



## PennState Extension

Extension Team:	Plant Science	Tool Version:	
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### Description:

*Results from the 2019 Soybean variety trials at the Southeast Agricultural Research and Extension Center, Lancaster County*

### User Instructions:

The sheets located within this file contain the results from the 2019 soybean variety trials conducted at the Southeast Agricultural Research and Extension Center location in Lancaster County. The sheets are located at the bottom part of the excel program and are labeled in respect to the trial they represent.

### References:

*Prepared by Mark Antle, Department of Plant Science.  
These trials were partially supported with funds from the Pennsylvania Soybean Board.*

### Acknowledgement of Risk:

*This tool is provided for general informational purposes only and The Pennsylvania State University shall have no liability whatsoever for the use of or reliance on this tool.*

Note: Total rainfall at the Lancaster County trials was near normal for the months of May and June, but the timing of the rain caused a delay in planting dates for the full season trials. The remainder of the growing season could be described as having near normal total rainfall, but with periods of hot and dry conditions that most likely affected yields.

**Early maturity Group Soybean Variety Performance in Lancaster County, 2019 (MG 3.3 and earlier)**

Source	Entry	Maturity Group	Traits	Seed Treatment	Yield, bu/A	TW (lbs/bu)	Height (in.)	Lodging (0-5, 0=best)	% Protein @ 13% H2O	% Oil @ 13% H2O	2 Yr Avg. Yield, bu/A (2018-19)
Dyna-Gro Seed	S31XT59	3.0	RR2XTEND	Equity VIP	62.1	56.4	35	1.5	34.5	19.4	65.9
LG Seeds	C3333RX	3.1	RR2XTEND	AgriShield MAX w/LeVO	61.6	56.5	34	0.0	35.5	18.1	
LG Seeds	C2888RX	3.3	RR2XTEND	AgriShield MAX w/LeVO	59.7	55.3	32	0.0	34.3	19.2	
LG Seeds	LG33060RX	3.2	RR2XTEND	AgriShield MAX w/LeVO	59.7	55.8	31	0.0	34.0	19.0	
Dyna-Gro Seed	S33XT79	3.2	RR2XTEND	Equity VIP	57.9	56.2	29	0.5	32.1	21.0	68.1
Growmark FS	HS 32X92	3.3	RR2XTEND	CruiserMAXX Vibrance	57.7	56.4	35	0.0	34.1	19.6	
Seed Consultants	SC 9339R	2.7	RR		56.6	56.7	36	0.5	33.2	20.1	
Growmark FS	HS 33X80	3.1	RR2XTEND	CruiserMAXX Vibrance	56.4	56.3	29	0.0	35.6	18.8	
Hubner Seed	H32-29R2X	3.2	RR2XTEND	Accelaron FI+Nem	55.5	56.0	34	0.0	34.1	18.6	
Chemgro	C3152RX	3.1	RR2XTEND	Encase Excalibre S	55.4	55.6	34	0.5	35.0	19.3	60.5
BASF	CZ 3099GTLL	3.3	LLGT27	Poncho Votivo plus Illevo	55.1	55.0	35	0.0	35.3	19.6	
Blue River Organics	32DC8	2.9	non-traited	untreated	54.6	55.3	33	0.5	34.8	19.6	
Growmark FS	HS 29X80	3.2	RR2XTEND	CruiserMAXX Vibrance	54.6	56.0	28	0.0	35.5	18.9	62.9
Chemgro	C2752RX	3.3	RR2XTEND	CruiserMAXX Vibrance	54.4	55.5	31	0.0	33.0	20.6	
Syngenta	S33-D7X	2.9	RR2XTEND	Clariva Complete	54.2	56.2	37	0.5	33.4	19.7	
Seedway	SG3168XT	3.2	RR2XTEND		54.0	56.7	34	1.0	34.6	19.3	
FBN	22RL12412	2.4	RR	Accelaron FI+Nem	53.1	55.7	36	0.5	36.3	18.6	
BASF	CZ3309GTLL	2.8	LLGT27	Poncho Votivo plus Illevo	52.6	56.1	36	0.5	34.0	20.0	
Hubner Seed	H29-19R2X	3.0	RR2XTEND	Accelaron FI+Nem	52.2	56.1	32	1.0	34.9	19.1	
Seedway	SG3322XT	3.3	RR2XTEND		52.2	56.0	29	0.0	35.9	18.6	
CHANNEL	3220R2X	3.3	RR2XTEND		50.3	55.8	30	0.0	34.0	19.4	
FBN	22RL12026	3.1	RR		49.4	55.8	29	0.0	35.3	19.2	
Chemgro	C3253E	3.3	Enlist E3		49.1	56.3	32	0.0	35.0	19.2	
Hubner Seed	H24-38R2X	3.3	RR2XTEND	Accelaron FI+Nem	49.1	55.0	29	0.0	34.8	19.8	53.5
BASF	CZ3100GTLL	2.5	LLGT27	Poncho Votivo plus Illevo	48.9	55.6	29	0.0	33.6	19.6	
CHANNEL	3320R2X	2.9	RR2XTEND		47.2	55.9	31	0.0	35.2	19.1	
<b>Mean</b>					<b>54.4</b>	<b>55.9</b>	<b>32</b>	<b>0.3</b>	<b>34.5</b>	<b>19.4</b>	<b>62.2</b>
<b>LSD(0.05)</b>					<b>8.7</b>						
<b>LSD(0.2)</b>					<b>5.6</b>						
<b>CV%</b>					<b>11.3</b>						

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Page will be periodically updated as additional data becomes available.

Note: Total rainfall at the Lancaster County trials was near normal for the months of May and June, but the timing of the rain caused a delay in planting dates for the full season trials. The remainder of the growing season could be described as having near normal total rainfall, but with periods of hot and dry conditions that most likely affected yields.

Late Maturity Group Soybean Variety Performance in Lancaster County, 2019 (MG 3.4 and later)

Source	Entry	Maturity Group	Traits	Seed Treatment	Yield, bu/A	TW (lbs/bu)	Height (in.)	Lodging (0-5, 0=best)	% Protein @ 13% H2O	% Oil @ 13% H2O	2 Yr Avg. Yield, bu/A (2018-19)	3 Yr Avg. Yield, bu/A (2017-19)
LG Seeds	LG3360RX	3.6	RR2XTEND	AgriShield MAX w/LeVO	65.7	56.7	37	0.0	34.8	18.9		
Local Seed Company	ZS3496GL	3.4	LLGT27	Radius Premium	64.2	56.9	34	0.0	34.4	18.8		
Local Seed Company	LS3976X	3.9	RR2XTEND	Radius Premium	63.7	56.9	37	0.0	34.7	19.1		
Hubner Seed	H35-27R2X	3.5	RR2XTEND	Acceleron FH+Nem	63.5	56.0	29	0.0	35.6	19.1	65.1	67.2
Chemgro	C3552GL	3.5	LLGT27	Encase Excalibre SA	63.2	56.7	36	0.0	35.7	18.9		
Dyna-Gro Seed	S39XT68	3.9	RR2XTEND	Equity VIP	62.5	56.6	32	0.0	34.9	18.5	64.2	
LG Seeds	LG33777	3.7	RR2XTEND	AgriShield MAX w/LeVO	62.0	56.4	33	0.0	35.6	19.2		
Growmark FS	HS 39E80	3.9	Enlist E3	CruiserMAXX Vibration	61.9	54.3	30	0.0	35.2	19.0		
Hubner Seed	H36-28R2X	3.6	RR2XTEND	Acceleron FH+Nem	61.6	55.4	32	0.0	36.3	18.9		
LG Seeds	C4227RX	4.2	RR2XTEND	AgriShield MAX w/LeVO	61.6	57.2	34	1.0	34.1	18.6		
Blue River Organics	35DC2	3.5	non-traited	untreated	61.4	55.8	30	0.0	33.9	19.8		
Chemgro	C3751RXS	3.7	RR2XTEND, STS	Encase Excalibre SA	60.9	56.0	35	0.0	35.0	19.3	61.7	64.7
LG Seeds	C3985RX	3.9	RR2XTEND	AgriShield MAX w/LeVO	60.7	56.7	34	0.0	35.1	18.6		
Dyna-Gro Seed	S37EN39	3.7	Enlist E3	Equity VIP	60.4	55.6	31	0.0	33.2	20.1		
Mid Atlantic Seeds	MAS3818GT/LL/STS	3.8	LLGT27/STS	MAS PROSHIELD	60.0	56.6	37	1.0	35.8	19.3		
Syngenta	S39-G2X	3.9	RR2XTEND	Clariva Complete	59.5	55.9	34	0.0	34.0	19.2		
Dyna-Gro Seed	S34GL79	3.4	LLGT27	Equity VIP	59.3	56.0	30	0.0	34.6	19.6		
CHANNEL	3519R2X	3.5	RR2XTEND	Equity VIP	59.0	56.9	32	0.0	34.7	18.5	62.4	
BASF	CZ 3601LL	3.6	LL	Poncho Votivo plus Illevo	58.9	55.4	28	0.0	34.2	19.7		
Dyna-Gro Seed	S37XS89	3.7	RR2XTEND, STS	Equity VIP	58.8	55.7	37	0.0	34.8	19.6	62.4	
Dyna-Gro Seed	S39EN19	3.9	Enlist E3	Equity VIP	58.6	55.9	35	0.0	35.2	18.8		
Local Seed Company	ZS3399E3	3.3	Enlist E3	Radius Premium	58.6	55.5	34	0.0	34.7	19.8		
Seed Consultants	SC 8379X	3.7	RR2XTEND	Equity VIP	58.6	56.1	36	1.0	36.1	18.7		
Mid Atlantic Seeds	MAS3884GT/LL	3.8	LLGT27	MAS PROSHIELD	58.4	57.7	34	1.0	33.0	19.5		
CHANNEL	3620R2X	3.6	RR2XTEND	Equity VIP	57.9	55.8	34	0.0	33.9	19.1		
Seed Consultants	SC 9359R	3.5	RR	Equity VIP	57.9	56.4	29	0.0	35.2	19.5		
Dyna-Gro Seed	S40GL59	4.0	LLGT27	Equity VIP	57.2	58.4	32	0.0	34.9	19.2		
BASF	CZ 4105 LL	4.1	LL	Poncho Votivo plus Illevo	57.0	56.8	30	0.0	35.7	19.3		
Dyna-Gro Seed	S36GL10	3.6	LLGT27	Equity VIP	57.0	57.0	39	0.0	34.7	19.0		
CHANNEL	3919R2X	3.9	RR2XTEND	Equity VIP	56.7	56.6	31	0.0	33.9	19.3	61.2	
Mid Atlantic Seeds	MAS3718RR2X	3.7	RR2XTEND	MAS PROSHIELD	56.5	56.5	38	1.0	34.1	19.4	64.6	
Chemgro	C3952GL	3.9	LLGT27	Encase Excalibre S	56.4	54.2	35	0.0	35.4	18.9		
Seed Consultants	SC 8399X	3.9	RR	Equity VIP	56.3	56.3	34	0.0	35.0	19.5		
BASF	CZ 3660GTLL	3.6	LLGT27	Poncho Votivo plus Illevo	56.1	57.0	34	0.0	33.3	19.7		
Chemgro	C3453RX	3.4	RR2XTEND	Equity VIP	56.1	56.5	30	0.0	35.3	18.7		
Chemgro	C3753E	3.7	Enlist E3	Equity VIP	56.1	57.5	30	0.0	33.3	20.1		
Mid Atlantic Seeds	MAS4200GT/LL/STS	4.2	LLGT27/STS	MAS PROSHIELD	56.1	57.4	29	0.0	36.0	18.1		
Seedway	SG3494XT	3.4	RR2XTEND	Equity VIP	55.4	56.4	31	0.0	34.8	19.1	59.1	
Local Seed Company	ZS3898E3S	3.8	STS, Enlist E3	Radius Premium	55.1	56.6	33	0.0	33.0	20.5		
Mid Atlantic Seeds	MAS3419GT/LL	3.4	LLGT27	MAS PROSHIELD	54.9	56.7	36	0.0	35.5	19.1		
Hubner Seed	H34-37R2X	3.4	RR2XTEND	Acceleron FH+Nem	54.5	55.7	33	0.0	34.0	19.0	56.4	61.5
Hubner Seed	H39-28R2X	3.9	RR2XTEND	Acceleron FH+Nem	54.1	56.2	34	0.0	35.5	18.2		
BASF	CZ 3929GTLL	3.9	LLGT27	Poncho Votivo plus Illevo	53.6	56.3	34	0.0	35.3	19.0		
Growmark FS	HS 35E80	3.5	Enlist E3	CruiserMAXX Vibration	53.4	55.7	32	0.0	33.7	19.8		
CHANNEL	3920R2X	3.9	RR2XTEND	Equity VIP	53.3	57.7	35	1.0	35.6	17.9		
Growmark FS	HS 38X80	3.8	RR2XTEND	CruiserMAXX Vibration	53.3	56.7	32	0.0	33.6	19.7		
BASF	CZ 3519GTLL	3.5	LLGT27	Poncho Votivo plus Illevo	52.8	56.9	33	0.0	34.9	19.7		
Mid Atlantic Seeds	MAS3600E3/STS	3.6	Enlist E3/STS	MAS PROSHIELD	52.7	55.7	30	0.0	33.6	20.2		
BASF	CZ 3840GTLL	3.8	LLGT27	Poncho Votivo plus Illevo	52.6	56.7	33	0.0	33.7	18.9		
Syngenta	S35-K9X	3.5	RR2XTEND	Clariva Complete	52.6	56.2	34	0.0	33.9	19.2	59.0	61.6
Local Seed Company	ZS3797GL	3.7	LLGT27	Radius Premium	51.9	55.9	34	0.0	34.9	19.3		
Local Seed Company	ZS4295GLS	4.2	STS, LLGT27	Radius Premium	51.8	57.4	37	0.0	35.8	18.8		
Syngenta	S37-A4X	3.7	RR2XTEND	Clariva Complete	50.7	55.6	35	1.0	34.5	19.5		
<b>Mean</b>					<b>57.6</b>	<b>56.4</b>	<b>33</b>	<b>0.1</b>	<b>34.7</b>	<b>19.2</b>	<b>61.6</b>	<b>63.8</b>
<b>LSD(0.05)</b>					<b>6.0</b>							
<b>LSD(0.2)</b>					<b>3.9</b>							
<b>CV%</b>					<b>7.5</b>							

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### Production Details

<b>Location:</b>	Southeast Agricultural Research and Extension Center (Lancaster County)
<b>Planting Date:</b>	June 4th
<b>Harvest Date:</b>	10-Oct (Early and Late MG trials)
<b>Row Spacing</b>	15 inches
<b>Planted Plot Size:</b>	5 rows wide x 20 feet length (replicated 4 times)
<b>Harvested Plot Size:</b>	3 middle rows x 18.5 feet length
<b>Herbicide:</b>	3.5 oz per acre Envive (pre); Classic + Clethodim (post)
<b>Seeding Rate:</b>	175,000 Seeds per acre
<b>Previous Crop</b>	Corn
<b>Tillage:</b>	Conventional

**Soybean Company Contact Information****2019 Soybean Entries**

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<b>BASF</b> <a href="https://www.basf.com/us/en.html">https://www.basf.com/us/en.html</a>	CZ 2579GTLL, CZ 2889GTLL, CZ 3099GTLL, CZ 3100GTLL, CZ 3309GTLL, CZ 3519GTLL, CZ 3660GTLL, CZ 3601LL, CZ 3841LL, CZ 3929GTLL, CZ 4105LL
<b>Blue River Organic Seed</b> <a href="http://www.blueriverorgseed.com/">http://www.blueriverorgseed.com/</a> (800)-370-7979	32DC8, 35DC2
<b>CHANNEL</b> <a href="https://www.channel.com/Pages/default.aspx">https://www.channel.com/Pages/default.aspx</a>	2719R2X, 2820R2X, 2918R2X, 3220R2X, 3320R2X, 3519R2X, 3620R2X, 3919R2X, 3920R2X
<b>Chemgro Seeds</b> <a href="http://www.chemgro.com/home.html">http://www.chemgro.com/home.html</a> (800)-374-3326	C2852RX, C3052GL, C3152RX, C3253E, C3453RX, C3552GL, C3751RXS,C3753E, C3952GL
<b>Dyna-Gro Seed</b> <a href="https://www.dynagroseed.com/">https://www.dynagroseed.com/</a>	Dyna-Gro S28GL80, Dyna-Gro S28XT58, Dyna-Gro S30XT96, Dyna-Gro S31XT59, Dyna-Gro S33XT79, Dyna-Gro S34GL79, Dyna-Gro S34XT69, Dyna-Gro S36GL10, Dyna-Gro S37EN39, Dyna-Gro 37XS89, Dyna-Gro S39EN19, Dyna-Gro S39XT68, Dyna-Gro S40GL59
<b>Farmers Business Network</b> <a href="https://www.fbn.com/">https://www.fbn.com/</a>	22RL12703, 22RL12412, 22RL12026
<b>Growmark FS</b> <a href="https://www.growmarkfs.com/">https://www.growmarkfs.com/</a> (800) 787-2767	HS 29X80, HS 32X92, HS 33X80, HS 35E80, HS 38X80, HS 39E80
<b>Hubner Seed</b> <a href="https://www.hubnerseed.com/en-us.html">https://www.hubnerseed.com/en-us.html</a>	H24-38R2X, H29-19R2X, H32-29R2X, H34-37R2X, H35-27R2X, H36-28R2X, H39-28R2X
<b>LG Seeds</b> <a href="https://www.lgseeds.com/">https://www.lgseeds.com/</a> (800)-544-6310	LGS2321RX, LGS2444RX, C2888RX, LGS3060RX, C3333RX, LGS3600RX, LGS3777RX, C3985RX, C4227RX
<b>Local Seed Company</b> <a href="https://www.localseed.com/">https://www.localseed.com/</a> (901)-260-6000	LS2685X, ZS2898GL, ZS3097E3, ZS3296GL, ZS3399E3, ZS3496GL, ZS3797GL, ZS3898E3S, ZS4295GLS, LS3976X
<b>Mid-Atlantic Seeds</b> <a href="http://midatlanticseeds.com/">http://midatlanticseeds.com/</a> 800-854-6251	MAS3419GT/LL, MAS3600E3/STS, MAS3718RR2/X, MAS3818GT/LL/STS, MAS3884GT/LL, MAS4200GT/LL/STS, MAS4355RR2/STS
<b>Seed Consultants Inc.</b> <a href="https://www.seedconsultants.com/">https://www.seedconsultants.com/</a> (800) 708-2676	SC 8279X, SC 9299R, SC 9339R, SC 9359R, SC 8379X, SC 8399X
<b>Seedway LLC</b> <a href="http://www.seedway.com/">http://www.seedway.com/</a> 800-836-3710	SG2832XT, SG3168XT, SG3322XT, SG3494XT
<b>Syngenta Seeds</b> <a href="http://www.syngenta-us.com/seed">http://www.syngenta-us.com/seed</a>	S27-M8X Brand, S33-D7X Brand, S35-K9X Brand, S37-A4X Brand, S39-G2X Brand