Dyna-Gro Seed	Xtend	3.3	2810	34.3	20.2	62.9*	62.3
3450R2X	Stewart Seeds	Xtend	3.4	2737	34.9	19.3	62.9*	
Ebberts 330R2X	Ebberts Field Seeds	Xtend	3.3	2963	35.3	18.5	62.3	
S33EN09	Dyna-Gro Seed	Enlist	3.3	3044	35.2	19.8	62.0	
HS 34B90	GROWMARK, Inc	LL/GT27	3.4	2972	34.7	19.2	62.0	
ZS3496 GL	Local Seed Company	LL/GT27	3.4	2807	34.3	19.0	61.7	
31CN07	Advanced Genetics, Inc.	CV	3.1	2540	35.2	19.1	61.5	62.2
SC 9339R™	Seed Consultants	RR1	3.3	2670	34.0	20.0	61.4	65.3
S34GL79	Dyna-Gro Seed	LL/GT27	3.4	2708	34.9	19.7	61.2	
24DC3	Blue River Organic Seed	CV	2.4	2800	34.8	19.1	61.2	
3303RX	Advanced Genetics, Inc.	Xtend	3.3	2767	34.9	18.3	60.8	61.6
SG3450E	Shur Grow	Enlist	3.4	3217	34.4	20.4	60.6	
AG37X9	Asgrow	Xtend	3.7	3360	34.5	19.0	60.2	
Ebberts 388R2X	Ebberts Field Seeds	Xtend	3.8	2867	35.9	18.8	60.1	
SC 8329X™	Seed Consultants	Xtend	3.2	3010	35.0	18.9	59.9	
S34XT69	Dyna-Gro Seed	Xtend	3.4	2867	35.2	19.1	59.9	61.6
ZS3797 GL	Local Seed Company	LL/GT27	3.7	3338	36.0	19.3	59.2	
S36GL10	Dyna-Gro Seed	LL/GT27	3.6	3028	34.4	19.9	59.0	
9-734AE	Advanced Genetics, Inc.	Enlist	3.4	3360	34.3	20.1	58.9	
AG32X8	Asgrow	Xtend	3.2	2682	34.7	18.7	58.6	58.9

NOTE: North Region, Late Variety Trial Results are Continued on the Next Page.

TABLE 4: The 2019 Ohio Soybean Performance Trials, North Region - Late Varieties (RM 3.2-4.1)
CONTINUED FROM PREVIOUS PAGE

Variety	Entry Brand/Company Name	Type	Physical Characteristics				North Region Yield (bu/ac)	
			RM	Seed size (number/lb)	% Protein	% Oil	N1	'18-'19 Mean
3527R2X	Stewart Seeds	Xtend	3.5	2695	35.9	19.1	58.6	
CZ 3660GTLL	Credenz	LL/GT27	3.6	3020	34.1	20.1	58.6	
W 6037E	Wellman Seeds	Enlist	3.7	3270	33.4	20.1	58.5	
AG34X9	Asgrow	Xtend	3.4	2812	35.2	19.4	58.2	
AG33X8	Asgrow	Xtend	3.3	2732	36.1	19.0	58.1	57.1
G3520RX	AgriGold	Xtend	3.5	2653	36.1	19.1	58.1	60.7
3801RX	Advanced Genetics, Inc.	Xtend	3.8	2764	35.2	19.2	58.0	
W 6034E	Wellman Seeds	Enlist	3.4	2998	34.2	20.4	57.9	
HS 33X80	GROWMARK, Inc	Xtend	3.3	2726	35.6	18.9	57.5	60.2
W 5033X	Wellman Seeds	Xtend	3.3	3120	35.4	18.2	57.4	
GH3475X	Golden Harvest	Xtend	3.4	2809	35.5	19.2	56.9	
Ebberts 340R2X	Ebberts Field Seeds	Xtend	3.4	2853	35.4	18.8	56.8	
Ebberts 1934 E3	Ebberts Field Seeds	Enlist	3.4	3002	33.4	20.3	56.8	
AG38X8	Asgrow	Xtend	3.8	2840	35.7	19.0	56.8	62.7
GH3546X	Golden Harvest	Xtend	3.5	2869	34.6	19.5	56.7	60.9
Ebberts 368R2X	Ebberts Field Seeds	Xtend	3.6	2636	35.2	19.1	56.5	60.6
HS 32C80	GROWMARK, Inc	CV	3.2	2481	35.1	19.3	56.3	58.5
S32EN60	Dyna-Gro Seed	Enlist	3.2	2967	34.0	20.2	56.2	
Ebberts 2037 E3	Ebberts Field Seeds	Enlist	3.7	3069	34.4	19.9	55.9	
W 6032E	Wellman Seeds	Enlist	3.2	2980	34.2	20.0	55.8	
CZ 3519GTLL	Credenz	LL/GT27	3.5	2509	35.6	19.6	55.8	
3830R2X	Stewart Seeds	Xtend	3.8	2757	35.1	19.3	55.8	
ZS3399 E3	Local Seed Company	Enlist	3.3	3304	35.0	20.0	55.7	
W 5836X	Wellman Seeds	Xtend	3.6	2723	34.6	19.3	55.7	59.4
9-732AE	Advanced Genetics, Inc.	Enlist	3.2	2874	34.8	19.7	55.6	
3601RX	Advanced Genetics, Inc.	Xtend	3.6	2734	34.8	19.1	55.6	59.6
32CN07	Advanced Genetics, Inc.	CV	3.2	2540	35.2	19.1	55.5	59.2
W 6939E	Wellman Seeds	Enlist	3.9	2867	35.0	19.2	54.7	
HS 34C80	GROWMARK, Inc	CV	3.4	2678	33.5	20.0	54.6	56.5
Ebberts 2032 E3	Ebberts Field Seeds	Enlist	3.2	2984	34.2	19.8	54.5	
3501RX	Advanced Genetics, Inc.	Xtend	3.5	3176	33.3	20.7	53.8	
G3620RX	AgriGold	Xtend	3.6	2951	35.3	18.5	53.6	
G3285RX	AgriGold	Xtend	3.2	2747	35.8	18.3	53.3	57.1
HS 38X70	GROWMARK, Inc	Xtend	3.8	2773	35.7	18.6	53.3	59.3
SG3440GTLL	Shur Grow	LL/GT27	3.4	3242	34.5	18.5	52.9	
9-737AE	Advanced Genetics, Inc.	Enlist	3.7	3254	33.9	20.2	52.8	
HS 39B80	GROWMARK, Inc	LL/GT27	3.9	2965	35.4	19.5	52.7	
HS 35X90	GROWMARK, Inc	Xtend	3.5	2913	34.6	19.4	52.6	
CZ 3309GTLL	Credenz	LL/GT27	3.3	2990	35.2	19.8	52.5	
3401RX	Advanced Genetics, Inc.	Xtend	3.4	2767	34.8	18.9	52.4	
C3333RX	LG Seeds	Xtend	3.3	2747	35.9	18.3	52.0	
3502RX	Advanced Genetics, Inc.	Xtend	3.5	2686	35.9	19.2	51.5	
HS 36B90	GROWMARK, Inc	LL/GT27	3.6	2943	33.7	19.8	51.1	
AG36X6	Asgrow	Xtend	3.6	2756	35.8	19.0	51.0	57.1
Key 1036GL	AGRA Solutions, LLC	LL/GT27	3.6	3219	34.8	19.3	50.2	
SG3420R2X	Shur Grow	Xtend	3.4	2942	34.8	19.2	47.2	
CZ 3930GTLL	Credenz	LL/GT27	3.9	2812	34.9	19.4	46.8	
		Min	3.2	2481	33.3	18.2	44.3	
		Max	4.1	3360	36.1	20.7	69.3	
		Mean	3.5	2898	34.9	19.3	57.3	
		LSD (0.1)					6.5	
		CV					9.7	

Note: Min, max, mean, LSD, and CV values include experimental cultivars that were not printed in this publication.

TABLE 5: The 2019 Ohio Soybean Performance Trials, Central Region - Early Varieties (RM 2.5-3.3)

Entry			Physical Characteristics				Central Region Yield (bu/ac)			
Variety	Brand/Company Name	Type	RM	Seed size (number/lb)	% Protein	% Oil	C1	C2	'19 Mean	'18-'19 Mean
SC 3330L™	Seed Consultants	LL	3.3	2690	34.7	19.9	71.1**	62.7**	66.9	
SC 9339R™	Seed Consultants	RR1	3.3	2670	34.0	20.0	65.8*	61.7*	63.8	64.6
RS 33XT32	Rupp Seeds, Inc	Xtend	3.3	2840	35.6	18.4	63.5	61.8*	62.7	
3340R2X	Stewart Seeds	Xtend	3.3	2838	35.5	18.7	65.8*	57.6*	61.7	
3101RX	Advanced Genetics, Inc.	Xtend	3.1	2667	35.8	18.3	60.7	61.6*	61.2	
W 5928X	Wellman Seeds	Xtend	2.8	2926	35.9	19.5	66.5*	55.4	61.0	
Ebberts 330R2X	Ebberts Field Seeds	Xtend	3.3	2963	35.3	18.5	63.3	57.8*	60.6	
Ebberts 319R2X	Ebberts Field Seeds	Xtend	3.1	2849	35.3	18.9	58.5	62.1*	60.3	59.7
SG3229R2X	Shur Grow	Xtend	3.2	2902	35.4	18.6	62.5	58.0*	60.3	59.3
S33XT79	Dyna-Gro Seed	Xtend	3.3	2810	34.3	20.2	61.5	59.0*	60.3	60.5
RS 31XT40	Rupp Seeds, Inc	Xtend	3.1	2786	35.6	18.4	61.3	58.7*	60.0	57.4
AG32X8	Asgrow	Xtend	3.2	2682	34.7	18.7	65.3*	54.5	59.9	59.3
CZ 2550GTLL	Credenz	LL/GT27	2.5	2974	35.2	19.4	63.6	56.0	59.8	
S31XT59	Dyna-Gro Seed	Xtend	3.1	3061	34.6	20.2	61.2	58.4*	59.8	61.0
HS 28X70	GROWMARK, Inc	Xtend	2.8	2908	35.3	18.7	66.8*	52.7	59.8	62.0
S28XT58	Dyna-Gro Seed	Xtend	2.8	2746	35.0	18.9	61.3	57.9*	59.6	62.0
SC 8329X™	Seed Consultants	Xtend	3.2	3010	35.0	18.9	60.5	58.4*	59.5	
W 5932X	Wellman Seeds	Xtend	3.2	2947	35.5	18.4	64.0	54.8	59.4	
HS 33X80	GROWMARK, Inc	Xtend	3.3	2726	35.6	18.9	62.9	55.8	59.4	59.3
3303RX	Advanced Genetics, Inc.	Xtend	3.3	2767	34.9	18.3	58.0	59.8*	58.9	57.0
Ebberts 288R2X	Ebberts Field Seeds	Xtend	2.8	2864	35.2	18.6	60.1	57.1*	58.6	
G2900RX	AgriGold	Xtend	2.9	2869	35.3	18.8	61.2	55.7	58.5	61.3
RS 28BG90	Rupp Seeds, Inc	LL/GT27	2.8	3024	35.1	19.8	60.5	56.3	58.4	
HS 32X90	GROWMARK, Inc	Xtend	3.2	3179	35.1	18.4	57.9	58.4*	58.2	
AG30X8	Asgrow	Xtend	3.0	2759	35.1	19.1	60.9	54.7	57.8	57.0
Ebberts 2029 E3	Ebberts Field Seeds	Enlist	2.9	3275	34.3	19.8	61.3	53.9	57.6	
HS 32B90	GROWMARK, Inc	LL/GT27	3.2	2928	35.9	18.8	59.5	53.6	56.6	
2801RX	Advanced Genetics, Inc.	Xtend	2.8	2737	35.2	18.9	57.8	55.2	56.5	
9-732AE	Advanced Genetics, Inc.	Enlist	3.2	2874	34.8	19.7	56.6	56.1	56.4	
W 5033X	Wellman Seeds	Xtend	3.3	3120	35.4	18.2	61.5	51.0	56.3	
AG28X9	Asgrow	Xtend	2.8	3212	36.4	17.9	54.9	57.4*	56.2	
ZS3097 E3	Local Seed Company	Enlist	3.0	3128	33.9	20.1	60.9	51.4	56.2	
AG33X8	Asgrow	Xtend	3.3	2732	36.1	19.0	57.4	54.9	56.2	57.3
W 6030E	Wellman Seeds	Enlist	3.0	3410	34.7	19.6	56.1	55.8	56.0	
W 6928E	Wellman Seeds	Enlist	2.8	2726	33.4	20.3	55.8	55.3	55.6	
CZ 3309GTLL	Credenz	LL/GT27	3.3	2990	35.2	19.8	57.9	53.2	55.6	
2602RX	Advanced Genetics, Inc.	Xtend	2.6	3030	35.0	18.9	55.8	55.2	55.5	
ZS2898 GL	Local Seed Company	LL/GT27	2.8	2980	35.4	19.4	54.7	55.9	55.3	
ZS3399 E3	Local Seed Company	Enlist	3.3	3304	35.0	20.0	56.1	54.4	55.3	
C2888RX	LG Seeds	Xtend	2.8	3046	35.0	18.8	60.2	50.1	55.2	58.5
C3333RX	LG Seeds	Xtend	3.3	2747	35.9	18.3	55.7	54.2	55.0	
HS 28C70	GROWMARK, Inc	CV	2.8	2934	35.1	19.3	60.6	48.4	54.5	
Key 1031GL	AGRA Solutions, LLC	LL/GT27	3.1	3311	34.8	18.9	60.0	48.8	54.4	
AG25X9	Asgrow	Xtend	2.5	2862	34.0	19.1	57.1	51.6	54.4	
LS2685X	Local Seed Company	Xtend	2.6	2773	35.8	18.9	54.4	53.5	54.0	
9-730AE	Advanced Genetics, Inc.	Enlist	3.0	3042	34.2	20.5	56.6	51.3	54.0	
9-728AE	Advanced Genetics, Inc.	Enlist	2.8	2862	34.7	20.2	55.6	52.2	53.9	
G3150RX	AgriGold	Xtend	3.1	2940	34.9	18.7	55.7	51.9	53.8	
GH3088X	Golden Harvest	Xtend	3.0	3240	35.4	19.3	54.0	53.3	53.7	56.8
W 6032E	Wellman Seeds	Enlist	3.2	2980	34.2	20.0	52.4	54.9	53.7	

NOTE: Central Region, Early Variety Trial Results are Continued on the Next Page.

TABLE 5: The 2019 Ohio Soybean Performance Trials, Central Region - Early Varieties (RM 2.5-3.3)
CONTINUED FROM PREVIOUS PAGE

Entry			Physical Characteristics				Central Region Yield (bu/ac)			
Variety	Brand/Company Name	Type	Seed size				C1	C2	'19 Mean	'18-'19 Mean
			RM	(number/lb)	% Protein	% Oil				
AG26X8	Asgrow	Xtend	2.6	2913	35.0	19.1	57.1	50.1	53.6	
Ebberts 2032 E3	Ebberts Field Seeds	Enlist	3.2	2984	34.2	19.8	52.5	54.6	53.6	
RS 31EL46	Rupp Seeds, Inc	Enlist	3.1	3185	33.5	20.7	55.3	51.7	53.5	
HS 27X90	GROWMARK, Inc	Xtend	2.7	2710	34.7	19.4	57.7	49.1	53.4	
HS 32C80	GROWMARK, Inc	CV	3.2	2481	35.1	19.3	53.9	52.2	53.1	
9-729AE	Advanced Genetics, Inc.	Enlist	2.9	3500	34.2	19.6	58.6	47.4	53.0	
CZ 2760GTLL	Credenz	LL/GT27	2.7	3006	35.2	20.0	60.0	45.6	52.8	
LGS3060RX	LG Seeds	Xtend	3.0	2708	35.3	18.6	56.4	49.0	52.7	
G3285RX	AgriGold	Xtend	3.2	2747	35.8	18.3	58.7	46.6	52.7	55.4
S32EN60	Dyna-Gro Seed	Enlist	3.2	2967	34.0	20.2	57.7	47.4	52.6	
S33EN09	Dyna-Gro Seed	Enlist	3.3	3044	35.2	19.8	59.1	46.0	52.6	
CZ 2579GTLL	Credenz	LL/GT27	2.5	3139	35.6	19.2	54.9	49.9	52.4	
HS 28B90	GROWMARK, Inc	LL/GT27	2.8	3067	33.3	20.3	53.2	49.5	51.4	
CZ 3099GTLL	Credenz	LL/GT27	3.0	2305	35.3	19.5	49.1	52.8	51.0	
CZ 3100GTLL	Credenz	LL/GT27	3.1	3282	34.4	19.4	53.6	46.1	49.9	
CZ 2889GTLL	Credenz	LL/GT27	2.8	2847	34.2	19.4	40.9	46.7	43.8	
		Min	2.5	2305	33.3	17.9	40.9	45.6	43.8	
		Max	3.3	3500	36.4	20.7	71.1	62.7	66.9	
		Mean	3.0	2932	35.0	19.2	58.5	54.1	56.3	
		LSD (0.1)					5.9	6.4		
		CV					8.6	10.0		

Note: Min, max, mean, LSD, and CV values include experimental cultivars that were not printed in this publication.

TABLE 6: The 2019 Ohio Soybean Performance Trials, Central Region - Late Varieties (RM 3.4-4.4)

Entry			Physical Characteristics				Central Region Yield (bu/ac)			
Variety	Brand/Company Name	Type	Seed size				C1	C2	'19 Mean	'18-'19 Mean
			RM	(number/lb)	% Protein	% Oil				
Ebberts 2037 E3	Ebberts Field Seeds	Enlist	3.7	3069	34.4	19.9	60.5*	63.0*	61.8	
S34GL79	Dyna-Gro Seed	LL/GT27	3.4	2708	34.9	19.7	58.2	64.9**	61.6	
Ebberts 1939 E3	Ebberts Field Seeds	Enlist	3.9	2943	34.7	19.1	61.8*	58.9*	60.4	
SC 8379X TM	Seed Consultants	Xtend	3.7	2705	35.9	18.9	62.0*	58.1*	60.1	57.2
SC 3399L TM	Seed Consultants	LL	3.9	2640	34.6	19.5	60.1*	58.2*	59.2	
SG3440LLGT	Shur Grow	LL/GT27	3.4	3242	34.5	18.5	59.0*	59.0*	59.0	
CZ 3930GTLL	Credenz	LL/GT27	3.9	2812	34.9	19.4	59.7*	57.4	58.6	
S37XS89	Dyna-Gro Seed	Xtend/STS	3.7	2957	35.7	19.0	60.8*	56.1	58.5	58.5
Ebberts 388R2X	Ebberts Field Seeds	Xtend	3.8	2867	35.9	18.8	57.4	59.4*	58.4	59.0
CZ 3519GTLL	Credenz	LL/GT27	3.5	2509	35.6	19.6	57.9	58.5*	58.2	
AG41X8	Asgrow	Xtend	4.1	2844	35.5	19.0	63.6*	52.5	58.1	
GH3546X	Golden Harvest	Xtend	3.5	2869	34.6	19.5	56.1	59.8*	58.0	55.7
35DC2	Blue River Organic Seed	CV	3.5	2910	34.0	19.9	56.9	58.5*	57.7	
3450R2X	Stewart Seeds	Xtend	3.4	2737	34.9	19.3	60.5*	54.6	57.6	
ZS3797 GL	Local Seed Company	LL/GT27	3.7	3338	33.6	20.4	60.1*	55.0	57.6	
3527R2X	Stewart Seeds	Xtend	3.5	2695	35.9	19.1	55.3	59.7*	57.5	
SG3750E	Shur Grow	Enlist	3.7	2990	34.2	20.3	58.1	56.9	57.5	
SC 9385RR TM	Seed Consultants	RR2Y	3.8	2923	33.9	20.1	61.5*	53.4	57.5	57.5
Ebberts 368R2X	Ebberts Field Seeds	Xtend	3.6	2636	35.2	19.1	61.4*	53.0	57.2	58.3
S34XT69	Dyna-Gro Seed	Xtend	3.4	2867	35.2	19.1	59.2*	55.0	57.1	56.5
S37EN39	Dyna-Gro Seed	Enlist	3.7	3057	34.0	19.9	59.2*	53.9	56.6	

NOTE: Central Region, Late Variety Trial Results are Continued on the Next Page.

TABLE 6: The 2019 Ohio Soybean Performance Trials, Central Region - Late Varieties (RM 3.4-4.4)
CONTINUED FROM PREVIOUS PAGE

Variety	Entry		Physical Characteristics				Central Region Yield (bu/ac)			
	Brand/Company Name	Type	RM	Seed size (number/lb)	% Protein	% Oil	C1	C2	'19 Mean	'18-'19 Mean
ZS3496 GL	Local Seed Company	LL/GT27	3.4	2807	34.3	19.0	57.6	55.2	56.4	
3801RX	Advanced Genetics, Inc.	Xtend	3.8	2764	35.2	19.2	59.3*	53.5	56.4	57.5
AG34X9	Asgrow	Xtend	3.4	2812	35.2	19.4	57.0	55.7	56.4	
9-737AE	Advanced Genetics, Inc.	Enlist	3.7	3254	33.9	20.2	55.5	56.9	56.2	
29DC5	Blue River Organic Seed	CV	2.9	2865	33.9	19.7	59.4*	52.6	56.0	
HS 34B90	GROWMARK, Inc	LL/GT27	3.4	2972	34.7	19.2	58.2	53.5	55.9	
ZS3898E3S	Local Seed Company	Enlist	3.8	3338	33.6	20.4	55.9	55.6	55.8	
HS 36B90	GROWMARK, Inc	LL/GT27	3.6	2943	33.7	19.8	57.8	53.6	55.7	
AG36X6	Asgrow	Xtend	3.6	2756	35.8	19.0	58.7*	51.6	55.2	55.1
3601RX	Advanced Genetics, Inc.	Xtend	3.6	2734	34.8	19.1	63.9**	46.2	55.1	58.3
W 6034E	Wellman Seeds	Enlist	3.4	2998	34.2	20.4	56.9	52.6	54.8	
Ebberts 1934 E3	Ebberts Field Seeds	Enlist	3.4	3002	33.4	20.3	57.2	52.1	54.7	
W 5836X	Wellman Seeds	Xtend	3.6	2723	34.6	19.3	62.9*	46.4	54.7	57.9
LGS3777RX	LG Seeds	Xtend/STS	3.7	2910	35.5	19.2	62.4*	46.8	54.6	58.2
AG38X8	Asgrow	Xtend	3.8	2840	35.7	19.0	59.9*	48.9	54.4	57.5
AG37X9	Asgrow	Xtend	3.7	3360	34.5	19.0	58.2	50.2	54.2	
3830R2X	Stewart Seeds	Xtend	3.8	2757	35.1	19.3	57.8	50.4	54.1	
SG3640LLGT	Shur Grow	LL/GT27	3.6	3199	34.5	19.6	56.4	51.2	53.8	
HS 34C80	GROWMARK, Inc	CV	3.4	2678	33.5	20.0	58.0	49.3	53.7	
3401RX	Advanced Genetics, Inc.	Xtend	3.4	2767	34.8	18.9	56.6	50.1	53.4	
G3722RX	AgriGold	Xtend	3.7	2700	35.5	19.4	58.2	48.5	53.4	55.8
S36GL10	Dyna-Gro Seed	LL/GT27	3.6	3028	34.4	19.9	56.5	50.0	53.3	
W 6037E	Wellman Seeds	Enlist	3.7	3270	33.4	20.1	57.8	48.5	53.2	
Key 1036GL	AGRA Solutions, LLC	LL/GT27	3.6	3219	34.8	19.3	61.6*	44.6	53.1	
HS 39B80	GROWMARK, Inc	LL/GT27	3.9	2965	35.4	19.5	55.3	49.5	52.4	
G3620RX	AgriGold	Xtend	3.6	2951	35.3	18.5	57.5	46.9	52.2	
LGS3600RX	LG Seeds	Xtend	3.6	3022	35.4	18.9	59.3*	45.1	52.2	
HS 38X70	GROWMARK, Inc	Xtend	3.8	2773	35.7	18.6	61.7*	42.6	52.2	56.3
G3520RX	AgriGold	Xtend	3.5	2653	36.1	19.1	50.6	53.3	52.0	54.9
SC 9359RR™	Seed Consultants	RR2Y	3.5	2678	35.7	19.7	55.6	48.0	51.8	
Ebberts 340R2X	Ebberts Field Seeds	Xtend	3.4	2853	35.4	18.8	57.8	45.5	51.7	
CZ 3929GTLL	Credenz	LL/GT27	3.9	2855	35.0	19.6	57.1	46.0	51.6	
9-734AE	Advanced Genetics, Inc.	Enlist	3.4	3360	34.3	20.1	57.3	45.6	51.5	
W 6939E	Wellman Seeds	Enlist	3.9	2867	35.0	19.2	57.4	45.5	51.5	
S35EN99	Dyna-Gro Seed	Enlist	3.5	3057	33.5	19.9	62.2*	40.3	51.3	
CZ 3660GTLL	Credenz	LL/GT27	3.6	3020	34.1	20.1	55.8	45.7	50.8	
GH3475X	Golden Harvest	Xtend	3.4	2809	35.5	19.2	55.4	43.9	49.7	53.9
SG3450E	Shur Grow	Enlist	3.4	3217	34.4	20.4	53.5	45.8	49.7	
HS 35X90	GROWMARK, Inc	Xtend	3.5	2913	34.6	19.4	57.4	41.8	49.6	
RS 35EL03	Rupp Seeds, Inc	Enlist	3.5	3044	34.6	20.2	58.5	40.1	49.3	
SG3628R2X	Shur Grow	Xtend	3.6	2643	34.6	19.3	61.8*	36.8	49.3	54.2
3501RX	Advanced Genetics, Inc.	Xtend	3.5	3176	33.3	20.7	56.4	41.5	49.0	
AG42X9	Asgrow	Xtend	4.2	3333	34.3	19.7	61.0*	36.8	48.9	
C3985RX	LG Seeds	Xtend	3.9	3061	35.2	18.8	55.4	41.7	48.6	51.9
G3850RX	AgriGold	Xtend	3.8	2919	34.4	19.8	52.3	41.6	47.0	
SG3420R2X	Shur Grow	Xtend	3.4	2942	34.8	19.2	53.4	33.4	43.4	
		Min	3.4	2509	33.3	18.5	40.3	33.4	40.3	
		Max	4.4	3360	36.1	20.7	63.9	64.9	61.8	
		Mean	3.7	2927	34.7	19.5	57.7	50.5	54.1	
		LSD (0.1)					5.3	7.2		
		CV					7.9	12.0		

Note: Min, max, mean, LSD, and CV values include experimental cultivars that were not printed in this publication.

TABLE 7: The 2019 Ohio Soybean Performance Trials, South Region - Early Varieties (RM 2.7-3.6)

Entry			Physical Characteristics				South Region Yield (bu/ac)			
Variety	Brand/Company Name	Type	Seed size		% Protein	% Oil	S1	S2	'19 Mean	'18-'19 Mean
			RM	(number/lb)						
GH3546X	Golden Harvest	Xtend	3.5	2869	34.6	19.5	60.9	61.7**	61.3	68.5
CZ 3519GTLL	Credenz	LL/GT27	3.5	2509	35.6	19.6	65.3*	56.8*	61.1	
SG3628R2X	Shur Grow	Xtend	3.6	2643	34.6	19.3	65.8*	55.8	60.8	64.5
ZS3399 E3	Local Seed Company	Enlist	3.3	3304	35.0	20.0	59.9	59.4*	59.7	
ZS3496 GL	Local Seed Company	LL/GT27	3.4	2807	34.3	19.0	64.9*	53.3*	59.1	
G3620RX	AgriGold	Xtend	3.6	2951	35.3	18.5	63.9*	53.9*	58.9	
CZ 3100GTLL	Credenz	LL/GT27	3.1	3282	34.4	19.4	61.1	56.4*	58.8	
Ebberts 368R2X	Ebberts Field Seeds	Xtend	3.6	2636	35.2	19.1	66.4*	51.0	58.7	66.1
CZ 3309GTLL	Credenz	LL/GT27	3.3	2990	35.2	19.8	59.4	57.4*	58.4	
AG36X6	Asgrow	Xtend	3.6	2756	35.8	19.0	66.3*	50.4	58.4	63.9
3450R2X	Stewart Seeds	Xtend	3.4	2737	34.9	19.3	67.6*	48.9	58.3	
W 5033X	Wellman Seeds	Xtend	3.3	3120	35.4	18.2	64.4*	51.5	58.0	
SC 9339R™	Seed Consultants	RR1	3.3	2670	34.0	20.0	60.8	55.0*	57.9	62.9
Ebberts 1934 E3	Ebberts Field Seeds	Enlist	3.4	3002	33.4	20.3	60.9	54.6*	57.8	
CZ 3099GTLL	Credenz	LL/GT27	3.0	2305	35.3	19.5	58.6	56.5*	57.6	
LGS3600RX	LG Seeds	Xtend	3.6	3022	35.4	18.9	68.0**	47.0	57.5	
W 5932X	Wellman Seeds	Xtend	3.2	2947	35.5	18.4	68.0**	46.9	57.5	
W 5928X	Wellman Seeds	Xtend	2.8	2926	35.9	19.5	60.4	54.2*	57.3	
SC 9359RR™	Seed Consultants	RR2Y	3.5	2678	35.7	19.7	57.9	56.3*	57.1	
W 5836X	Wellman Seeds	Xtend	3.6	2723	34.6	19.3	64.9*	48.7	56.8	63.2
AG34X9	Asgrow	Xtend	3.4	2812	35.2	19.4	65.5*	47.9	56.7	
S34XT69	Dyna-Gro Seed	Xtend	3.4	2867	35.2	19.1	63.7*	49.2	56.5	63.7
AG30X8	Asgrow	Xtend	3.0	2759	35.1	19.1	58.8	52.4*	55.6	
CZ 2760GTLL	Credenz	LL/GT27	2.7	3006	35.2	20.0	61.9	48.3	55.1	
LGS3060RX	LG Seeds	Xtend	3.0	2708	35.3	18.6	62.3	47.7	55.0	
W 6034E	Wellman Seeds	Enlist	3.4	2998	34.2	20.4	56.7	52.9*	54.8	
AG32X8	Asgrow	Xtend	3.2	2682	34.7	18.7	64.0*	45.4	54.7	60.9
G3285RX	AgriGold	Xtend	3.2	2747	35.8	18.3	60.5	48.5	54.5	
Key 1031GL	AGRA Solutions, LLC	LL/GT27	3.1	3311	34.8	18.9	58	49.9	54.0	
Ebberts 340R2X	Ebberts Field Seeds	Xtend	3.4	2853	35.4	18.8	62.6	44.7	53.7	
W 6032E	Wellman Seeds	Enlist	3.2	2980	34.2	20.0	58.6	48.3	53.5	
S36GL10	Dyna-Gro Seed	LL/GT27	3.6	3028	34.4	19.9	51.7	54.8*	53.3	
3527R2X	Stewart Seeds	Xtend	3.5	2695	35.9	19.1	65.9*	40.2	53.1	
C2888RX	LG Seeds	Xtend	2.8	3046	35.0	18.8	63.2*	42.3	52.8	
C3333RX	LG Seeds	Xtend	3.3	2747	35.9	18.3	65.3*	40.0	52.7	
SG3640LLGT	Shur Grow	LL/GT27	3.6	3199	34.5	19.6	54.0	50.0	52.0	
G3520RX	AgriGold	Xtend	3.5	2653	36.1	19.1	63.4*	40.4	51.9	64.1
W 6030E	Wellman Seeds	Enlist	3.0	3410	34.7	19.6	56.9	45.7	51.3	
CZ 2889GTLL	Credenz	LL/GT27	2.8	2847	34.2	19.4	54.5	48.0	51.3	
W 6928E	Wellman Seeds	Enlist	2.8	2726	33.4	20.3	53.1	48.2	50.7	
CZ 3660GTLL	Credenz	LL/GT27	3.6	3020	34.1	20.1	56.8	43.7	50.3	
Key 1036GL	AGRA Solutions, LLC	LL/GT27	3.6	3219	34.8	19.3	54.4	45.7	50.1	
AG33X8	Asgrow	Xtend	3.3	2732	36.1	19.0	56.7	39.7	48.2	57.2
		Min	2.7	2305	33.4	18.2	38.1	24.9	31.5	
		Max	3.6	3410	36.1	20.4	68.0	61.7	61.3	
		Mean	3.3	2882	35.0	19.3	60.4	49.0	54.7	
		LSD (0.1)					4.8	9.7		
		CV					6.85	14.42		

Note: Min, max, mean, LSD, and CV values include experimental cultivars that were not printed in this publication.

TABLE 8: The 2019 Ohio Soybean Performance Trials, South Region - Late Varieties (RM 3.7-4.4)

Entry			Physical Characteristics				South Region Yield (bu/ac)			
Variety	Brand/Company Name	Type	RM	Seed size	% Protein	% Oil	S1	S2	'19 Mean	'18-'19 Mean
LSX4487XS	Local Seed Company	Xtend/STS	4.4	3020	35.3	18.9	74.1*	68.0*	71.1	
CZ 3930GTLL	Credenz	LL/GT27	3.9	2812	34.9	19.4	70.2	69.8*	70.0	
S37XS89	Dyna-Gro Seed	Xtend/STS	3.7	2957	35.7	19.0	75.1*	64.7*	69.9	69.8
SC 3399L™	Seed Consultants	LL	3.9	2640	34.6	19.5	68.3	71.2**	69.8	
AG41X8	Asgrow	Xtend	4.1	2844	35.5	19.0	72.4*	67.0*	69.7	67.1
LS3976X	Local Seed Company	Xtend	3.9	3360	33.8	19.8	71.4	67.8*	69.6	
Ebberts 1939 E3	Ebberts Field Seeds	Enlist	3.9	2943	34.7	19.1	67.7	68.8*	68.3	
S37EN39	Dyna-Gro Seed	Enlist	3.7	3057	34.0	19.9	66.3	70.0*	68.2	
S41XS98	Dyna-Gro Seed	Xtend/STS	4.1	2656	35.0	19.4	71.1	64.5*	67.8	66.2
AG42X9	Asgrow	Xtend	4.2	3333	34.3	19.7	70.0	65.5*	67.8	
4029R2X	Stewart Seeds	Xtend	4.0	2842	35.3	19.1	71.8*	63.2*	67.5	68.3
GH3728X	Golden Harvest	Xtend	3.7	2902	34.8	19.5	76.2**	57.3	66.8	
GH3934X	Golden Harvest	Xtend	3.9	2882	34.9	19.5	68.3	64.7*	66.5	
SC 8399X™	Seed Consultants	Xtend	3.9	2858	35.3	19.3	71.0	61.9*	66.5	
S39EN19	Dyna-Gro Seed	Enlist	3.9	2842	34.6	19.4	69.2	63.5*	66.4	
SC 8379X™	Seed Consultants	Xtend	3.7	2705	35.9	18.9	72.8*	59.6	66.2	68.7
W 6939E	Wellman Seeds	Enlist	3.9	2867	35.0	19.2	69.7	62.2*	66.0	
ZS3898 E3S	Local Seed Company	Enlist	3.8	3338	33.6	20.4	67.9	63.5*	65.7	
CZ 3929GTLL	Credenz	LL/GT27	3.9	2855	35.0	19.6	66.2	63.8*	65.0	
S13-2743C	University of Missouri	CV	4.1	3620	34.8	19.2	64.3	64.3*	64.3	
ZS3797 GL	Local Seed Company	LL/GT27	3.7	3338	36.0	19.3	66.5	61.7*	64.1	
C3985RX	LG Seeds	Xtend	3.9	3061	35.2	18.8	70.5	57.6	64.1	67.6
S40GL59	Dyna-Gro Seed	LL/GT27	4.0	2817	35.0	20.0	64.4	63.2*	63.8	
Ebberts 388R2X	Ebberts Field Seeds	Xtend	3.8	2867	35.9	18.8	74.6*	53.0	63.8	65.0
Ebberts 2037 E3	Ebberts Field Seeds	Enlist	3.7	3069	34.4	19.9	66.1	60.2	63.2	
G3722RX	AgriGold	Xtend	3.7	2700	35.5	19.4	71.3	54.3	62.8	66.8
W 6037E	Wellman Seeds	Enlist	3.7	3270	33.4	20.1	62.2	62.6*	62.4	
LS4299XS	Local Seed Company	Xtend/STS	4.2	2878	35.3	18.8	70.3	54.2	62.3	
SC 9385RR™	Seed Consultants	RR2Y	3.8	2923	33.9	20.1	64.5	60.0	62.3	61.5
AG37X9	Asgrow	Xtend	3.7	3360	34.5	19.0	70.8	52.8	61.8	
LGS3777RX	LG Seeds	Xtend/STS	3.7	2910	35.5	19.2	71.3	52.1	61.7	67.6
G4255RX	AgriGold	Xtend	4.2	2766	35.6	19.0	69.8	53.4	61.6	
AG38X8	Asgrow	Xtend	3.8	2840	35.7	19.0	68.6	53.4	61.0	63.3
G3850RX	AgriGold	Xtend	3.8	2919	34.4	19.8	67.4	53.5	60.5	
3830R2X	Stewart Seeds	Xtend	3.8	2757	35.1	19.3	71.6	46.5	59.1	
S13-3851C	University of Missouri	CV	4.4	2814	35.0	19.6	54.1	59.0	56.6	54.4
S13-10590C	University of Missouri	CV	4.3	2891	35.1	19.0	58.1	54.7	56.4	
S42EN89	Dyna-Gro Seed	Enlist	4.2	3574	34.8	19.4	53.4	56.9	55.2	
SG3750E	Shur Grow	Enlist	3.7	2990	34.2	20.3	57.3	53.0	55.2	
		Min	3.7	2640	33.4	18.8	49.8	37.9	51.5	
		Max	4.4	3620	35.9	20.4	76.2	71.2	71.1	
		Mean	3.9	2998	34.9	19.4	66.4	58.7	62.6	
		LSD (0.1)					4.4	10.0		
		CV					5.6	12.51		

Note: Min, max, mean, LSD, and CV values include experimental cultivars that were not printed in this publication.