

Table 1. Locations, planting and harvest dates for the 2020 Kentucky Soybean Variety Performance Tests

REGION	TEST SITE	COLLABORATORS	PLANTING DATE(S)	AG. PRACTICE	HARVEST DATES
Bluegrass	Fayette County	C.Venard	5/12/2020	No-till	MG II: 09/23, MG III: 10/01; MG IV Early, IV Late and V: 10/22
Green River	Hancock County	Mr. Hagman, soybean producer, and Evan Tate, UK Ext. Ag. & Nat Resources agent	6/8/2020	No-till	MG II, III & V: 11/02; MG IV Early & IV Late: 11/03
	Mulhenberg County	Mr. Miller, soybean producer, and Mr. Simpson, UK Ext. Ag. & Nat Resources agent	6/13/2020	Tillage	MG II & III: 10/17; MG IV Late & V: 11/8; MG IV Early: 11/9
Lake Cumberland	Cumberland County	Mr. Mims, soybean producer, and Mr. Guffey & Ms.	6/7/2020	No-till	MG II & III: 10/14; MG IV Early, IV Late & V: 11/18
Lincoln Trail	Meade County	Mr. Straney, soybean producer, and Mr. Mills, UK Ext. Ag. & Nat Resources agent	6/11/2020	No-till	MG II & III: 11/06; MG IV Early, IV Late & V: 11/07
Mammoth Cave	Allen County	Mr. Shaw, soybean producer and Mr. Huber, UK Ext. Ag. & Nat Resources agent	6/6/2020	No-till	MG II & III: 10/08; MG IV Early, IV Late & V: 11/17
Pennyrile	Caldwell County	Scott Peek, UKREC Farm manager	6/1/2020	No-till	MG II & III: 10/07; MG IV Early: 11/13; MG IV Late & V: 11/12
	Christian County	Mr. Askew, soybean producer, and Mr. Futrell, UK Ext. Ag. & Nat Resources agent	6/15/2020	No-till	MG II & III: 10/15; MG IV Early: 10/16; MGIV: 11/13; MG IV Late: 11/16
Purchase	Calloway County	Dr. Ferguson, Pr. Murray State University	6/3/2020	No-till	MG II & III: 10/06; MG V: 11/09; MG IV Early & IV Late: 11/10

Table 2. Planting guide for full-season and double-crop soybeans

Full-season soybeans						
Target stand plant/acre	Germination rate	Assumed stand loss	Final seeding rate	Row spacing (in.)		
				7.5	15	30
				seeds per foot		
100,000	95%	5%	110,803	1.6	3.2	6.4
		10%	116,959	1.7	3.4	6.7
		20%	131,579	1.9	3.8	7.6
		30%	150,376	2.2	4.3	8.6
	90%	5%	116,959	1.8	3.4	6.7
		10%	123,457	1.8	3.5	7.1
		20%	138,889	2.0	4.0	8.0
		30%	158,730	2.3	4.6	9.1
	85%	5%	123,839	1.8	3.6	7.1
		10%	130,719	1.9	3.8	7.5
		20%	147,059	2.1	4.2	8.4
		30%	168,067	2.4	4.8	9.6
Double-crop soybeans						
Target stand plant/acre	Germination rate	Assumed stand loss	Final seeding rate	Row spacing (in.)		
				7.5	15	30
				seeds per foot		
140,000	95%	5%	155,125	2.2	4.5	8.9
		10%	163,743	2.3	4.7	9.4
		20%	184,211	2.6	5.3	10.6
		30%	210,526	3.0	3.0	12.1
	90%	5%	163,743	2.3	7.4	9.4
		10%	172,840	2.5	5.0	9.9
		20%	194,444	2.8	5.6	11.2
		30%	222,222	3.2	6.4	12.8
	85%	5%	173,375	2.5	5.0	10.0
		10%	183,007	2.6	5.3	10.5
		20%	205,882	3.0	5.9	11.8
		30%	235,294	3.4	6.8	13.5

University of Missouri									
UNIVERSITY OF MISSOURI S15-5904RY	4.5	R2Y					R		Warden® RTA
UNIVERSITY OF MISSOURI S15-3847R	4.6	RR1	R3	1c			R		Warden® RTA
UNIVERSITY OF MISSOURI S16-5540R	4.6	RR1	R-2, 3, 5				S	Chloride excluder, R-KNM, R-Reniform	Warden® RTA
UNIVERSITY OF MISSOURI S16-14730C	4.7	CONV	R-3; MR-2,5				R	MR- RKN	Warden® RTA
UNIVERSITY OF MISSOURI S15-3772RY	4.8	R2Y		1a			S		Warden® RTA
UNIVERSITY OF MISSOURI S16-14379C	4.8	CONV					R		Warden® RTA
UNIVERSITY OF MISSOURI S16-7875C	4.9	CONV					R	R-Reniform	Warden® RTA
UNIVERSITY OF MISSOURI S16-11644C	4.9	CONV	R-2; MR-2,3				S	Chloride excluder, R-RKN	Warden® RTA
UNIVERSITY OF MISSOURI S16-7922C	4.9	CONV	MR-2,3,5				R	Chloride excluder, R-RKN, MR-Reniform	Warden® RTA
UNIVERSITY OF MISSOURI S16-3747RY	5.0	R2Y	MR-2,3; R-5				R	MR-Reniform	Warden® RTA
UNIVERSITY OF MISSOURI S16-3739RY	5.2	R2Y					R		Warden® RTA
UNIVERSITY OF MISSOURI S16-15809C	5.2	CONV						Chlorid excluder, R-RKN, MR-Reniform	Warden® RTA
UNIVERSITY OF MISSOURI S16-11651C	5.3	CONV	R-5; MR-2,3				R	Chloride excluder	Warden® RTA
UNIVERSITY OF MISSOURI S16-15170C	5.3	CONV	R-5; MR-2				R		Warden® RTA
VIRTUE Seeds									
V 4220 S	4.2	CONV	R3-MS, R14S	RPS 1C	8	7	R		Equity® VIP
V 4520 S	4.5	CONV	R3-MS, R14S	RPS 1A	8	7	R		Equity® VIP
V 4921 S	4.9	CONV		RPS 1 K	8	8	R		Equity® VIP

Table 4. 2020 Kentucky Soybean Variety Performance Tests, State Summary - Recommended Table

BRAND VARIETY	YIELD (BU/AC) ^{A/B}			LODGING	Technologies	OIL ^{A/C}			PROTEIN ^{A/C}		
	2020	2019-2020	2018-2020	2020		2020	2019-2020	2018-2020	2020	2019-2020	2018-2020
MATURITY GROUP II (relative MG 2.0-2.9)						COMING SOON					
ASGROW AG29X9	62.3	61.1		1.6	RR2X						
AGRIGOLD G2900RX	60.2	60.9	55.9	2.1	Xtend						
GROUP II AVERAGE	61.2	61.0	55.9	1.9							
LSD (0.10)	4.3	2.6									
C.V.	5.0	4.5									
MATURITY GROUP III (relative MG 3.0-3.9)											
DYNA-GRO S38XS21	71.1			2.1	XT/STS						
DYNA-GRO S39EN19	70.6	70.3		1.6	E3						
STINE 39EA02	70.4	68.8		1.7	E3						
ARMOR 39-D30	70.3			3.4	RRX						
ASGROW AG37X9	70.3	70.3	65.9	2.4	RR2X						
PIONEER P36A83X	70.1			1.7	RR2X						
LSX3911GL	70.1			2.4	LLGT27						
LS3976X	69.8	70.3		2.6	Xtend						
STEWART 3830R2X	69.6	69.6		1.8	RR2/Xtend						
STEWART 3628R2X	69.5	67.1		2.2	RR2/Xtend						
AGRIGOLD G3850RX	69.4	67.3		2.4	Xtend						
SEED CONSULTANTS SC 7381E™	69.2			1.4	E3						
39N04E	68.8			1.3	E3						
SEED CONSULTANTS SC 3399L™	68.6	71.0		2.7	LL						
B390EE	68.5			1.5	Enlist/LL/RR2						
ASGROW AG39X0	68.2	69.6		2.3	RR2X						
AGRIGOLD G3722RX	68.1	69.0	64.8	2.7	Xtend						
PIONEER P39A58X	68.0			1.7	RR2X						
AGRIGOLD G3620RX	67.5	67.7		1.9	Xtend						
ASGROW AG36X6	67.4			1.9	RR2X						
ASGROW AG38X8	67.4	67.7	64.4	1.7	RR2X						
ZS3898E3S	67.1			1.9	Enlist/STS						
LG SEEDS LGS3840RX	67.0			1.8	Xtend - STS						
GO SOY 38E21S	67.0			1.5	Enlist/STS						
ASGROW AG39X7	66.9	67.9	64.4	1.7	RR2X/SR						
CAVERNDALE CF 383 E3 STSn	66.8			1.2	E3						
LG SEEDS LGS3733RX	66.7			2.4	Xtend - STS						
39N05E	66.6			1.6	E3						
B389EE	66.5			1.7	Enlist/LL/RR2						
LG SEEDS LGS3600RX	66.2			1.8	Xtend - STS						
ASGROW AG33X0	65.5			2.0	RR2X						
36N03E	65.5			1.3	E3						
DYNA-GRO S3961STS	65.0			1.5	CONV						
SEED CONSULTANTS SC 8399X™	64.8	66.9	64.9	2.4	X						
PIONEER P33A53X	64.6	65.2		1.4	RR2X						
CHANNEL 3821R2X/SR	64.4			2.5	RR2/Xtend/SR						
PIONEER P31A22X	62.9	62.9		3.4	RR2X						
SEED CONSULTANTS SCS 9393RR™	62.9	66.4	63.3	1.4	R2Y						
GROUP III AVERAGE	67.6	68.1	64.6	2.0							
LSD (0.10)	4.2	2.9	2.3								
C.V.	4.7	4.5	4.5								
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)											
43N04E	74.6			2.0	E3						
AGRIGOLD G4255RX	72.6			2.1	Xtend						
DYNA-GRO S45ES10	72.5			2.0	E3/STS						
STINE 41EB32	72.5			2.0	E3						
DM 45X61	72.4			3.0	RR2X						
LG SEEDS LGS4464RX	72.1			2.1	Xtend - STS						
ARMOR 44-D49	72.1			3.2	RRX						
STEWART 4527R2X	71.6	72.4	70.6	2.2	RR2/Xtend/SR						
PROGENY 4444 RXS	71.5	69.1	66.4	3.0	Xtend/STS						
ARMOR 44-E44	71.2			1.9	E3						
AGRIGOLD G4318RX	71.0			2.6	Xtend						
DYNA-GRO S41XS98	71.0	70.1	67.5	1.9	XT/STS						
USG 7447XTS	70.9			2.3	RR2X						
ASGROW AG43X0	70.8	71.6		1.9	RR2X/SR						
HS 41X70	70.5			2.0	Xtend						
CHANNEL 4519R2X/SR	70.4	70.9		2.0	RR2/Xtend/SR						
MISSION A4448X	70.4			2.4	RR2/Xtend/STS						
ARMOR 44-D92	70.3	71.3		2.1	RRXS						

STEWART 4228R2X	70.2	69.7	66.7	2.1	RR2/Xtend/SR
DYNA-GRO S43XS70	70.2	69.7		2.1	XT/STS
SEED CONSULTANTS SC 7421™	70.1			2.2	E3
B400EE	70.1			1.4	Enlist/LL/RR2
B430EE	70.1			2.7	Enlist/LL/RR2
45N04E	70.0			1.9	E3
STINE 40EB22	69.9			2.1	E3
PROGENY 4505 RXS	69.9			3.0	Xtend/STS
PROGENY 4265 RXS	69.6	70.0		2.1	Xtend/STS
LS4299XS	69.6	70.7		2.1	Xtend/STS
LS4583X	69.6	68.1		2.1	Xtend
ARMOR 44-D19	69.5			2.3	RRX
DYNA-GRO S41ES80	69.5			1.8	E3/STS
AGRIGOLD G4190RX	69.4			2.0	Xtend
41N03E	69.4			1.5	E3
CAVERNDALE CF 423 E3 STSn	69.4			1.8	E3
GO SOY 433E21	69.2			3.3	Enlist
PROGENY 4241 E3	69.2			1.4	Enlist
DYNA-GRO S43EN61	69.1			2.1	E3
V 4520 S	69.1			2.0	CONV
CHANNEL 4218R2X/SR	69.0	69.4	65.5	2.0	RR2/Xtend/SR
CZ 4241GTLL	68.9			1.8	LLGT27
HS 45E00	68.9			1.7	E3
B450EE	68.8			1.7	Enlist/LL/RR2/STS
LS4565XS	68.7	69.1		2.7	Xtend/STS
V 4220 S	68.6			2.4	CONV
TAYLOR SEED T4400XS	68.3			2.2	Xtend
PIONEER P44A72BX	68.2	68.9	67.0	2.3	RR2X/STS
CZ 4240GTLL	68.1			1.1	LLGT27
B420EE	68.0			2.5	Enlist/LL/RR2
ARMOR 42-E11	67.8			2.3	E3
DM 40X61	67.7			2.3	RR2X
CAVERNDALE CF 453 E3	67.4			2.8	E3
PIONEER P42A96X	67.4	69.0	68.3	1.6	RR2X
GO SOY 41C19	67.3			2.4	Conventional
HS 43E00	66.9			2.3	E3
LS4407X	66.7	67.2		2.6	Xtend
AGS GS42X19S	66.5	64.5		1.7	Xtend STS
BLUE RIVER 41DC8	65.7			1.4	Feed
STEWART 4029R2X	64.7	66.6		1.9	RR2/Xtend
ASGROW AG42X9	63.7	66.3	63.8	2.6	RR2X
UNIVERSITY OF MISSOURI S15-5904RY	58.4			2.6	R2Y
GROUP IV EARLY AVERAGE	69.3	69.2	67.0	2.2	
LSD (0.10)	5.4	3.4	2.7		
C.V.	5.9	5.2	5.0		

MATURITY GROUP IV LATE (relative MG 4.6-4.9)

B460EE	70.8			2.6	Enlist/LL/RR2
LG SEEDS LGS4632RX	70.5			2.8	Xtend - STS
USG 7461XTS	70.5			2.6	RR2X
USG 7489XT	70.5			1.4	RR2X
HS 46X90	70.4	68.6		1.7	Xtend
HS 49X60	70.3	68.1	65.8	1.9	Xtend
ARMOR 48-D25	70.2	69.3		1.8	RRXS
LS4795XS	70.2	67.1		1.7	Xtend/STS
PIONEER P46A86X	70.1			2.4	RR2X
PIONEER P48A60X	70.0	70.8	68.7	2.5	RR2X
PROGENY 4816 RX	69.9	68.7	67.0	1.7	Xtend
MISSION A4618X	69.7			2.4	RR2/Xtend/STS
LG SEEDS LGS4899RX	69.6	68.9		1.7	Xtend - STS
ASGROW AG46X0	68.9	66.4		1.9	RR2X/SR
46N02E	68.8			1.8	E3
DYNA-GRO S48XT90	68.8			2.8	XTEND
LSX4812XS	68.8			1.6	Xtend/STS
B470EE	68.7			2.2	Enlist/LL/RR2
LS4999X	68.6	66.0		2.1	Xtend
PROGENY 4807 E3S	68.5			3.5	Enlist/STS
USG 7496XTS	68.5	67.0	64.6	2.4	RR2X
BLUE RIVER e4993	68.5	65.8		2.5	Feed
ARMOR 46-E50	68.4			1.7	E3
AGRIGOLD G4620RX	68.3			1.9	Xtend
HS 48E00	68.3			2.9	E3
STEWART 4907R2X	68.1			2.3	RR2/Xtend/SR
PROGENY 4775 E3S	67.9			1.8	Enlist/STS

DYNA-GRO S46XS60	67.9	68.4		1.8	XT/STS
ARMOR 47-E02	67.8			2.0	E3
PROGENY 4700 RXS	67.8			3.0	Xtend/STS
BLUE RIVER 49CK9	67.7			2.0	Feed
DYNA-GRO S48XT56	67.7	67.7	64.5	1.6	XTEND
ASGROW AG48X7	67.7			2.0	RR2X/SR
TAYLOR SEED T4990XS XTEND	67.4			2.1	Xtend
DYNA-GRO S46ES91	67.4			2.0	E3/STS
V 4921 S	67.3			2.1	CONV
ARMOR 46-D09	67.2	66.1		2.1	RRXS
TAYLOR SEED T4641ES	67.1			2.0	E3
TAYLOR SEED T4880X XTEND	67.1			1.4	Xtend
DYNA-GRO S4751STS	67.1			2.0	CONV
MISSION A4950X	67.0			2.7	RR2/Xtend
PROGENY 4821 RX	66.8	65.9		2.1	Xtend
LSX4612XS	66.8			2.6	Xtend/STS
ASGROW AG48X9	66.6	67.2	65.9	1.6	RR2X/SR
PROGENY 4851 RX	66.5			3.9	Xtend
ARMOR 49-D14	66.4			2.9	RRX
AGS GS47X19	66.3			2.4	Xtend
DYNA-GRO S46XT80	65.9	66.9		2.4	XTEND
ASGROW AG47X9	65.8	67.6	66.0	1.8	RR2X
CZ 4770X	65.6			2.3	Xtend
MISSION A4828X	65.4			3.1	RR2/Xtend/STS
PROGENY 4970 RX	65.3			2.6	Xtend
USG 7470XT	65.2	65.9		2.4	RR2X
GO SOY 48C17S	65.2	62.2		3.4	Conventional/STS
CZ 4810X	65.1			2.6	Xtend
GO SOY 481E19	65.0			1.9	Enlist
PROGENY 4620 RXS	64.9	65.3	63.3	3.4	Xtend/STS
PROGENY 4902 E3	64.7			3.0	Enlist
STINE 46EB22	64.7			1.9	E3
DM 48E73	64.4			1.7	Enlist
PROGENY 4682 E3	64.3			2.3	Enlist
UNIVERSITY OF MISSOURI S16-14730C	64.3			2.4	CONV
ARMOR 48-E81	64.2			3.5	E3
CZ 4730X	64.1			2.1	Xtend
DM 49X13	63.9			2.5	RR2X
LSX4711GL	63.7			1.7	LLGT27
GO SOY 463E20S	63.4			2.3	Enlist/STS
PROGENY 4602 LR	63.2			2.0	Liberty Link GT27
UNIVERSITY OF MISSOURI S15-3772RY	62.8			2.2	R2Y
UNIVERSITY OF MISSOURI S16-14379C	62.8			2.1	CONV
CAVERNDALE CF 473 E3 STSn	62.6			2.0	E3
UNIVERSITY OF MISSOURI S16-7922C	62.5			4.6	CONV
CAVERNDALE CF 461 LL/GT27/STSn	62.5			2.8	GTLL27
STINE 48EB02	62.2			2.4	E3
UNIVERSITY OF MISSOURI S16-7875C	61.5			4.6	CONV
UNIVERSITY OF MISSOURI S16-5540R	61.2			4.6	RR1
PROGENY 4908 E3S	59.5			2.1	Enlist/STS
UNIVERSITY OF MISSOURI S15-3847R	59.4			3.4	RR1
UNIVERSITY OF MISSOURI S16-11644C	59.1			4.6	CONV
PENNYRILE (long term check-released 1987)	49.7	50.3	48.0	2.5	CONV-PUB
GROUP IV LATE AVERAGE	66.2	66.4	63.8	2.4	
LSD (0.10)	4.3	3.0	2.4		
C.V.	4.9	4.8	4.7		
MATURITY GROUP V (relative MG 5.0-5.9)					
ARMOR 50-D50	67.2			2.5	RRX
LS5009XS	65.9			2.6	Xtend/STS
PROGENY 5170 RX	65.7	67.9		2.8	Xtend
PROGENY 5211 E3	65.5			2.3	Enlist
PROGENY 5016 RXS	64.9	66.8	65.7	2.3	Xtend/STS
LS5386X	64.8			1.7	Xtend
ARMOR 51-E53	64.8			2.6	E3
LS5087X	64.5	64.3		2.7	Xtend
UNIVERSITY OF MISSOURI S16-15170C	63.2			1.9	CONV
ZS5098E3	61.5			2.5	Enlist
PROGENY 5252 RX	60.3	62.9	60.2	2.2	Xtend
UNIVERSITY OF MISSOURI S16-3739RY	60.2			4.2	R2Y
UNIVERSITY OF MISSOURI S16-11651C	58.5			4.1	CONV
UNIVERSITY OF MISSOURI S16-3747R	58.3			4.0	R2Y
UNIVERSITY OF MISSOURI S16-15809C	57.7			4.0	CONV
ESSEX (long term check-released 1974)	55.6	57.6	54.7	3.2	CONV-PUB

GROUP V AVERAGE	62.4	63.9	60.2	2.9
LSD (0.10)	4.8	3.0	2.3	
C.V.	5.7	5.0	4.7	

^A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

^B The 2020 yield data were collected at the Allen Co., Caldwell Co., Calloway Co., Christian Co., Cumberland Co., Fayette Co., Hancock Co., Muhlenberg Co., and Meade Co. test sites. The 2019 yield data were collected in Allen Co. (except for the Maturity Group II - no data), Caldwell Co., Calloway Co., Christian Co., Cumberland Co., Fayette Co., Meade Co., and McLean Co. The 2018 yield data were collected at the Caldwell Co., Calloway Co., Fayette Co., Henderson Co., Logan Co., and Meade Co. locations.

^C The 2018-2020 oil and protein samples were collected at the Caldwell Co., Calloway Co., and Fayette Co. test sites.

Table 5. 2020 Kentucky Soybean Variety Performance Tests, Bluegrass Region - 2020 Fayette County

BRAND VARIETY	YIELD (BU/AC) ^{A/B}			LODGING 2020	HEIGHT (IN.) 2020	MATURITY DATE 2020	POD COLOR (R8)
	2020	2019-2020	2018-2020				
MATURITY GROUP II (relative MG 2.0-2.9)							
AGRIGOLD G2900RX	47.7	45.0	46.8	1.0	31	16	Tan
ASGROW AG29X9	45.2	41.9		1.0	29	16	Tan
GROUP II AVERAGE	46.4	43.4		1.0	30 in.	Sept. 16th	
LSD (0.10)	4.3	1.4					
C.V.	3.7	3.9					
MATURITY GROUP III (relative MG 3.0-3.9)							
DYNA-GRO S38XS21	68.5			1.0	34	20	Brown tan
B389EE	65.5			1.0	30	28	Brown gold
SEED CONSULTANTS SC 3399L™	65.0	71.2		1.0	32	28	Brown
ASGROW AG39X7	64.3	61.2	62.2	1.0	33	20	Brown
LG SEEDS LGS3733RX	63.2			1.0	33	20	Brown tan
SEED CONSULTANTS SC 8399X™	63.1	62.1	63.3	1.0	34	28	Brown gold
DYNA-GRO S39EN19	62.9	59.3		1.0	29	20	Brown tan
GO SOY 38E21S	62.7			1.0	25	25	Gold
PIONEER P39A58X	61.5			1.0	32	25	Brown tan
CHANNEL 3821R2X/SR	60.0			1.0	32	28	Brown
LSX3911GL	59.5			1.0	31	28	Gold
LG SEEDS LGS3600RX	59.5			1.0	34	20	Brown tan
SEED CONSULTANTS SC 7381E™	58.9			1.0	22	15	Grey
DYNA-GRO S3961STS	58.8			1.0	30	28	Brown gold
AGRIGOLD G3850RX	58.3	59.2		1.0	36	20	Gold
ARMOR 39-D30	58.2			1.3	34	28	Gold
ASGROW AG33X0	57.9			1.0	30	20	Tan
CAVERNDAL CF 383 E3 STSn	57.7			1.0	24	20	Gold
AGRIGOLD G3722RX	57.6	57.9	56.4	1.0	33	27	Brown
LS3976X	57.6	58.6		1.3	31	28	Gold
SEED CONSULTANTS SCS 9393RR™	57.1	58.4	59.3	1.0	36	20	Gold
STEWART 3830R2X	57.0	63.2		1.0	30	28	Tan grey
39N05E	56.4			1.0	27	25	Brown
STEWART 3628R2X	56.4	47.3		1.0	29	20	Grey
AGRIGOLD G3620RX	56.0	58.3		1.0	28	20	Tan
ASGROW AG36X6	55.9			1.0	27	20	Grey
PIONEER P31A22X	55.8	57.9		1.3	30	20	Brown
ASGROW AG39X0	55.7	56.8		1.0	33	20	Tan
ASGROW AG37X9	55.5	62.4	62.4	1.0	29	20	Tan
ASGROW AG38X8	55.5	59.9	60.9	1.0	32	22	Grey
PIONEER P36A83X	55.1			1.0	30	20	Brown gold
B390EE	54.5			1.0	29	20	Tan grey
36N03E	53.9			1.0	26	28	Gold
PIONEER P33A53X	53.8	57.2		1.0	28	20	Brown gold
STINE 39EA02	53.5	55.6		1.0	28	20	Tan
LG SEEDS LGS3840RX	53.1			1.0	34	20	Tan
ZS3898E3S	51.8			1.0	32	20	Grey
39N04E	51.3			1.0	28	20	Tan
GROUP III AVERAGE	58.1	59.2	60.8	1.0	30 in.	Sept. 23rd	
LSD (0.10)	3.2	2.3	1.8				
C.V.	5.2	5.3	5.0				
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)							
CAVERNDAL CF 423 E3 STSn	73.5			1.0	38	36	Tan
STINE 40EB22	70.4			1.0	35	32	Brown Gold
MISSION A4448X	69.7			1.0	38	36	Brown
B450EE	69.1			1.0	32	30	Brown Gold
DYNA-GRO S43EN61	68.8			1.0	35	32	Brown Gold
BLUE RIVER 41DC8	68.6			1.0	39	30	Brown
DM 45X61	68.3			1.0	33	35	Grey
AGRIGOLD G4318RX	68.2			1.3	38	35	Brown
ARMOR 44-D92	68.1	61.8		1.3	39	36	Grey Brown
DYNA-GRO S43XS70	67.8	55.4		1.7	41	40	Brown Tan
B430EE	67.6			2.0	31	30	Brown Gold
GO SOY 433E21	67.1			1.3	33	32	Brown Gold

STINE 41EB32	67.1			1.0	30	30	Brown Gold
PROGENY 4505 RXS	66.9			1.7	40	40	Brown
ARMOR 44-D49	66.4			1.0	37	35	Brown
45N04E	66.3			1.0	31	31	Brown
DYNA-GRO S41ES80	66.2			1.0	27	33	Tan
PROGENY 4241 E3	65.9			1.0	32	30	Brown Gold
AGS GS42X19S	65.7	55.3		1.0	31	31	Tan
CZ 4241GTLL	65.5			1.0	38	30	Brown Gold
LS4565XS	65.4	64.2		1.0	40	35	Brown Gold
LS4583X	65.2	61.7		1.0	33	35	Tan
DYNA-GRO S45ES10	65.2			1.0	38	33	Brown
LS4299XS	65.2	69.9		1.3	33	30	Brown
LG SEEDS LGS4464RX	64.8			1.3	32	35	Brown
PROGENY 4444 RXS	64.4	66.3	68.9	1.7	33	35	Brown
HS 43E00	64.0			1.0	39	33	Brown
CAVERNDALE CF 453 E3	63.5			1.3	30	35	Grey
ARMOR 42-E11	63.4			1.0	33	30	Brown Gold
GO SOY 41C19	63.2			1.0	38	30	Tan
HS 45E00	63.0			1.0	28	36	Tan
ARMOR 44-D19	62.9			1.0	32	30	Brown
PROGENY 4265 RXS	62.9	62.1		1.3	34	35	Brown Gold
USG 7447XTS	62.1			1.7	36	35	Brown Gold
PIONEER P44A72BX	62.0	66.9	66.1	1.3	35	35	Grey
SEED CONSULTANTS SC 7421™	61.9			1.0	36	27	Brown Tan
ASGROW AG43X0	61.5	58.3		1.0	31	35	Tan
43N04E	61.5			1.0	33	30	Brown Gold
B400EE	61.2			1.0	38	35	Gold
41N03E	60.9			1.0	34	30	Brown Tan
STEWART 4527R2X	60.6	65.4	69.5	1.0	32	35	Brown Gold
DM 40X61	60.5			1.0	32	35	Grey
AGRIGOLD G4255RX	60.3			1.0	32	35	Brown
PIONEER P42A96X	60.3	55.3	62.7	1.0	32	30	Brown Gold
CHANNEL 4218R2X/SR	59.8	64.7	66.5	1.0	36	35	Brown
ARMOR 44-E44	59.7			1.0	36	40	Gold
HS 41X70	58.9			1.3	35	30	Tan
V 4520 S	58.9			1.0	38	30	Brown
B420EE	58.8			1.3	31	30	Gold
STEWART 4029R2X	58.6	56.2		1.0	31	28	Brown Gold
LS4407X	58.6	61.9		1.0	30	40	Tan
STEWART 4228R2X	58.3	54.0	55.8	1.0	37	32	Brown Gold
CHANNEL 4519R2X/SR	58.2	66.4		1.0	31	35	Brown Gold
V 4220 S	56.9			1.0	34	30	Brown
CZ 4240GTLL	56.6			1.0	31	30	Brown
AGRIGOLD G4190RX	55.9			1.0	34	30	Tan
DYNA-GRO S41XS98	55.6	49.2	55.4	1.0	32	30	Tan
ASGROW AG42X9	54.5	60.8	64.3	1.3	41	30	Brown
UNIVERSITY OF MISSOURI S15-5904RY	50.8			1.7	36	35	Brown Gold
TAYLOR SEED T4400XS	48.7			1.0	36	32	Brown
GROUP IV EARLY AVERAGE	62.9	60.8	63.7	1.1	34 in.	Oct. 2nd	
LSD (0.10)	5.9	3.5	2.6				
C.V.	8.9	7.7	6.8				
MATURITY GROUP IV LATE (relative MG 4.6-4.9)							
STEWART 4907R2X	69.9			1.0	42	39	Tan
PROGENY 4908 E3S	68.9			1.0	39	42	Grey
PROGENY 4816 RX	66.6	56.0	58.8	1.0	35	40	Tan
UNIVERSITY OF MISSOURI S15-3847R	66.5			1.7	41	40	Brown
HS 49X60	66.3	58.2	58.8	1.0	32	40	Tan
GO SOY 481E19	65.9			1.3	37	38	Tan
BLUE RIVER e4993	65.8	67.5		1.3	37	38	Brown
USG 7470XT	65.8	70.6		1.7	37	38	Grey
MISSION A4618X	65.6			1.0	36	39	Grey
USG 7496XTS	65.1	62.8	61.2	1.3	39	38	Brown
LS4999X	65.0	60.7		1.0	34	38	Brown
USG 7461XTS	64.8			1.0	35	40	Tan Gold
PROGENY 4700 RXS	64.4			1.3	33	42	Brown
PIONEER P48A60X	64.3	69.7	67.3	1.0	33	40	Tan
ARMOR 48-E81	64.3			1.3	36	38	Gold

DYNA-GRO S46XT80	64.2	62.4		1.3	33	40	Gold
TAYLOR SEED T4990XS XTEND	64.2			1.0	35	38	Gold Tan
46N02E	64.1			1.0	27	38	Gold
B470EE	64.1			1.0	29	42	Tan
PROGENY 4807 E3S	63.9			1.0	31	42	Grey
ARMOR 47-E02	63.8			1.0	36	40	Tan
DYNA-GRO S46ES91	63.8			1.0	34	39	Grey
USG 7489XT	63.6			1.0	31	39	Gold
LG SEEDS LGS4632RX	63.2			1.0	34	40	Brown
AGRIGOLD G4620RX	63.1			1.0	37	40	Tan
DYNA-GRO S48XT90	63.0			1.0	37	40	Tan
BLUE RIVER 49CK9	62.9			1.3	34	38	Brown
PROGENY 4902 E3	62.7			1.0	31	38	Grey
DM 49X13	62.6			1.0	36	40	Tan Gold
PROGENY 4775 E3S	62.2			1.0	35	38	Grey
TAYLOR SEED T4641ES	62.0			1.3	34	40	Gold
ARMOR 49-D14	61.8			1.3	34	40	Tan Gold
HS 48E00	61.7			1.0	30	38	Grey
ASGROW AG48X7	61.3			1.3	35	42	Tan
PIONEER P46A86X	61.3			1.0	40	38	Brown Grey
PROGENY 4821 RX	61.2	58.8		1.3	34	42	Brown
PROGENY 4851 RX	61.2			1.7	35	40	Tan
CAVERNDALe CF 473 E3 STSn	60.8			1.3	38	40	Grey
DYNA-GRO S48XT56	60.3	66.9	65.5	1.0	34	38	Gold
ARMOR 46-D09	60.0	57.3		1.0	36	40	Tan
MISSION A4828X	59.7			1.7	43	40	Grey
UNIVERSITY OF MISSOURI S16-7875C	59.7			2.3	40	42	Gold
LSX4612XS	59.4			1.0	36	38	Gold
ASGROW AG47X9	58.9	57.9	63.2	1.0	32	40	Brown
GO SOY 463E20S	58.4			1.0	36	40	Grey
HS 46X90	58.3	61.7		1.3	33	38	Grey
UNIVERSITY OF MISSOURI S16-14730C	58.0			1.0	35	39	Tan
PROGENY 4970 RX	57.9			1.3	34	42	Tan Gold
ARMOR 46-E50	57.9			1.0	33	39	Gold
STINE 46EB22	57.6			1.0	35	40	Tan
UNIVERSITY OF MISSOURI S16-7922C	56.8			3.0	51	42	Gold
B460EE	56.7			1.0	32	42	Grey
GO SOY 48C17S	56.7	50.2		2.3	44	40	Gold
AGS GS47X19	56.7			1.0	35	40	Tan Gold
UNIVERSITY OF MISSOURI S16-11644C	56.1			2.7	40	50	Gold
CZ 4810X	56.1			1.3	35	38	Grey
LSX4711GL	56.0			1.0	36	40	Grey
UNIVERSITY OF MISSOURI S16-14379C	55.7			1.0	35	42	Gold
CAVERNDALe CF 461 LL/GT27/STSn	55.6			1.0	32	40	Brown
PROGENY 4602 LR	55.6			1.0	28	38	Tan
UNIVERSITY OF MISSOURI S16-5540R	55.5			2.3	46	42	Gold
ARMOR 48-D25	55.4	62.0		1.0	31	42	Tan
UNIVERSITY OF MISSOURI S15-3772RY	55.2			1.3	41	38	Tan
LSX4812XS	55.1			1.0	32	40	Gold
TAYLOR SEED T4880X XTEND	55.0			1.0	28	40	Tan
MISSION A4950X	55.0			1.3	41	39	Gold Tan
PROGENY 4620 RXS	55.0	59.4	58.9	1.0	35	40	Gold
V 4921 S	54.8			1.0	32	42	Tan
LG SEEDS LGS4899RX	54.8	61.3		1.0	33	38	Tan Gold
PROGENY 4682 E3	54.6			1.0	33	40	Grey
DM 48E73	54.2			1.0	29	38	Tan
CZ 4770X	53.9			1.0	33	42	Gold
CZ 4730X	52.9			1.3	28	39	Gold
STINE 48EB02	52.4			1.0	30	37	Gold
LS4795XS	51.8	50.0		1.0	31	38	Gold
DYNA-GRO S46XS60	50.2	57.4		1.0	41	38	Brown
DYNA-GRO S4751STS	50.2			1.0	30	40	Tan
ASGROW AG48X9	48.8	55.5	59.5	1.0	34	39	Tan
ASGROW AG46X0	47.1	48.2		1.3	36	40	Gold
PENNYRILE (long term check-released 1987)	47.0	44.9	45.3	1.7	43	40	Gold
GROUP IV LATE AVERAGE	59.5	59.1	59.9	1.2	35 in.	Oct. 10th	
LSD (0.10)	3.6	2.3	1.7				
C.V.	5.7	5.3	4.8				

MATURITY GROUP V (relative MG 5.0-5.9)

PROGENY 5170 RX	70.6	72.0		1.3	37	42	Brown
ARMOR 50-D50	67.9			1.0	39	42	Gold Brown
ZS5098E3	66.7			1.0	43	40	Grey Brown
ARMOR 51-E53	66.4			1.0	44	42	Grey
PROGENY 5016 RXS	66.0	69.7	64.3	1.3	36	43	Gold Brown
UNIVERSITY OF MISSOURI S16-15170C	63.5			1.0	38	52	Brown
LS5087X	63.3	66.4		1.0	38	40	Tan
LS5386X	61.9			1.0	37	43	Brown
PROGENY 5211 E3	61.8			1.0	34	39	Grey
PROGENY 5252 RX	61.1	62.9	56.1	1.0	36	50	Brown
LS5009XS	58.3			1.0	36	40	Tan
UNIVERSITY OF MISSOURI S16-3747R	57.0			2.0	48	50	Brown
UNIVERSITY OF MISSOURI S16-11651C	56.3			2.7	45	50	Gold
UNIVERSITY OF MISSOURI S16-3739RY	56.0			2.0	51	46	Grey
ESSEX (long term check-released 1974)	54.1	55.6	48.8	1.3	37	42	Tan
UNIVERSITY OF MISSOURI S16-15809C	51.0			3.0	52	50	Gold
GROUP V AVERAGE	61.4	65.3	56.4	1.4	41 in.	Oct. 14th	
LSD (0.10)	3.6	2.4	1.8				
C.V.	5.5	5.1	4.8				

^A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

^B The 2018-2020 yield data were collected at the University of Kentucky Spindletop Research Farm in Fayette Co., KY.

Table 6. 2020 Kentucky Soybean Variety Performance Tests, Green River Region - 2020 Muhlenberg County and Hancock County

BRAND VARIETY	YIELD (BU/AC) ^{A/B}				LODGING
	2020 Hancock	2020 Muhlenberg	2019-2020	2018-2020	2020
MATURITY GROUP II (relative MG 2.0-2.9)					
ASGROW AG29X9	42.9	69.9	50.8		1.7
AGRIGOLD G2900RX	40.9	61.3	52.6	47.1	2.5
GROUP II AVERAGE	41.9	65.6	51.7	47.1	2.1
LSD (0.10)	2.7	7.1	2.1		
C.V.	2.7	4.5	4.6		
MATURITY GROUP III (relative MG 3.0-3.9)					
39N04E	62.9	66.9			1.2
ASGROW AG37X9	62.0	72.3	66.7	61.4	3.0
ARMOR 39-D30	59.7	72.3			4.3
STEWART 3830R2X	59.0	71.6	66.2		1.8
STEWART 3628R2X	57.8	69.1	64.4		2.5
B390EE	57.6	68.8			1.8
LS3976X	57.6	66.3	64.5		2.8
ASGROW AG39X0	55.5	69.4	63.6		2.0
ASGROW AG39X7	54.5	65.4	64.1	59.5	1.5
AGRIGOLD G3620RX	54.2	64.3	57.8		2.0
DYNA-GRO S39EN19	54.1	67.1	62.8		1.5
SEED CONSULTANTS SC 7381E™	54.0	67.4			1.0
ASGROW AG36X6	53.4	63.7			2.2
PIONEER P36A83X	53.2	79.3			2.0
DYNA-GRO S38XS21	52.1	65.0			2.2
ASGROW AG33X0	51.2	63.6			1.3
36N03E	51.1	63.9			1.7
AGRIGOLD G3722RX	51.1	70.6	67.0	57.8	3.3
LG SEEDS LGS3600RX	50.9	67.8			2.2
ZS3898E3S	50.8	66.9			2.3
PIONEER P39A58X	50.8	66.3			1.7
ASGROW AG38X8	50.7	60.6	56.9	54.4	1.7
AGRIGOLD G3850RX	50.2	71.6	61.8		2.7
SEED CONSULTANTS SC 8399X™	49.6	60.7	61.2	56.3	2.8
LSX3911GL	49.0	71.1			3.3
PIONEER P33A53X	48.5	61.9	57.8		1.0
LG SEEDS LGS3840RX	47.5	73.5			1.8
CHANNEL 3821R2X/SR	47.4	65.3			2.8
STINE 39EA02	46.6	68.1	58.4		1.5
SEED CONSULTANTS SC 3399L™	46.5	67.7	60.4		2.8
LG SEEDS LGS3733RX	46.4	65.3			2.5
PIONEER P31A22X	45.8	63.2	57.9		3.0
SEED CONSULTANTS SCS 9393RR™	45.6	57.7	56.1	52.9	1.2
DYNA-GRO S3961STS	45.1	71.4			1.0
GO SOY 38E21S	44.8	67.8			1.7
B389EE	41.8	68.5			1.0
39N05E	41.7	71.1			1.7
CAVERNDALE CF 383 E3 STSn	38.0	67.1			1.0
GROUP III AVERAGE	51.0	67.4	61.6	57.1	2.1
LSD (0.10)	4.1	4.9	2.5	2.0	
C.V.	6.0	5.4	5.4	5.1	
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)					
PROGENY 4241 E3	76.0	57.9			1.0
SEED CONSULTANTS SC 7421™	74.5	62.4			2.2
DYNA-GRO S45ES10	73.5	70.2			2.2
45N04E	72.7	64.9			2.2
ASGROW AG43X0	72.2	64.8	64.0		1.7
ARMOR 44-D19	71.4	63.6			2.2
STEWART 4527R2X	70.7	68.9	67.5	64.2	1.8
43N04E	70.5	68.3			2.0
LS4407X	70.0	53.8	60.9		2.7
LG SEEDS LGS4464RX	69.9	71.2			2.0
PROGENY 4444 RXS	69.4	67.7	64.5	59.7	3.5
CHANNEL 4519R2X/SR	69.2	68.9	68.0		2.2
PIONEER P44A72BX	68.6	64.0	64.1	60.6	2.0

AGRIGOLD G4318RX	68.4	70.7			2.2
MISSION A4448X	68.4	58.0			1.7
USG 7447XTS	66.5	58.9			1.8
LS4299XS	66.1	55.1	59.3		2.0
ARMOR 44-E44	66.1	72.7			1.8
41N03E	65.9	58.1			1.8
B420EE	65.9	61.6			2.8
HS 45E00	65.3	70.9			2.0
TAYLOR SEED T4400XS	63.7	69.2			2.2
B400EE	63.7	56.9			1.0
CZ 4240GTLL	63.4	55.7			1.0
DYNA-GRO S41ES80	63.4	59.4			2.0
ARMOR 44-D49	63.1	73.6			3.3
V 4520 S	62.1	54.9			2.0
PROGENY 4505 RXS	61.9	67.2			2.8
DYNA-GRO S41XS98	61.8	67.7	61.2	56.1	2.2
HS 41X70	61.6	64.0			1.5
ARMOR 44-D92	61.6	67.7	63.1		2.0
AGRIGOLD G4255RX	61.6	68.6			2.3
CHANNEL 4218R2X/SR	61.4	65.7	62.2	59.7	2.5
B430EE	60.8	59.9			3.2
DM 45X61	60.2	75.0			3.0
STEWART 4228R2X	60.2	70.4	64.9	63.1	2.3
AGRIGOLD G4190RX	60.1	61.8			1.8
DYNA-GRO S43XS70	60.0	65.9	59.4		2.0
DYNA-GRO S43EN61	59.7	63.3			2.2
V 4220 S	59.3	66.4			2.5
LS4583X	58.4	64.4	63.2		1.5
STEWART 4029R2X	58.3	59.5	64.8		2.0
AGS GS42X19S	57.9	58.3	57.2		1.2
DM 40X61	57.6	66.0			2.7
ASGROW AG42X9	57.1	54.5	59.8	56.8	2.7
PROGENY 4265 RXS	57.0	66.1	62.7		2.5
CAVERNDAL CF 453 E3	56.6	63.3			3.2
CZ 4241GTLL	56.3	71.5			1.7
ARMOR 42-E11	56.0	56.7			2.7
PIONEER P42A96X	55.1	62.2	60.2	59.0	1.7
LS4565XS	54.9	60.3	60.7		2.7
BLUE RIVER 41DC8	54.5	57.5			1.0
HS 43E00	54.3	66.6			3.2
CAVERNDAL CF 423 E3 STSn	54.2	67.2			2.0
STINE 40EB22	53.2	67.9			2.3
GO SOY 41C19	53.1	60.1			3.2
STINE 41EB32	52.8	69.7			2.2
B450EE	52.6	58.3			1.5
GO SOY 433E21	51.5	70.9			3.8
UNIVERSITY OF MISSOURI S15-5904RY	51.4	52.1			2.8
GROUP IV EARLY AVERAGE	62.1	64.0	62.5	59.9	2.2
LSD (0.10)	5.5	4.7	2.8	2.4	
C.V.	6.5	5.4	5.6	5.8	

MATURITY GROUP IV LATE (relative MG 4.6-4.9)

DYNA-GRO S48XT56	65.0	66.4	66.6	64.8	2.2
TAYLOR SEED T4990XS XTEND	64.2	63.4			2.0
USG 7496XTS	63.6	59.7	62.5	60.0	2.0
ASGROW AG48X9	62.8	64.1	62.1	62.0	1.5
PIONEER P46A86X	62.1	63.8			2.2
DYNA-GRO S48XT90	61.9	68.9			4.0
CZ 4730X	61.8	61.7			1.7
USG 7461XTS	61.2	68.0			3.3
DYNA-GRO S4751STS	60.8	62.4			1.8
LSX4612XS	60.7	62.8			3.0
CZ 4770X	60.6	63.3			3.2
ASGROW AG46X0	59.6	66.6	59.5		1.5
UNIVERSITY OF MISSOURI S16-7922C	59.5	63.1			4.8
LS4795XS	59.5	65.3	59.8		1.7
HS 49X60	59.3	65.5	61.2	56.9	1.8
ASGROW AG48X7	59.0	66.8			2.3
LG SEEDS LGS4899RX	58.9	67.5	62.2		1.8

DM 49X13	58.6	60.4			3.0
ARMOR 46-E50	58.2	65.0			1.5
ARMOR 48-D25	58.2	66.4	62.7		1.8
PROGENY 4816 RX	58.0	66.0	57.6	59.0	1.5
TAYLOR SEED T4641ES	57.9	71.5			2.5
USG 7489XT	57.7	65.1			1.5
PROGENY 4700 RXS	57.6	61.8			3.5
AGS GS47X19	57.5	58.9			3.0
TAYLOR SEED T4880X XTEND	57.5	56.6			1.3
ARMOR 46-D09	57.4	62.1	59.4		2.2
PROGENY 4682 E3	57.4	61.8			2.3
CZ 4810X	57.4	65.6			3.0
B470EE	57.1	62.6			2.7
ASGROW AG47X9	57.0	65.3	64.7	62.3	1.5
CAVERNDAL CF 461 LL/GT27/STSn	56.9	62.4			2.8
DYNA-GRO S46XS60	56.6	63.4	58.6		1.8
GO SOY 48C17S	56.3	57.0	58.5		3.5
AGRIGOLD G4620RX	56.2	69.8			2.5
LSX4812XS	56.2	66.2			1.8
V 4921 S	56.2	67.4			2.7
PIONEER P48A60X	56.1	66.1	63.8	62.2	2.7
46N02E	56.0	63.9			1.7
UNIVERSITY OF MISSOURI S16-14379C	55.8	56.0			2.0
LG SEEDS LGS4632RX	55.6	66.7			3.8
LSX4711GL	55.3	57.9			2.0
DM 48E73	54.5	64.5			2.0
UNIVERSITY OF MISSOURI S16-5540R	54.5	59.1			4.8
BLUE RIVER 49CK9	54.3	59.8			1.8
UNIVERSITY OF MISSOURI S15-3772RY	54.2	55.9			2.2
BLUE RIVER e4993	54.2	58.8	57.4		2.8
MISSION A4618X	54.0	66.0			3.0
PROGENY 4775 E3S	53.8	69.6			1.5
LS4999X	53.4	63.2	62.1		2.3
PROGENY 4851 RX	53.3	64.2			4.5
PROGENY 4620 RXS	53.3	62.8	60.5	61.6	3.0
HS 46X90	52.7	68.7	61.6		1.8
PROGENY 4970 RX	52.3	60.2			2.7
USG 7470XT	51.6	64.3	58.8		2.8
DYNA-GRO S46XT80	51.6	62.1	56.1		2.5
UNIVERSITY OF MISSOURI S16-7875C	51.4	61.5			5.0
DYNA-GRO S46ES91	51.1	61.9			1.8
UNIVERSITY OF MISSOURI S16-14730C	51.0	60.5			2.2
PROGENY 4902 E3	51.0	66.9			3.3
MISSION A4950X	50.9	62.0			3.5
ARMOR 47-E02	50.8	61.1			2.3
ARMOR 49-D14	50.1	65.1			3.3
MISSION A4828X	50.1	63.3			3.2
PROGENY 4821 RX	49.8	66.9	59.9		2.5
STEWART 4907R2X	48.8	66.7			2.5
HS 48E00	48.6	65.3			3.2
GO SOY 463E20S	48.6	58.8			2.7
CAVERNDAL CF 473 E3 STSn	48.1	57.8			1.8
UNIVERSITY OF MISSOURI S16-11644C	47.9	66.1			5.0
PROGENY 4602 LR	47.7	63.5			1.5
ARMOR 48-E81	46.9	56.0			4.2
B460EE	46.3	63.4			3.3
STINE 48EB02	44.9	59.7			2.2
PROGENY 4807 E3S	44.5	64.2			4.2
PROGENY 4908 E3S	43.9	49.1			2.0
UNIVERSITY OF MISSOURI S15-3847R	43.7	54.5			3.8
STINE 46EB22	42.1	62.2			1.7
GO SOY 481E19	41.7	61.3			1.7
PENNYRILE (long term check-released 1987)	40.3	49.3	44.5	42.5	2.5
GROUP IV LATE AVERAGE	54.4	62.9	60.0	59.0	2.6
LSD (0.10)	4.7	4.7	2.6	2.3	
C.V.	6.4	5.5	5.8	5.8	
MATURITY GROUP V (relative MG 5.0-5.9)					
ARMOR 50-D50	53.9	72.7			3.3

ARMOR 51-E53	47.0	68.0			2.8
ESSEX (long term check-released 1974)	50.0	53.8	47.5	46.3	3.2
LS5009XS	52.8	61.6			2.7
LS5087X	46.1	68.8	55.7		3.7
LS5386X	51.0	66.3			2.2
PROGENY 5016 RXS	59.5	65.3	60.3	61.7	1.7
PROGENY 5170 RX	49.9	60.8	57.2		3.0
PROGENY 5211 E3	49.0	71.1			3.0
PROGENY 5252 RX	40.8	58.9	51.0	51.9	1.8
UNIVERSITY OF MISSOURI S16-11651C	55.1	57.3			4.3
UNIVERSITY OF MISSOURI S16-15170C	55.8	66.7			1.5
UNIVERSITY OF MISSOURI S16-15809C	57.0	59.9			3.5
UNIVERSITY OF MISSOURI S16-3739RY	60.9	68.1			4.7
UNIVERSITY OF MISSOURI S16-3747R	57.5	56.5			4.5
ZS5098E3	44.3	54.9			2.7
GROUP V AVERAGE	51.9	63.2	54.3	53.3	3.0
LSD (0.10)	4.7	5.5	2.8	2.4	
C.V.	6.6	6.3	6.3	6.2	

^A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

^B The 2020 yield data were collected at the Muhlenberg Co., KY and Hancock Co., KY test sites, the 2019 data at the McLean Co., KY test site, and the 2018 data at the Henderson Co., KY test site.

Table 7. 2020 Kentucky Soybean Variety Performance Tests, Lake Cumberland Region - 2020 Cumberland County

BRAND VARIETY	YIELD (BU/AC) ^{A/B}			LODGING
	2020	2019-2020	2017-2020	2020
MATURITY GROUP II (relative MG 2.0-2.9)				
AGRIGOLD G2900RX	67.6	74.5		1.7
ASGROW AG29X9	67.4	69.1		1.0
GROUP II AVERAGE	67.5	71.8		1.3
LSD (0.10)	2.2	1.6		
C.V.	2.1	2.7		
MATURITY GROUP III (relative MG 3.0-3.9)				
STINE 39EA02	88.7	83.9		1.7
ASGROW AG38X8	86.4	81.8	68.8	2.0
SEED CONSULTANTS SC 3399L™	84.7	87.7		3.3
AGRIGOLD G3722RX	83.5	85.8		1.7
LS3976X	82.9	90.2		1.7
STEWART 3628R2X	82.8	80.9		1.7
ASGROW AG37X9	82.3	88.6		2.3
AGRIGOLD G3850RX	82.1	80.2		2.3
PIONEER P36A83X	81.4			1.3
ZS3898E3S	81.3			1.7
B390EE	81.3			1.3
DYNA-GRO S38XS21	80.1			1.3
ASGROW AG39X0	79.7	86.1		1.7
ASGROW AG39X7	79.2	78.7	69.6	1.3
LG SEEDS LGS3840RX	79.1			1.3
DYNA-GRO S3961STS	78.8			1.0
CHANNEL 3821R2X/SR	77.9			2.7
LSX3911GL	77.6			1.3
SEED CONSULTANTS SC 7381E™	77.5			1.3
SEED CONSULTANTS SCS 9393RR™	77.4	83.9	69.3	1.0
CAVERNDALE CF 383 E3 STSn	77.0			1.0
AGRIGOLD G3620RX	76.3	78.1		2.3
39N05E	76.0			1.7
ARMOR 39-D30	75.9			2.7
SEED CONSULTANTS SC 8399X™	75.8	75.4		2.7
ASGROW AG36X6	75.4			1.0
DYNA-GRO S39EN19	74.7	75.2		1.3
PIONEER P39A58X	74.5			1.7
LG SEEDS LGS3600RX	74.3			1.0
LG SEEDS LGS3733RX	73.8			2.0
B389EE	72.9			1.7
GO SOY 38E21S	72.8			1.3
ASGROW AG33X0	72.6			2.3
36N03E	72.3			1.0
39N04E	72.3			1.0
PIONEER P33A53X	71.0	71.6		1.7
STEWART 3830R2X	70.1	72.1		2.0
PIONEER P31A22X	66.8	72.3		3.0
GROUP III AVERAGE	77.6	80.7	69.2	1.7
LSD (0.10)	5.3	3.5	2.8	
C.V.	5.0	4.6	5.3	
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)				
DM 45X61	86.8			3.3
43N04E	86.5			2.0
USG 7447XTS	85.6			1.7
CZ 4240GTLL	84.6			1.0
AGRIGOLD G4255RX	83.7			2.0
PROGENY 4444 RXS	83.4	83.8	78.8	3.0
BLUE RIVER 41DC8	81.8			1.3
B430EE	81.5			2.7

DYNA-GRO S43XS70	81.2	85.7		1.7
ARMOR 44-D19	80.9			2.7
STINE 41EB32	80.6			2.0
HS 41X70	80.1			2.3
AGRIGOLD G4190RX	80.0			1.7
MISSION A4448X	79.7			2.7
GO SOY 433E21	79.1			4.3
ARMOR 44-D49	78.9			3.7
CHANNEL 4218R2X/SR	78.8	88.1		1.7
DYNA-GRO S41XS98	78.7	84.3	73.9	2.0
DYNA-GRO S43EN61	78.6			2.0
LG SEEDS LGS4464RX	77.8			2.3
PIONEER P44A72BX	77.8	81.3		3.0
ARMOR 44-E44	77.8			2.0
ARMOR 42-E11	77.7			2.7
PROGENY 4265 RXS	77.4	90.8		1.7
LS4299XS	77.4	82.2		2.0
PIONEER P42A96X	77.3	82.3		1.3
DYNA-GRO S45ES10	77.3			2.0
CZ 4241GTLL	77.3			1.7
HS 43E00	77.2			2.0
TAYLOR SEED T4400XS	76.8			2.0
45N04E	76.8			1.7
B450EE	76.8			1.7
CAVERNDALE CF 453 E3	76.6			2.0
CAVERNDALE CF 423 E3 STSn	76.3			2.0
V 4520 S	76.2			2.0
AGRIGOLD G4318RX	76.0			2.0
LS4565XS	75.9	83.5		3.0
GO SOY 41C19	75.8			2.7
B400EE	75.7			1.7
DM 40X61	75.4			2.0
HS 45E00	75.3			1.3
B420EE	75.2			2.3
STEWART 4228R2X	75.0	85.0	75.7	2.7
41N03E	74.9			1.7
STINE 40EB22	74.5			1.7
DYNA-GRO S41ES80	74.4			1.3
ASGROW AG42X9	74.1	84.5		3.0
V 4220 S	73.5			2.3
ASGROW AG43X0	73.1	85.0		2.7
PROGENY 4505 RXS	72.7			3.3
LS4583X	72.6	76.2		2.3
STEWART 4527R2X	72.0	82.5	72.3	2.3
STEWART 4029R2X	72.0	75.7		2.0
LS4407X	71.9	80.7		3.0
SEED CONSULTANTS SC 7421™	71.7			2.3
ARMOR 44-D92	71.4	82.1		2.0
PROGENY 4241 E3	71.2			1.7
AGS GS42X19S	68.7	78.9		1.7
CHANNEL 4519R2X/SR	68.6	83.0		2.0
UNIVERSITY OF MISSOURI S15-5904RY	62.4			3.0
GROUP IV EARLY AVERAGE	76.8	82.9	75.2	2.2
LSD (0.10)	4.5	3.3	2.7	
C.V.	4.3	4.3	5.1	
MATURITY GROUP IV LATE (relative MG 4.6-4.9)				
USG 7461XTS	82.2			3.3
B470EE	82.0			2.0
B460EE	81.7			3.0
MISSION A4618X	80.3			2.0
PROGENY 4807 E3S	80.0			3.3
DYNA-GRO S46XS60	79.2	91.5		1.7
ARMOR 48-D25	78.7	87.8		1.7

USG 7470XT	78.6	84.7		2.0
MISSION A4828X	78.4			3.0
ASGROW AG46X0	78.4	84.7		1.7
BLUE RIVER 49CK9	78.3			2.3
HS 48E00	77.3			3.0
PROGENY 4816 RX	77.2	92.1	84.4	1.3
USG 7489XT	76.8			1.3
PIONEER P46A86X	76.7			2.3
PROGENY 4602 LR	76.6			1.7
PROGENY 4851 RX	76.5			3.7
ARMOR 46-E50	76.4			1.7
CAVERNDALE CF 473 E3 STSn	76.3			1.7
LG SEEDS LGS4632RX	76.1			2.3
ASGROW AG47X9	76.0	78.3		1.7
PIONEER P48A60X	75.8	78.8		2.7
LG SEEDS LGS4899RX	75.6	85.6		1.7
ARMOR 49-D14	75.2			3.0
LSX4612XS	75.2			2.7
ARMOR 47-E02	75.2			1.7
HS 46X90	74.7	82.2		2.0
AGS GS47X19	74.4			1.7
PROGENY 4682 E3	74.4			2.3
PROGENY 4970 RX	74.4			2.7
46N02E	74.4			1.3
BLUE RIVER e4993	74.4	78.8		2.3
STEWART 4907R2X	74.3			2.0
DM 49X13	74.2			2.7
ASGROW AG48X7	74.2			1.3
MISSION A4950X	74.0			2.0
ASGROW AG48X9	73.9	81.4		1.0
V 4921 S	73.9			2.3
LSX4812XS	73.9			1.0
DM 48E73	73.8			1.0
STINE 48EB02	73.7			2.0
AGRIGOLD G4620RX	73.5			1.7
UNIVERSITY OF MISSOURI S16-14730C	73.3			2.3
USG 7496XTS	73.0	80.5	79.5	2.0
LS4999X	72.9	72.6		1.7
PROGENY 4902 E3	72.8			4.3
DYNA-GRO S4751STS	72.7			1.7
TAYLOR SEED T4880X XTEND	72.6			1.0
LSX4711GL	72.5			1.3
HS 49X60	72.4	83.9	84.7	1.7
PROGENY 4775 E3S	72.3			1.3
ARMOR 48-E81	72.0			2.3
LS4795XS	71.1	78.6		1.3
PROGENY 4620 RXS	71.1	77.6	77.7	4.3
CAVERNDALE CF 461 LL/GT27/STSn	70.8			3.0
ARMOR 46-D09	70.6	82.9		2.0
CZ 4730X	70.4			2.3
CZ 4810X	70.0			2.3
PROGENY 4821 RX	69.3	67.1		1.0
UNIVERSITY OF MISSOURI S15-3772RY	68.8			2.0
GO SOY 463E20S	68.7			2.0
DYNA-GRO S46XT80	68.5	76.5		2.0
GO SOY 48C17S	68.3	77.8		3.0
PROGENY 4700 RXS	68.0			3.3
GO SOY 481E19	67.9			1.3
DYNA-GRO S46ES91	67.0			2.0
PROGENY 4908 E3S	66.8			2.0
DYNA-GRO S48XT90	66.6			2.3
UNIVERSITY OF MISSOURI S16-14379C	66.3			2.3
CZ 4770X	65.9			2.0
TAYLOR SEED T4641ES	65.8			1.3
TAYLOR SEED T4990XS XTEND	65.5			2.7

STINE 46EB22	65.4			1.3
UNIVERSITY OF MISSOURI S16-11644C	64.6			3.7
UNIVERSITY OF MISSOURI S16-7875C	64.3			5.0
UNIVERSITY OF MISSOURI S16-7922C	64.1			5.0
UNIVERSITY OF MISSOURI S15-3847R	64.0			3.3
UNIVERSITY OF MISSOURI S16-5540R	64.0			5.0
DYNA-GRO S48XT56	62.6	71.2	75.2	1.3
PENNYRILE (long term check-released 1987)	56.6	64.1	61.7	1.7
GROUP IV LATE AVERAGE	72.6	79.9	77.2	2.2
LSD (0.10)	4.4	3.0	3.1	
C.V.	4.5	4.2	6.0	
MATURITY GROUP V (relative MG 5.0-5.9)				
ARMOR 51-E53	77.4			2.0
PROGENY 5170 RX	75.7	85.7		2.7
LS5009XS	75.5			2.0
ZS5098E3	75.3			2.3
LS5386X	72.8			1.0
PROGENY 5252 RX	71.4	71.4		2.3
UNIVERSITY OF MISSOURI S16-15170C	71.3			2.7
LS5087X	70.4	73.3		2.7
PROGENY 5211 E3	66.3			2.0
UNIVERSITY OF MISSOURI S16-15809C	65.2			4.7
UNIVERSITY OF MISSOURI S16-3739RY	64.9			4.7
PROGENY 5016 RXS	64.6	78.0	74.5	2.0
UNIVERSITY OF MISSOURI S16-11651C	63.6			4.7
ESSEX (long term check-released 1974)	60.6	73.9	67.1	2.7
ARMOR 50-D50	60.6			1.3
UNIVERSITY OF MISSOURI S16-3747R	56.5			4.0
GROUP V AVERAGE	68.3	76.4	70.8	2.7
LSD (0.10)	5.5	3.1	2.5	
C.V.	5.8	4.5	5.3	

^A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

^B The 2019-2020 yield data were collected at test sites in Cumberland Co., KY. No data were collected in the Lake Cumberland Region in 2018. The 2017 data were collected at test sites in Cumberland Co. and Pulaski Co., KY.

Table 8. 2020 Kentucky Soybean Variety Performance Tests, Lincoln Trail Region - 2020 Meade County

BRAND VARIETY	YIELD (BU/AC) ^{A/B}			LODGING
	2020	2019-2020	2018-2020	2020
MATURITY GROUP II (relative MG 2.0-2.9)				
ASGROW AG29X9	76.9	59.8		2.0
AGRIGOLD G2900RX	69.9	58.6	53.1	2.0
GROUP II AVERAGE	73.4	59.2		2.0
LSD (0.10)	10.1	3.8		
C.V.	5.8	5.8		
MATURITY GROUP III (relative MG 3.0-3.9)				
STEWART 3628R2X	82.3	68.3		3.0
39N04E	80.6			1.3
STINE 39EA02	80.1	65.4		1.3
LG SEEDS LGS3733RX	79.2			2.7
B390EE	79.1			1.0
SEED CONSULTANTS SC 7381E™	77.8			1.7
PIONEER P39A58X	77.6			2.0
LSX3911GL	77.5			2.0
36N03E	77.2			1.0
GO SOY 38E21S	77.1			1.3
CAVERNDALE CF 383 E3 STSn	77.1			1.0
AGRIGOLD G3850RX	77.1	67.2		2.3
ARMOR 39-D30	76.7			4.7
ASGROW AG36X6	76.6			1.7
LS3976X	76.4	68.8		2.7
LG SEEDS LGS3840RX	76.1			2.0
STEWART 3830R2X	75.8	65.8		1.3
PIONEER P33A53X	75.4	64.2		1.3
ASGROW AG38X8	75.1	61.6	56.7	1.3
AGRIGOLD G3722RX	74.3	63.8	64.0	3.7
PIONEER P31A22X	74.3	60.2		5.0
DYNA-GRO S3961STS	73.6			2.0
SEED CONSULTANTS SC 8399X™	73.3	61.4	59.7	2.0
ASGROW AG39X0	73.2	65.1		3.0
ASGROW AG37X9	73.0	60.8	55.9	2.0
39N05E	72.9			1.7
ZS3898E3S	72.5			1.7
DYNA-GRO S38XS21	72.3			3.0
DYNA-GRO S39EN19	72.2	61.9		1.3
B389EE	72.1			1.7
PIONEER P36A83X	71.9			1.3
SEED CONSULTANTS SC 3399L™	71.8	62.0		2.3
SEED CONSULTANTS SCS 9393RR™	70.2	60.8	58.7	1.0
ASGROW AG33X0	69.7			2.7
ASGROW AG39X7	69.3	63.8	60.4	1.7
LG SEEDS LGS3600RX	68.1			1.3
AGRIGOLD G3620RX	68.1	60.7		1.3
CHANNEL 3821R2X/SR	61.7			2.7
GROUP III AVERAGE	74.5	63.6	59.3	2.0
LSD (0.10)	4.4	2.8	2.3	
C.V.	4.3	4.2	4.4	
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)				
CHANNEL 4218R2X/SR	78.8	63.7	57.3	3.0
43N04E	78.1			1.7
B400EE	76.6			1.0
USG 7447XTS	76.0			2.3
V 4220 S	75.8			2.3
CZ 4240GTLL	75.3			1.0
V 4520 S	75.0			2.3
DM 40X61	74.7			3.7

ARMOR 44-E44	74.3			2.3
DYNA-GRO S41ES80	74.1			2.7
AGRIGOLD G4190RX	73.9			2.3
STEWART 4228R2X	73.8	62.1	62.5	2.7
PIONEER P42A96X	73.5	63.9	65.4	2.0
AGRIGOLD G4255RX	73.3			2.3
HS 41X70	73.2			3.0
STINE 41EB32	73.1			2.0
LG SEEDS LGS4464RX	72.9			3.0
ASGROW AG43X0	71.2	63.4		2.7
LS4299XS	70.9	63.1		2.7
ARMOR 44-D19	70.3			3.7
ARMOR 44-D92	69.9	62.9		3.0
AGRIGOLD G4318RX	69.8			3.0
ARMOR 44-D49	69.5			4.3
TAYLOR SEED T4400XS	69.4			3.3
DM 45X61	69.4			4.0
DYNA-GRO S43XS70	69.3	60.8		3.3
GO SOY 433E21	69.3			4.3
CHANNEL 4519R2X/SR	69.1	62.8		2.0
DYNA-GRO S41XS98	68.6	60.4	64.5	2.0
PROGENY 4265 RXS	68.2	61.5		2.7
STEWART 4527R2X	67.9	62.3	62.2	4.0
LS4407X	67.5	59.3		3.0
DYNA-GRO S45ES10	67.3			2.0
CAVERNDALE CF 453 E3	67.2			2.0
PROGENY 4444 RXS	67.2	58.7	61.1	3.7
SEED CONSULTANTS SC 7421™	67.1			3.3
B430EE	67.0			2.7
CAVERNDALE CF 423 E3 STSn	67.0			1.7
AGS GS42X19S	66.7	56.9		2.7
PROGENY 4241 E3	66.2			2.7
41N03E	66.1			1.7
LS4565XS	66.1	57.8		4.0
STEWART 4029R2X	65.2	55.6		2.3
B420EE	64.8			3.3
ARMOR 42-E11	64.8			3.3
B450EE	63.5			2.7
GO SOY 41C19	63.5			3.3
HS 43E00	63.2			3.0
CZ 4241GTLL	63.1			2.0
STINE 40EB22	62.9			4.0
LS4583X	62.8	56.5		2.0
PROGENY 4505 RXS	62.3			3.3
PIONEER P44A72BX	62.2	56.2	59.6	2.0
45N04E	61.8			1.7
DYNA-GRO S43EN61	61.3			3.3
MISSION A4448X	60.7			3.7
ASGROW AG42X9	57.7	53.0	53.6	3.0
HS 45E00	57.3			2.0
BLUE RIVER 41DC8	57.0			1.7
UNIVERSITY OF MISSOURI S15-5904RY	53.9			3.0
GROUP IV EARLY AVERAGE	68.1	60.0	60.8	2.7
LSD (0.10)	7.4	4.1	3.1	
C.V.	8.0	6.6	6.2	
MATURITY GROUP IV LATE (relative MG 4.6-4.9)				
STEWART 4907R2X	81.4			2.3
LG SEEDS LGS4899RX	79.8	68.0		2.0
LS4795XS	79.0	66.0		1.7
AGRIGOLD G4620RX	78.4			1.7
CZ 4770X	78.1			2.0
MISSION A4950X	77.0			2.7
HS 49X60	77.0	66.5	66.5	1.7

TAYLOR SEED T4990XS XTEND	76.6			2.7
ARMOR 48-D25	76.4	63.2		1.3
B460EE	76.2			2.0
ASGROW AG46X0	76.0	63.9		2.0
USG 7489XT	75.9			1.0
B470EE	75.8			3.3
PIONEER P48A60X	75.6	62.8	62.6	3.7
LSX4612XS	75.3			2.7
LSX4812XS	74.7			1.7
HS 46X90	74.6	61.7		1.3
PIONEER P46A86X	74.6			2.7
BLUE RIVER 49CK9	74.1			2.0
V 4921 S	73.7			1.7
DYNA-GRO S46XS60	73.7	61.5		1.3
LS4999X	73.5	62.1		2.3
CZ 4810X	73.3			2.3
PROGENY 4816 RX	73.0	62.2	63.6	1.7
ASGROW AG48X7	72.9			2.0
46N02E	72.5			1.7
ARMOR 46-D09	72.0	62.6		2.0
BLUE RIVER e4993	72.0	61.5		2.7
GO SOY 481E19	72.0			2.0
PROGENY 4821 RX	72.0	62.8		2.0
HS 48E00	71.5			2.7
MISSION A4618X	71.3			2.7
ARMOR 46-E50	70.8			1.7
PROGENY 4775 E3S	70.7			2.7
AGS GS47X19	70.6			2.0
TAYLOR SEED T4880X XTEND	70.6			1.3
USG 7461XTS	70.6			2.3
PROGENY 4700 RXS	70.3			2.0
DYNA-GRO S48XT56	70.2	61.3	60.8	1.7
CZ 4730X	69.8			3.0
MISSION A4828X	69.6			4.0
UNIVERSITY OF MISSOURI S16-14730C	69.6			3.0
UNIVERSITY OF MISSOURI S15-3772RY	69.6			2.3
LG SEEDS LGS4632RX	69.2			2.3
STINE 48EB02	69.2			2.3
DYNA-GRO S4751STS	68.8			2.7
ARMOR 49-D14	68.7			3.0
PROGENY 4807 E3S	68.6			4.0
DYNA-GRO S46XT80	68.5	60.5		2.0
ARMOR 47-E02	68.2			2.7
PROGENY 4970 RX	68.0			2.3
USG 7470XT	68.0	59.9		4.0
STINE 46EB22	67.9			2.3
DYNA-GRO S48XT90	67.9			2.7
PROGENY 4902 E3	67.8			2.7
CAVERNDALE CF 461 LL/GT27/STSn	67.0			2.0
PROGENY 4602 LR	67.0			2.3
LSX4711GL	66.6			2.0
DYNA-GRO S46ES91	66.5			2.7
USG 7496XTS	66.2	56.6	56.8	3.0
ASGROW AG48X9	66.2	57.5	58.8	1.3
ASGROW AG47X9	65.8	62.4	65.9	2.3
PROGENY 4620 RXS	65.6	61.4	60.5	5.0
ARMOR 48-E81	65.6			4.7
TAYLOR SEED T4641ES	65.3			1.7
GO SOY 463E20S	64.3			3.0
PROGENY 4682 E3	64.2			1.7
DM 48E73	63.7			1.3
UNIVERSITY OF MISSOURI S16-14379C	61.1			3.0
CAVERNDALE CF 473 E3 STSn	61.1			2.3
UNIVERSITY OF MISSOURI S16-7922C	60.2			5.0
PROGENY 4908 E3S	59.7			2.0

UNIVERSITY OF MISSOURI S16-7875C	59.5			5.0
PROGENY 4851 RX	57.8			4.3
PENNYRILE (long term check-released 1987)	57.7	48.5	47.2	3.0
DM 49X13	57.6			3.0
UNIVERSITY OF MISSOURI S16-5540R	57.0			5.0
GO SOY 48C17S	56.3	49.6		5.0
UNIVERSITY OF MISSOURI S15-3847R	55.3			4.7
UNIVERSITY OF MISSOURI S16-11644C	52.9			5.0
GROUP IV LATE AVERAGE	69.3	61.0	60.3	2.6
LSD (0.10)	5.0	3.0	2.5	
C.V.	5.3	4.9	4.9	
MATURITY GROUP V (relative MG 5.0-5.9)				
ARMOR 50-D50	76.7			3.7
PROGENY 5211 E3	71.0			2.7
PROGENY 5170 RX	69.9	71.8		3.7
ARMOR 51-E53	67.0			3.7
PROGENY 5016 RXS	66.1	75.2	67.9	4.3
LS5087X	65.7	77.6		3.3
LS5386X	64.0			2.3
LS5009XS	62.8			4.7
PROGENY 5252 RX	60.5	73.0	62.4	2.7
UNIVERSITY OF MISSOURI S16-11651C	59.2			5.0
UNIVERSITY OF MISSOURI S16-15170C	58.9			2.7
ESSEX (long term check-released 1974)	56.6	65.3	55.7	5.0
UNIVERSITY OF MISSOURI S16-3739RY	55.6			5.0
UNIVERSITY OF MISSOURI S16-15809C	55.5			5.0
ZS5098E3	54.2			3.0
UNIVERSITY OF MISSOURI S16-3747R	53.5			5.0
GROUP V AVERAGE	62.3	72.6	62.0	3.9
LSD (0.10)	4.8	7.9	5.4	
C.V.	5.5	12.0	10.6	

^A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

^B The 2018-2020 yield data were collected at test sites in Meade County, KY.

Table 9. 2020 Kentucky Soybean Variety Performance Tests, Mammoth Cave Region - 2020 Allen County

BRAND VARIETY	YIELD (BU/AC) ^{A/B}			LODGING 2020
	2020	2019-2020	2018-2020	
MATURITY GROUP II (relative MG 2.0-2.9)				
ASGROW AG29X9	61.1		NA	1.0
AGRIGOLD G2900RX	60.9			2.3
GROUP II AVERAGE	61.0			1.7
LSD (0.10)	3.5			
C.V.	3.7			
MATURITY GROUP III (relative MG 3.0-3.9)				
STINE 39EA02	82.0	71.4		2.0
LSX3911GL	80.5			3.0
DYNA-GRO S38XS21	79.9			2.0
AGRIGOLD G3620RX	78.4	76.0		2.7
DYNA-GRO S39EN19	78.2	72.1		2.3
PIONEER P36A83X	76.9			2.3
LG SEEDS LGS3600RX	76.0			2.7
ASGROW AG37X9	75.7	62.0	63.4	2.7
ASGROW AG38X8	75.5	67.7	67.5	2.3
STEWART 3830R2X	75.3	70.0		2.0
39N04E	74.8			1.0
LS3976X	74.6	66.2		3.7
LG SEEDS LGS3733RX	74.4			3.3
AGRIGOLD G3850RX	73.9	64.2		2.7
ASGROW AG39X7	73.4	65.4	64.5	2.0
SEED CONSULTANTS SC 7381E™	72.9			1.0
PIONEER P31A22X	72.8	62.2		5.0
ASGROW AG39X0	72.5	70.4		3.7
ASGROW AG33X0	72.2			3.0
STEWART 3628R2X	72.2	63.3		2.0
ARMOR 39-D30	72.0			3.3
DYNA-GRO S3961STS	71.8			1.3
SEED CONSULTANTS SCS 9393RR™	70.8	72.4	67.4	2.7
ZS3898E3S	70.7			2.0
ASGROW AG36X6	70.3			2.3
SEED CONSULTANTS SC 3399L™	70.3	69.6		3.7
AGRIGOLD G3722RX	69.2	64.6	63.1	3.7
PIONEER P39A58X	68.1			2.0
PIONEER P33A53X	67.5	66.6		1.7
CAVERNDAL CF 383 E3 STSn	67.5			1.0
39N05E	66.7			1.7
36N03E	66.3			1.0
CHANNEL 3821R2X/SR	66.2			3.3
B390EE	65.6			1.0
B389EE	65.3			3.0
GO SOY 38E21S	63.2			1.3
LG SEEDS LGS3840RX	62.8			2.3
SEED CONSULTANTS SC 8399X™	60.8	62.7	65.4	3.7
GROUP III AVERAGE	71.8	67.4	65.2	2.4
LSD (0.10)	3.6	2.9	2.3	
C.V.	3.7	4.4	4.3	
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)				
DM 45X61	83.5			2.0
DYNA-GRO S41XS98	79.3	77.7	71.7	1.3
ARMOR 44-D92	77.9	72.0		1.3
PROGENY 4265 RXS	77.9	64.1		1.3
USG 7447XTS	77.6			1.7
LS4565XS	77.0	71.1		2.0
LG SEEDS LGS4464RX	76.5			1.7
MISSION A4448X	75.5			1.7
STINE 40EB22	75.4			1.3
B400EE	75.1			1.0
CHANNEL 4519R2X/SR	75.0	63.2		1.7

AGRIGOLD G4255RX	74.8			2.3
SEED CONSULTANTS SC 7421™	74.7			2.0
PIONEER P44A72BX	73.6	67.5	66.6	2.0
PROGENY 4241 E3	73.2			1.0
V 4520 S	73.2			1.3
TAYLOR SEED T4400XS	73.0			1.3
ARMOR 44-D49	73.0			1.3
43N04E	73.0			1.7
AGRIGOLD G4190RX	72.9			1.7
PROGENY 4505 RXS	72.8			2.3
ARMOR 44-E44	72.7			1.3
HS 41X70	72.4			1.3
STEWART 4228R2X	72.2	72.0	68.5	1.7
AGRIGOLD G4318RX	72.1			3.0
ASGROW AG43X0	71.9	75.2		1.3
STEWART 4527R2X	71.9	71.5	70.8	1.3
45N04E	71.6			1.3
GO SOY 41C19	71.5			1.0
ARMOR 44-D19	70.5			1.3
ARMOR 42-E11	70.3			2.7
CAVERNDALE CF 453 E3	70.3			3.7
B430EE	70.3			1.7
CAVERNDALE CF 423 E3 STSn	70.0			1.3
GO SOY 433E21	69.9			3.0
DYNA-GRO S43EN61	69.5			1.7
DYNA-GRO S45ES10	69.4			1.7
CZ 4241GTLL	69.1			1.7
PROGENY 4444 RXS	68.7	64.6	61.6	2.7
AGS GS42X19S	68.7	69.3		2.0
HS 43E00	68.5			2.0
B450EE	68.4			1.7
LS4299XS	68.1	67.7		1.7
STINE 41EB32	68.1			1.0
BLUE RIVER 41DC8	67.8			1.0
DM 40X61	67.4			2.0
CHANNEL 4218R2X/SR	67.2	61.6	58.9	1.3
HS 45E00	66.9			1.3
LS4583X	66.3	58.9		2.7
DYNA-GRO S43XS70	65.8	72.0		1.3
LS4407X	65.5	66.2		2.7
STEWART 4029R2X	64.7	61.4		1.0
DYNA-GRO S41ES80	64.2			1.0
V 4220 S	64.2			3.0
B420EE	63.1			1.7
CZ 4240GTLL	62.9			1.0
PIONEER P42A96X	62.3	62.2	66.1	1.0
41N03E	62.3			1.0
ASGROW AG42X9	60.7	60.2	59.7	2.0
UNIVERSITY OF MISSOURI S15-5904RY	53.2			1.3
GROUP IV EARLY AVERAGE	70.4	67.3	65.5	1.7
LSD (0.10)	5.2	3.1	2.5	
C.V.	5.4	4.7	4.7	
MATURITY GROUP IV LATE (relative MG 4.6-4.9)				
TAYLOR SEED T4641ES	82.3			1.0
DYNA-GRO S48XT90	81.6			1.7
LS4795XS	81.3	69.9		1.3
LSX4812XS	79.2			1.0
STEWART 4907R2X	78.7			2.0
LG SEEDS LGS4632RX	78.6			2.3
BLUE RIVER e4993	77.6	63.9		2.0
DM 48E73	77.6			1.3
PIONEER P48A60X	77.6	79.1	75.4	1.0
USG 7496XTS	77.1	65.7	63.4	2.0
AGRIGOLD G4620RX	76.0			1.3
UNIVERSITY OF MISSOURI S16-7922C	75.5			4.3
ARMOR 48-D25	75.4	74.7		1.3

LS4999X	75.0	59.9		1.7
HS 46X90	74.9	65.7		1.0
HS 49X60	74.2	59.4	61.5	1.7
DYNA-GRO S48XT56	74.1	57.0	52.0	1.0
B460EE	73.7			1.7
PROGENY 4700 RXS	73.6			1.3
ARMOR 46-E50	73.5			1.3
B470EE	72.4			1.3
USG 7489XT	72.2			1.7
ARMOR 47-E02	72.1			1.3
GO SOY 48C17S	72.1	65.2		4.0
LG SEEDS LGS4899RX	71.9	60.2		1.3
ARMOR 46-D09	71.8	53.0		1.7
DYNA-GRO S4751STS	71.7			1.3
GO SOY 463E20S	71.6			1.0
PROGENY 4775 E3S	71.4			1.0
TAYLOR SEED T4880X XTEND	71.3			1.3
STINE 46EB22	71.0			1.3
MISSION A4618X	70.7			1.3
46N02E	70.0			1.7
AGS GS47X19	70.0			2.3
HS 48E00	69.4			1.3
PROGENY 4821 RX	69.4	61.0		1.3
PROGENY 4970 RX	69.2			1.7
V 4921 S	69.1			1.0
LSX4612XS	68.9			1.3
PROGENY 4851 RX	68.9			3.7
DYNA-GRO S46XS60	68.7	63.2		1.0
BLUE RIVER 49CK9	68.6			2.0
DM 49X13	68.6			1.3
PROGENY 4816 RX	68.6	61.5	64.0	1.0
GO SOY 481E19	68.4			2.0
ARMOR 48-E81	68.3			3.3
MISSION A4828X	68.2			2.3
MISSION A4950X	68.2			1.7
DYNA-GRO S46XT80	68.0	69.2		1.7
USG 7461XTS	67.8			1.7
PROGENY 4902 E3	67.6			1.7
STINE 48EB02	67.4			1.3
ASGROW AG46X0	67.3	63.5		1.7
ASGROW AG48X7	66.9			1.7
UNIVERSITY OF MISSOURI S16-5540R	66.2			5.0
CZ 4770X	66.1			1.7
TAYLOR SEED T4990XS XTEND	65.6			1.7
ARMOR 49-D14	65.3			1.7
UNIVERSITY OF MISSOURI S15-3772RY	65.1			1.7
CZ 4810X	64.9			1.7
PIONEER P46A86X	64.8			1.3
DYNA-GRO S46ES91	64.7			1.0
UNIVERSITY OF MISSOURI S16-11644C	64.4			5.0
CAVERNDAL CF 473 E3 STSn	64.3			1.3
ASGROW AG48X9	64.2	63.9	65.9	1.3
CAVERNDAL CF 461 LL/GT27/STSn	64.0			2.3
UNIVERSITY OF MISSOURI S16-14730C	64.0			1.7
PROGENY 4807 E3S	63.5			3.0
PROGENY 4620 RXS	63.5	56.2	55.3	2.3
PROGENY 4602 LR	62.8			1.0
PROGENY 4908 E3S	62.7			2.0
ASGROW AG47X9	62.4	67.1	63.4	1.3
CZ 4730X	61.8			2.0
UNIVERSITY OF MISSOURI S16-14379C	60.9			1.3
PROGENY 4682 E3	60.6			2.3
LSX4711GL	59.2			1.3
UNIVERSITY OF MISSOURI S16-7875C	58.8			5.0
USG 7470XT	58.5	49.6		1.3
UNIVERSITY OF MISSOURI S15-3847R	58.1			3.3
PENNYRILE (long term check-released 1987	52.3	43.6	44.9	1.3

GROUP IV LATE AVERAGE	69.2	62.4	60.7	1.8
LSD (0.10)	4.4	3.1	2.5	
C.V.	4.7	5.0	4.9	
MATURITY GROUP V (relative MG 5.0-5.9)				
LS5009XS	68.8			2.3
PROGENY 5016 RXS	64.1	61.6	60.9	1.7
PROGENY 5211 E3	64.1			2.0
LS5087X	63.5	50.1		2.0
PROGENY 5170 RX	62.8	61.9		2.0
UNIVERSITY OF MISSOURI S16-15170C	61.5			1.0
PROGENY 5252 RX	60.3	58.6	58.2	1.3
UNIVERSITY OF MISSOURI S16-3747R	60.3			4.3
ARMOR 51-E53	56.1			2.7
LS5386X	56.0			2.0
UNIVERSITY OF MISSOURI S16-11651C	55.4			4.3
ARMOR 50-D50	55.4			1.7
ZS5098E3	55.4			3.0
ESSEX (long term check-released 1974)	51.7	52.9	53.6	2.7
UNIVERSITY OF MISSOURI S16-15809C	49.8			3.7
UNIVERSITY OF MISSOURI S16-3739RY	48.2			3.0
GROUP V AVERAGE	58.3	57.0	57.6	2.5
LSD (0.10)	4.6	3.2	2.3	
C.V.	5.6	5.8	5.1	

^A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

^B The 2019-2020 yield data were collected at test sites in Allen Co., KY. The 2018 data were collected in Logan Co., KY.

Table 10. 2020 Kentucky Soybean Variety Performance Tests, Pennyryle Region - 2020 Caldwell County & Christian County

BRAND VARIETY	YIELD (BU/AC) ^{A/B}				LOGGING
	2020	2020	2019-2020	2018-2020	2020
	Caldwell	Christian			
MATURITY GROUP II (relative MG 2.0-2.9)					
AGRIGOLD G2900RX	69.2	64.4	71.0	64.2	2.7
ASGROW AG29X9	66.2	64.6	75.2		2.1
GROUP II AVERAGE	67.7	64.5	73.1	64.2	2.4
LSD (0.10)	7.6	7.2	2.5	2.0	
C.V.	7.3	4.7	4.7	4.6	
MATURITY GROUP III (relative MG 3.0-3.9)					
B389EE	88.6	62.8	75.7		1.8
PIONEER P36A83X	87.4	62.6	75.0		2.2
STEWART 3830R2X	87.1	61.1	74.1		2.3
SEED CONSULTANTS SC 7381E™	85.9	61.6	73.8		2.2
DYNA-GRO S39EN19	84.3	71.1	77.7		2.2
39N04E	83.4	63.3	73.4		1.8
B390EE	83.2	61.8	72.5		2.8
AGRIGOLD G3620RX	82.6	63.3	72.9		2.0
DYNA-GRO S38XS21	81.4	66.1	73.7		2.0
PIONEER P39A58X	80.2	68.3	74.2		2.2
ASGROW AG39X0	79.8	60.8	70.3		2.7
LSX3911GL	79.7	61.7	70.7		2.0
STINE 39EA02	79.7	64.8	72.3		2.3
ASGROW AG38X8	78.8	60.8	69.8	71.4	2.2
ASGROW AG37X9	78.4	66.0	72.2	74.6	2.7
AGRIGOLD G3722RX	78.3	59.8	69.0	69.6	2.7
GO SOY 38E21S	78.0	68.2	73.1		3.0
ASGROW AG36X6	77.9	61.5	69.7		2.3
CAVERNDALE CF 383 E3 STSn	77.3	66.1	71.7		2.8
LG SEEDS LGS3840RX	77.1	64.5	70.8		2.8
39N05E	75.6	66.4	71.0		1.8
ARMOR 39-D30	74.8	69.4	72.1		3.7
AGRIGOLD G3850RX	74.5	68.8	71.7		2.8
SEED CONSULTANTS SC 8399X™	73.9	59.8	66.9	70.5	2.2
LS3976X	73.8	67.8	70.8		2.2
ASGROW AG33X0	73.2	63.8	68.5		2.2
ASGROW AG39X7	72.4	62.1	67.3	68.9	2.2
SEED CONSULTANTS SC 3399L™	72.0	69.6	70.8		3.3
CHANNEL 3821R2X/SR	71.9	65.6	68.7		2.3
ZS3898E3S	71.6	66.6	69.1		2.3
PIONEER P33A53X	71.4	58.1	64.8		1.8
36N03E	70.5	64.0	67.3		1.7
LG SEEDS LGS3733RX	69.9	60.3	65.1		3.0
LG SEEDS LGS3600RX	69.6	66.0	67.8		1.8
SEED CONSULTANTS SCS 9393RR™	67.3	57.8	62.6	66.0	1.7
DYNA-GRO S3961STS	66.7	60.3	63.5		2.0
STEWART 3628R2X	65.4	66.9	66.2		2.7
PIONEER P31A22X	63.6	61.0	62.3		4.2
GROUP III AVERAGE	76.5	64.0	70.2	70.2	2.4
LSD (0.10)	4.7	4.0	3.1	1.8	
C.V.	4.5	4.6	4.6	4.2	
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)					
41N03E	94.7	64.8			1.7
AGRIGOLD G4255RX	91.8	63.1			2.3
STINE 41EB32	90.0	70.5			3.0
STEWART 4228R2X	89.7	60.5	75.6	71.8	2.2
DYNA-GRO S43XS70	87.6	59.2	78.1		2.3
DYNA-GRO S41XS98	86.5	67.2	79.5	76.0	2.2
STEWART 4527R2X	86.0	68.5	78.8	76.3	2.5

STINE 40EB22	85.6	69.3			2.0
B450EE	85.5	63.5			2.2
B430EE	85.4	62.1			3.5
CHANNEL 4519R2X/SR	85.1	67.1	77.8		2.8
DYNA-GRO S41ES80	85.0	64.4			2.3
LS4583X	84.9	71.8	78.7		3.0
SEED CONSULTANTS SC 7421™	83.7	59.9			2.3
V 4520 S	83.6	63.5			2.2
43N04E	83.6	65.3			2.8
ARMOR 44-D49	83.1	67.8			4.2
DYNA-GRO S45ES10	82.8	64.0			2.3
CZ 4240GTLL	82.3	57.4			1.7
B420EE	82.0	64.2			3.0
HS 41X70	81.4	66.7			2.5
V 4220 S	81.3	65.0			2.8
GO SOY 41C19	81.2	64.0			2.7
MISSION A4448X	81.0	67.7			3.5
ARMOR 42-E11	80.6	64.0			2.3
B400EE	80.6	61.2			2.0
ASGROW AG42X9	80.5	59.4	72.7	70.4	3.3
CHANNEL 4218R2X/SR	80.4	57.3	74.0	70.6	1.8
GO SOY 433E21	80.4	61.1			3.2
DYNA-GRO S43EN61	80.2	63.0			2.7
PROGENY 4444 RXS	79.3	63.0	72.9	69.4	3.0
ASGROW AG43X0	79.1	67.2	79.0		2.2
PROGENY 4265 RXS	78.3	65.8	75.1		2.3
AGRIGOLD G4318RX	78.0	64.2			3.5
USG 7447XTS	77.4	61.4			3.5
CAVERNDALE CF 423 E3 STSn	77.3	60.3			2.2
LS4299XS	77.1	70.2	77.2		2.3
LS4407X	77.0	59.6	70.7		3.0
ARMOR 44-E44	76.8	66.9			2.3
AGRIGOLD G4190RX	76.6	66.5			2.3
CZ 4241GTLL	76.5	65.4			2.0
HS 45E00	76.4	65.3			1.8
ARMOR 44-D92	76.3	63.0	79.2		2.5
STEWART 4029R2X	76.2	61.3	73.7		2.5
LG SEEDS LGS4464RX	76.1	62.1			2.2
PROGENY 4241 E3	75.8	61.3			1.7
45N04E	74.9	64.7			2.8
PIONEER P42A96X	74.6	66.1	78.5	75.1	1.8
AGS GS42X19S	74.4	60.7	65.1		2.0
CAVERNDALE CF 453 E3	74.3	55.5			3.3
UNIVERSITY OF MISSOURI S15-5904RY	74.2	55.9			3.0
TAYLOR SEED T4400XS	72.9	64.5			2.5
PROGENY 4505 RXS	72.4	69.3			4.2
LS4565XS	71.8	64.2	72.4		3.8
ARMOR 44-D19	71.6	64.1			2.7
PIONEER P44A72BX	71.5	64.9	73.1	70.9	3.3
HS 43E00	70.2	65.3			2.0
DM 40X61	69.5	64.9			2.5
BLUE RIVER 41DC8	69.2	62.8			1.8
DM 45X61	68.6	65.0			3.8
GROUP IV EARLY AVERAGE	79.5	63.9	75.4	72.6	2.6
LSD (0.10)	5.0	4.3	2.3	2.1	
C.V.	4.7	5.0	4.7	4.7	
MATURITY GROUP IV LATE (relative MG 4.6-4.9)					
PROGENY 4807 E3S	99.1	60.8			4.0
B460EE	95.6	60.7			3.2
ASGROW AG46X0	94.0	56.7	73.0		3.0
DYNA-GRO S46ES91	93.9	57.7			2.7
HS 46X90	92.8	57.5	72.4		2.0
HS 48E00	88.6	57.4			4.2

LG SEEDS LGS4632RX	88.5	59.8			3.3
ARMOR 47-E02	85.0	55.8			2.5
ASGROW AG48X9	84.6	57.2	73.8	70.5	2.8
PROGENY 4620 RXS	84.1	60.2	72.2	68.5	4.7
LG SEEDS LGS4899RX	83.5	60.0	73.5		1.8
46N02E	83.4	56.4			2.7
PIONEER P46A86X	83.4	60.7			3.3
LS4999X	83.2	59.0	70.8		3.0
DYNA-GRO S46XS60	82.8	65.5	75.9		2.3
MISSION A4618X	82.6	57.3			2.8
PROGENY 4682 E3	82.4	56.1			3.3
PROGENY 4775 E3S	82.2	55.4			2.5
DYNA-GRO S46XT80	82.2	61.0	72.8		3.5
BLUE RIVER 49CK9	81.9	54.8			2.2
BLUE RIVER e4993	80.0	58.3	65.2		2.8
LSX4812XS	79.5	62.0			2.0
UNIVERSITY OF MISSOURI S16-14379C	79.4	55.5			2.7
TAYLOR SEED T4880X XTEND	79.1	60.0			1.8
GO SOY 48C17S	79.0	61.4	65.4		3.7
DYNA-GRO S48XT90	78.9	56.9			3.3
PIONEER P48A60X	78.4	59.9	72.2	69.3	3.2
ARMOR 46-D09	78.1	58.9	72.6		3.2
DYNA-GRO S4751STS	78.0	59.0			2.8
CZ 4730X	77.6	53.6			2.8
STINE 46EB22	77.6	59.9			2.7
V 4921 S	77.6	59.1			2.5
PROGENY 4970 RX	77.3	57.0			3.2
ASGROW AG47X9	77.3	59.0	72.5	69.4	2.2
AGS GS47X19	77.2	58.7			3.0
USG 7489XT	76.9	67.9			1.7
MISSION A4950X	76.6	61.0			3.5
ASGROW AG48X7	76.4	52.5			2.3
USG 7496XTS	76.3	61.8	70.4	67.2	2.8
TAYLOR SEED T4990XS XTEND	76.0	53.9			2.2
PROGENY 4602 LR	75.6	54.5			3.3
LS4795XS	75.5	63.6	70.0		2.3
PROGENY 4821 RX	75.3	59.1	70.5		2.8
USG 7461XTS	75.2	62.8			3.2
AGRIGOLD G4620RX	75.1	54.0			2.2
PROGENY 4851 RX	75.1	68.6			4.5
PROGENY 4816 RX	75.1	70.2	76.6	71.9	3.2
B470EE	74.9	58.7			2.5
LSX4711GL	74.6	60.2			2.0
ARMOR 48-E81	74.2	58.9			4.5
PROGENY 4700 RXS	74.2	62.1			4.0
GO SOY 481E19	73.7	62.3			2.7
UNIVERSITY OF MISSOURI S16-14730C	73.3	54.9			3.2
ARMOR 46-E50	73.3	60.6			2.2
ARMOR 49-D14	73.0	57.7			3.7
UNIVERSITY OF MISSOURI S15-3772RY	72.1	50.4			3.0
ARMOR 48-D25	71.8	61.5	67.5		2.3
DYNA-GRO S48XT56	71.5	60.7	72.1	66.4	2.0
DM 48E73	71.5	53.0			2.2
USG 7470XT	71.5	57.6	70.0		3.0
HS 49X60	70.9	63.8	72.9	69.2	2.3
CZ 4770X	70.8	57.4			2.3
MISSION A4828X	69.7	55.2			4.0
UNIVERSITY OF MISSOURI S16-7875C	69.3	55.4			5.0
STINE 48EB02	69.0	53.0			4.0
CAVERNDALE CF 473 E3 STSn	68.8	53.3			3.0
LSX4612XS	68.3	56.4			3.7
GO SOY 463E20S	68.0	59.1			2.7
PROGENY 4902 E3	65.8	58.7			3.2
TAYLOR SEED T4641ES	65.8	57.2			2.8
CAVERNDALE CF 461 LL/GT27/STSn	65.4	55.3			3.7

PROGENY 4908 E3S	65.3	51.6			2.7
CZ 4810X	65.1	60.0			3.7
UNIVERSITY OF MISSOURI S16-5540R	64.4	54.8			5.0
UNIVERSITY OF MISSOURI S15-3847R	62.4	53.5			3.3
DM 49X13	61.3	56.3			3.3
STEWART 4907R2X	59.1	61.3			3.0
UNIVERSITY OF MISSOURI S16-7922C	58.7	50.7			5.0
UNIVERSITY OF MISSOURI S16-11644C	57.1	49.9			5.0
PENNYRILE (long term check-released 1987)	51.9	40.8	49.9	47.8	3.5
GROUP IV LATE AVERAGE	75.8	58.0	70.6	66.7	3.1
LSD (0.10)	4.6	4.0	2.3	2.0	
C.V.	4.5	5.1	5.1	5.0	
MATURITY GROUP V (relative MG 5.0-5.9)					
ARMOR 50-D50	85.3	61.4			2.8
PROGENY 5211 E3	78.1	59.5			2.8
LS5009XS	74.1	64.4			3.2
LS5087X	72.4	57.8	63.9		2.8
PROGENY 5016 RXS	71.8	57.9	62.0	64.4	2.8
UNIVERSITY OF MISSOURI S16-15170C	71.5	54.1			2.5
PROGENY 5170 RX	71.1	68.1	66.9		3.7
ZS5098E3	70.6	57.2			3.0
UNIVERSITY OF MISSOURI S16-15809C	68.9	50.1			4.7
PROGENY 5252 RX	68.3	60.7	63.9	62.1	3.0
UNIVERSITY OF MISSOURI S16-11651C	68.3	54.6			4.7
ESSEX (long term check-released 1974)	67.0	49.4	56.1	56.2	4.3
LS5386X	66.4	69.3			2.0
ARMOR 51-E53	65.5	63.1			3.0
UNIVERSITY OF MISSOURI S16-3747R	65.0	54.6			4.2
UNIVERSITY OF MISSOURI S16-3739RY	62.2	56.5			5.0
GROUP V AVERAGE	70.4	58.7	62.6	60.9	3.4
LSD (0.10)	6.2	4.8	2.4	2.0	3.4
C.V.	6.4	5.8	5.7	5.3	

^A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

^B The 2018-2020 Caldwell Co. yield data were collected at the University of Kentucky Research and Education Center research farm in Princeton, KY. The 2019-2020 Christian Co., KY yield data were collected at on-farm test sites.

Table 11. 2020 Kentucky Soybean Variety Performance Tests, Purchase Region - 2020 Calloway County

BRAND VARIETY	YIELD (BU/AC) ^{A/B}			LODGING
	2020	2019-2020	2018-2020	2020
MATURITY GROUP II (relative MG 2.0-2.9)				
ASGROW AG29X9	66.3	60.5		2.0
AGRIGOLD G2900RX	59.9	57.9	51.6	1.3
GROUP II AVERAGE	63.1	59.2		1.7
LSD (0.10)	8.7	3.6		
C.V.	5.8	5.2		
MATURITY GROUP III (relative MG 3.0-3.9)				
DYNA-GRO S38XS21	74.2			1.7
LSX3911GL	74.0			2.0
CAVERNDALE CF 383 E3 STSn	73.8			1.0
ARMOR 39-D30	73.5			3.0
PIONEER P33A53X	73.5	66.0		1.0
STEWART 3628R2X	72.4	68.6		1.7
39N05E	72.3			1.3
ASGROW AG36X6	71.9			1.7
LS3976X	71.4	71.4		2.0
ZS3898E3S	71.2			1.7
DYNA-GRO S39EN19	70.7	72.5		1.0
STINE 39EA02	70.2	71.2		1.3
36N03E	69.9			1.3
SEED CONSULTANTS SC 3399L™	69.9	70.9		2.0
STEWART 3830R2X	69.8	67.2		1.7
LG SEEDS LGS3840RX	69.5			2.3
AGRIGOLD G3722RX	68.6	70.3	62.9	2.3
GO SOY 38E21S	68.6			1.0
AGRIGOLD G3850RX	68.0	63.6		2.0
LG SEEDS LGS3733RX	67.5			2.0
ASGROW AG39X0	67.2	65.2		1.7
ASGROW AG37X9	67.0	64.4	58.3	2.0
SEED CONSULTANTS SC 7381E™	66.3			1.0
SEED CONSULTANTS SC 8399X™	66.0	70.5	66.3	2.0
ASGROW AG33X0	65.5			2.0
B390EE	64.9			1.7
PIONEER P39A58X	64.4			1.3
AGRIGOLD G3620RX	64.1	64.6		1.7
CHANNEL 3821R2X/SR	63.6			1.3
39N04E	63.5			1.3
PIONEER P36A83X	63.3			1.3
LG SEEDS LGS3600RX	63.1			1.7
ASGROW AG38X8	63.0	68.3	62.8	1.3
PIONEER P31A22X	63.0	60.7		1.7
ASGROW AG39X7	61.9	64.7	60.2	1.7
SEED CONSULTANTS SCS 9393RR™	61.9	65.9	63.7	1.3
B389EE	61.1			1.3
DYNA-GRO S3961STS	58.0			1.3
GROUP III AVERAGE	67.6	67.4	62.4	1.6
LSD (0.10)	4.1	2.8	2.7	
C.V.	4.4	4.3	5.2	
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)				
43N04E	85.1			1.7
PROGENY 4505 RXS	83.3			2.3
DYNA-GRO S45ES10	82.9			2.0
LS4565XS	82.6	75.0		1.7
B450EE	81.4			1.3
STINE 41EB32	81.0			1.7
PROGENY 4444 RXS	80.2	71.8	66.7	3.0
LS4583X	79.8	73.2		2.0
CAVERNDALE CF 453 E3	79.6			3.3
B400EE	79.5			1.7

HS 45E00	79.2			2.3
CAVERNDALE CF 423 E3 STSn	78.8			2.0
LG SEEDS LGS4464RX	77.9			2.0
DYNA-GRO S43EN61	77.8			1.3
STEWART 4527R2X	77.6	74.7	70.9	2.3
AGS GS42X19S	77.4	72.0		1.3
AGRIGOLD G4190RX	77.2			3.0
41N03E	77.1			1.3
ARMOR 42-E11	76.9			1.4
LS4407X	76.8	70.7		2.7
TAYLOR SEED T4400XS	76.7			2.7
ARMOR 44-D92	76.6	74.5		2.0
ASGROW AG43X0	76.3	72.6		1.7
45N04E	76.3			1.4
AGRIGOLD G4255RX	76.3			1.7
LS4299XS	76.3	74.3		2.7
B420EE	76.2			2.0
B430EE	76.0			1.7
HS 41X70	75.9			2.3
CZ 4241GTLL	75.5			2.3
PIONEER P42A96X	75.5	75.2	70.8	2.0
PROGENY 4241 E3	75.4			1.3
SEED CONSULTANTS SC 7421™	75.0			2.3
DYNA-GRO S43XS70	74.9	73.6		2.3
CZ 4240GTLL	74.9			1.0
V 4220 S	74.6			2.7
ASGROW AG42X9	74.4	70.3	62.3	2.0
DM 45X61	74.4			3.3
DYNA-GRO S41ES80	74.3			1.3
V 4520 S	74.1			2.7
GO SOY 433E21	73.7			2.7
ARMOR 44-E44	73.6			2.0
GO SOY 41C19	73.4			2.3
DYNA-GRO S41XS98	73.3	73.8	67.8	2.3
ARMOR 44-D49	73.2			3.3
DM 40X61	73.2			1.7
PROGENY 4265 RXS	73.2	72.6		2.3
MISSION A4448X	72.7			2.7
HS 43E00	72.6			2.3
BLUE RIVER 41DC8	72.4			1.7
USG 7447XTS	72.2			2.3
CHANNEL 4519R2X/SR	72.2	69.8		1.7
UNIVERSITY OF MISSOURI S15-5904RY	72.1			2.3
CHANNEL 4218R2X/SR	71.9	70.2	63.6	2.0
STEWART 4228R2X	71.8	70.6	64.2	1.7
AGRIGOLD G4318RX	71.4			2.3
ARMOR 44-D19	70.5			2.3
STINE 40EB22	70.0			2.3
PIONEER P44A72BX	69.6	71.4	68.2	2.0
STEWART 4029R2X	66.4	72.3		1.7
GROUP IV EARLY AVERAGE	75.7	72.6	66.8	2.1
LSD (0.10)	5.2	3.6	2.8	
C.V.	5.1	5.0	5.0	
MATURITY GROUP IV LATE (relative MG 4.6-4.9)				
ARMOR 48-D25	87.8	72.3		2.3
LS4795XS	84.4	76.4		2.3
PIONEER P46A86X	83.8			3.0
HS 49X60	83.7	73.3	70.2	2.7
B460EE	82.7			2.7
USG 7461XTS	81.9			2.3
TAYLOR SEED T4880X XTEND	81.3			1.3
ARMOR 49-D14	80.4			3.3
DYNA-GRO S46ES91	80.1			2.3
DYNA-GRO S4751STS	80.0			2.3
MISSION A4618X	79.7			3.0

ARMOR 46-E50	79.5			2.0
GO SOY 48C17S	79.3	67.5		2.3
ASGROW AG48X7	79.3			2.3
HS 46X90	78.9	74.9		2.0
DYNA-GRO S48XT56	78.8	75.1	71.5	1.3
46N02E	78.8			1.7
PROGENY 4821 RX	78.5	79.2		2.3
ARMOR 47-E02	78.5			2.0
USG 7489XT	78.2			1.7
MISSION A4950X	78.1			3.0
STINE 46EB22	78.0			2.3
PROGENY 4700 RXS	77.8			3.7
TAYLOR SEED T4990XS XTEND	77.6			3.0
ASGROW AG48X9	77.3	72.3	67.0	1.3
LG SEEDS LGS4632RX	77.1			3.0
UNIVERSITY OF MISSOURI S15-3847R	76.6			3.0
TAYLOR SEED T4641ES	76.4			2.3
PIONEER P48A60X	76.0	71.1	70.7	2.3
UNIVERSITY OF MISSOURI S16-5540R	75.6			4.0
DM 49X13	75.1			2.0
BLUE RIVER e4993	75.1	71.3		2.7
HS 48E00	75.1			3.0
BLUE RIVER 49CK9	74.9			2.0
MISSION A4828X	74.7			2.7
LSX4612XS	74.3			2.7
V 4921 S	74.3			2.7
CZ 4770X	74.2			2.7
UNIVERSITY OF MISSOURI S16-7922C	74.2			4.3
ASGROW AG46X0	74.2	68.7		1.3
LG SEEDS LGS4899RX	74.2	70.2		2.0
PROGENY 4816 RX	74.2	72.2	67.7	1.0
UNIVERSITY OF MISSOURI S16-14379C	74.1			2.0
UNIVERSITY OF MISSOURI S16-7875C	74.1			4.3
ARMOR 46-D09	74.0	71.9		2.0
PROGENY 4775 E3S	73.7			2.0
USG 7496XTS	73.7	69.6	68.3	3.3
DYNA-GRO S48XT90	73.7			3.0
UNIVERSITY OF MISSOURI S16-14730C	73.6			3.0
UNIVERSITY OF MISSOURI S15-3772RY	73.4			2.0
GO SOY 463E20S	73.3			2.7
CAVERNDALE CF 473 E3 STSn	73.3			1.7
CZ 4810X	73.2			2.3
PROGENY 4851 RX	72.9			3.3
AGS GS47X19	72.7			3.0
STEWART 4907R2X	72.5			2.7
UNIVERSITY OF MISSOURI S16-11644C	72.5			4.7
PROGENY 4807 E3S	72.3			4.0
LSX4812XS	72.1			2.3
GO SOY 481E19	72.1			1.3
LS4999X	71.8	70.6		2.0
ARMOR 48-E81	71.7			2.3
PROGENY 4970 RX	71.7			3.7
DYNA-GRO S46XS60	71.2	68.2		2.7
LSX4711GL	71.0			2.0
USG 7470XT	70.9	67.5		1.3
B470EE	70.6			1.7
ASGROW AG47X9	70.4	67.0	62.3	2.3
STINE 48EB02	70.3			2.3
PROGENY 4902 E3	69.4			4.7
AGRIGOLD G4620RX	68.8			2.3
PROGENY 4620 RXS	68.2	65.7	62.5	2.7
CZ 4730X	67.5			1.7
PROGENY 4908 E3S	67.5			2.3
PROGENY 4682 E3	67.4			2.0
DYNA-GRO S46XT80	67.2	70.6		2.7
DM 48E73	66.9			2.0
PROGENY 4602 LR	65.8			2.7

CAVERNDALE CF 461 LL/GT27/STSn	64.7			3.7
PENNYRILE (long term check-released 1987)	51.4	59.7	51.5	3.0
GROUP IV LATE AVERAGE	74.5	70.7	65.7	2.5
LSD (0.10)	4.5	3.3	2.5	
C.V.	4.4	4.8	4.5	
MATURITY GROUP V (relative MG 5.0-5.9)				
LS5386X	75.5			1.0
ZS5098E3	75.4			1.7
LS5009XS	74.5			2.0
ARMOR 51-E53	72.5			2.7
LS5087X	72.3	67.9		2.3
ARMOR 50-D50	70.8			2.3
UNIVERSITY OF MISSOURI S16-3739RY	69.1			4.0
PROGENY 5016 RXS	69.1	69.2	69.3	2.0
PROGENY 5211 E3	68.2			1.7
UNIVERSITY OF MISSOURI S16-15170C	65.8			1.3
UNIVERSITY OF MISSOURI S16-3747R	64.1			3.0
PROGENY 5170 RX	62.7	65.9		2.0
UNIVERSITY OF MISSOURI S16-15809C	62.0			3.3
PROGENY 5252 RX	61.0	64.6	64.5	2.7
ESSEX (long term check-released 1974)	57.1	58.7	56.5	2.3
UNIVERSITY OF MISSOURI S16-11651C	56.6			2.7
GROUP V AVERAGE	67.3	65.2	63.4	2.3
LSD (0.10)	5.1	3.4	2.5	
C.V.	5.5	5.2	4.7	

^A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

^B The 2018-2020 yield data were collected at the Murray State University Research Farm in Calloway Co., KY.