MARITIME SOYBEAN VARIETY EVALUATION SUMMARY
2022

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ATLANTIC AGRITECH

Atlantic Grains Council

New Nouveau Brunswick

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Introduction

The purpose of these Maritime trials is to evaluate registered soybean varieties for their adaptability to Maritime growing conditions. Trials testing both RoundUp-Ready™ and conventional varieties were conducted at four sites in the Maritimes in 2022. The varieties tested were based on heat unit requirements to best fit the Maritime growing conditions. Seed companies were contacted and the varieties tested were the company's selections for the tests. All entries are presented in this report including some varieties not yet registered and/or available for commercial sale. In 2022 the RoundUp-Ready™ (RR) entries were divided into three tests by their Relative Maturity (RM)/ heat unit requirement(HU), RM 000.5-00.8 (~2200-2500 HU), RM 00.9-0.6 (~2525-2675 HU) and RM 0.7-1.1 (~2700-2850 HU). Conventional entries were divided into two tests RM 000.5-0.1 (~2200-2575 HU) and RM 0.3-1.1(~2600-2850 HU). Varieties are entered in the tests based on company's decisions and relative maturities provided by the company. Some varieties were tested in more than one test at the request and cost of the seed company. There were two sites in NS and one site each in NB and PEI. The longest maturity RR and Conventional tests, RR-RM 0.7-1.1 (~2725-2850 HU) & Conventional-RM 0.3-1.1(~2600-2850 HU),are not conducted at the NB site due to the likelihood of these varieties not reaching acceptable maturity at this site.

Trial setup, seed treating, seed packaging, data analysis and summary report preparation were carried out by Atlantic AgriTech Inc. Cruiser Maxx Vibrance Beans seed treatment provided by Syngenta to treat all seed is gratefully acknowledged.
Testing fees are collected and dispersed to coordinator and cooperators by the Atlantic Grains Council. Cooperators who were responsible for the planting, management, data collection and harvest of the trials at each of the sites is presented on the following page.

The participation of the following seed companies in the 2022 Maritime Soybean Tests is gratefully acknowledged: **ELITE/Maizex Seeds, Corteva Agri-Sciences – Pioneer & Brevant Seeds, Syngenta – NK Brand, PRIDE Seeds, Bayer Crop Science Inc. -DEKALB, Prograin, SeCan, SG Ceresco inc. , Saatbau Canada, Semican and Sevita International.**

A complete listing of all varieties tested with mean data from all sites is reported. Yield index tables with 1, 2 & 3 year mean yield index and a summary of key agronomic data for 2020-2022 are presented for each of the tests for the varieties tested in 2022. Individual site data for all 2022 tests is also included here. Yield data from trials which did not meet the established level for statistical coefficient of variation of <15% are not included in the either the combined site data or for individual sites. The analysis of composite samples from 4 reps of all varieties from all sites for oil and by NIR at AAFC in Charlottetown is gratefully acknowledged.

Summary tables listing all varieties tested in 2022 with seed available for the 2023 season were prepared including 1, 2 & 3 year mean yield index and 2020-2022 summary of agronomic data including plant height, hundred seed weight and days to maturity. Graphs with maturity vs yield were also provided for each trial. These tables and graphs along with a seed distributor list for each Maritime province were distributed to seed company representatives and extension persons in the Maritime Provinces, through Perennia in NS and the Departments of Agriculture in NB and PEI.

Cooperator Information

Location(s)	Cooperator(s)	Contact Information
Truro, NS	Claude Caldwell Yunfei Jiang Niran Foster	Dalhousie University Faculty of Agriculture PO Box 550 Truro, NS B2N 5E3 Phone: 902-986-1536 Email: claude.caldwell@dal.ca
Annapolis Valley, NS	Caitlin Congdon Jonathan Bent	Perennia 28 Aberdeen Street Kentville, NS B4N 2N1 Phone:902-698-9473 Email: ccongdon@perennia.ca
Harrington, PEI	Dan MacEachern, AAFC Chris Fleming, AAFC	Crops & Livestock Research Centre 440 University Avenue Charlottetown, P.E.I. C1A 4N6 Phone: 902-370-1427 Fax: 902-370-1444 Email: dan.maceachern@AGR.GC.CA chris.fleming@AGR.GC.CA
Hartland, NB	Peter Scott, NBDAAF Stephen Clain	NBDAAF PO Box 6000 Fredericton, NB E3B 5H1 Tel: (506) 453-2108 Fax: (506) 453-7978 Email: peter.scott@gnb.ca

Site Information

Site	Cooperator	Previous Crop	Seeding Date	Harvest Date
Truro, NS	**Dalhousie University Faculty of Agriculture** Claude Caldwell Yunfei Jiang Niran Foster	Soybean	**CL/CH**- May 19 **RRL-** May 20 **RRM-** May 19 **RRH-** May 20	**CL/CH –** Oct. 4 **RRL –** Sept. 22 **RRM –** Oct. 3 **RRH –** Oct. 4
Annapolis Valley, NS	**Perennia** Caitlin Congdon Jonathan Bent	Fall Rye Cover Crop	May 18	**CL –** Oct.11 **CH** - Oct. 12 **RRL/RRM–** Oct. 11 **RRH** – Oct. 12
Harrington, PEI	**AAFC** Dan MacEachern Chris Fleming	Winter wheat	May 24	**CL/CH** - Oct. 11 **RRL–** Oct. 11 **RRM/RRH** – Oct. 12
Hartland, NB	**NBDAAF** Peter Scott Stephen Clain	Barley	June 1	**CL/ RRL/RRM**- Oct. 11-13

Site Information(Cont.)

Site	Fertility	Herbicide
Truro, NS	250 kg/ha 19-19-19 May 4	**Conventional –** Lorox DF (1.75 kg/ha) + Dual II Magnum(1.15 L/ha) May 19 **RR -**RoundUp Weathermax (1.67 L/ha) June 20
Annapolis Valley, NS	None	**Conventional** – Valtera 140 g/ha May 23 **RR-** Valtera 140 g/ha May 23 + RoundUp 1.67 L/ha June 28
Harrington, PEI	400 kg/ha 5-20-20 + 150 kg/ha KMag + 100 kg/ha DAP Broadcast preplant	**Conventional & RoundUp Ready** Preemergent Lorox L (2 L/ha) + Dual II Magnum(1.2 L/ha) May 25 **RR** – Glyphosate (360 g/L) 2.5 L/ha July 15
Hartland, NB	Preplant - 40 kg/ ha N + 40 kg/ha K2O	**Conventional & RoundUp Ready** Preemergent Lorox L (3 L/ha) June 7 **RR** – RoundUp 2.5 L/ha June 29

2022 MARITIME ROUNDUP READY SOYBEAN Relative Maturity 000.5-0.1(2200-2500 HU)

Table 1: 2020-2022 Yield Data Roundup Ready Soybean Trials Relative Maturity 000.5-0.1 (~2200-2500 HU)

Variety	Seed Company	Relative Maturity	HU Req	3 Year		2 Year		2022	
				%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
Wolf R2X	ELITE (Maizex Seeds)	000.3	2100					87%	3768
S0007-S1X	Syngenta	000.7	2225			87%	3479	79%	3417
Badger R2X	ELITE (Maizex Seeds)	00.2	2325					99%	4298
PS 0011XRN	PRIDE Seeds	00.0	2300					89%	3859
S003-R5X	Syngenta	00.3	2325			93%	3722	101%	4370
DKB001-07	DEKALB	00.1	2325					94%	4043
S004-J7E3	Syngenta	00.4	2350					100%	4327
S007-A2XS	Syngenta	00.7	2400					114%	4918
P005A83X	Pioneer	00.5	2400			96%	3846	98%	4247
P005A59E	Pioneer	00.5	2400					93%	4004
B0061E	Brevant	00.6	2425					87%	3769
P006A37X	Pioneer	00.6	2425	95%	3489	96%	3847	99%	4296
S008-N2	Syngenta	00.8	2450	100%	3668	102%	4065	108%	4678
DKB006-80	DEKALB	00 6	2450			100%	3996	103%	4442
SI 007XTN	Sevita International	00.7	2450			96%	3841	96%	4158
PS 0072XR	PRIDE Seeds	00.7	2475					100%	4339
PS 0074R2	PRIDE Seeds	00.7	2475	109%	4024	115%	4585	115%	4988
DKB008-48	DEKALB	00 8	2475	104%	3812	105%	4203	106%	4585
ELMO E3	Prograin	00.7	2475	90%	3313	94%	3754	103%	4473
KUDO R2X	Prograin	00.6	2475	99%	3642	103%	4125	110%	4755
Fox E3	ELITE (Maizex Seeds)	00.9	2500					101%	4377
Bourke R2X	SEMICAN	00.4	2500					96%	4145
PS 0098XR	PRIDE Seeds	00.9	2500	107%	3917	111%	4429	110%	4741
S01-C4X	Syngenta	0.1	2525	102%	3764	106%	4251	111%	4777
BRONCO R2X	Prograin	0.0	2550	94%	3472	96%	3842	99%	4276
Means (kg/ha)					**3678**		**3999**		**4322**
Sites					**9**		**6**		**3***

**** 2022 Yield Data from Sites – Truro, NS; Harrington, PEI; Hartland , NB – Yield data for Annapolis Valley, NS > 15% CV***

Table 2: 2020-22 Agronomic Data Roundup Ready Soybean Trials Relative Maturity 000.5-0.1 (2200-2500 HU)

Variety	Relative Maturity	100 Seed Wt. (g)			Plant Height (cm)			Maturity – DTM*		
		3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean
Wolf R2X	000.3			19.4			66			114
S0007-S1X	000.7		16.2	17.2		61	59		115	113
Badger R2X	00.2			21.1			78			119
PS 0011XRN	00.0			17.4			67			114
S003-R5X	00.3		17.7	17.9		63	69		116	115
DKB001-07	00.1			17.2			76			120
S004-J7E3	00.4			16.4			66			116
S007-A2XS	00.7			15.9			83			120
P005A83X	00.5		20.1	20.1		68	70		116	117
P005A59E	00.5			20.5			67			116
B0061E	00.6			20.6			68			117
P006A37X	00.6	17.3	19.4	19.5	70	68	70	116	118	117
S008-N2	00.8	18.4	20.7	21	84	81	86	116	119	120
DKB006-80	00 6		18.5	18.4		76	77		120	120
SI 007XTN	00.7		21.8	22		68	70		121	121
PS 0072XR	00.7			20.3			78			119
PS 0074R2	00.7	15.1	16.7	16.9	80	81	82	118	120	121
DKB008-48	00 8	15.3	16.8	17.3	74	74	77	119	121	122
ELMO E3	00.7	14.1	14.9	15.5	70	71	77	117	119	121
KUDO R2X	00.6	16.1	17.7	18.1	78	79	82	117	119	118
Fox E3	00.9			17.9			68			120
Bourke R2X	00.4			18.6			80			119
PS 0098XR	00.9	15.4	16.8	17.2	72	72	74	119	121	120
S01-C4X	0.1	15.7	17.4	17.6	79	78	79	118	119	120
BRONCO R2X	0.0	17.9	19.7	19.7	77	77	77	118	121	121

**** Days To Maturity based on days to 95% Pod brown***

2021 Site Summaries Relative Maturity 000.5-0.1 (~2200-2500 HU)

2022 Roundup Ready Soybean Trial Relative Maturity 000.5-0.1 (2200-2500 HU)– Annapolis Valley, NS

Rating Type		Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Emergence		Maturity		Oil	Protein
Rating Unit		kg/ha		g		cm		cm		1-5		DAP		%	%
Entry #	Entry Name														
1	Wolf R2X			24.6	abc	51	cde	11	-	1	-	113		22.16	36.41
2	S0007-S1X			21.9	b-g	38	e	10	-	3	-	113		22.54	35.06
3	Badger R2X			24.3	a-e	54	b-e	10	-	2	-	124		20.07	37.3
4	PS 0011XRN			21.3	d-g	51	cde	9	-	2	-	117		20.93	37.61
5	S003-R5X			21.1	efg	54	cde	12	-	2	-	113		21.17	36.94
6	DKB001-07			20.1	g	60	a-d	9	-	2	-	124		21.64	36.02
7	S004-J7E3			21.9	b-g	46	de	11	-	2	-	120		21.22	35.37
8	S007-A2XS			19.1	g	69	abc	11	-	2	-	124		21.85	35.03
9	P005A83X			23.9	a-f	52	cde	10	-	2	-	113		21.19	36.27
10	P005A59E			25.8	a	55	b-e	9	-	1	-	124		21.6	35.77
11	B0061E			24.9	ab	50	cde	9	-	1	-	117		22.57	35.06
12	P006A37X			24.5	a-d	48	de	8	-	3	-	124		22.01	37.14
13	S008-N2			24.9	ab	58	a-e	11	-	1	-	120		21.96	36.92
14	DKB006-80			21.2	d-g	54	b-e	8	-	2	-	124		20.6	39.05
15	SI 007XTN			25.2	a	53	cde	8	-	2	-	124		22.22	35.87
16	PS 0072XR			23.7	a-f	51	cde	10	-	2	-	124		21.65	37.03
17	PS 0074R2			20.7	fg	73	ab	10	-	2	-	124		21.51	36.01
18	DKB008-48			20	g	59	a-d	10	-	2	-	128		21.87	34.86
19	ELMO E3			19.3	g	59	a-d	8	-	2	-	113		20.98	37.65
20	KUDO R2X			21	efg	74	a	12	-	2	-	124		21.46	35.03
21	Fox E3			22	b-g	51	cde	11	-	2	-	124		21.93	35.63
22	Bourke R2X			22	b-g	61	a-d	8	-	2	-	124		20.89	36.14
23	PS 0098XR			21.6	c-g	55	b-e	9	-	3	-	124		21.55	37.34
24	S01-C4X			21.4	d-g	66	a-d	8	-	1	-	117		20.44	37.1
25	BRONCO R2X			23.7	a-f	60	a-d	10	-	2	-	128		21.18	37.38
LSD P=.05				***1.88***		***11.1***		***2.9***		***1.2***		***.***		***.***	***.***
Standard Deviation				***1.14***		***6.7***		***1.7***		***0.7***		***.***		***.***	***.***
CV				***5.1***		***12***		***17.85***		***38.44***		***.***		***.***	***.***
Grand Mean				***22.41***		***56.1***		***9.8***		***1.9***		***121***		***20.89***	***37.07***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trial Relative Maturity 000.5-0.1 (2200-2500 HU)– Truro, NS

Rating Type		Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Emergence		Maturity		Oil	Protein
Rating Unit		kg/ha		g		cm		cm		1-5		DAP		%	%
Entry #	Entry Name														
1	Wolf R2X	3376	c	17.2	f-i	66	efg	12	a	4	-	109	h	20.43	36.37
2	S0007-S1X	3832	bc	17.1	f-i	60	g	9	a-d	3	-	110	g	21.8	35.74
3	Badger R2X	4434	abc	21	a	77	a-e	8	bcd	3	-	113	d	21.54	35.22
4	PS 0011XRN	4095	abc	17.3	f-i	69	c-g	8	cd	4	-	109	h	21.69	35.25
5	S003-R5X	4491	abc	17.7	d-h	65	fg	8	bcd	3	-	110	g	21.13	35.68
6	DKB001-07	4479	abc	17	g-j	77	a-e	9	a-d	4	-	112	e	21.19	35.51
7	S004-J7E3	4797	abc	14.9	lm	69	c-g	8	bcd	3	-	110	g	21.27	35.36
8	S007-A2XS	5358	ab	16.1	ijk	83	ab	11	ab	3	-	115	b	21.06	33.97
9	P005A83X	4736	abc	18.9	bcd	72	b-f	10	a-d	3	-	110	g	21.79	34.38
10	P005A59E	4371	abc	18.1	c-g	67	d-g	8	bcd	4	-	110	g	20.58	37.14
11	B0061E	4557	abc	19.1	bc	68	c-g	9	a-d	4	-	112	e	21.08	35.93
12	P006A37X	4989	ab	18.2	c-g	70	c-g	10	a-d	3	-	110	g	21.14	35.52
13	S008-N2	4699	abc	18.7	b-e	87	a	11	ab	4	-	114	c	22.27	34.71
14	DKB006-80	5134	ab	17.6	d-h	79	abc	11	abc	4	-	114	c	21.04	36.76
15	SI 007XTN	4817	abc	21.7	a	72	b-f	10	a-d	3	-	116	a	20.67	37.23
16	PS 0072XR	4701	abc	19.4	b	83	ab	10	a-d	3	-	114	c	20.63	36.16
17	PS 0074R2	5072	ab	14.9	lm	78	a-d	8	bcd	4	-	114	c	21.13	36.42
18	DKB008-48	5016	ab	15.9	jkl	80	abc	10	a-d	4	-	116	a	22.15	34.53
19	ELMO E3	5094	ab	14.7	m	80	abc	8	bcd	3	-	115	b	20.42	35.36
20	KUDO R2X	5178	ab	17.6	e-h	86	a	11	ab	4	-	111	f	20.92	37.35
21	Fox E3	5576	a	17	g-j	72	b-f	7	d	4	-	115	b	19.56	36.68
22	Bourke R2X	4276	abc	17.7	d-h	79	a-d	9	a-d	3	-	111	f	20.46	37.09
23	PS 0098XR	5137	ab	15.6	klm	77	a-e	8	bcd	3	-	115	b	21.05	35.98
24	S01-C4X	4956	ab	16.5	h-k	80	abc	8	bcd	3	-	115	b	20.77	35
25	BRONCO R2X	4132	abc	18.4	b-f	77	a-e	11	ab	4	-	116	a	21.13	38
LSD P=.05		***883.8***		***0.82***		***6.9***		***1.8***		***0.7***		***0.4***		**.**	**.**
Standard Deviation		***627***		***0.58***		***4.9***		***1.3***		***0.5***		***0.3***		**.**	**.**
CV		***13.36***		***3.31***		***6.52***		***13.98***		***15.57***		***0.27***		**.**	**.**
Grand Mean		***4692.1***		***17.52***		***74.9***		***9.3***		***3.4***		***112.7***		***21.076***	***35.894***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trial Relative Maturity 000.5-0.1 (2200-2500 HU)– Harrington, PEI

Rating Type / Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	Wolf R2X	3744	ef	18	bcd	49	d	9	ab	1	-	119	-	20.07	37.09
2	S0007-S1X	2827	g	14.2	ij	41	e	9	abc	1	-	117	-	19.78	37.57
3	Badger R2X	4007	b-e	18.8	bc	61	bcd	4	efg	1	-	125	-	20.26	37.65
4	PS 0011XRN	3878	c-f	15.6	gh	55	bcd	6	c-f	1	-	123	-	20.24	37.37
5	S003-R5X	4526	abc	15.6	gh	57	bcd	8	abc	1	-	120	-	20.27	37.74
6	DKB001-07	3830	def	15.5	ghi	55	bcd	5	d-g	1	-	129	-	19.79	37.84
7	S004-J7E3	4008	b-e	14.3	ij	53	bcd	5	d-g	1	-	123	-	20.21	37.24
8	S007-A2XS	4388	a-d	13.8	j	61	bcd	10	a	1	-	124	-	20.43	36.29
9	P005A83X	3405	f	18	bcd	54	bcd	5	d-g	1	-	124	-	20.13	37.11
10	P005A59E	3933	c-f	19.3	ab	53	cd	4	efg	1	-	122	-	20	37.93
11	B0061E	3426	f	19.2	ab	52	cd	5	d-g	1	-	124	-	20.11	37.01
12	P006A37X	4251	b-e	17.4	def	59	bcd	5	d-g	1	-	122	-	20.13	37.36
13	S008-N2	4425	a-d	20.2	a	77	a	5	d-g	1	-	126	-	20.14	37.57
14	DKB006-80	4429	a-d	17.6	cde	64	bc	5	d-g	1	-	127	-	19.82	37.58
15	SI 007XTN	4105	b-e	20.2	a	56	bcd	4	fg	1	-	128	-	19.86	38.53
16	PS 0072XR	4276	b-e	18.7	bc	64	bc	7	b-e	1	-	124	-	20.05	38.15
17	PS 0074R2	4904	a	15.5	ghi	66	bc	9	ab	1	-	128	-	20.07	38.2
18	DKB008-48	4465	a-d	16.4	efg	65	bc	9	abc	1	-	128	-	19.98	38.65
19	ELMO E3	3992	b-e	14.4	hij	53	bcd	4	fg	1	-	129	-	20.23	36.92
20	KUDO R2X	4453	a-d	16.2	fg	58	bcd	4	d-g	1	-	124	-	20.21	37.97
21	Fox E3	4304	a-e	16.9	d-g	53	bcd	7	bcd	1	-	128	-	19.74	38.26
22	Bourke R2X	4262	b-e	17.4	def	68	b	3	g	1	-	126	-	20.34	36.84
23	PS 0098XR	4592	ab	15.7	g	65	bc	4	efg	1	-	126	-	19.78	38.1
24	S01-C4X	4321	a-e	15.8	g	59	bcd	7	bcd	1	-	127	-	20.41	38.09
25	BRONCO R2X	4332	a-e	17.4	def	63	bcd	8	abc	1	-	127	-	19.97	39.33
LSD P=.05		***360.1***		***0.89***		***8.1***		***1.6***		***.***		***.***		***0.836***	***1.825***
Standard Deviation		***255.5***		***0.63***		***5.8***		***1.2***		***0***		***0***		***0.593***	***1.295***
CV		***6.2***		***3.74***		***9.9***		***19.04***		***0***		***0***		***2.95***	***3.43***
Grand Mean		***4123.4***		***16.88***		***58.4***		***6.1***		***1***		***124.8***		***20.079***	***37.694***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trial Relative Maturity 000.5-0.1 (2200-2500 HU)– Hartland, NB

Rating Type Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	Wolf R2X	4184	a-d	19.1	cd	93	fg					114	def	19.08	35.77
2	S0007-S1X	3591	cd	16.6	fgh	90	g					112	ef	20.07	35.47
3	Badger R2X	4451	a-d	21.2	a	113	ab					119	abc	19.37	36.54
4	PS 0011XRN	3602	cd	15.6	gh	89	g					111	f	19.35	35.47
5	S003-R5X	4094	a-d	17.8	def	97	d-g					115	c-f	19.09	37.62
6	DKB001-07	3821	a-d	17	efg	108	a-f					118	abc	19.34	35.91
7	S004-J7E3	4177	a-d	15.6	gh	91	g					114	c-f	19.15	37.13
8	S007-A2XS	5008	ab	15.1	h	115	a					119	abc	19.93	34.59
9	P005A83X	4600	a-d	20.6	abc	98	c-g					117	a-d	18.93	37.23
10	P005A59E	3707	a-d	20.1	abc	90	g					115	b-e	18.38	38.46
11	B0061E	3323	d	20.2	abc	96	d-g					114	c-f	18.11	39.29
12	P006A37X	3648	bcd	19.2	bcd	97	c-g					119	abc	18.93	36.58
13	S008-N2	4911	abc	21.7	a	115	a					120	ab	20.34	36.55
14	DKB006-80	3764	a-d	17.6	def	103	a-g					119	abc	19.1	37.83
15	SI 007XTN	3552	cd	21.1	a	94	fg					119	abc	18.36	38.25
16	PS 0072XR	4040	a-d	20.3	abc	109	a-e					118	abc	19.14	37.29
17	PS 0074R2	4987	ab	18	def	110	a-d					119	abc	19.62	38.15
18	DKB008-48	4273	a-d	17.6	def	100	b-g					121	a	19.68	34.8
19	ELMO E3	4331	a-d	13.9	i	111	abc					121	a	19.22	35.3
20	KUDO R2X	4635	a-d	18.6	de	108	a-e					119	abc	18.65	37.75
21	Fox E3	3251	d	15.8	gh	93	fg					118	a-d	17.75	38.11
22	Bourke R2X	3896	a-d	18	def	106	a-f					118	abc	18.59	37.12
23	PS 0098XR	4495	a-d	16.8	fg	95	efg					119	abc	19.38	36.74
24	S01-C4X	5053	a	17.9	def	107	a-f					119	abc	18.24	37.49
25	BRONCO R2X	4365	a-d	20.8	ab	105	a-f					119	abc	18.94	39.3
LSD P=.05		***750.5***		***1.07***		***8.5***						***2.8***		**.**	**.**
Standard Deviation		***532.4***		***0.52***		***6***						***2***		**.**	**.**
CV		***12.83***		***2.85***		***5.92***						***1.72***		**.**	**.**
Grand Mean		***4150.4***		***18.22***		***101.3***						***117.3***		***19.07***	***36.99***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trials Relative Maturity 00.9-0.6 (~2525-2675 HU)

Table 1: 2020-2022 Yield Data Roundup Ready Soybean Trials Relative Maturity 00.9-0.6 (~2525-2675 HU)

Variety	Seed Company	Relative Maturity	HU Req	3 Year		2 Year		2022	
				%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
S01-C4X	Syngenta	0.1	2525	94%	3854	100%	4211	113%	4558
S02-M4XF	Syngenta	0.2	2525			88%	3719	91%	3691
PRO 2525R2	Sevita International	0.0	2525			92%	3885	92%	3736
B0099B1	Brevant	0.3	2600	98%	4017	99%	4175	101%	4097
LS008R21	Sevita International	0.1	2550	95%	3877	97%	4069	104%	4218
Grizzly R2X	ELITE (Maizex Seeds)	0.2	2575			100%	4213	101%	4071
Boa E3	ELITE (Maizex Seeds)	0.3	2600					82%	3302
S03-V5E3	Syngenta	0.3	2575					105%	4232
PRO 03X74	Sevita International	0.3	2575	103%	4191	105%	4440	108%	4358
SVX0222E3N	Sevita International	0.2	2575					79%	3185
RICO R2X	Prograin	0.1	2575	101%	4119	103%	4340	106%	4304
Cobra R2X	ELITE (Maizex Seeds)	0.3	2600			103%	4349	106%	4287
DONALDO R2X	Prograin	0.2	2600	90%	3693	90%	3809	94%	3799
EMILIO E3	Prograin	0.2	2600			95%	4015	99%	4001
P03A11X	Pioneer	0.3	2600				3944	95%	3834
B036CE	Brevant	0.3	2600					93%	3759
Stingray R2X	ELITE (Maizex Seeds)	0.4	2625	97%	3952	101%	4254	103%	4180
S04-J6X	Syngenta	0.4	2625	104%	4262	107%	4491	109%	4396
PS 0322EN	PRIDE Seeds	0.3	2625					89%	3601
DKB06-76	DEKALB	0.3	2625					103%	4181
SALTO R2	Prograin	0.4	2625	100%	4078	101%	4268	103%	4183
PS 0420XRN	PRIDE Seeds	0.4	2650					89%	3581
P05A35X	Pioneer	0.5	2650	100%	4102	102%	4305	96%	3886
Graves E3	SeCan	0.5	2675					91%	3676
S06-A3XF	Syngenta	0.6	2675					99%	4002
PS 0521XRN	PRIDE Seeds	0.5	2675			102%	4306	105%	4242
SI 0620XTN	Sevita International	0.6	2675			109%	4599	112%	4546
P06A48X	Pioneer	0.6	2675			100%	4202	97%	3930
S07-K5X	Syngenta	0.7	2700	102%	4154	102%	4299	107%	4328
EXP07-22E3	Syngenta	0.7	2700			90%	3786	94%	3786
DKB03-25	DEKALB	0.6	2700	106%	4315	107%	4524	112%	4542
NANO R2X	Prograin	0.6	2700	98%	4016	98%	4111	98%	3972
VERTIGO R2	Prograin	0.8	2750	103%	4213	105%	4413	107%	4325
MIKO R2	Prograin	0.8	2750	108%	4395	110%	4648	115%	4649
Means (kg/ha)					**4083**		**4215**		**4042**
Sites					**8-17**		**7-13**		**4**

Table 2: 2020-2022 Agronomic Data Roundup Ready Soybean Trials Relative Maturity 00.9-0.6 (~2525-2675 HU)

Variety	Relative Maturity	100 Seed Wt. (g)			Plant Height (cm)			Maturity – DTM*		
		3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean
S01-C4X	0.1	15.7	17.1	17.4	76	76	77	119	122	121
S02-M4XF	0.2		16.9	17.3		68	69		124	121
PRO 2525R2	0.0		19.6	20.1		82	82		127	124
B0099B1	0.3	18.0	19.2	19	70	71	74	126	128	126
LS008R21	0.1	17.2	19.1	19.2	74	75	78	121	126	123
Grizzly R2X	0.2		17.9	18.1		61	61		128	124
Boa E3	0.3			18.3			64			125
S03-V5E3	0.3			16.7			71			126
PRO 03X74	0.3	16.0	17.3	17.6	74	73	74	124	127	122
SVX0222E3N	0.2			18.1			59			124
RICO R2X	0.1	15.0	16.1	16.4	70	70	72	121	125	122
Cobra R2X	0.3		17.2	17.3		71	73		127	124
DONALDO R2X	0.2	15.5	16.5	16.4	69	71	72	122	126	123
EMILIO E3	0.2		16.2	16.1		73	75		128	124
P03A11X	0.3		17.6	16.9		67	67		130	126
B036CE	0.3			16.9			70			125
Stingray R2X	0.4	15.9	17.1	17.5	71	75	77	126	129	125
S04-J6X	0.4	15.2	16.2	16.2	73	78	78	126	128	125
PS 0322EN	0.3			15.8			66			124
DKB06-76	0.3			18.8			76			126
SALTO R2	0.4	15.6	17.0	17.2	69	69	70	125	127	124
PS 0420XRN	0.4			17.7			69			126
P05A35X	0.5	18.4	19.5	19.4	65	69	70	128	130	127
Graves E3	0.5			17.9			72			126
S06-A3XF	0.6			18.3			72			127
PS 0521XRN	0.5		17.5	17.6		77	78		129	126
SI 0620XTN	0.6		16.6	16.8		80	81		130	126
P06A48X	0.6		16.8	16.1		71	72		131	127
S07-K5X	0.7	18.1	19.1	18.8	75	79	79	126	127	127
EXP07-22E3	0.7		17.1	17.1		63	63		129	129
DKB03-25	0.6	16.8	18.1	18.4	80	82	85	126	128	126
NANO R2X	0.6	16.7	17.4	17	75	76	75	127	128	128
VERTIGO R2	0.8	16.6	17.8	17.3	74	78	76	127	128	128
MIKO R2	0.8	17.5	18.9	18.6	77	79	80	128	130	128

**** Days To Maturity based on days to 95% Pod brown***

2022 Site Summaries RR Relative Maturity 00.9-0.6 (~2525-2675 HU)

2022 Roundup Ready Soybean Trials Relative Maturity 00.9-0.6 (~2525-2675 HU)– Annapolis Valley, NS

Rating Type Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	S01-C4X	4240	a-e	20.2	cde	56	-	11	ab	2	bc	124		20.75	35.73
2	S02-M4XF	2896	cde	21.3	a-e	51	-	9	ab	2	abc	124		21.47	35.55
3	PRO 2525R2	3394	a-e	23.6	a	66	-	13	a	2	bc	128		21.32	35.48
4	B0099B1	3640	a-e	20.7	b-e	58	-	8	ab	2	bc	134		21.58	35.76
5	LS008R21	3606	a-e	22.4	a-d	65	-	11	ab	1	c	131		21.06	37.21
6	Grizzly R2X	2964	b-e	21.7	a-e	46	-	8	ab	2	bc	128		22.32	34.42
7	Boa E3	2546	de	21.7	a-e	50	-	10	ab	4	a	124		21.36	34.92
8	S03-V5E3	4408	a-d	20.1	cde	58	-	10	ab	2	bc	131		20.74	35.15
9	PRO 03X74	3648	a-e	20.3	b-e	54	-	8	ab	2	abc	124		20.99	35.95
10	SVX0222E3N	2113	e	21.9	a-e	44	-	6	b	4	a	128		22.03	34.53
11	RICO R2X	4134	a-e	20.5	b-e	61	-	13	a	2	bc	124		21.31	35.69
12	Cobra R2X	4023	a-e	19.4	de	62	-	9	ab	1	c	131		21.62	33.77
13	DONALDO R2X	3068	a-e	20.6	b-e	54	-	9	ab	2	bc	128		20.39	36.45
14	EMILIO E3	3578	a-e	19.2	e	55	-	9	ab	2	bc	134		21.36	35.33
15	P03A11X	3789	a-e	20.8	b-e	52	-	9	ab	2	bc	134		22.21	34.81
16	B036CE	3440	a-e	19.7	de	55	-	8	ab	2	abc	131		22.15	34.38
17	Stingray R2X	4224	a-e	20.8	b-e	59	-	11	ab	1	c	128		19.66	37.54
18	S04-J6X	4608	a-d	19.8	de	63	-	7	ab	2	abc	128		20.06	36.82
19	PS 0322EN	3068	a-e	19.5	de	46	-	8	ab	2	bc	134		20.41	36.26
20	DKB06-76	4171	a-e	22.1	a-e	65	-	12	ab	2	bc	131		21.43	33.92
21	SALTO R2	3610	a-e	20.7	b-e	51	-	8	ab	2	abc	131		21.91	34.19
22	PS 0420XRN	2914	cde	19.7	de	51	-	10	ab	3	abc	131		21.57	35.02
23	P05A35X	3239	a-e	23.2	ab	51	-	8	ab	2	bc	134		21.11	35.71
24	Graves E3	4134	a-e	21.5	a-e	55	-	8	ab	3	abc	134		20.8	36.12
25	S06-A3XF	4274	a-e	21.6	a-e	66	-	8	ab	2	bc	134		20.44	37.13
26	PS 0521XRN	4333	a-d	21.6	a-e	65	-	9	ab	2	bc	134		20.11	37.52
27	SI 0620XTN	4994	abc	20.2	cde	69	-	9	ab	2	abc	131		20.29	36.23
28	P06A48X	3114	a-e	20.5	b-e	51	-	8	ab	2	abc	134		21.26	34.94
29	S07-K5X	5164	ab	22.9	abc	74	-	11	ab	1	c	134		19.87	37.97
30	EXP07-22E3	3959	a-e	20.1	cde	53	-	9	ab	3	ab	138		20.8	34.21
31	DKB03-25	4476	a-d	22.3	a-d	65	-	9	ab	3	abc	131		21.56	35.28
32	NANO R2X	3577	a-e	19.7	de	55	-	7	ab	1	c	134		21.37	34.91
33	VERTIGO R2	4044	a-e	20.6	b-e	52	-	9	ab	1	c	134		20.87	35.55
34	MIKO R2	5267	a	22.2	a-d	66	-	10	ab	2	bc	134		20.61	36.38
LSD P=.05		***1090.7***		***1.54***		***15.1***		***3.2***		***0.8***		***.***		***.***	***.***
Standard Deviation		***668.1***		***0.94***		***9.2***		***2***		***0.5***		***.***		***.***	***.***
CV		***17.74***		***4.49***		***16.13***		***21.25***		***24.32***		***.***		***.***	***.***
Grand Mean		***3766.8***		***20.97***		***57.3***		***9.2***		***2.1***		***130.8***		***21.082***	***35.613***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trials Relative Maturity 00.9-0.6 (~2525-2675 HU)– Truro, NS

Rating Type		Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Emergence		Maturity		Oil	Protein
Rating Unit		kg/ha		g		cm		cm		1-5		DAP		%	%
Entry #	Entry Name														
1	S01-C4X	4163	ab	16.4	ab	77	b-f	9	bc	4	a-d	116	k	21.49	34.42
2	S02-M4XF	3479	ab	16.5	ab	74	b-g	9	c	3	b-e	116	k	21.48	35.48
3	PRO 2525R2	3035	b	19.2	a	83	a-d	13	abc	3	b-e	122	f	20.74	36.05
4	B0099B1	3993	ab	18.2	a	75	b-g	12	abc	4	abc	123	e	21.62	35.04
5	LS008R21	3418	ab	17.7	a	76	b-f	11	abc	4	ab	117	j	20.56	36.64
6	Grizzly R2X	3622	ab	17.6	a	62	gh	10	abc	3	b-e	125	c	21.88	36.2
7	Boa E3	3906	ab	18.1	a	69	d-h	10	abc	2	cde	125	c	20.47	36.35
8	S03-V5E3	4657	ab	16.1	ab	74	b-g	10	abc	4	a-d	125	c	20.48	36.51
9	PRO 03X74	4406	ab	16.8	ab	76	b-f	9	bc	2	cde	119	h	21.11	36.08
10	SVX0222E3N	4005	ab	17.9	a	60	h	9	bc	2	e	119	h	20.28	36.19
11	RICO R2X	4077	ab	15.6	ab	74	b-g	11	abc	3	b-e	118	i	21.2	34.28
12	Cobra R2X	4226	ab	17.2	ab	72	b-g	11	abc	5	a	120	g	20.99	34.98
13	DONALDO R2X	3519	ab	13.5	b	72	b-g	10	abc	3	cde	119	h	21.06	35.5
14	EMILIO E3	4825	a	15.7	ab	78	b-f	11	abc	3	cde	119	h	21.37	35.02
15	P03A11X	3597	ab	15.7	ab	68	fgh	10	abc	3	b-e	126	b	21.73	34.97
16	B036CE	3931	ab	16.7	ab	76	b-f	11	abc	3	a-d	125	c	20.75	36.36
17	Stingray R2X	3943	ab	16.3	ab	79	b-f	11	abc	3	a-d	124	d	20.22	36.66
18	S04-J6X	4484	ab	15.4	ab	82	a-f	13	abc	2	cde	124	d	18.76	39.19
19	PS 0322EN	4384	ab	15.7	ab	69	d-h	9	abc	3	cde	118	i	19.92	36.79
20	DKB06-76	4282	ab	17.9	a	78	b-f	13	abc	4	a-d	125	c	21.35	35.57
21	SALTO R2	3738	ab	16.3	ab	70	c-h	11	abc	3	a-d	119	h	20.41	35.8
22	PS 0420XRN	3748	ab	17.5	a	73	b-g	13	abc	3	cde	125	c	20.76	34.99
23	P05A35X	3258	ab	18.6	a	74	b-g	12	abc	3	b-e	127	a	21.65	34.56
24	Graves E3	3935	ab	17.5	a	74	b-g	11	abc	3	cde	125	c	21.19	35.74
25	S06-A3XF	4042	ab	17.8	a	75	b-g	11	abc	2	cde	126	b	20.45	36.71
26	PS 0521XRN	3724	ab	16.7	ab	79	b-f	11	abc	2	cde	125	c	20.57	35.29
27	SI 0620XTN	4962	a	17	ab	86	ab	14	ab	3	b-e	125	c	21.14	35.28
28	P06A48X	4596	ab	15.6	ab	78	b-f	15	a	3	b-e	126	b	21.07	34.4
29	S07-K5X	4040	ab	17.2	ab	85	abc	12	abc	3	b-e	125	c	20.26	37.04
30	EXP07-22E3	4266	ab	17	ab	68	e-h	10	abc	3	b-e	126	b	20.38	35.49
31	DKB03-25	4200	ab	16.9	ab	83	a-e	11	abc	2	de	125	c	21.42	34.91
32	NANO R2X	4259	ab	15.9	ab	79	b-f	12	abc	3	b-e	127	a	21.27	36.07
33	VERTIGO R2	4390	ab	17	ab	83	a-d	11	abc	4	a-d	127	a	19.91	35.82
34	MIKO R2	4376	ab	18.1	a	91	a	14	abc	3	b-e	124	d	20.69	34.56
LSD P=.05		*886.3*		*2.07*		*7.6*		*2.8*		*0.8*		*0.5*		.	.
Standard Deviation		*631.7*		*1.48*		*5.4*		*2*		*0.6*		*0.4*		.	.
CV		*15.62*		*8.76*		*7.15*		*18.25*		*20.47*		*0.31*		.	.
Grand Mean		*4043.7*		*16.84*		*75.6*		*11.1*		*2.9*		*122.8*		*20.842*	*35.734*

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trials Relative Maturity 00.9-0.6 (~2525-2675 HU)– Harrington, PEI

Rating Type		Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Emergence		Maturity		Oil	Protein
Rating Unit		kg/ha		g		cm		cm		1-5		DAP		%	%
Entry #	Entry Name														
1	S01-C4X	4560	a-f	15.5	h-l	63	abc	4	fgh	1	-	127	-	19.32	37.19
2	S02-M4XF	4096	fgh	15.7	h-l	57	c	6	b-g	1	-	126	-	19.84	37.24
3	PRO 2525R2	4686	a-f	18.8	a	65	abc	5	e-h	1	-	128	-	19.26	39.11
4	B0099B1	4792	a-d	17.9	abc	68	abc	8	ab	1	-	129	-	20.01	37.48
5	LS008R21	5171	a	18.3	ab	65	abc	8	ab	1	-	128	-	19.6	39.54
6	Grizzly R2X	4745	a-e	16.1	f-j	58	bc	5	e-h	1	-	128	-	20.04	37.53
7	Boa E3	3700	hi	16.7	d-h	56	c	6	b-f	1	-	129	-	18.49	39.15
8	S03-V5E3	4380	def	14.9	j-m	59	bc	7	a-e	1	-	129	-	18.64	39.53
9	PRO 03X74	4848	a-d	16.3	d-i	62	abc	7	b-e	1	-	128	-	19.13	37.37
10	SVX0222E3N	3595	i	16.1	e-j	55	c	6	b-g	1	-	129	-	18.97	38.81
11	RICO R2X	4360	d-g	14.1	mno	64	abc	8	ab	1	-	127	-	19.72	36.92
12	Cobra R2X	4861	a-d	15.8	g-l	63	abc	7	b-e	1	-	129	-	19.59	36.85
13	DONALDO R2X	4263	d-g	15.5	h-l	65	abc	3	h	1	-	127	-	19.3	37.22
14	EMILIO E3	4090	fgh	14.7	lmn	63	abc	4	gh	1	-	129	-	19.62	37.72
15	P03A11X	4544	a-f	16	f-k	63	abc	4	gh	1	-	129	-	20.53	35.14
16	B036CE	4310	d-g	15.8	g-l	61	bc	8	a-d	1	-	129	-	19.56	38.31
17	Stingray R2X	4427	c-f	16.2	e-j	66	abc	8	a-d	1	-	128	-	19.2	39.1
18	S04-J6X	4471	c-f	14.7	k-n	62	abc	6	b-g	1	-	128	-	18.84	39.29
19	PS 0322EN	3580	i	13.5	o	58	bc	8	abc	1	-	128	-	18.72	39.15
20	DKB06-76	4617	a-f	17.4	bcd	64	abc	5	d-g	1	-	129	-	19.6	37.59
21	SALTO R2	4553	a-f	15.4	h-l	65	abc	7	a-d	1	-	129	-	20.49	36.38
22	PS 0420XRN	4269	d-g	16.7	d-h	60	bc	7	a-d	1	-	130	-	19.84	37.59
23	P05A35X	4812	a-d	17.2	c-f	62	bc	9	a	1	-	129	-	20.26	37.12
24	Graves E3	3824	ghi	16.6	d-h	61	bc	8	a-d	1	-	129	-	19.37	39.21
25	S06-A3XF	4503	b-f	16.9	c-g	66	abc	9	a	1	-	131	-	19.35	39.49
26	PS 0521XRN	4790	a-d	16	f-j	67	abc	6	b-e	1	-	129	-	19.21	38.53
27	SI 0620XTN	4646	a-f	15.1	i-m	70	abc	6	b-g	1	-	129	-	18.92	38.42
28	P06A48X	4544	a-f	13.8	no	62	abc	5	d-g	1	-	131	-	19.89	36.22
29	S07-K5X	4785	a-d	18	abc	68	abc	5	c-g	1	-	129	-	19.3	39.53
30	EXP07-22E3	4145	e-h	14.9	j-m	56	c	6	b-f	1	-	130	-	18.99	37.81
31	DKB03-25	4765	a-e	17.3	b-e	77	a	7	a-e	1	-	128	-	19.87	36.77
32	NANO R2X	4644	a-f	15.6	h-l	67	abc	8	a-d	1	-	131	-	18.85	39.07
33	VERTIGO R2	5024	abc	15.7	h-l	67	abc	9	a	1	-	131	-	18.63	38.7
34	MIKO R2	5121	ab	17	c-g	73	ab	7	a-e	1	-	131	-	20.69	37.92
LSD P=.05		*344.8*		*0.73*		*8*		*1.3*		*.*		*.*			
Standard Deviation		*245.7*		*0.52*		*5.7*		*0.9*		*0*		*0*			
CV		*5.48*		*3.25*		*8.96*		*13.89*		*0*		*0*			
Grand Mean		*4485.9*		*16.06*		*63.4*		*6.5*		*1*		*128.9*		*19.421*	*38.029*

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trials Relative Maturity 00.9-0.6 (~2525-2675 HU)– Hartland,NB

Rating Type		Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Emergence		Maturity		Oil	Protein
Rating Unit		kg/ha		g		cm		cm		1-5		DAP		%	%
Entry #	Entry Name														
1	S01-C4X	4392	abc	17.1	cde	103	abc					121	a-d	17.93	37.43
2	S02-M4XF	4095	a-f	16.4	c-h	89	c-i					120	bcd	20	35.1
3	PRO 2525R2	3743	a-g	19.5	ab	111	ab					122	abc	18.47	37.16
4	B0099B1	3847	a-g	20.4	a	90	c-i					124	abc	18.54	37.19
5	LS008R21	4525	ab	19.5	ab	100	a-d					121	a-d	19.49	37.63
6	Grizzly R2X	4392	abc	17.8	cd	73	jk					119	cd	19.82	35.42
7	Boa E3	2868	fg	16.7	c-h	78	h-k					122	abc	18.33	36.88
8	S03-V5E3	3525	a-g	16.3	d-h	88	c-i					122	abc	17.97	38.2
9	PRO 03X74	4352	abc	17.6	cd	99	a-e					120	bcd	18.51	36.23
10	SVX0222E3N	2759	g	17	c-f	73	k					122	abc	18.35	37.39
11	RICO R2X	4603	ab	16.7	c-g	86	d-k					120	bcd	19.62	35.8
12	Cobra R2X	3971	a-g	17.6	cd	90	c-i					122	abc	19.04	35.38
13	DONALDO R2X	4164	a-e	17.7	cd	94	c-g					122	abc	18.25	36.48
14	EMILIO E3	3406	b-g	14.9	hi	97	b-f					122	abc	18.94	37.2
15	P03A11X	3376	b-g	15.7	e-i	82	f-k					122	abc	20.09	33.94
16	B036CE	3274	c-g	15.2	ghi	83	e-k					118	d	18.53	36.47
17	Stingray R2X	4136	a-e	17.7	cd	99	a-e					123	abc	18.88	36.36
18	S04-J6X	4194	a-d	15.3	f-i	100	a-d					123	abc	18.64	35.65
19	PS 0322EN	3240	c-g	15.1	ghi	86	d-j					123	abc	18.19	38.85
20	DKB06-76	3654	a-g	18.3	bc	94	c-g					123	abc	18.55	36.26
21	SALTO R2	4689	a	17.5	cd	88	c-i					123	abc	20	34.83
22	PS 0420XRN	3228	c-g	17.2	cde	87	d-i					123	abc	19.33	35.32
23	P05A35X	4074	a-f	20	a	88	c-i					124	abc	19.11	35.69
24	Graves E3	2923	efg	16.3	d-h	92	c-h					123	abc	18.31	37.51
25	S06-A3XF	3259	c-g	17.2	cde	81	g-k					124	ab	18.24	37.23
26	PS 0521XRN	4142	a-e	16.6	c-h	98	a-e					123	abc	18.53	36.53
27	SI 0620XTN	3693	a-g	14.5	i	96	c-g					122	abc	18.11	37.06
28	P06A48X	3263	c-g	14.9	hi	91	c-h					123	abc	18.42	35.09
29	S07-K5X	3895	a-g	19.4	ab	100	a-d					124	ab	18.32	38.09
30	EXP07-22E3	2867	fg	14.4	i	76	ijk					124	ab	17.9	36.74
31	DKB03-25	4711	a	17.9	cd	112	a					123	abc	18.8	35.95
32	NANO R2X	3083	d-g	15.1	ghi	100	a-d					124	abc	18.9	35.85
33	VERTIGO R2	3771	a-g	16.4	c-h	94	c-g					124	abc	18.94	34.99
34	MIKO R2	3988	a-g	16.8	c-g	96	c-g					125	a	18.82	36.1
LSD P=.05		***670.3***		***1.03***		***8.5***						***2.2***		**.**	**.**
Standard Deviation		***477.7***		***0.51***		***6.1***						***1.6***		**.**	**.**
CV		***12.68***		***3***		***6.64***						***1.31***		**.**	**.**
Grand Mean		***3767.7***		***16.94***		***91.6***						***122.3***		***18.761***	***36.412***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trials Relative Maturity 0.7-1.1 (~2700-2850 HU)

Table 1: 2020-2022 Yield Data Roundup Ready Soybean Trials Relative Maturity 0.7-1.1 (~2700-2850 HU)

Variety	Seed Company	Relative Maturity	HU Req	3 Year		2 Year		2022	
				%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
Lion R2X	ELITE (Maizex Seeds)	0.6	2675					98%	4162
S07-K5X	Syngenta	0.7	2700	101%	4154	99%	4299	102%	4328
EXP07-22E3	Syngenta	0.7	2700					89%	3786
NANO R2X	Prograin	0.6	2700	98%	4016	95%	4111	94%	3972
Amino R2X	Prograin	0.6	2700			90%	3907	89%	3765
Viper R2X	ELITE (Maizex Seeds)	0.8	2725			108%	4691	109%	4619
DKB07-59XF	DEKALB	0.7	2725					107%	4545
Altitude R2	SeCan	0.6	2725	100%	4083	102%	4428	110%	4651
ELICO E3	Prograin	0.7	2725			93%	4015	104%	4398
B091FE	Brevant	0.8	2725	99%	4066	104%	4527	104%	4386
PS 0779XRN	PRIDE Seeds	0.7	2750	98%	4000	101%	4391	109%	4605
DKB08-80	DEKALB	0.8	2750					95%	4031
ENYO E3	Prograin	0.8	2750	95%	3910	97%	4201	98%	4162
MIKO R2	Prograin	0.8	2750	107%	4395	107%	4648	110%	4649
P09A62X	Pioneer	0.9	2750	99%	4057	102%	4410	103%	4365
S09-H7E3	Syngenta	0.9	2775					92%	3911
Beliveau R2X	SeCan	0.9	2775	103%	4230	107%	4627	113%	4803
Pico R2X	Prograin	0.9	2775			96%	4148	95%	4007
B119KE	Brevant	1.1	2800					80%	3377
S12-M5X	Syngenta	1.2	2825					111%	4695
NEO R2X	Prograin	1.1	2825	100%	4100	100%	4346	99%	4180
P12T94E	Pioneer	1.2	2825					89%	3769
Means (kg/ha)					**4101**		**4339**		**4235**
Sites					**8-16**		**6-13**		**3**

Table 2: 2020-2022 Agronomic Data Roundup Ready Soybean Trials Relative Maturity 0.7-1.1 (~2725-2850 HU)

Variety	Relative Maturity	100 Seed Wt. (g)			Plant Height (cm)			Maturity – DTM*		
		3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean
Lion R2X	0.6			18.1			70			129
S07-K5X	0.7	18.1	19.1	18.8	75	79	79	126	127	127
EXP07-22E3	0.7			17.1			63			129
NANO R2X	0.6	16.7	17.4	17	75	76	75	127	128	128
Amino R2X	0.6		18.8	18.5		67	66		128	128
Viper R2X	0.8		18.9	17.9		71	71		129	129
DKB07-59XF	0.7			15.9			75			131
Altitude R2	0.6	18.3	20.5	20.8	67	70	68	126	129	129
ELICO E3	0.7		17.7	17.4		70	70		131	131
B091FE	0.8	17.2	18.2	17.3	68	72	70	130	132	132
PS 0779XRN	0.7	15.3	16.6	15.8	75	78	77	128	130	130
DKB08-80	0.8			18.5			73			130
ENYO E3	0.8	16.2	17.5	16.6	69	73	72	130	132	131
MIKO R2	0.8	17.5	18.9	18.6	77	79	80	128	130	128
P09A62X	0.9	18.1	19.5	18.5	67	72	72	128	130	132
S09-H7E3	0.9			16.9			67			132
Beliveau R2X	0.9	17.8	19.7	18.7	70	74	72	131	133	132
Pico R2X	0.9		16.8	16.6		71	70		129	128
B119KE	1.1			17.8			69			132
S12-M5X	1.2			19			65			132
NEO R2X	1.1	16.7	18.0	17.5	76	79	75	128	130	130
P12T94E	1.2			18.5			73			132

**** Days To Maturity based on days to 95% Pod brown***

2022 Site Summaries RR Relative Maturity 0.7-1.1 (~2700-2850 HU)

2022 Roundup Ready Soybean Trials Relative Maturity 0.7-1.1 (~2700-2850 HU)– Annapolis Valley, NS

Rating Type		Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Emergence		Maturity		Oil	Protein
Rating Unit		kg/ha		g		cm		cm		1-5		DAP		%	%
Entry #	Entry Name														
1	Lion R2X	3516	a	20.9	c-f	55	a-d	11	ab	2	b	134		22.27	33.57
2	S07-K5X	3674	a	20.8	c-f	60	abc	11	ab	2	b	134		20.27	37.42
3	EXP07-22E3	2918	ab	20.8	c-f	45	d	8	b	2	ab	134		20.92	34.8
4	NANO R2X	3377	ab	19.4	def	57	a-d	11	ab	1	b	134		21.36	35.21
5	Amino R2X	2761	ab	22.6	bc	46	d	8	b	2	ab	131		20.79	36
6	Viper R2X	4127	a	20.9	c-f	51	bcd	10	ab	2	b	134		21.59	34.74
7	DKB07-59XF	3827	a	18.8	ef	59	abc	11	ab	2	ab	134		20.74	35.6
8	Altitude R2	3642	a	25.5	a	51	a-d	9	ab	1	b	131		23.28	33.43
9	ELICO E3	3523	a	19	def	53	a-d	12	ab	1	b	131		20.75	35.2
10	B091FE	3778	a	20.2	c-f	52	a-d	9	ab	2	b	138		20.73	36.24
11	PS 0779XRN	4066	a	18.9	def	64	a	13	a	1	b	134		21.61	35.71
12	DKB08-80	3471	a	21.4	bcd	63	ab	12	ab	2	b	138		20.68	37.13
13	ENYO E3	2706	ab	19.2	def	46	d	10	ab	3	a	134		21.67	34.23
14	MIKO R2	3631	a	21.3	b-e	53	a-d	11	ab	1	b	131		20.54	36.37
15	P09A62X	3329	ab	21.9	bc	50	cd	11	ab	2	b	138		21.11	34.45
16	S09-H7E3	2991	ab	19.6	def	46	d	11	ab	2	b	138		20.75	35.16
17	Beliveau R2X	3962	a	19.5	def	49	cd	11	ab	1	b	138		21.79	35.32
18	Pico R2X	3533	a	19.5	def	57	a-d	9	ab	1	b	131		20.36	35.98
19	B119KE	2113	b	22	bc	45	d	10	ab	3	a	140		21.75	35.4
20	S12-M5X	3793	a	23.5	b	45	d	10	ab	2	b	138		21.63	35.28
21	NEO R2X	3407	ab	18.7	f	57	a-d	12	ab	2	ab	134		21.15	35
22	P12T94E	3623	a	22	bc	53	a-d	12	ab	1	b	140		20.33	36.64
LSD P=.05		***806.3***		***1.45***		***7.2***		***2.7***		***0.7***		***.***		***.***	***.***
Standard Deviation		***488.6***		***0.88***		***4.4***		***1.6***		***0.4***		***.***		***.***	***.***
CV		***14.23***		***4.24***		***8.36***		***15.42***		***26***		***.***		***.***	***.***
Grand Mean		***3432.3***		***20.76***		***52.6***		***10.5***		***1.7***		***135***		***21.185***	***35.404***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trials Relative Maturity 0.7-1.1 (~2700-2850 HU)– Truro, NS

Rating Type		Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Emergence		Maturity		Oil	Protein
Rating Unit		kg/ha		g		cm		cm		1-5		DAP		%	%
Entry #	Entry Name														
1	Lion R2X	4420	abc	18.2	b-e	75	c-f	11	-	3	ab	126	b	21.3	34.48
2	S07-K5X	4106	abc	18.1	b-e	88	ab	11	-	3	ab	125	d	20.09	36.84
3	EXP07-22E3	4033	abc	18.1	b-e	63	g	9	-	3	ab	129	a	20.1	35.51
4	NANO R2X	3630	bc	18	cde	82	b-e	13	-	3	ab	125	d	19.63	37.98
5	Amino R2X	4095	abc	18.7	bc	72	ef	9	-	3	ab	125	d	21.17	34.51
6	Viper R2X	4836	ab	18	cde	82	b-e	11	-	3	ab	125	d	20.4	34.76
7	DKB07-59XF	4792	ab	15.8	f	87	ab	13	-	3	ab	129	a	20.24	35.5
8	Altitude R2	4197	abc	20.1	a	72	def	13	-	3	ab	125	d	21.72	34.35
9	ELICO E3	5099	a	18.1	b-e	78	b-f	11	-	3	ab	129	a	19.39	36.12
10	B091FE	4564	abc	17.5	cde	79	b-f	11	-	3	ab	129	a	19.93	36.75
11	PS 0779XRN	4880	ab	15.2	f	87	ab	11	-	3	ab	126	b	19.98	36.93
12	DKB08-80	3597	bc	18.6	bc	78	b-f	12	-	3	ab	126	c	20.85	36.98
13	ENYO E3	4892	ab	17.1	de	86	ab	12	-	4	a	129	a	21.52	35.18
14	MIKO R2	5005	ab	18.4	bcd	95	a	11	-	3	ab	126	b	19.65	35.96
15	P09A62X	4525	abc	17.7	cde	84	bc	11	-	3	ab	129	a	21.07	34.28
16	S09-H7E3	4172	abc	17	de	73	def	10	-	3	ab	129	a	19.53	36.36
17	Beliveau R2X	4755	abc	19.4	ab	84	bc	13	-	4	a	129	a	21.28	34.55
18	Pico R2X	3401	c	16.8	e	73	def	11	-	3	ab	125	d	20.06	35.09
19	B119KE	3602	bc	18.2	b-e	80	b-f	10	-	2	b	129	a	21	34.23
20	S12-M5X	5051	a	17.9	cde	70	f	10	-	3	ab	129	a	21.48	35
21	NEO R2X	4054	abc	18.2	b-e	88	ab	12	-	3	ab	125	d	20.01	36.63
22	P12T94E	3899	abc	18.1	cde	84	bcd	14	-	3	ab	129	a	20.03	36.45
LSD P=.05		*733.6*		*0.82*		*6.7*		*3.1*		*0.7*		*0.2*		*.*	*.*
Standard Deviation		*517.9*		*0.58*		*4.8*		*2.2*		*0.5*		*0.1*		*.*	*.*
CV		*11.78*		*3.24*		*5.96*		*19.16*		*17.7*		*0.08*		*.*	*.*
Grand Mean		*4396.7*		*17.87*		*79.9*		*11.3*		*3*		*127.2*		*20.474*	*35.656*

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Roundup Ready Soybean Trials Relative Maturity 0.7-1.1 (~2700-2850 HU)– Harrington, PEI

Rating Type		Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Emergence		Maturity		Oil	Protein
Rating Unit		kg/ha		g		cm		cm		1-5		DAP		%	%
Entry #	Entry Name														
1	Lion R2X	4332	b-e	15.8	cde	76	-	6	bcd	1	-	131	-	20.39	35.66
2	S07-K5X	4679	bcd	17.3	ab	76	-	7	bcd	1	-	131	-	19.25	39
3	EXP07-22E3	4142	cde	15	ef	76	-	5	d	1	-	131	-	18.95	37.97
4	NANO R2X	4780	a-d	15.7	de	76	-	8	bcd	1	-	133	-	18.86	38.61
5	Amino R2X	4189	cde	15.2	ef	76	-	7	bcd	1	-	130	-	19.56	37.37
6	Viper R2X	4771	a-d	15.7	de	76	-	5	d	1	-	132	-	18.93	37.91
7	DKB07-59XF	4836	a-d	13.8	g	76	-	5	d	1	-	133	-	19.06	37.8
8	Altitude R2	5627	a	17.9	a	76	-	6	cd	1	-	133	-	21.45	35.42
9	ELICO E3	4354	b-e	15.5	de	76	-	8	abc	1	-	132	-	18.88	38.04
10	B091FE	4499	b-e	14.9	efg	76	-	6	bcd	1	-	133	-	19.32	38.41
11	PS 0779XRN	4637	bcd	14.1	fg	76	-	9	ab	1	-	132	-	15	28.66
12	DKB08-80	4886	a-d	16.1	cde	76	-	5	d	1	-	133	-	19.89	37.92
13	ENYO E3	4524	b-e	14.3	fg	76	-	6	bcd	1	-	133	-	19.88	37.84
14	MIKO R2	5150	ab	17.2	ab	76	-	8	bcd	1	-	133	-	19.64	37.38
15	P09A62X	4983	abc	16.6	bcd	76	-	11	a	1	-	133	-	19.12	37.78
16	S09-H7E3	4286	b-e	14.9	efg	76	-	5	d	1	-	133	-	18.89	38.13
17	Beliveau R2X	5126	ab	17.5	ab	76	-	7	bcd	1	-	133	-	19.65	36.9
18	Pico R2X	4967	abc	14.3	fg	76	-	7	bcd	1	-	131	-	18.57	37.31
19	B119KE	4035	de	14.2	fg	76	-	6	cd	1	-	133	-	19.91	35.12
20	S12-M5X	5014	abc	16.9	bc	76	-	6	bcd	1	-	133	-	20.8	36.12
21	NEO R2X	4887	a-d	15.9	cde	76	-	11	a	1	-	133	-	18.79	38.86
22	P12T94E	3750	e	16.4	bcd	76	-	6	cd	1	-	133	-	18.91	39.31
LSD P=.05		***509.4***		***0.74***		***.***		***1.8***		***.***		***.***			
Standard Deviation		***360.4***		***0.52***		***0***		***1.3***		***0***		***0***			
CV		***7.73***		***3.33***		***0***		***18.81***		***0***		***0***			
Grand Mean		***4659.8***		***15.69***		***76***		***6.7***		***1***		***132.4***		***19.257***	***37.16***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Conventional Soybean Trials Relative Maturity 000.5-0.1 (~2200-2575 HU)

Table 1. 2020-2022 Yield Data Conventional Soybean Trials Relative Maturity 000.5-0.1 (~2200-2575 HU)

Variety	Seed Company	Relative Maturity	HU Req	3 Year		2 Year		2022	
				%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
AMBELLA	SG CERESCO inc.	000.8	2250			71%	2342	71%	2481
Pamela	Saatbau Canada	00.3	2300					92%	3225
Abaca	SG CERESCO inc.	00.5	2350			114%	3802	119%	4196
Maya	Prograin	00.2	2375	99%	3136	98%	3239	94%	3290
Aurelina	SG CERESCO inc.	00.9	2450	103%	3274	107%	3552	102%	3593
Mozart	SEMICAN	00.7	2475					110%	3866
JAGO	SG CERESCO inc.	00.5	2475	109%	3463	116%	3865	114%	4005
Liska	Prograin	00.6	2475	93%	2955	94%	3128	93%	3272
Siberia	Prograin	00.7	2475	90%	2845	90%	2974	80%	2812
Jari	ELITE (Maizex Seeds)	00.9	2500	101%	3203	104%	3462	110%	3887
Daiki	SEMICAN	00.8	2525					111%	3909
Kazart	SEMICAN	00.8	2550					104%	3647
Hana	Prograin	0.1	2575	104%	3309	106%	3529	101%	3556
Means (kg/ha)					**3169**		**3321**		**3518**
Sites					**10**		**7**		**3**

** 2022 Yield Data from Sites – Annapolis Valley, NS; Harrington, PEI; Hartland , NB – Yield data for Truro, NS > 15% CV*

Table 2: 2020-2022 Agronomic Data Conventional Soybean Trials Relative Maturity 000.5-0.1 (~2200-2575 HU)

Variety	Relative Maturity	100 Seed Wt. (g)			Plant Height (cm)			Maturity – DTM*		
		3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean
AMBELLA	000.8		19.4	19.1		58	55		114	113
Pamela	00.3			20.4			67			118
Abaca	00.5		21.0	20.4		73	69		124	122
Maya	00.2	18.6	19.1	17.9	73	73	68	122	125	124
Aurelina	00.9	19.3	20.4	19.5	76	80	71	122	125	124
Mozart	00.7			21			68			120
JAGO	00.5	19.9	21.2	21.2	77	78	72	123	126	124
Liska	00.6	19.3	20.5	20.1	67	67	64	116	120	118
Siberia	00.7	16.9	18.1	17.6	73	73	67	117	119	115
Jari	00.9	18.7	19.7	19.4	80	79	73	122	124	123
Daiki	00.8			20.5			69			123
Kazart	00.8			21.3			77			120
Hana	0.1	17.7	18.7	18.1	71	73	68	122	125	123

**** Days To Maturity based on days to 95% Pod brown***

2022 Site Summaries Conventional Relative Maturity 000.5-0.1(~2200-2575 HU)

2022 Conventional Soybean Trial 000.5-0.1(~2200-2575 HU)– Annapolis Valley, NS

Rating Type Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	AMBELLA	1294	e	18.7	d	31	c	7	c	2	-	113	-	23.52	35.62
2	Pamela	1829	cde	20.8	c	47	ab	12	abc	1	-	117	-	21.89	35.65
3	Abaca	2293	a-d	22.7	bc	49	ab	12	abc	2	-	113	-	22.5	36
4	Maya	1982	b-e	17	e	51	ab	10	abc	1	-	125	-	19.21	38.34
5	Aurelina	1678	de	22.7	bc	54	a	12	abc	1	-	125	-	21.6	37.09
6	Mozart	2617	ab	23.7	ab	47	ab	8	bc	1	-	120	-	20.76	37.79
7	JAGO	2671	ab	24.8	a	59	a	12	abc	2	-	120	-	21.62	39.26
8	Liska	1809	cde	21.7	c	48	ab	9	abc	2	-	117	-	19.37	41.79
9	Siberia	1268	e	19	d	38	bc	14	ab	2	-	113	-	22.61	34.03
10	Jari	2509	abc	20.8	c	57	a	14	a	1	-	120	-	19.36	40.64
11	Daiki	2873	a	24.4	a	59	a	11	abc	1	-	125	-	20.89	39.84
12	Kazart	1974	b-e	22.2	bc	55	a	11	abc	2	-	113	-	21.98	35.07
13	Hana	1833	cde	21.2	c	54	a	8	abc	1	-	120	-	21.12	38.48
LSD P=.05		***431.9***		***1.2***		***9.2***		***3.3***		***0.9***		***.***		***.***	***.***
Standard Deviation		***251.8***		***0.71***		***5.4***		***2***		***0.5***		***0***		***.***	***.***
CV		***12.48***		***3.29***		***10.91***		***18.5***		***37.06***		***0***		***.***	***.***
Grand Mean		***2017.6***		***21.41***		***49.6***		***10.6***		***1.4***		***118.4***		***21.264***	***37.662***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Conventional Soybean Trial 000.5-0.1(~2200-2575 HU)– Truro, NS

Rating Type Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	AMBELLA			19.2	ab	42	b	7	b	1	b	110	g	20.55	38.13
2	Pamela			20.1	a	49	ab	10	ab	3	a	117	e	19.79	38.21
3	Abaca			18	cd	60	a	10	ab	3	a	130	a	21.46	36.93
4	Maya			16	e	51	ab	9	ab	4	a	125	b	17.54	39.53
5	Aurelina			17.3	d	57	a	9	ab	3	a	125	b	20.2	38.74
6	Mozart			18.9	bc	53	ab	8	b	3	a	117	e	19.21	38.74
7	JAGO			20.1	a	60	a	9	ab	3	a	130	a	20.76	37.57
8	Liska			19.2	ab	53	ab	7	b	3	a	117	d	19.9	39.06
9	Siberia			17.2	d	51	ab	9	ab	3	a	111	f	19.69	36.83
10	Jari			17.8	d	55	a	10	ab	4	a	125	b	18.58	41.47
11	Daiki			18.2	bcd	59	a	10	ab	3	a	125	b	19.09	40.01
12	Kazart			18.9	bc	60	a	12	a	4	a	119	c	21.3	36.58
13	Hana			13.9	f	54	ab	8	ab	3	a	119	c	.	.
LSD P=.05				***0.78***		***7.5***		***2.2***		***1.1***		***0.2***		**.**	**.**
Standard Deviation				***0.54***		***5.2***		***1.5***		***0.8***		***0.1***		**.**	**.**
CV				***3***		***9.71***		***16.93***		***25.53***		***0.11***		**.**	**.**
Grand Mean				***18.04***		***54.1***		***9.1***		***3.1***		***120.8***		***19.839***	***38.483***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Conventional Soybean Trial 000.5-0.1(~2200-2575 HU)– Harrington, PEI

Rating Type Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	AMBELLA	2545	d	18.4	d	53	b	6	ef	1	-	117	-	20.78	36.7
2	Pamela	3938	bc	20.3	bc	60	ab	12	a	1	-	120	-	19.07	39.31
3	Abaca	4770	a	20.7	b	65	ab	11	abc	1	-	123	-	20.38	39.04
4	Maya	4219	abc	20	bc	68	ab	9	a-e	1	-	127	-	17.67	43.22
5	Aurelina	3908	bc	19.3	bcd	68	ab	11	ab	1	-	127	-	19.7	41.55
6	Mozart	3963	bc	20.4	bc	69	ab	5	f	1	-	128	-	18.57	41.51
7	JAGO	4563	ab	19.6	bcd	60	ab	7	def	1	-	124	-	20.23	39.57
8	Liska	3761	c	19.5	bcd	59	ab	8	c-f	1	-	122	-	18.59	41.38
9	Siberia	3883	bc	16.9	e	68	ab	8	b-f	1	-	122	-	19.71	36.91
10	Jari	4137	abc	19.4	bcd	70	ab	12	a	1	-	126	-	18.41	44.03
11	Daiki	3878	bc	19.1	cd	60	ab	10	a-d	1	-	125	-	18.94	42.79
12	Kazart	4627	ab	22.6	a	74	a	10	abc	1	-	129	-	19.26	40.42
13	Hana	4359	abc	19.3	bcd	65	ab	5	f	1	-	132	-	19.15	41.74
LSD P=.05		***459.3***		***0.91***		***10.8***		***2.3***		***.***		***.***			
Standard Deviation		***272.5***		***0.54***		***6.4***		***1.4***		***0***		***0***			
CV		***6.74***		***2.75***		***9.91***		***16.04***		***0***		***0***			
Grand Mean		***4042.4***		***19.66***		***64.5***		***8.7***		***1***		***124.8***		***19.267***	***40.627***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

2022 Conventional Soybean Trial 000.5-0.1(~2200-2575 HU)– Hartland,NB

Rating Type Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	AMBELLA	3325	c	20.6	a	86	c					111	b	20.19	34.62
2	Pamela	3340	c	20.8	a	98	bc					117	a	18.12	36.69
3	Abaca	4671	a	21.3	a	96	bc					121	a	19.35	37.62
4	Maya	3683	bc	20	ab	98	bc					119	a	16.83	41.34
5	Aurelina	4339	ab	21.2	a	98	bc					120	a	19.04	38.79
6	Mozart	4438	ab	21.9	a	99	bc					118	a	17.63	39.72
7	JAGO	4275	ab	22.1	a	99	bc					120	a	20.11	35.89
8	Liska	4003	abc	20.7	a	92	bc					117	a	16.57	42.32
9	Siberia	3167	c	17.7	b	103	abc					117	a	19.54	34.92
10	Jari	4342	ab	20.2	ab	107	ab					120	a	17.59	41
11	Daiki	4710	a	21.4	a	93	bc					118	a	18.4	40.64
12	Kazart	4166	ab	22.6	a	113	a					120	a	19.15	36.09
13	Hana	4248	ab	20.2	ab	96	bc					122	a	17.93	40.82
LSD P=.05		***583.5***		***1.88***		***9.9***						***3.1***		***.***	***.***
Standard Deviation		***406.5***		***0.86***		***6.9***						***2.1***		***.***	***.***
CV		***10.01***		***4.14***		***7.02***						***1.81***		***.***	***.***
Grand Mean		***4060.9***		***20.8***		***98.3***						***118.3***		***18.496***	***38.497***

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OS

2022 Conventional Soybean Trials Relative Maturity 0.3-1.1 (~2600-2850 HU)

Table 1. 2020-2022 Yield Data Conventional Soybean Trials Relative Maturity 0.3-1.1 (~2600-2850 HU)

Variety	Seed Company	Relative Maturity	HU Req	3 Year		2 Year		2022	
				%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
C4M20365	ELITE (Maizex Seeds)	0.3	2575					102%	3648
19SS04	SEMICAN	0.4	2600					94%	3365
Panorama	Sevita International	0.3	2600	94%	3209	97%	3626	98%	3492
C4M22455	ELITE (Maizex Seeds)	0.5	2625					106%	3801
Utica	Sevita International	0.4	2625					95%	3402
AAC KOVIK	SG CERESCO inc.	0.4	2650	97%	3320	101%	3743	101%	3599
TAURUS	Prograin	0.5	2650	98%	3337	93%	3449	91%	3249
AYA	Prograin	0.5	2675			97%	3612	96%	3423
Navan	Sevita International	0.7	2700					110%	3944
Dunham	Sevita International	0.7	2700			91%	3401	90%	3228
MARULA	Prograin	0.6	2700	102%	3470	95%	3538	98%	3501
Black Pearl	Legault Seeds	0.7	2725	89%	3023			96%	3427
EZRA	Prograin	0.8	2725	109%	3717	105%	3912	94%	3352
HAVANE	SG CERESCO inc.	0.8	2750	105%	3565	104%	3863	108%	3865
OAC18-63C-SCN	SeCan	1.3	2850					102%	3655
Finch	Sevita International	0.9	2850			106%	3943	103%	3698
TAKU	SG CERESCO inc.	1.1	2850	108%	3692	108%	4010	103%	3695
Baltazar	SEMICAN	1.1	2875					108%	3867
ZANA	Prograin	1.4	2875	99%	3367	103%	3848	109%	3908
FORTO	SG CERESCO inc.	1.2	2900					95%	3414
Means (kg/ha)					3411		3722		3577
Sites					8		5		2

Table 2: 2020-2022 Agronomic Data Conventional Soybean Trials Relative Maturity 0.3-1.1 (~2600-2850 HU)

Variety	Relative Maturity	100 Seed Wt. (g)			Plant Height (cm)			Maturity – DTM*		
		3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean	3 yr Mean	2 yr Mean	2022 Mean
C4M20365	0.3			20.2			64			126
19SS04	0.4			21.5			61			127
Panorama	0.3	19.4	20.9	20.1	66	69	58	125	128	126
C4M22455	0.5			19.4			56			130
Utica	0.4			21.6			59			127
AAC KOVIK	0.4	20.3	21.9	21	74	76	62	131	133	130
TAURUS	0.5	18.7	19.4	17.7	84	85	69	127	129	128
AYA	0.5		23.0	21.7		77	60		131	127
Navan	0.7			20			64			131
Dunham	0.7		21.9	20.2		83	68		132	128
MARULA	0.6	21.6	23.0	21.1	83	83	68	128	132	128
Black Pearl	0.7	18.8		19.5	74		68	128		131
EZRA	0.8	19.3	20.5	19.5	80	81	66	132	135	131
HAVANE	0.8	19.9	21.3	19.8	77	80	67	130	133	130
OAC18-63C-SCN	1.3			16.2			77			133
Finch	0.9		19.7	18.9		79	64		133	130
TAKU	1.1	18.8	19.8	18.3	83	88	71	136	138	132
Baltazar	1.1			19			73			132
ZANA	1.4	18.7	19.8	18	75	79	69	134	137	132
FORTO	1.2			19.8			76			133

2022 Site Summaries Conventional Relative Maturity 0.3-1.1 (~2600-2850 HU)

2022 Conventional Soybean Trial Relative Maturity 0.3-1.1 (~2600-2850 HU) – Annapolis Valley, NS

Rating Type Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	C4M20365	2961	-	22.6	def	67	ab	17	-	1	-	125	-	22.33	36.78
2	19SS04	2544	-	25.3	ab	60	ab	12	-	1	-	128	-	21.38	37.22
3	Panorama	2734	-	24.7	abc	60	ab	13	-	1	-	125	-	21.57	37.36
4	C4M22455	3108	-	22.5	def	60	ab	12	-	1	-	131	-	21.43	36.64
5	Utica	2408	-	24.8	abc	60	ab	13	-	1	-	128	-	21.22	38.72
6	AAC KOVIK	2932	-	24.8	abc	59	ab	10	-	1	-	134	-	21.46	37.92
7	TAURUS	2391	-	22.2	d-g	65	ab	12	-	2	-	125	-	20.31	39.63
8	AYA	2396	-	26.4	a	59	ab	12	-	1	-	125	-	20.75	37.57
9	Navan	3472	-	25.3	ab	67	ab	16	-	1	-	134	-	20.27	38.05
10	Dunham	2458	-	20.7	fg	58	ab	11	-	2	-	125	-	19.77	39.86
11	MARULA	2984	-	25.1	ab	72	ab	14	-	1	-	125	-	21.02	38.46
12	Black Pearl	2962	-	22.9	cde	66	ab	11	-	2	-	134	-	19.3	38.14
13	EZRA	2522	-	23.7	bcd	65	ab	12	-	2	-	134	-	21.2	37.43
14	HAVANE	3714	-	23.3	b-e	68	ab	14	-	2	-	134	-	21.45	38.23
15	OAC18-63C-SCN	3424	-	20.3	g	76	a	17	-	2	-	140	-	20.23	37.44
16	Finch	2942	-	22.4	def	55	b	17	-	1	-	131	-	20.53	40.33
17	TAKU	3061	-	21.3	efg	67	ab	14	-	1	-	138	-	20.36	38.03
18	Baltazar	3086	-	21.9	d-g	67	ab	11	-	2	-	138	-	20.5	39.15
19	ZANA	3426	-	22.1	d-g	66	ab	13	-	2	-	138	-	20.73	36.38
20	FORTO	2625	-	23.1	cde	76	a	14	-	2	-	140	-	20.46	39.45
LSD P=.05		***823.9***		***1.34***		***9.9***		***5.1***		***0.9***		***.***		***.***	***.***
Standard Deviation		***498.5***		***0.81***		***6***		***3.1***		***0.5***		***0***		***.***	***.***
CV		***17.14***		***3.49***		***9.28***		***23.3***		***33.12***		***0***		***.***	***.***
Grand Mean		***2907.4***		***23.28***		***64.6***		***13.4***		***1.6***		***131.6***		***20.814***	***38.14***

2022 Conventional Soybean Trial Relative Maturity 0.3-1.1 (~2600-2850 HU) – Truro, NS

Rating Type Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	C4M20365			19.2	a	59	ab	14	abc	3	ab	126	cd	21.6	36.23
2	19SS04			19.5	a	55	b	12	c	4	a	125	d	21.57	34.6
3	Panorama			17.9	bc	55	b	11	c	4	a	125	d	20.23	36.6
4	C4M22455			18.4	b	54	b	10	c	4	a	128	a	21.93	34.88
5	Utica			19.4	a	56	ab	13	abc	4	a	127	ab	21.29	37.25
6	AAC KOVIK			18.5	b	57	ab	12	c	3	ab	127	abc	22.08	33.72
7	TAURUS			14.8	h	65	ab	12	c	3	ab	128	a	19.65	37.77
8	AYA			19.6	a	54	b	11	c	4	a	126	bc	20.91	35.91
9	Navan			16.3	f	58	ab	13	bc	4	ab	128	a	20.4	35.35
10	Dunham			19.4	a	64	ab	11	c	4	ab	128	a	19.22	38.57
11	MARULA			19.3	a	61	ab	10	c	3	ab	128	a	20.51	37.51
12	Black Pearl			18	bc	60	ab	10	c	3	ab	128	a	19.69	36.81
13	EZRA			16.5	ef	65	ab	11	c	3	ab	128	a	21.26	35.55
14	HAVANE			18.4	b	62	ab	11	c	3	ab	127	ab	21.07	36.1
15	OAC18-63C-SCN			14	i	70	a	17	a	3	ab	128	a	21.05	34.86
16	Finch			17.5	cd	59	ab	13	bc	4	a	128	a	20.62	36.82
17	TAKU			16.9	def	68	ab	17	ab	4	a	127	ab	20.35	36.75
18	Baltazar			17.3	cde	70	a	14	abc	3	ab	128	a	21.38	35.61
19	ZANA			15.4	g	64	ab	13	abc	2	b	128	a	20.89	34.03
20	FORTO			16.7	ef	67	ab	14	abc	3	ab	128	a	19.71	37.55
LSD P=.05				***0.63***		***8.4***		***2.7***		***1***		***0.8***		**.**	**.**
Standard Deviation				***0.45***		***5.9***		***1.9***		***0.7***		***0.6***		**.**	**.**
CV				***2.54***		***9.67***		***15.14***		***20.64***		***0.47***		**.**	**.**
Grand Mean				***17.64***		***61.2***		***12.6***		***3.3***		***127.3***		***20.771***	***36.124***

2022 Conventional Soybean Trial Relative Maturity 0.3-1.1 (~2600-2850 HU) – Harrington, PEI

Rating Type Rating Unit		Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Emergence 1-5		Maturity DAP		Oil %	Protein %
Entry #	**Entry Name**														
1	C4M20365	4335	-	19.1	c-g	66	bcd	10	bc	1	-	127	-	19.63	41.52
2	19SS04	4186	-	20.3	abc	69	a-d	8	cd	1	-	127	-	19.04	39.61
3	Panorama	4249	-	18.6	d-h	61	cd	9	bc	1	-	128	-	18.75	40.37
4	C4M22455	4495	-	17.6	hi	53	d	4	e	1	-	131	-	19.61	38.74
5	Utica	4397	-	21.3	a	62	bcd	8	cd	1	-	127	-	19.61	42.06
6	AAC KOVIK	4267	-	20.5	abc	70	a-d	10	bc	1	-	131	-	19.85	38.35
7	TAURUS	4107	-	17.2	hi	80	abc	12	bc	1	-	131	-	18.24	42.06
8	AYA	4451	-	19.9	bcd	70	a-d	8	cd	1	-	131	-	18.71	40.77
9	Navan	4416	-	19.7	b-e	70	a-d	10	bc	1	-	131	-	18.82	39.99
10	Dunham	3999	-	20.8	ab	83	ab	10	bc	1	-	131	-	17.46	44.72
11	MARULA	4019	-	19.6	b-f	74	abc	13	ab	1	-	132	-	19.09	40.44
12	Black Pearl	3892	-	18	ghi	81	abc	9	cd	1	-	132	-	18.05	40.47
13	EZRA	4181	-	19.3	c-g	68	a-d	8	cd	1	-	132	-	19.05	39.72
14	HAVANE	4017	-	18.3	f-i	70	a-d	5	de	1	-	131	-	19.56	38.66
15	OAC18-63C-SCN	3885	-	15.1	j	88	a	10	bc	1	-	132	-	19.07	38.6
16	Finch	4454	-	17.3	hi	77	abc	10	bc	1	-	132	-	18.49	42.4
17	TAKU	4328	-	17.1	i	81	abc	15	a	1	-	132	-	18.44	39.61
18	Baltazar	4648	-	18.4	e-i	82	abc	11	bc	1	-	132	-	19.36	40.41
19	ZANA	4391	-	17.2	hi	77	abc	10	bc	1	-	132	-	18.31	37.86
20	FORTO	4203	-	20.7	ab	88	a	10	bc	1	-	132	-	18.72	42.4
LSD P=.05		***450.1***		***0.9***		***11.6***		***2.5***		***.***		***.***			
Standard Deviation		***272.3***		***0.54***		***7***		***1.5***		***0***		***0***			
CV		***6.41***		***2.89***		***9.54***		***15.66***		***0***		***0***			
Grand Mean		***4246.1***		***18.8***		***73.6***		***9.6***		***1***		***130.7***		***18.893***	***40.438***