

Test by: M.A.I.T.S. Mount Joy, PA

2021 Soybeans Top 30 Harvest Report

Pennsylvania Southeast [PASE] MOUNT JOY, PA
Curt & Mike Buckwalter, Lancaster County, PA

All-Season Test	Maturity Group 2.8 - 3.8 S2021PASE05
Top 30 of 78	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Halex Gt
SOIL DESCRIPTION:	silty clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 5.5 pH, 3.8% OM, 8.6 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Glyphosate
FERTILITY - Applied N:	120 Fall
Applied N-P-K (units):	120-80-120
SEEDED - RATE - ROW:	Jun 1 177.0 /A 15" spacing
HARVESTED - STAND:	Nov 5 165.9 /A

TEST COMMENTS:

When planting in no-till corn stubble on narrow rows, I usually plant higher to achieve a good population. This year with excellent soil conditions, emergence was excellent. Excellent rainfall and good fertility pushed plant growth, and some plants reached heights over 48", which reduced standability. Most varieties lodged at least 20% with some almost flat on the ground. With heavy rainfall in September and October, it was hard to dry beans in the field. Some green stalks were present at harvest but beans did shell out very nice. Yields were great, though standability was not so great. The overall rating of the plot is 8 out of 10. (10=best)

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Xitavo	XO 3861E ↗	E3,ST	3.8	R	97.1	15.0	5	166.0	1095	1
Mid-Atlantic	MAS3220E3 ↗	E3	3.2	NA	93.6	16.1	10	166.0	1054	2
NK Brand	NK37-V4E3S § ↗	E3,ST	3.7	MR	93.2	15.5	11	166.0	1050	3
Seedway	3393E3 ↗	E3	3.3	MR	92.5	15.6	11	166.0	1042	4
Stine	35EE32 § ↗	E3	3.5	R	92.5	16.0	6	166.0	1042	5
Xitavo	XO 3651E ↗	E3	3.6	R	91.5	15.5	10	166.0	1031	6
Xitavo	XO 3341E ↗	E3	3.3	R	91.4	15.9	11	166.0	1029	7
Zinesto	Z3101E ↗	E3	3.1	R	91.0	15.7	7	166.0	1025	8
Seed Consultants	SC 7341E ↗	E3	3.4	NA	90.2	15.4	9	166.0	1017	9
Hefty	H32XF2 ↗	RXF	3.2	NA	89.9	15.6	9	166.0	1013	10
Seed Consultants	SC 7381E ↗	E3	3.8	NA	89.7	14.9	23	166.0	1012	11
Genesis	G3560E ↗	E3	3.5	R	88.8	15.7	6	166.0	1000	12
Apex	AE3220 ↗	E3	3.2	R	87.9	16.0	14	166.0	990	13
Hefty	H36XF2 ↗	RXF	3.6	NA	87.8	15.7	7	166.0	989	14
Chemgro	C3354E ↗	E3	3.3	NA	87.5	16.0	7	166.0	985	15
Hefty	H35XF1 ↗	RXF	3.5	NA	87.0	15.1	14	166.0	981	16
Local Seed	IS3715E3 ↗	E3	3.7	NA	86.5	15.4	14	166.0	975	17
Xitavo	XO 3131E ↗	E3	3.1	R	86.3	16.0	20	166.0	972	18
Zinesto	Z3602E ↗	E3	3.6	NA	86.3	15.9	6	166.0	972	19
Chemgro	C3655E ↗	E3	3.6	R	85.8	15.6	8	166.0	967	20
Stine	36EB32 § ↗	E3	3.6	R	85.7	15.9	7	166.0	965	21
Seedway	3433GTLL ↗	LLGT27	3.4	R	84.2	15.7	7	166.0	949	23
Mid-Atlantic	MAS3021E3 ↗	E3	3.0	NA	84.2	15.0	10	166.0	950	22
Credenz	CZ 3309GTLL ↗	LLGT27	3.3	R	84.1	15.8	9	166.0	947	24
Mid-Atlantic	MAS3721E3/STS ↗	E3,ST	3.7	NA	84.0	15.4	12	166.0	947	25
Mid-Atlantic	MAS3884GT/LL/STS ↗	LLGT27	3.8	NA	83.7	15.8	38	166.0	943	26
Asgrow	AG38XF1 § ↗	RXF	3.8	R	83.4	15.4	6	166.0	940	27
Apex	AE3520 ↗	E3	3.5	R	83.0	16.0	6	166.0	935	28
NK Brand	NK28-T3XF ↗	RXF	2.8	R	82.7	16.1	25	166.0	931	29
Seed Consultants	SC 7302E ↗	E3	3.0	NA	82.4	14.9	26	166.0	930	30

Robin Kauffman

Averages = **81.1** **15.8** **15** **165.9** **913**

LSD (0.10) = 8.5 0.4 9

LSD (0.25) = 4.5 0.2 5

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C.V. = 10.0 Historic yield: 66.69 bu/a, 6 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.02 Prices: GMO = \$11.32

Report Date: 11/08/2021

† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different. ↗ New! Links to full product yield results at www.firstseedtests.com

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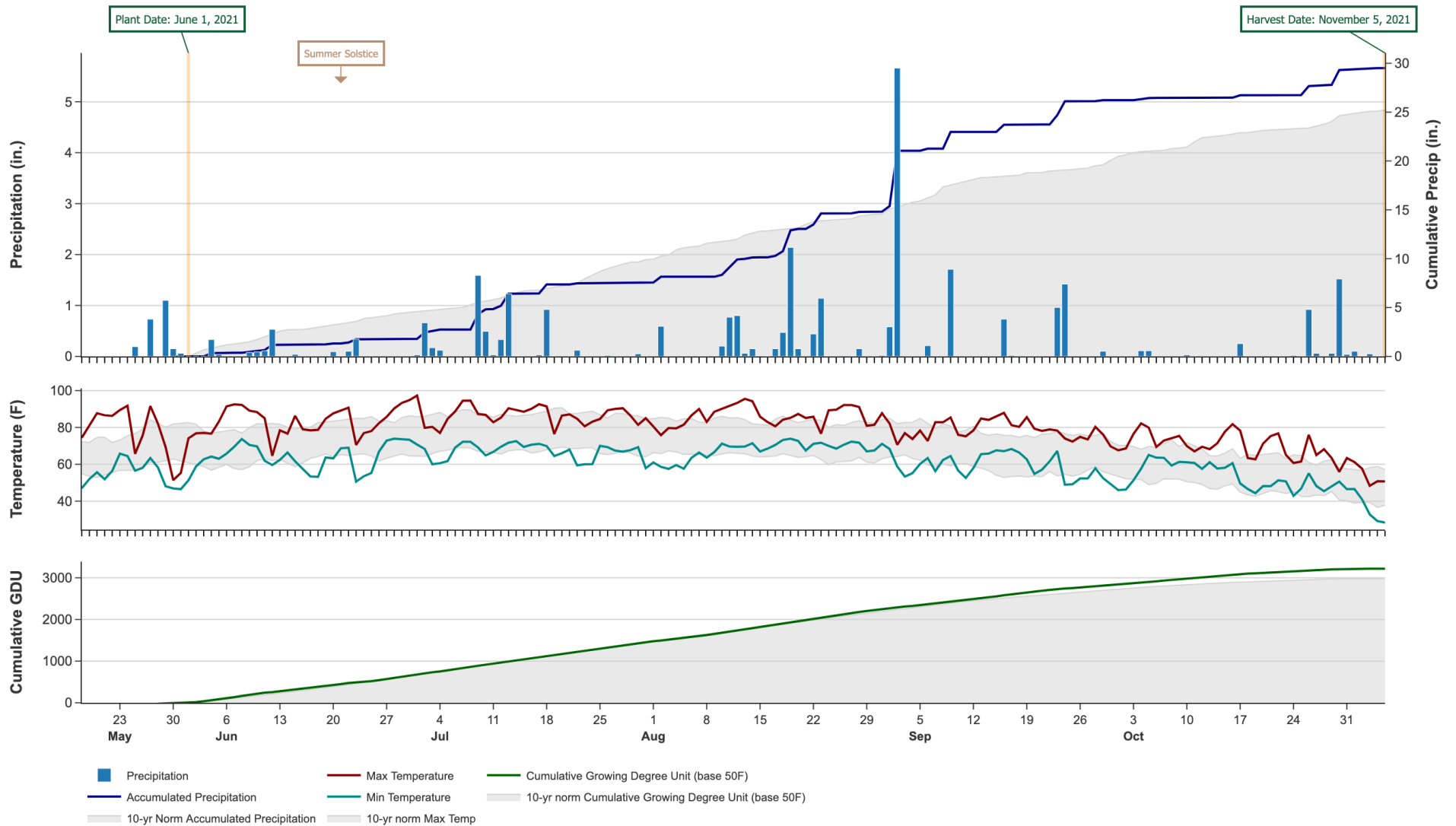
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2021 Soybeans - Pennsylvania Southeast [PASE]

Weather Conditions Summary at MOUNT JOY, PA

Weather Data Retrieved: 11/08/2021

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct	Nov*	Total
Precip (in) Normal (Diff)	2.2 1.4 (+0.8)	1.8 4.8 (-3.0)	5.8 5.4 (+0.4)	7.2 4.7 (+2.5)	11.4 5.5 (+5.9)	3.1 4.7 (-1.5)	0.1 0.5 (-0.3)	31.7 26.9 (+4.8)
GDU Normal (Diff)	226 244 (-18)	674 655 (+18)	795 820 (-25)	799 741 (+57)	568 533 (+34)	388 250 (+137)	6 0 (+6)	3456 3245 (+210)



* First monthly total starts on the date 14 days prior to planting and final monthly total ends on the harvest date.

Note: Weather information from PRISM Climate Group. Data may be revised by the provider after retrieval. FIRST will not revise or update reports to reflect any weather data changes. For information purposes only.

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All-Season Test Products (78 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE2920	E3	R	2.9	CMBV,SA
Apex	AE3220	E3	R	3.2	CMBV,SA
Apex	AE3420	E3	R	3.4	CMBV,SA
Apex	AE3520	E3	R	3.5	CMBV,SA
Apex	AE3720S	E3,ST	R	3.6	CMBV,SA
Asgrow	AG30XF2 §	RXF	R	3.0	ACi,IL
Asgrow	AG35XF1 §	RXF	R	3.5	ACi
Asgrow	AG38XF1 §	RXF	R	3.8	ACi,IL
Chemgro	C3054E	E3	R	3.0	En
Chemgro	C3255XF	RXF	R	3.2	Untreated
Chemgro	C3354E	E3	NA	3.3	En
Chemgro	C3655E	E3	R	3.6	Untreated
Chemgro	C3755XF	RXF	R	3.7	Untreated
Credenz	CZ 2760GTLL	LLGT27	R	2.7	PV,IL,OB
Credenz	CZ 3099GTLL	LLGT27	R	3.1	PV,IL,OB
Credenz	CZ 3309GTLL	LLGT27	R	3.3	PV,IL,OB
Genesis	G2960E	E3	R	2.9	CMBV,SA
Genesis	G3260E	E3	R	3.2	CMBV,SA
Genesis	G3460E	E3	R	3.4	CMBV,SA
Genesis	G3560E	E3	R	3.5	CMBV,SA
Genesis	G3760ES	E3,ST	R	3.7	CMBV,SA
Hefty	H28XF2	RXF	NA	2.8	HCS
Hefty	H29XF1	RXF	NA	2.9	HCS
Hefty	H30XF2	RXF	NA	3.0	HCS
Hefty	H31XF2	RXF	NA	3.1	HCS
Hefty	H32XF2	RXF	NA	3.2	HCS
Hefty	H33XF2	RXF	NA	3.3	HCS
Hefty	H35XF1	RXF	NA	3.5	HCS
Hefty	H36XF2	RXF	NA	3.6	HCS
Hubner	H28-50XF	RXF	R	2.8	AC
Hubner	H29-19R2X	RRX	R	2.9	AC
Hubner	H30-42XF	RXF	R	3.0	AC
Hubner	H34-71XF	RXF	R	3.4	AC
Hubner	H35-31XF	RXF	R	3.5	AC
Local Seed	IS3371E3	E3	NA	3.3	RP
Local Seed	IS3715E3	E3	NA	3.7	RP
Local Seed	LS3019XF	RXF	NA	3.0	RP
Local Seed	LS3717XF	RXF	NA	3.7	RP
Mid-Atlantic	MAS2921E3	E3	NA	2.9	PS
Mid-Atlantic	MAS3021E3	E3	NA	3.0	PS
Mid-Atlantic	MAS3220E3	E3	NA	3.2	PS
Mid-Atlantic	MAS3521E3/STS	E3,ST	NA	3.5	PS

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Mid-Atlantic	MAS3600E3/STS	E3,ST	NA	3.6	PS
Mid-Atlantic	MAS3721E3/STS	E3,ST	NA	3.7	PS
Mid-Atlantic	MAS3884GT/LL/STS	LLGT27	NA	3.8	PS
NK Brand	NK28-T3XF	RXF	R	2.8	CMBV,SA
NK Brand	NK35-J6E3S §	E3,ST	MR	3.5	CMBV,SA
NK Brand	NK37-V4E3S §	E3,ST	MR	3.7	CMBV,SA
NK Brand	NK37-Z9XF §	RXF	R	3.7	CMBV,SA
Pioneer	P33A24X §	RRX	R	3.3	Untreated
Pioneer	P36A83X §	RRX	R	3.6	Untreated
Seed Consultants	SC 7302E	E3	NA	3.0	Lum,IL
Seed Consultants	SC 7311E	E3	NA	3.1	Lum,IL
Seed Consultants	SC 7322E	E3	NA	3.2	Lum,IL
Seed Consultants	SC 7341E	E3	NA	3.4	Lum,IL
Seed Consultants	SC 7372E	E3	NA	3.7	Lum,IL
Seed Consultants	SC 7381E	E3	NA	3.8	Lum,IL
Seedway	2832XT	RRX	R	2.8	AC
Seedway	2920E3	E3	R	2.9	AC
Seedway	3393E3	E3	MR	3.3	AC
Seedway	3433GTLL	LLGT27	R	3.4	AC
Stine	28EC32 §	E3	R	2.8	SFI
Stine	35EE32 §	E3	R	3.5	SFI
Stine	36EB32 §	E3	R	3.6	SFI
Xitavo	XO 2832E	E3	R	2.8	PV,IL,OB
Xitavo	XO 2921E	E3	R	2.9	PV,IL,OB
Xitavo	XO 3131E	E3	R	3.1	PV,IL,OB
Xitavo	XO 3341E	E3	R	3.3	PV,IL,OB
Xitavo	XO 3651E	E3	R	3.6	PV,IL,OB
Xitavo	XO 3752E	E3,ST	R	3.7	PV,IL,OB
Xitavo	XO 3861E	E3,ST	R	3.8	PV,IL,OB
Zinesto	Z2900E	E3	R	2.9	DST4,SA
Zinesto	Z2902E	E3	NA	2.9	PV,IL
Zinesto	Z3001E	E3	R	3.0	DST4,SA
Zinesto	Z3101E	E3	R	3.1	DST4,SA
Zinesto	Z3202E	E3	NA	3.2	DST4,SA
Zinesto	Z3402E	E3	NA	3.4	DST5
Zinesto	Z3602E	E3	NA	3.6	DST4,SA

Footnotes and Abbreviations Descriptions

Brand Footnotes

CK	Identifies a check product included in early- and full-season tests.
GC	Grower Comparison product included by FIRST when space permits.
§	United Soybean Board sponsored entry

Soybean Cyst Nematode (SCN) Resistance Rating

S	susceptible
MR	moderate resistance
R	resistant
n/a	info unavailable

Soybeans Technologies

E3	Enlist™ E3
LLGT27	LibertyLink® GT27®
RRX	Roundup Ready 2 Xtend®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
AC	Acceleron® unspecified
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
CMBV,SA	Cruisemaxx® Beans, Vibrance®, Salto®
DST4,SA	Dominance 4 ST,Saltro®
DST5	Dominance 5 ST
En	Encase, Excalibre-SA™
HCS	Hefty Complete Soybeans
Lum,IL	LumiGEN™ plus ILeVO
PS	MAS Pro-Shield
PV,IL	Poncho®/Votivo®, ILeVO
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
RP	Radius Premium (Local Seed Co)
SFI	Stine XP F&I
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.