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Conventional Soybean Performance Trials Summar

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2023 Conventional Soybean Performance Trials Summary

Conducted by Dr. Heather Darby and the University of Vermont Northwest Crops and Soils Program

Maturity range (00.9 – 2.2) of soybean varieties in Alburgh, VT

Planting Date: 26-May 2023 & Harvest Date: 10-October 2023



Company	Variety	Traits†	Relative maturity	Harvest moisture %	Yield at 13% moisture		Test weight lbs bu ⁻¹
					lbs ac ⁻¹	bu ac ⁻¹	
Brevant	B0090EE	ENLIST E3	0.9	14.3*	3179	53.0	56.2*
Seedway, LLC	SG 0643XTF	XtendFlex	0.6	14.4*	2958	49.3	57.3*
Seedway, LLC	SG 0720XT	RR2X	0.7	14.2*	3067	51.1	56.1*
Asgrow	AG07XF4	XtendFlex	0.7	13.9*	3466	57.8	57.2*
Brevant	B091EE	ENLIST E3	0.9	14.3*	3857*	64.3*	55.1
Seedway, LLC	SG 1023E3	ENLIST E3	1.0	14.4*	3720	62.0	55.3
Seedway, LLC	SG 1077	RR2X	1.0	14.4*	3380	56.3	56.4*
Asgrow	AG10XF4	XtendFlex	1.0	14.1*	3583	59.7	56.2*
Seedway, LLC	SG 1143XTF	XtendFlex	1.1	13.8 ‡	3743	62.4	56.4*
Brevant	B112EE	ENLIST E3	1.1	14.2*	3834*	63.9*	56.6*
Seedway, LLC	SG 1320E3	ENLIST E3	1.3	14.3*	4276*	71.3*	54.9
Brevant	B131EE	ENLIST E3	1.3	14.3*	3520	58.7	57.8
Seedway, LLC	SG 1432XTF	XtendFlex	1.4	14.2*	3728	62.1	56.7*
Nutrien Ag Solution	S14EN22	ENLIST E3	1.4	13.9*	4189*	69.8*	57.5*
Nutrien Ag Solution	S14XF43	XtendFlex	1.4	14.4*	3724	62.1	54.8
Asgrow	AG14XF4	XtendFlex	1.4	13.9*	3447	57.4	57.7*
Brevant	B152EE	ENLIST E3	1.5	14.4*	4397*	73.3*	55.9
Nutrien Ag Solution	S16EN42	ENLIST E3	1.6	14.2*	3483	58.0	55.9
Nutrien Ag Solution	S17XF02	XtendFlex	1.7	14.1*	3535	58.9	56.7*
Seedway, LLC	SG 1708GT/LL	GT LL	1.7	14.1*	3842*	64.0*	57.5*
Brevant	B173EE	ENLIST E3	1.7	15.4	3661	61.0	55.6
Seedway, LLC	SG 1822XTF	XtendFlex	1.8	15.8	3545	59.1	55.9
Nutrien Ag Solutions	S18EN52	ENLIST E3	1.8	13.9*	4420*	73.7*	54.7
Asgrow	AG18XF1	XtendFlex	1.8	14.0*	4487*	74.8*	56.6*
Seedway, LLC	SG 1922E3	ENLIST E3	1.9	15.1	4205*	70.1*	55.3
Asgrow	AG19XF3	XtendFlex	1.9	14.8	3616	60.3	56.0*
Asgrow	AG20XF1	XtendFlex	2.0	16.4	4354*	72.6*	53.7
Asgrow	AG21XF1	XtendFlex	2.1	15.8	4394*	73.2*	55.8
Asgrow	AG22XF3	XtendFlex	2.2	18.8	4622	77.0	53.2
		LSD (0.10) ‡		0.84	820	1.37	1.77
		Overall mean		14.6	3801	63.4	56.0

‡Values in **bold** indicate the top performer for the production metric and varieties with an asterisk * performed statistically similarly to the top performer.

‡LSD (0.10); least significant difference at p=0.10.

†Traits of soybean varieties planted in the 2023 variety evaluation trial.

ENLIST E3	Enlist E3™- tolerant to a new 2,4-D choline, glyphosate and glufosinate in a three-gene stack
GT LL	Glyphosate and glufosinate herbicide resistant
RR2X	Roundup Ready® 2 Xtend – glyphosate and dicamba herbicide resistance stacked with the RR2Y genes
XtendFlex	XtendFlex® - tolerance to dicamba, glyphosate, and glufosinate herbicides in a three-gene stack