

MARITIME SOYBEAN VARIETY EVALUATION SUMMARY 2016



Prepared by: Doug MacDonald
Scientific Officer, Cereal & Oilseed Research Group
Dalhousie University, Faculty of Agriculture



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada

Table of Contents

	Page #
Cooperator Information.....	1
Introduction/ Trial Comments.....	2-3
Maritime Soybean Variety Evaluation – Entry Lists (Tables 2-6).....	4-8
Site Information (Table 7)	8
Yield Index (2,3 &4 year) for Conventional 2200-2600 HUSoybean Varieties Tested in 2016 (Table 8).....	10
2014-2016 Conventional 2200-2600 HU Soybean Agronomic Data (Table 9)	11
2016 Conventional 2200-2600 HU Soybean Varieties Mean Overall Yields and Site Yields (Table 10)	12
Yield Index (2, 3 & 4 years) for Conventional 2600+ HU Soybean Varieties tested in 2016 (Table 11)	13
2014-2016 Conventional 2600+ HU Soybean Agronomic Data (Table 12)	14
2016 Conventional 2600+ HU Soybean Varieties Mean Overall Yields and Site Yields (Table 13)	15
Yield Index (2, 3 & 4 years) for RR 2200-2500 HU Soybean Varieties tested in 2016 (Table 14)	16
2014-2016 RR 2200-2500 HU Soybean Agronomic Data (Table 15)	17
2016 RR 2200-2500 HU Soybean Varieties Mean Overall Yields and Site Yields (Table 16)	18
Yield Index (2, 3 & 4 years) for RR 2500-2700 HU Soybean Varieties tested in 2016 (Table 17)	19
2014-2016 RR 2500-2700 HU Soybean Agronomic Data (Table 18)	20
2016 RR 2500-2700 HU Soybean Varieties Mean Overall Yields and Site Yields (Table 19)	21
Yield Index (2, 3 & 4 years) for RR 2700-2850 HU Soybean Varieties tested in 2016 (Table 20)	22
2014-2016 RR 2700-2850 HU Soybean Agronomic Data (Table 21)	23
2016 RR 2700-2850 HU Soybean Varieties Mean Overall Yields and Site Yields (Table 22)	24
2016 Conventional 2200-2600 Soybean Site Summaries (Tables 23-26)	25-28
2016 Conventional 2600+ Soybean Site Summaries (Tables 27-30)	29-32
2016 RoundUp Ready 2200-2500 HU Site Summaries (Tables 31-34).....	33-36
2016 RoundUp Ready 2500-2700 HU Site Summaries (Tables 35-38).....	37-40
2016 RoundUp Ready 2700-2850 HU Site Summaries (Tables 39-42).....	41-44
Appendix A – Soybean Data and Rating Methods	
Appendix B – 2016 Maritime Soybean Test Variety Trials (Summary Reports of Available varieties distributed to Maritime Growers)	

Cooperator Information

Location	Cooperator(s)	Contact Information
Canning, NS Truro, NS	Claude Caldwell Dalhousie Doug MacDonald Dalhousie	Dalhousie University Faculty of Agriculture Plant & Animal Sciences Dept. PO Box 550 Truro, NS B2N 5E3 Phone (902)893-7751 Fax (902)896-2427 Email : doug.macdonald@dal.ca claire.caldwell@dal.ca
Harrington, PEI	Aaron Mills, 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: Aaron.Mills@AGR.GC.CA flemingc@agr.gc.ca
Hartland, NB	Peter Scott, NBDAAF Anthony Smith, NBDAAF	NB Dept. of Agriculture, Aquaculture and Fisheries PO Box 6000 Fredericton, NB E3B 5H1 Tel: (506) 453-2108 Fax: (506) 453-7978 Email: peter.scott@gnb.ca Anthony.SMITH@gnb.ca

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 2016. The varieties tested were based on heat unit requirements to best fit the Maritime growing conditions. Seed companies were contacted and the varieties tested in 2016 were the company's selections for the test. All entries are presented in this report including those varieties not yet registered and/or available for commercial sale. In 2016 the RoundUp-Ready™ (RR) entries were divided into three tests by their heat unit requirement, 2200-2500 HU, 2500-2700 HU and 2700-2850 HU. Conventional or Non RR entries were divided into two tests 2200-2600 HU and 2600+ HU. The 20 2200-2600 HU and 15 2600+ conventional varieties tested are listed in Tables 2 & 3, respectively. The 25 2200-2500 HU, 19 2500-2700 and 18 2700-2850 HU RoundUp-Ready™ varieties are listed in Tables 4, 5 & 6 respectively. There were two NS sites and one each in NB and PEI (Table 7). Trial setup, seed packaging, data analysis and summary report preparation were carried out by the Cereal & Oilseed Research Group @ Dalhousie University, Faculty of Agriculture. Standard data collection methods were followed for all sites (See Appendix A). Not all data was collected at all sites due to shortage of labour or other reasons. Thanks are extended to all cooperators who were responsible for the planting, management, data collection and harvest of the trials. Oil and protein reported on a dry matter basis was measured on composite samples from Reps 1&2 and Reps 3&4 from each entry at all sites by Dalhousie University, Faculty of Agriculture using a Unity NIR.

The participation and support of the following seed companies for the 2016 Maritime Soybean Test is gratefully acknowledged: La Co-op Fédérée (ELITE), Pioneer, Syngenta, PRIDE Seeds, DOW Seeds, Monsanto(DEKALB), North Star Genetics - Semican, , Prograin, SeCan, and Sevita PRO Seeds. In NS funding assistance is received from the Soil & Crop Improvement Association of Nova Scotia through the Farm Innovation Fund.

A complete listing of all varieties tested with mean data from all sites is reported. Yield index tables are presented for each of the tests with one to four year mean yield index presented for the varieties tested in 2016.

Individual site data is also included here and can be made available to anyone upon request. Summary tables listing all varieties tested in 2016 with seed available for the 2017 season were prepared including 2016 yields, multi-year mean yields for 2, 3 & 4 years for those varieties tested for more than one year, 100 seed weight, plant height, pod height, lodging, days to maturity, oil% and protein %(See Appendix B). This table was distributed to growers in the Maritime Provinces through Perennia in NS and the Departments of Agriculture in NB and PEI sometime in early January 2017.

Trial Comments

The 2016 Maritime growing season ranged was an average year for soybean yields across the trial sites (Table 1). At the NS sites yields were below average at both the Canning and Truro sites probably due to the dry conditions during early growth and at critical pod filling stages. Yields at the Hartland, NB site were slightly below average for the RR trials and slightly above average for the Conventional trials. At the Harrington PEI site yields were above average for both the RR and Conventional trials. Weather summaries for each site is presented in Appendix B. Fall conditions were good at all sites which resulted in timely harvesting of dry, good quality beans. Harvest dates are presented in Table 7 with the other information for all sites. There were no major disease issues noted at any of the sites.

Table 1. Mean Trial Yields at each Site

Site	2016 Mean Trial Yield (kg/ha)				
	Conventional 2200-2600 HU	Conventional 2600+ HU	RR 2200-2500 HU	RR 2500-2700 HU	RR 2700+ HU
Canning, NS	NA*	NA	2811	3083	3431
Truro, NS	NA	NA	3001	2860	3694
Harrington, PEI	2977	2853	2699	3412	3504
Hartland, NB	2855	3167	3390	2983	2732

** NA - Not Available - Due to high variability in yields due to weed control issues and/or deer damage yield data is not reported or included in multi site and multi year analysis for the Truro and Canning, NS sites*

Table 2. 2016 Conventional 2200-2600 HU Soybean Variety Test Entries

Entry No.	Entry Name	Seed Company	Heat Unit Req	Hilum Color*
1	AAC Malika	Eastern Grains Inc	2450	Y
2	JARI	ELITE	2500	IY
3	Tundra	Prograin	2375	IY
4	Hana	Prograin	2575	Y
5	AAC Edward	SeCan	2375	Y
6	SVX16T00S2	Sevita Genetics	2475	IY
7	SVX16T0S1	Sevita Genetics	2525	IY
8	SVX16T0S4	Sevita Genetics	2550	IY
9	SVX16T0S5	Sevita Genetics	2550	IY
10	SVX16T0S8	Sevita Genetics	2575	IY
11	SVX17T00S23	Sevita Genetics	2475	Y
12	Meteor	PROSeeds	2450	IY
13	AAC Mandor	PROSeeds	2475	Y
14	DH863	PROSeeds	2500	IY
15	MISTY	PROSeeds	2500	IY
16	DH404	PROSeeds	2525	IY
17	DH401	PROSeeds	2550	IY
18	Astor	PROSeeds	2575	Y
19	SVX14T00S3	PROSeeds	2575	Y
20	SVX15T00S2	Sevita Genetics	2575	IY

* See Appendix A for definition of codes

Table 3. 2016 Conventional 2600-2850 HU Soybean Variety Test Entries

Entry No.	Entry Name	Seed Company	Heat Unit Req	Hilum Color*
1	Taurus	Prograin	2600	IY
2	Narita	Prograin	2600	IY
3	SVX17T0S2	Sevita Genetics	2600	Y
4	Celebrity	Sevita Genetics	2600	IY
5	DH618	PROSeeds	2600	IY
6	AURIGA	ELITE	2625	Y
7	ETNA	ELITE	2650	IY
8	PR1427836	Prograin	2650	Y
9	DS045C0	Dow Seeds	2650	Y
10	SAVANNA	PROSeeds	2650	IY
11	Marula	Prograin	2700	Y
12	SVX15T0S4	Sevita Genetics	2700	Y
13	Black Pearl	Dave & Rose Viaene	2750	Black
14	HS 09C02	Dow Seeds	2750	Y
15	DS101C0	Dow Seeds	2775	Y

* See Appendix A for definition of codes

Table 4. 2016 RoundUp Ready Soybean 2200-2500 HU Variety Test Entries

Entry No.	Entry Name	Seed Company	Heat Unit Req	Hilum Color*
1	NOTUS R2	ELITE	2100	Bl
2	AKRAS R2	ELITE	2250	Bl
3	NSC LIBAU RR2Y	North Star Genetics	2250	BLACK
4	S0009-M2	Syngenta	2275	Imp Y
5	23-60RY	DEKALB	2350	BL
6	S007-Y4	Syngenta	2350	Imp Y
7	NSC AUSTIN RR2Y	North Star Genetics	2375	Y
8	S00-N6	Syngenta	2400	Black
9	24-12RY	DEKALB	2425	BL
10	24-10RY	DEKALB	2425	BL
11	PS 0055 R2	PRIDE Seeds	2425	IY
12	S006-W5	Syngenta	2425	Brown
13	Kendo R2	Prograin	2450	Imp Y
14	HS 006RYS24	DOW Seeds	2450	Ibl
15	PRO 2525R2	PROSeeds	2450	BL
16	NSC ARNAUD RR2Y	North Star Genetics	2475	BL
17	PS 0074 R2	PRIDE Seeds	2475	BLACK
18	P008T70R	Pioneer Hi-Bred	2475	BR
19	HS 007RY32	DOW Seeds	2475	Imp Y
20	S009-J1	Syngenta	2475	BL
21	25-11RY	DEKALB	2500	Black
22	NSC JADEN R2	ELITE	2500	BL
23	NSC OSBORNE RR2Y	North Star Genetics	2500	Bl
24	Astro R2	Prograin	2500	BLACK
25	LS008R21	PROSeeds	2575	Bl

* See Appendix A for definition of codes

Table 5. 2016 RoundUp Ready Soybean 2500-2700 HU Variety Test Entries

Entry No.	Entry Name	Seed Company	Heat Unit Req	Hilum Color*
1	90Y01	Pioneer Hi-Bred	2525	Imp Y
2	PODAGA R2	ELITE	2475	Y
3	P01T23R	Pioneer Hi-Bred	2525	Brown
4	COLT R2	ELITE	2575	Bl
5	PRO 2535R2	PROSeeds	2575	BL
6	26-14RY	DEKALB	2600	BL
7	Theo R2	Prograin	2600	Bl
8	HYDRA R2	ELITE	2550	Bl
9	HS 03RY33	DOW Seeds	2625	BL
10	S04-D3	Syngenta	2625	Black
11	26-10RY	DEKALB	2650	GR
12	5A040RR2	DOW Seeds	2650	BL
13	PRO 2625R2	PROSeeds	2650	BL
14	PS 0416 R2	PRIDE Seeds	2675	BL
15	P06T28R	Pioneer Hi-Bred	2650	Brown
16	27-12RY	DEKALB	2700	GR
17	Nitro R2	Prograin	2700	Br
18	Mundo R2	Prograin	2700	Br
19	S06-C4	Syngenta	2700	BL

* See Appendix A for definition of codes

Table 6. 2016 RoundUp Ready Soybean 2700-2850 HU Variety Test Entries

Entry No.	Entry Name	Seed Company	Heat Unit Req	Hilum Color*
1	P08T96R	Pioneer Hi-Bred	2725	Buff
2	PS 0650 R2	PRIDE Seeds	2750	BR
3	S08-U4	Syngenta	2750	Light Grey
4	NSC PAGASIS RR2Y	North Star Genetics	2750	BR
5	NSC GARNET RR2Y	North Star Genetics	2750	BR
6	P09T74R2	Pioneer Hi-Bred	2750	Black
7	90Y90	Pioneer Hi-Bred	2750	Brown
8	5A075RR2	DOW Seeds	2750	Y
9	HS 08RY51	DOW Seeds	2750	Y
10	KATONDA R2	ELITE	2775	Bl
11	Miko R2	Prograin	2775	Br
12	91Y01	Pioneer Hi-Bred	2775	Buff
13	P10T48R	Pioneer Hi-Bred	2775	Buff
14	HS 09RYS12	DOW Seeds	2775	BL
15	Maxo R2	Prograin	2800	Br
16	S10-S1	Syngenta	2800	Brown
17	S11-N4	Syngenta	2825	Brown
18	DS124U1	DOW Seeds	2850	BL

* See Appendix A for definition of codes

Table 7. Site Information

Site	Cooperator	Previous Crop	Seeding Date	Harvest Date	CHU
Canning, NS	Dalhousie University Claude Caldwell Doug MacDonald	Winter Wheat	May 18/20	RR 2200-2500– Oct. 4 RR 2500-2700– Oct. 4 RR 2700-2850– Oct. 13 Conv. 2200-2600– Oct. 6 Conv. 2600+– Oct. 13	May 18– Sept.30 2830
Truro, NS	Dalhousie University Claude Caldwell Doug MacDonald	Mixed Forage	May 21/22	RR 2200-2500– Oct. 18 RR 2500-2700– Nov.8 RR 2700-2850– Nov.8 Conv. 2200-2600– Oct. 28 Conv. 2600+– Nov. 8	May 21– Sept. 30 2632
Harrington, PEI	AAFC Aaron Mills Chris Fleming	Red Clover	May 25	RR 2200-2500– Oct. 18 RR 2500-2700– Oct. 20 RR 2700-2850– Oct. 20 Conv. 2200-2600– Oct. 13 Conv. 2600+– Oct. 13	Jun. 1– Sept. 30 2400
Hartland, NB	NBDAA Peter Scott Anthony Smith	Corn	June 2	RR 2200-2500– Oct. 13 RR 2500-2700– Nov. 1 RR 2700-2850– Nov. 20 Conv. 2200-2600– Oct. 12 Conv. 2600+– Oct. 20	June 1– Sept. 30 2274

Table 7. Site Information(Cont.)

Site	Fertility	Herbicide
Canning, NS	None	Conventional Preemergent Lorox(2 L/ha) + Dual 960E(2L/ha) May 27 RoundUp Ready <i>Soybeans between 1st and 2nd trifoliolate</i> RoundUp Transorb (2.5 L/ha)
Truro, NS	None	Conventional Preemergent Lorox L (2L/ha) + Dual 960E (2L/ha) May 28 RoundUp Ready RoundUp Weathermax(2.5 L/ha) June 18
Harrington, PEI	300 kg/ha 5-20-20 Broadcast May 24	Conventional & RoundUp Ready Preemergent Dual II Magnum(1.75 L/ha) + Linuron (2L/ha) May 28 RoundUp Ready Factor 540 (540 g/L) 1.2 L/ha July 30
Hartland, NB	None	Conventional Basagran Forte (2.25 L/ha) June 30 RoundUp Ready Round Up (2.5 L/ha) June 30

Table 8. Yield Index (2, 3 & 4 years) for Conventional Soybean 2200-2600 HU Varieties tested in 2016

* Harrington, PEI & Hartland NB data only - CV for Yield at Truro & Canning, NS sites too high in 2016

** Highlighted entries tested in Screening trial at one site only(Truro, NS) in 2015

Variety	Seed Company	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
AAC Malika	Eastern Grains Inc	2450							72%	2094
JARI	ELITE	2500	107%	3193	111%	3195	113%	3221	107%	3108
Tundra	Prograin	2375	80%	2372	75%	2144	69%	1967	69%	2008
Hana	Prograin	2575					120%	3430	108%	3150
AAC Edward	SeCan	2375					76%	2154	79%	2306
SVX16T00S2	Sevita Genetics	2475							113%	3307
SVX16T0S1	Sevita Genetics	2525							104%	3044
SVX16T0S4	Sevita Genetics	2550							101%	2948
SVX16T0S5	Sevita Genetics	2550							104%	3045
SVX16T0S8	Sevita Genetics	2575							108%	3148
SVX17T00S23	Sevita Genetics	2475							102%	2971
Meteor	PROSeeds	2450	106%	3160	109%	3140	107%	3048	113%	3285
AAC Mandor	PROSeeds	2475			95%	2739	91%	2588	90%	2621
DH863	PROSeeds	2500	99%	2945	102%	2936	99%	2833	104%	3045
MISTY	PROSeeds	2500	104%	3109	102%	2926	98%	2792	104%	3046
DH404	PROSeeds	2525							110%	3221
DH401	PROSeeds	2550	105%	3111	108%	3110	107%	3040	112%	3270
Astor	PROSeeds	2575	99%	2944	98%	2815	91%	2601	94%	2730
SVX14T00S3	PROSeeds	2575					119%	3398	104%	3039
SVX15T00S2	Sevita Genetics	2575					109%	3119	101%	2931
Means (kg/ha)				2976		2876		2849		2916
Station years				13-14		9-10		3-7**		2*

Table 9. 2014-2016 Conventional 2200-2600 Soybean Agronomic Data

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
AAC Malika	19.6	54	7	1.0	128	39.5	17.4
JARI	19.1	69	12	1.3	122	43.9	16.3
Tundra	18.4	51	8	1.4	112	39.7	17.0
Hana	18.6	60	8	1.0	128	44.8	16.7
AAC Edward	16.3	50	8	1.7	114	40.9	18.3
SVX16T00S2	19.0	70	9	1.5	121	41.5	18.1
SVX16T0S1	18.3	58	8	1.0	123	39.7	18.0
SVX16T0S4	19.8	66	10	1.3	123	39.5	17.6
SVX16T0S5	22.5	62	10	1.1	128	43.5	16.8
SVX16T0S8	20.6	62	9	1.3	127	43.4	17.4
SVX17T00S23	21.8	61	9	1.1	126	43.5	16.7
Meteor	20.2	63	10	1.2	118	44.0	16.3
AAC Mandor	19.4	58	10	1.3	118	38.9	17.7
DH863	19.4	61	9	1.2	119	42.2	17.1
MISTY	17.4	63	10	1.2	119	41.9	17.7
DH404	19.8	64	8	1.0	121	44.2	16.3
DH401	19.8	61	10	1.2	118	43.9	16.7
Astor	21.1	56	8	1.0	123	40.1	18.8
SVX14T00S3	20.2	57	9	1.0	124	42.2	16.5
SVX15T00S2	21.3	65	10	1.3	123	43.8	16.9
Means	19.6	60.6	9.1	1.2	121.8	42.1	17.2
Station years	4-12	4-11	3-10	3-10	4-12	4-7	2-7

One year data only (4 station years)

Two years data only (5-8 station years)

Three years data (10-12 station years)

Table 10. 2016 Conventional 2200-2600 Soybean Varieties Mean Overall Yields and Site Yields

Entry Name	Seed Company	HU Req.	Yield (kg/ha)							
			Mean of 2 Sites*	Canning NS	Truro NS	Harrington PEI		Hartland NB		
AAC Malika	Eastern Grains Inc	2450	2094				2330	g	1858	h
JARI	ELITE	2500	3108				3493	a	2723	def
Tundra	Prograin	2375	2008				1934	h	2083	gh
Hana	Prograin	2575	3150				3008	c-f	3292	ab
AAC Edward	SeCan	2375	2306				2106	gh	2506	efg
SVX16T00S2	Sevita Genetics	2475	3307				3297	a-d	3317	a
SVX16T0S1	Sevita Genetics	2525	3044				3322	abc	2766	c-f
SVX16T0S4	Sevita Genetics	2550	2948				2925	ef	2972	a-e
SVX16T0S5	Sevita Genetics	2550	3045				2953	def	3136	a-d
SVX16T0S8	Sevita Genetics	2575	3148				3143	a-e	3153	a-d
SVX17T00S23	Sevita Genetics	2475	2971				3144	a-e	2798	b-e
Meteor	PROSeeds	2450	3285				3398	ab	3172	a-d
AAC Mandor	PROSeeds	2475	2621				2960	def	2281	fgh
DH863	PROSeeds	2500	3045				3135	b-e	2955	a-e
MISTY	PROSeeds	2500	3046				3031	c-f	3061	a-d
DH404	PROSeeds	2525	3221				3202	a-e	3239	abc
DH401	PROSeeds	2550	3270				3272	a-e	3268	abc
Astor	PROSeeds	2575	2730				2692	f	2769	c-f
SVX14T00S3	PROSeeds	2575	3039				3133	b-e	2945	a-e
SVX15T00S2	Sevita Genetics	2575	2931				3058	b-e	2805	b-e
LSD (P=.05)							352.5		505.2	
Standard Deviation							249.2		357.2	
CV							8.37		12.51	
Grand mean							2976.8		2855.03	

Means followed by the same letter are not significantly different at $p \leq 0.05$

* Harrington, PEI & Hartland NB data only - CV for Yield at Truro & Canning, NS sites too high in 2016

Table 11 . Yield Index (2, 3 & 4 years) for Conventional 2600+ HU Soybean Varieties tested in 2016

Variety	Seed Company	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
Taurus	Prograin	2600	100%	3147	100%	3068	103%	3067	105%	3168
Narita	Prograin	2600	102%	3221	103%	3160	107%	3179	106%	3202
SVX17T0S2	Sevita Genetics	2600							92%	2762
Celebrity	Sevita Genetics	2600	95%	3003	95%	2924	92%	2725	90%	2724
DH618	PROSeeds	2600	107%	3380	108%	3310	106%	3152	103%	3105
AURIGA	ELITE	2625			95%	2918	92%	2738	89%	2691
ETNA	ELITE	2650	96%	3042	96%	2955	95%	2829	105%	3173
PR1427836	Prograin	2650							105%	3163
DS045C0	Dow Seeds	2650					104%	3104	100%	3015
SAVANNA	PROSeeds	2650	102%	3215	100%	3068	99%	2962	101%	3032
Marula	Prograin	2700			102%	3128	105%	3114	109%	3271
SVX15T0S4	Sevita Genetics	2700							98%	2940
Black Pearl	Dave & Rose Viaene	2750					98%	2926	101%	3040
HS 09C02	Dow Seeds	2750	97%	3075	99%	3030	99%	2961	102%	3079
DS101C0	Dow Seeds	2775							93%	2789
Means (kg/ha)				3155		3062		2978		3010
Station years				13-14		9-10		3-7**		2*

* Harrington, PEI & Hartland NB data only - CV for Yield at Truro & Canning, NS sites too high in 2016

**Highlighted entries tested in Screening trial at one site only(Truro, NS) in 2015

Table 12 . 2014-2016 Conventional 2600+ Soybean Agronomic Data

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
Taurus	19.7	72	10	1.0	123	43.0	16.8
Narita	21.8	62	9	1.1	122	40.2	18.2
SVX17T0S2	22.2	57	8	1.0	130	40.9	17.8
Celebrity	18.0	58	9	1.2	123	40.5	17.6
DH618	19.9	65	11	1.2	124	40.3	18.3
AURIGA	20.2	61	11	1.2	128	36.4	18.7
ETNA	19.9	60	10	1.1	127	39.7	18.9
PR1427836	20.6	62	9	1.0	133	42.8	17.6
DS045C0	18.7	72	11	1.2	126	42.2	17.3
SAVANNA	20.2	61	10	1.1	123	40.1	18.0
Marula	21.8	66	9	1.0	125	41.5	17.7
SVX15T0S4	20.3	62	8	1.1	131	38.9	18.5
Black Pearl	20.4	72	9	1.4	130	40.3	20.2
HS 09C02	19.2	59	9	1.1	128	38.2	17.9
DS101C0	20.0	59	7	1.0	136	39.2	17.7
Means	20.2	63.2	9.3	1.1	127.3	40.3	18.1
Station years	4-12	4-11	3-10	3-10	4-12	4-7	4-7

One year data only (4 station years)

Two years data only (5-8 station years)

Three years data (10-12 station years)

Table 13. 2016 Conventional 2600+ HU Soybean Varieties Mean Overall Yields and Site Yields

Entry Name	Seed Company	HU Req.	Yield (kg/ha)										
			Mean of 2 Sites*		Canning NS		Truro NS		Harrington PEI		Hartland NB		
Taurus	Prograin	2600	3168							2968	ab	3367	ab
Narita	Prograin	2600	3202							2859	ab	3545	a
SVX17T0S2	Sevita Genetics	2600	2762							2800	ab	2725	de
Celebrity	Sevita Genetics	2600	2724							2908	ab	2540	e
DH618	PROSeeds	2600	3105							2997	ab	3213	abc
AURIGA	ELITE	2625	2691							2454	c	2928	cde
ETNA	ELITE	2650	3173							2967	ab	3379	ab
PR1427836	Prograin	2650	3163							2813	ab	3513	a
DS045C0	Dow Seeds	2650	3015							3096	a	2934	cde
SAVANNA	PROSeeds	2650	3032							2798	ab	3266	abc
Marula	Prograin	2700	3271							3022	ab	3519	a
SVX15T0S4	Sevita Genetics	2700	2940							2796	ab	3083	bcd
Black Pearl	Dave & Rose Viaene	2750	3040							2742	bc	3338	abc
HS 09C02	Dow Seeds	2750	3079							2721	bc	3436	ab
DS101C0	Dow Seeds	2775	2789							2858	ab	2721	de
<i>LSD (P=.05)</i>										306.9		412	
<i>Standard Deviation</i>										214.8		288.3	
<i>CV</i>										7.53		9.1	
Grand mean										2853.29		3167.29	

Means followed by the same letter are not significantly different at $p \leq 0.05$

*Harrington, PEI & Hartland NB data only - CV for Yield at Truro & Canning, NS sites too high in 2016

Table 14. Yield Index (2, 3 & 4 years) for RR 2200-2500 HU Soybean Varieties tested in 2016

Variety	Seed Company	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
NOTUS R2	ELITE	2100					76%	2373	79%	2345
AKRAS R2	ELITE	2250			96%	3164	98%	3052	100%	2975
NSC LIBAU RR2Y	North Star Genetics	2250	95%	3260	96%	3169	102%	3179	101%	2995
S0009-M2	Syngenta	2275					84%	2600	87%	2578
23-60RY	DEKALB	2350	90%	3099	90%	2947			88%	2621
S007-Y4	Syngenta	2350			97%	3206	95%	2945	95%	2831
NSC AUSTIN RR2Y	North Star Genetics	2375							95%	2823
S00-N6	Syngenta	2400					98%	3040	95%	2825
24-12RY	DEKALB	2425					87%	2689	86%	2563
24-10RY	DEKALB	2425	93%	3203	97%	3199			98%	2928
PS 0055 R2	PRIDE Seeds	2425					99%	3067	98%	2923
P006T78R	Pioneer Hi-Bred	2425					90%	2795	87%	2586
X2R00753	Syngenta	2425					99%	3081	97%	2892
Kendo R2	Prograin	2450					103%	3193	100%	2967
HS 006RYS24	DOW Seeds	2450			91%	3002	92%	2869	95%	2813
PRO 2525R2	PROSeeds	2450	101%	3453	101%	3309	104%	3236	104%	3088
NSC ARNAUD RR2Y	North Star Genetics	2475							111%	3292
PS 0074 R2	PRIDE Seeds	2475	107%	3672	109%	3578	113%	3523	113%	3360
P008T70R	Pioneer Hi-Bred	2475							100%	2988
HS 007RY32	DOW Seeds	2475	97%	3311	98%	3238	100%	3118	103%	3073
S009-J1	Syngenta	2475							106%	3142
25-11RY	DEKALB	2500					120%	3731	119%	3546
NSC JADEN R2	ELITE	2500	101%	3473	106%	3472	109%	3375	111%	3293
NSC OSBORNE RR2Y	North Star Genetics	2500	107%	3677	109%	3580	113%	3516	112%	3341
Astro R2	Prograin	2500	101%	3470	102%	3347	105%	3272	106%	3159
LS008R21	PROSeeds	2575	106%	3640	108%	3545	113%	3507	114%	3406
Means (kg/ha)				3426		3289		3108		2975
Station years				16-17		12		8-9		4

Table 15. 2014-2016 RR 2200-2500 HU Soybean Agronomic Data

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
NOTUS R2	20.3	49	8	1.1	115	39.5	17.9
AKRAS R2	18.7	54	11	1.1	115	38.1	18.0
NSC LIBAU RR2Y	18.1	59	9	1.2	115	40.3	18.1
S0009-M2	15.9	53	9	1.1	112	37.8	18.7
23-60RY	17.7	64	8	1.2	112	38.8	18.1
S007-Y4	17.4	56	9	1.0	114	38.2	18.7
NSC AUSTIN RR2Y	18.4	53	7	1.0	118	39.3	18.4
S00-N6	17.7	66	8	1.3	120	38.9	18.0
24-12RY	17.7	59	7	1.4	120	40.5	18.0
24-10RY	18.7	54	8	1.1	116	38.7	17.2
PS 0055 R2	15.1	60	8	1.3	121	37.3	18.4
P006T78R	18.9	53	7	1.0	118	40.2	17.4
X2R00753	15.8	56	7	1.2	120	41.4	18.3
Kendo R2	19.8	64	8	1.1	123	41.5	18.0
HS 006RYS24	18.3	62	8	1.1	117	39.7	17.7
PRO 2525R2	19.9	64	9	1.1	120	39.6	18.3
NSC ARNAUD RR2Y	18.1	71	8	1.6	123	40.5	17.7
PS 0074 R2	15.8	63	8	1.4	119	38.5	18.6
P008T70R	18.0	59	7	1.0	120	39.5	18.4
HS 007RY32	19.5	58	9	1.0	118	38.3	18.6
S009-J1	19.9	56	6	1.0	122	39.4	18.6
25-11RY	16.8	71	9	1.4	124	39.4	19.0
NSC JADEN R2	17.0	66	9	1.2	119	38.4	18.6
NSC OSBORNE RR2Y	19.5	67	10	1.3	119	39.5	18.0
Astro R2	17.5	65	9	1.2	121	38.9	17.7
LS008R21	18.1	64	10	1.2	120	38.8	18.3
Means	18.0	60.2	8.3	1.2	118.5	39.3	18.2
Station years	4-13	4-13	4-13	4-13	4-13	4-13	4-13

One year data only (4 station years)

Two years data only (5-8 station years)

Three years data (10-13 station years)

Table 16. 2016 RR 2200-2500 HU Soybean Varieties Mean Overall Yields and Site Yields

Entry Name	Seed Company	HU Req.	Yield (kg/ha)									
			Mean of 4 Sites		Canning NS		Truro NS		Harrington PEI		Hartland NB	
NOTUS R2	ELITE	2100	2345		2175	g	2610	d-g	2052	l	2544	m
AKRAS R2	ELITE	2250	2975		3268	ab	2808	a-g	2632	f-j	3192	f-l
NSC LIBAU RR2Y	North Star Genetics	2250	2995		3097	a-d	2546	efg	2760	d-h	3578	c-h
S0009-M2	Syngenta	2275	2578		2107	g	2697	c-g	2201	kl	3305	e-k
23-60RY	DEKALB	2350	2621		2418	efg	2737	b-g	2652	f-j	2676	lm
S007-Y4	Syngenta	2350	2831		2590	c-g	3087	a-f	2713	e-i	2934	j-m
NSC AUSTIN RR2Y	North Star Genetics	2375	2823		2873	a-f	3039	a-f	2322	jkl	3059	h-m
S00-N6	Syngenta	2400	2825		2674	b-g	2971	a-g	2489	g-k	3167	f-l
24-12RY	DEKALB	2425	2563		2638	b-g	2304	g	2461	h-k	2850	klm
24-10RY	DEKALB	2425	2928		2654	b-g	3150	a-e	2453	h-k	3455	d-j
PS 0055 R2	PRIDE Seeds	2425	2923		2470	d-g	3341	abc	2685	f-i	3194	f-l
P006T78R	Pioneer Hi-Bred	2425	2586		2267	fg	2435	fg	2546	f-j	3097	f-l
X2R00753	Syngenta	2425	2892		2147	g	3384	abc	2399	ijk	3636	a-f
Kendo R2	Prograin	2450	2967		2841	a-f	2554	efg	3047	bcd	3424	d-j
HS 006RYS24	DOW Seeds	2450	2813		3001	a-e	2757	a-g	2513	g-k	2980	i-m
PRO 2525R2	PROSeeds	2450	3088		2837	a-f	3436	ab	2562	f-j	3515	c-i
NSC ARNAUD RR2Y	North Star Genetics	2475	3292		3372	a	3460	a	2864	c-f	3472	d-j
PS 0074 R2	PRIDE Seeds	2475	3360		2873	a-f	3349	abc	3032	b-e	4186	a
P008T70R	Pioneer Hi-Bred	2475	2988		3153	abc	3194	a-e	2531	g-k	3075	g-m
HS 007RY32	DOW Seeds	2475	3073		2670	b-g	3436	ab	2705	e-i	3480	d-j
S009-J1	Syngenta	2475	3142		2574	c-g	3432	ab	2748	d-h	3813	a-e
25-11RY	DEKALB	2500	3546		3408	a	3285	a-d	3454	a	4035	abc
NSC JADEN R2	ELITE	2500	3293		3101	a-d	3381	abc	3071	bcd	3620	b-g
NSC OSBORNE RR2Y	North Star Genetics	2500	3341		3141	abc	3122	a-f	3306	ab	3795	a-e
Astro R2	Prograin	2500	3159		3348	a	2590	d-g	2814	d-g	3884	a-d
LS008R21	PROSeeds	2575	3406		3404	a	2908	a-g	3150	abc	4162	ab
	<i>LSD (P=.05)</i>				655.2		714.4		331.1		550.8	
	<i>Std Deviation</i>				463.3		505.1		234.1		389.5	
	<i>CV</i>				16.48		16.83		8.68		11.49	
	<i>Grand mean</i>				2811.68		3000.55		2698.46		3389.51	

Means followed by the same letter are not significantly different at $p \leq 0.05$

Table 17. Yield Index (2, 3 & 4 years) for RR 2500-2700 HU Soybean Varieties tested in 2016

Variety	Seed Company	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
90Y01	Pioneer Hi-Bred	2525	93%	3160	90%	3085	88%	2923	91%	2807
PODAGA R2	ELITE	2475					97%	3231	95%	2940
P01T23R	Pioneer Hi-Bred	2525	99%	3352	96%	3289	93%	3109	91%	2823
COLT R2	ELITE	2575			96%	3281	95%	3181	95%	2944
PRO 2535R2	PROSeeds	2575	103%	3467	103%	3529	105%	3521	102%	3142
26-14RY	DEKALB	2600					102%	3410	106%	3285
Theo R2	Prograin	2600	102%	3438	98%	3359	100%	3349	103%	3186
HYDRA R2	ELITE	2550					102%	3395	105%	3237
HS 03RY33	DOW Seeds	2625			105%	3616	107%	3579	109%	3359
S04-D3	Syngenta	2625			96%	3305	96%	3217	96%	2971
26-10RY	DEKALB	2650					99%	3291	99%	3057
5A040RR2	DOW Seeds	2650					99%	3310	103%	3200
PRO 2625R2	PROSeeds	2650	104%	3510	105%	3600	108%	3608	107%	3300
PS 0416 R2	PRIDE Seeds	2675			99%	3390	99%	3305	99%	3078
P06T28R	Pioneer Hi-Bred	2650					103%	3423	101%	3122
27-12RY	DEKALB	2700			115%	3933	118%	3948	117%	3632
Nitro R2	Prograin	2700			98%	3368	99%	3299	98%	3030
Mundo R2	Prograin	2700	99%	3365	99%	3392	100%	3326	95%	2942
S06-C4	Syngenta	2700					90%	2991	88%	2726
Means (kg/ha)				3382		3429		3338		3094
Station years				15-16		11-12		5-9		4

***Highlighted entries tested in Screening trial at one site only(Truro, NS) in 2015*

Table 18. 2014-2016 RR 2500-2700 HU Soybean Agronomic Data

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
90Y01	17.2	57	8	1.1	119	37.4	19.3
PODAGA R2	18.8	64	9	1.2	118	38.8	18.8
P01T23R	18.0	54	8	1.0	119	37.5	18.4
COLT R2	16.0	64	9	1.3	124	38.3	18.6
PRO 2535R2	20.0	73	10	1.4	126	39.2	18.2
26-14RY	15.6	62	9	1.4	126	39.6	17.7
Theo R2	17.6	70	9	1.2	126	39.7	17.1
HYDRA R2	18.2	67	10	1.1	122	38.3	19.6
HS 03RY33	18.6	67	11	1.1	128	39.5	18.2
S04-D3	18.1	63	8	1.1	124	39.3	17.7
26-10RY	15.4	55	9	1.1	123	38.5	17.2
5A040RR2	17.2	66	9	1.2	131	39.3	17.8
PRO 2625R2	19.5	66	9	1.1	126	39.6	17.9
PS 0416 R2	16.2	61	9	1.2	126	40.5	18.3
P06T28R	18.1	65	9	1.1	130	40	18.0
27-12RY	18.5	66	12	1.2	128	41	17.8
Nitro R2	20.0	67	9	1.0	127	38.3	18.5
Mundo R2	18.8	62	9	1.0	128	40.4	17.3
S06-C4	17.8	57	7	1.0	130	41	16.8
Means	17.9	63.5	9.1	1.1	125.3	39.3	18.1
Station years	4-12	3-11	3-10	3-10	3-10	4-10	4-10

Two years data only (5-8 station years)

Three years data (10-12 station years)

Table 19. 2016 RR 2500-2700 HU Soybean Varieties Mean Overall Yields and Site Yields

Entry Name	Seed Company	HU Req.	Yield (kg/ha)									
			Mean of 4 Sites		Canning NS		Truro NS		Harrington PEI		Hartland NB	
90Y01	Pioneer Hi-Bred	2525	2807		2820	def	2678	b-h	2714	g	3018	def
PODAGA R2	ELITE	2475	2940		2892	b-f	2104	h	3510	bc	3253	b-f
P01T23R	Pioneer Hi-Bred	2525	2823		2557	f	2318	fgh	3082	efg	3335	b-e
COLT R2	ELITE	2575	2944		3143	a-e	2447	e-h	3410	b-e	2777	fgh
PRO 2535R2	PROSeeds	2575	3142		3385	ab	2636	c-h	3340	b-f	3206	b-f
26-14RY	DEKALB	2600	3285		3079	a-e	2945	a-e	3538	bc	3581	abc
Theo R2	Prograin	2600	3186		3338	abc	2908	a-f	3480	bcd	3016	def
HYDRA R2	ELITE	2550	3237		3072	a-e	2523	d-h	3694	ab	3660	ab
HS 03RY33	DOW Seeds	2625	3359		3547	a	2880	a-g	3553	bc	3455	a-d
S04-D3	Syngenta	2625	2971		2735	ef	2862	b-g	3279	c-f	3010	d-g
26-10RY	DEKALB	2650	3057		2884	b-f	3472	a	3490	bcd	2380	h
5A040RR2	DOW Seeds	2650	3200		3306	a-d	3272	ab	3420	b-e	2803	fgh
PRO 2625R2	PROSeeds	2650	3300		3255	a-d	3176	abc	3121	def	3647	ab
PS 0416 R2	PRIDE Seeds	2675	3078		2835	c-f	3021	a-e	3369	b-f	3089	c-f
P06T28R	Pioneer Hi-Bred	2650	3122		2872	c-f	3169	abc	3529	bc	2916	efg
27-12RY	DEKALB	2700	3632		3553	a	3101	a-d	4011	a	3862	a
Nitro R2	Prograin	2700	3030		3274	a-d	2306	gh	3368	b-f	3172	b-f
Mundo R2	Prograin	2700	2942		2972	b-f	3057	a-d	3221	c-f	2516	gh
S06-C4	Syngenta	2700	2726		2676	ef	2431	e-h	3021	fg	2777	fgh
	<i>LSD (P=.05)</i>					508		598.6		386.8		498.9
	<i>Std Deviation</i>					359.2		423.3		273.5		352.8
	<i>CV</i>					11.73		15.09		8.1		11.27
	<i>Grand mean</i>					3062.87		2805.59		3376.34		3130.06

Means followed by the same letter are not significantly different at $p \leq 0.05$

Table 20. Yield Index (2, 3 & 4 years) for RR 2700-2850 HU Soybean Varieties tested in 2016

Variety	Seed Company	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
P08T96R	Pioneer Hi-Bred	2725							109%	3557
PS 0650 R2	PRIDE Seeds	2750					87%	3093	92%	2999
S08-U4	Syngenta	2750					92%	3278	91%	2981
NSC PAGASIS RR2Y	North Star Genetics	2750					102%	3626	99%	3257
NSC GARNET RR2Y	North Star Genetics	2750					103%	3643	99%	3256
P09T74R2	Pioneer Hi-Bred	2750					101%	3578	102%	3333
90Y90	Pioneer Hi-Bred	2750			95%	3402	94%	3347	88%	2867
5A075RR2	DOW Seeds	2750					114%	4054	114%	3724
HS 08RY51	DOW Seeds	2750					96%	3398	96%	3143
KATONDA R2	ELITE	2775					101%	3585	103%	3386
Miko R2	Prograin	2775					106%	3759	108%	3536
91Y01	Pioneer Hi-Bred	2775			106%	3800	108%	3825	107%	3505
P10T48R	Pioneer Hi-Bred	2775							103%	3359
HS 09RYS12	DOW Seeds	2775	98%	3377	98%	3505	97%	3452	96%	3148
Maxo R2	Prograin	2800	102%	3485	101%	3593	104%	3684	103%	3386
S10-S1	Syngenta	2800							93%	3054
S11-N4	Syngenta	2825					96%	3428	95%	3126
DS124U1	DOW Seeds	2850							101%	3310
Means (kg/ha)			3431		3575		3554		3274	
Station years			12-15		8-12		5-9		4	

****Highlighted entries tested in Screening trial at one site only(Truro, NS) in 2015**

Table 21. 2014-2016 RR 2700-2850 HU Soybean Agronomic Data

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
P08T96R	19.3	63	8	1.1	134	38.7	18.1
PS 0650 R2	19.7	55	9	1.0	124	39.7	17.7
S08-U4	17.6	67	8	1.2	132	43.8	17.1
NSC PAGASIS RR2Y	17.8	73	12	1.1	131	40.9	16.7
NSC GARNET RR2Y	17.6	70	11	1.1	133	41.5	16.7
P09T74R2	17.1	68	10	1.0	135	40.2	17.7
90Y90	18.1	64	10	1.0	129	39.1	17.5
5A075RR2	19.7	68	10	1.0	134	38.2	18.6
HS 08RY51	18.2	59	8	1.1	135	38.8	17.1
KATONDA R2	18.0	67	9	1.3	134	41.9	17.2
Miko R2	18.1	69	10	1.4	132	40.2	17.5
91Y01	18.4	68	10	1.2	130	37.6	18.1
P10T48R	17.8	63	10	1.2	136	38.6	17.3
HS 09RYS12	17.0	64	9	1.1	130	38.8	17.9
Maxo R2	17.4	68	12	1.0	129	39.1	17.1
S10-S1	18.3	60	8	1.1	134	40.1	17.4
S11-N4	17.2	69	10	1.1	134	40.1	16.9
DS124U1	17.7	69	10	1.2	136	41.0	17.3
P08T96R	19.3	63	8	1.1	134	38.7	18.1
Means	18.1	65.8	9.7	1.1	132.3	39.9	17.4
Station years	3-10	3-10	3-10	3-10	3-10	4-10	4-10

One year data only (4 station years)

Two years data only (5-8 station years)

Three years data (9-10 station years)

Table 22. 2016 RR 2700-2850 HU Soybean Varieties Mean Overall Yields and Site Yields

Entry Name	Seed Company	HU Req.	Yield (kg/ha)									
			Mean of 4 Sites		Canning NS		Truro NS		Harrington PEI		Hartland NB	
P08T96R	Pioneer Hi-Bred	2725	3557		3580	abc	3956	ab	3450	def	3219	bc
PS 0650 R2	PRIDE Seeds	2750	2999		3099	ef	2815	e	3272	ef	2810	cde
S08-U4	Syngenta	2750	2981		3011	f	3190	de	3503	cde	2221	g
NSC PAGASIS RR2Y	North Star Genetics	2750	3257		3683	a	3284	cde	3774	ab	2288	fg
NSC GARNET RR2Y	North Star Genetics	2750	3256		3671	a	3721	a-d	3600	bcd	2032	g
P09T74R2	Pioneer Hi-Bred	2750	3333		3149	def	3865	ab	3395	def	2925	b-e
90Y90	Pioneer Hi-Bred	2750	2867		3201	def	3274	cde	2929	g	2062	g
5A075RR2	DOW Seeds	2750	3724		3600	ab	3689	a-d	3953	a	3653	a
HS 08RY51	DOW Seeds	2750	3143		3258	c-f	3463	bcd	3480	def	2371	fg
KATONDA R2	ELITE	2775	3386		3325	b-f	3752	abc	3430	def	3039	b-e
Miko R2	Prograin	2775	3536		3438	a-d	4013	ab	3584	bcd	3109	bcd
91Y01	Pioneer Hi-Bred	2775	3505		3413	a-e	3930	ab	3451	def	3227	b
P10T48R	Pioneer Hi-Bred	2775	3359		3555	abc	4075	a	3578	bcd	2228	g
HS 09RYS12	DOW Seeds	2775	3148		3190	def	3493	bcd	3236	f	2674	ef
Maxo R2	Prograin	2800	3386		3568	abc	3606	a-d	3732	abc	2638	ef
S10-S1	Syngenta	2800	3054		3148	def	3298	cde	3744	abc	2026	g
S11-N4	Syngenta	2825	3126		3448	a-d	3169	de	3800	ab	2085	g
DS124U1	DOW Seeds	2850	3310		3403	a-e	3585	a-d	3466	def	2786	de
	<i>LSD (P=.05)</i>						336.5	553.3	247.6	409.3		
	<i>Std Deviation</i>						237.9	387.2	175.1	289.4		
	<i>CV</i>						7.05	10.86	4.97	10.99		
	<i>Grand mean</i>						3374.5	3565.44	3520.99	2633.01		

Means followed by the same letter are not significantly different at $p \leq 0.05$

Site Summaries

The following are the Analysis of variance tables for each of the four sites for the Conventional and RR soybean tests. Please refer to Appendix A for scale definitions.

Conventional 2200-2600 HU Soybean Variety Evaluation Site Summaries

Table 23. AOV Table for Conventional 2200-2600 HU Soybean Variety Evaluation – Canning, NS

Entry No.	Entry Name	Yield* kg/ha	100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Maturity DAP	Oil %		Protein %		
1	AAC Malika		19.5	cde	58	def	8	e	129		18.1	a-d	38.4	gh
2	JARI		19.6	b-e	82	a	11	a-d	123		16.2	g	47.1	a
3	Tundra		18.6	de	72	a-d	9	cde	114		16.5	efg	39.2	fgh
4	Hana		19.4	cde	56	ef	9	de	129		18.2	abc	42.4	bcd
5	AAC Edward		14.8	f	63	b-f	11	a-d	114		18.7	a	36.8	h
6	SVX16T00S2		18.7	de	74	abc	10	b-e	114		18.7	a	39.4	efg
7	SVX16T0S1		17.3	ef	60	c-f	10	cde	118		18.3	ab	38.3	gh
8	SVX16T0S4		20.1	b-e	78	ab	12	ab	121		17.8	a-f	38.3	gh
9	SVX16T0S5		25.2	a	72	a-d	13	a	128		16.4	fg	43.8	b
10	SVX16T0S8		22.5	abc	75	ab	11	a-d	125		18	a-e	43.1	bc
11	SVX17T00S23		24.5	a	66	b-f	10	b-e	125		16.9	b-g	43	bc
12	Meteor		20.7	bcd	66	b-f	10	cde	114		16.7	d-g	42.2	bcd
13	AAC Mandor		20.7	bcd	72	a-e	9	cde	128		18.7	a	38.6	gh
14	DH863		21.2	bcd	66	b-f	9	de	126		17.1	b-g	41.9	b-e
15	MISTY		18.8	de	77	ab	12	abc	119		18.3	ab	40.6	c-g
16	DH404		18.9	de	73	a-d	10	cde	115		16.6	d-g	43.2	bc
17	DH401		19.6	b-e	73	a-d	11	a-d	118		17.4	a-g	43.5	b
18	Astor		22.8	ab	63	b-f	10	b-e	121		18.8	a	40.1	d-g
19	SVX14T00S3		20.8	bcd	54	f	9	de	129		16.8	c-g	41.8	b-f
20	SVX15T00S2		22.3	abc	69	a-f	12	abc	119		17.3	a-g	42.8	bc
LSD (P=.05)			3.22		15.4		2.7				1.5		2.58	
Std Dev			1.54		10.9		1.9				0.72		1.23	
CV			7.59		15.9		18.34				4.09		2.99	
Grand Mean			20.28		68.43		10.26		121.45		17.57		41.22	

***Yields not included due to high CV for this site**

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Table 24. AOV Table for Conventional 2200-2600 HU Soybean Variety Evaluation – Truro, NS

Entry No.	Entry Name	Yield* kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Maturity DAP	Oil %		Protein %		
1	AAC Malika			21.3	c-f	55	c-g	9	a	129		16.6	c-g	40.7	efg
2	JARI			20.1	f-i	59	bcd	11	a	125		14.9	i	44.2	abc
3	Tundra			21	d-g	51	g	9	a	118		16.6	c-g	38.3	g
4	Hana			19.1	hi	59	bc	10	a	129		16.2	efg	46.3	a
5	AAC Edward			18.8	i	59	bc	11	a	119		17.8	b	44.6	ab
6	SVX16T00S2			20.5	d-h	67	a	11	a	119		17.4	bcd	43.7	a-d
7	SVX16T0S1			19.7	ghi	53	d-g	10	a	121		17.6	bc	41.2	d-g
8	SVX16T0S4			20.8	d-g	52	fg	11	a	123		17.4	bcd	40.6	efg
9	SVX16T0S5			22.7	abc	61	abc	11	a	126		17.2	b-e	43.3	b-e
10	SVX16T0S8			21.1	d-g	58	b-e	11	a	124		16.8	b-g	43.7	a-d
11	SVX17T00S23			23.2	a	56	b-g	11	a	122		16.5	d-g	44	a-d
12	Meteor			21.6	b-e	62	ab	10	a	126		15.1	hi	46.4	a
13	AAC Mandor			20.8	d-g	60	bc	11	a	127		17.1	b-e	39.3	fg
14	DH863			21.9	a-d	58	b-f	10	a	123		16	fgh	44.8	ab
15	MISTY			20.2	e-i	61	bc	10	a	121		16.8	b-g	42.8	b-e
16	DH404			21	d-g	57	b-g	9	a	122		15.9	ghi	45.2	ab
17	DH401			21	d-g	58	b-e	10	a	125		16	fgh	45.5	ab
18	Astor			23	ab	52	efg	9	a	129		18.9	a	40.5	efg
19	SVX14T00S3			20.2	e-i	53	d-g	9	a	129		17	b-f	41.4	c-f
20	SVX15T00S2			21.5	b-f	56	b-g	11	a	125		17.6	bcd	42.7	b-e
LSD (P=.05)				1.54		6.3		1.8				1.09		2.92	
Std Dev				0.73		4.5		1.3				0.52		1.39	
CV				3.51		7.83		12.76				3.1		3.24	
Grand Mean				20.95		57.3		10.18				16.78		42.96	

***Yields not included due to high CV for this site**

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Table 25. AOV Table for Conventional 2200-2600 HU Soybean Variety Evaluation – Harrington, PEI

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity DAP		Oil %		Protein %	
		kg/ha	g	g	g	cm	cm	cm	cm	cm	cm	%	%	%	%
1	AAC Malika	2330	g	17.1	i	57	fg	3	hi	131	bc	17.5	efg	36.3	jk
2	JARI	3493	a	18.7	ef	73	a	8	a	132	b	16.9	fg	44.8	a
3	Tundra	1934	h	16.4	k	57	fg	4	fgh	119	g	17.7	def	38.7	hij
4	Hana	3008	c-f	16.8	j	61	def	5	efg	133	a	17.8	c-f	42.7	a-d
5	AAC Edward	2106	gh	15.2	l	53	g	4	ghi	118	g	19.2	a	37.9	ijk
6	SVX16T00S2	3297	a-d	16.8	j	68	abc	7	ab	127	e	18.6	a-d	40.8	c-h
7	SVX16T0S1	3322	abc	18.4	fg	62	c-f	6	cde	128	d	18.7	a-d	40.3	d-i
8	SVX16T0S4	2925	ef	18.3	g	65	bcd	6	cd	124	f	19.2	a	39.7	f-i
9	SVX16T0S5	2953	def	19.6	a	61	def	5	efg	131	bc	17.1	fg	42.3	a-e
10	SVX16T0S8	3143	a-e	18.3	g	61	def	6	bc	133	a	18.8	abc	40	e-i
11	SVX17T00S23	3144	a-e	19	cd	57	fg	5	def	131	bc	18	b-f	41.8	b-f
12	Meteor	3398	ab	19.5	ab	67	a-d	7	bc	126	e	17.2	fg	42.9	abc
13	AAC Mandor	2960	def	17.8	h	62	c-f	6	cde	126	e	18.4	a-e	36.2	k
14	DH863	3135	b-e	18.8	de	63	c-f	6	bc	127	e	17.3	fg	43.8	ab
15	MISTY	3031	c-f	17.2	i	70	ab	6	cd	129	d	17.9	c-f	39.1	ghi
16	DH404	3202	a-e	18.6	ef	64	b-e	5	def	126	e	17.2	fg	43.4	ab
17	DH401	3272	a-e	19.4	ab	65	bcd	6	cd	127	e	16.5	g	42.8	a-d
18	Astor	2692	f	19.2	bc	58	efg	3	i	131	bc	18.9	ab	38.8	hi
19	SVX14T00S3	3133	b-e	19.6	a	54	g	5	def	130	c	17.4	efg	41.9	b-f
20	SVX15T00S2	3058	b-e	18.7	de	63	c-f	6	cd	124	f	17.9	b-f	41.4	b-g
LSD (P=.05)		352.5		0.31		6.4		1		1.1		1.03		2.45	
Std Dev		249.2		0.22		4.5		0.7		0.8		0.49		1.17	
CV		8.37		1.22		7.35		13.86		0.64		2.74		2.87	
Grand Mean		2976.8		18.17		61.8		5.28		127.6		17.9		40.78	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Table 26. AOV Table for Conventional 2200-2600 HU Soybean Variety Evaluation – Hartland, NB

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Maturity DAP		Oil %		Protein %	
		kg/ha		g		cm							
1	AAC Malika	1858	h	20.4	def	48	h	124	bc	16.8	efg	38.3	gh
2	JARI	2723	def	19.9	f	68	a-e	123	cd	16.5	fg	44	ab
3	Tundra	2083	gh	19.9	ef	47	h	109	f	17.9	b-e	36.7	h
4	Hana	3292	ab	19.7	f	56	e-h	124	bc	16.9	efg	44.4	ab
5	AAC Edward	2506	efg	17.8	g	52	gh	112	e	19.6	a	38.7	fgh
6	SVX16T00S2	3317	a	20.3	ef	71	ab	122	cd	17.2	def	42.3	bcd
7	SVX16T0S1	2766	c-f	17.9	g	56	e-h	123	cd	17.4	c-f	41.1	cde
8	SVX16T0S4	2972	a-e	19.8	f	69	a-d	123	cd	17.9	b-e	39.3	efg
9	SVX16T0S5	3136	a-d	22.6	a	54	fgh	125	ab	17.3	c-f	40.9	cde
10	SVX16T0S8	3153	a-d	20.5	c-f	54	fgh	126	a	16.9	efg	40.6	def
11	SVX17T00S23	2798	b-e	20.5	c-f	65	a-f	124	bc	17.2	def	40.6	def
12	Meteor	3172	a-d	21.3	bcd	70	abc	123	cd	17	ef	43.1	abc
13	AAC Mandor	2281	fgh	20.9	cde	47	h	112	e	17.6	b-f	38.6	fgh
14	DH863	2955	a-e	21.3	bcd	75	a	122	d	17.1	ef	43.9	ab
15	MISTY	3061	a-d	18.3	g	63	a-g	123	cd	18.2	a-e	41	cde
16	DH404	3239	abc	20.9	cde	65	a-f	122	d	17	ef	43.6	ab
17	DH401	3268	abc	21.4	bc	58	c-h	122	d	15.5	g	44.6	a
18	Astor	2769	c-f	22.7	a	61	b-g	126	a	18.5	a-d	41	cde
19	SVX14T00S3	2945	a-e	22.2	ab	57	d-h	125	ab	18.7	abc	40.1	d-g
20	SVX15T00S2	2805	b-e	21.4	bc	67	a-e	126	a	18.8	ab	40.2	d-g
LSD (P=.05)		505.2		0.96		12.3		1.7		1.43		2.19	
Std Dev		357.2		0.46		8.7		1.2		0.68		1.05	
CV		12.51		2.24		14.44		1		3.89		2.55	
Grand Mean		2855.03		20.45		60.09		121.72		17.5		41.15	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Conventional 2600+ HU Soybean Variety Evaluation Site Summaries

Table 27. AOV Table for Conventional 2600+ HU Soybean Variety Evaluation – Canning, NS

Entry No.	Entry Name	Yield* kg/ha		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity DAP		Oil %		Protein %	
				g		cm		cm							
1	Taurus			21.5	cde	72	ab	11	bcd	124		16.7	e	41	abc
2	Narita			22.1	bcd	65	bcd	10	cd	124		18.3	cde	39.4	a-d
3	SVX17T0S2			22.5	bc	55	de	9	de	125		17.9	de	38.8	b-e
4	Celebrity			21.5	cde	58	cde	11	bcd	130		17	e	40.7	a-d
5	DH618			21.4	cde	76	a	11	bcd	127		18.7	bcd	40.2	a-d
6	AURIGA			20.7	cde	72	ab	13	a	132		19.5	abc	35.9	ef
7	ETNA			21.4	cde	64	bcd	12	abc	130		18.8	bcd	39.6	a-d
8	PR1427836			20.6	de	60	cde	12	ab	125		18.1	cde	41.8	ab
9	DS045C0			21	cde	65	bc	11	bcd	129		17.4	de	41.5	ab
10	SAVANNA			21.2	cde	73	ab	10	bcd	124		18	cde	38.3	cde
11	Marula			23.8	ab	72	ab	11	bcd	129		17.7	de	40.5	a-d
12	SVX15T0S4			20.2	e	59	cde	9	de	124		20.2	ab	34.6	f
13	Black Pearl			24.4	a	80	a	10	bcd	126		20.6	a	42.1	a
14	HS 09C02			20.9	cde	59	cde	10	bcd	136		18.2	cde	37.6	def
15	DS101C0			21	cde	53	e	7	e	131		18.1	cde	37.9	cde
LSD (P=.05)				1.79		10		2.3		.		1.53		3.16	
Std Dev				0.83		7		1.6		.		0.72		1.47	
CV				3.86		10.68		15.67		.		3.9		3.74	
Grand Mean				21.59		65.5		10.41		127.73		18.35		39.32	

***Yields not included due to high CV for this site**

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Table 28. AOV Table for Conventional 2600+ HU Soybean Variety Evaluation – Truro, NS

Entry No.	Entry Name	Yield* kg/ha		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity DAP	Oil %		Protein %	
				g		cm		cm						
1	Taurus			22.5	a	77	a	13	ab	130	16.1	a	45.3	a
2	Narita			24.6	a	61	cd	11	cde	128	17.1	a	43.3	a
3	SVX17TOS2			24.1	a	61	cd	11	b-e	130	17.6	a	43	a
4	Celebrity			26.4	a	55	d	9	e	128	17.3	a	42.2	a
5	DH618			24.1	a	66	bc	11	cde	131	17.4	a	41.5	a
6	AURIGA			27.7	a	69	abc	13	abc	141	17.5	a	40.8	a
7	ETNA			23.1	a	60	cd	12	a-d	131	17.5	a	42.4	a
8	PR1427836			22	a	62	cd	9	de	134	17	a	43.7	a
9	DS045C0			24.2	a	76	ab	13	a	134	17.7	a	42.2	a
10	SAVANNA			26.1	a	61	cd	10	cde	130	17.5	a	42.7	a
11	Marula			25	a	70	abc	14	a	132	16.7	a	43.2	a
12	SVX15TOS4			24	a	70	abc	9	e	131	16.8	a	43.3	a
13	Black Pearl			24	a	69	abc	11	b-e	138	19	a	43.3	a
14	HS 09C02			24	a	62	cd	10	de	140	17.1	a	40.6	a
15	DS101C0			25.5	a	54	d	9	e	134	17.3	a	40.6	a
LSD (P=.05)				2.93		10.3		2.4		.	1.41		2.77	
Std Dev				1.37		7.2		1.7		.	0.66		1.29	
CV				5.58		11.06		15.49		.	3.81		3.04	
Grand Mean				24.46		64.99		10.87		132.8	17.3		42.54	

***Yields not included due to high CV for this site**

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Table 29. AOV Table for Conventional 2600+ HU Soybean Variety Evaluation – Harrington, PEI

Entry No.	Entry Name	Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Maturity DAP		Oil %		Protein %	
1	Taurus	2968	ab	19.4	c	78	a	5	b-e	135	fg	16.5	f	44.8	a
2	Narita	2859	ab	19.9	b	64	c-f	6	a	129	i	18.8	bcd	38.9	de
3	SVX17TOS2	2800	ab	19.8	b	50	g	5	b-e	136	f	19.2	ab	39.5	cde
4	Celebrity	2908	ab	16.1	i	61	ef	5	de	134	gh	18.7	bcd	41.4	bc
5	DH618	2997	ab	18.8	d	67	b-e	6	ab	135	fg	19.3	ab	39.5	cde
6	AURIGA	2454	c	17	h	60	ef	5	b-e	134	h	20.2	a	32.4	g
7	ETNA	2967	ab	19.7	bc	62	ef	5	cde	141	b	18.9	bcd	39.8	cde
8	PR1427836	2813	ab	18	ef	59	f	5	de	140	c	17.9	de	42.5	b
9	DS045C0	3096	a	17.7	fg	69	bcd	6	abc	143	a	17.9	cde	38.3	e
10	SAVANNA	2798	ab	18.7	d	61	ef	5	a-d	139	d	18.8	bcd	38	ef
11	Marula	3022	ab	20.3	a	72	ab	6	abc	139	cd	17.9	de	41.9	b
12	SVX15TOS4	2796	ab	17.4	g	59	f	5	b-e	137	e	19.6	ab	36.4	f
13	Black Pearl	2742	bc	17.7	fg	71	bc	4	de	143	a	19.4	ab	40.7	bcd
14	HS 09C02	2721	bc	18.3	e	64	c-f	4	e	142	ab	17.5	ef	39.5	cde
15	DS101C0	2858	ab	16.1	i	63	def	5	cde	143	a	19.1	abc	37.9	ef
LSD (P=.05)		306.9		0.33		6.9		1		1.1		1.21		1.97	
Std Dev		214.8		0.23		4.8		0.7		0.8		0.56		0.92	
CV		7.53		1.27		7.58		14.33		0.55		3.03		2.33	
Grand Mean		2853.29		18.33		63.88		5.05		137.95		18.64		39.44	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Table 30. AOV Table for Conventional 2600+ HU Soybean Variety Evaluation – Hartland, NB

Entry No.	Entry Name	Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Oil %		Protein %	
1	Taurus	3367	ab	21.3	cde	77	a	16.8	c-f	46.1	a
2	Narita	3545	a	24.7	a	72	abc	16.6	def	43.7	bc
3	SVX17TOS2	2725	de	22.5	bc	63	c-f	17.9	bc	40.1	hi
4	Celebrity	2540	e	16.7	h	62	def	16	ef	43.5	bcd
5	DH618	3213	abc	19.9	f	68	a-e	17.3	bcd	41.5	e-h
6	AURIGA	2928	cde	21.1	def	57	f	18.4	ab	39.8	i
7	ETNA	3379	ab	21.5	cde	71	a-d	17.8	bcd	41.7	efg
8	PR1427836	3513	a	21.8	bcd	67	b-e	17.1	cde	43.9	bc
9	DS045C0	2934	cde	18.4	g	69	a-d	17.8	bcd	42.6	cde
10	SAVANNA	3266	abc	21.6	cde	62	def	17.7	bcd	42	def
11	Marula	3519	a	22.9	b	74	ab	15.8	f	44.1	b
12	SVX15TOS4	3083	bcd	19.9	f	59	ef	17.2	bcd	39.7	i
13	Black Pearl	3338	abc	20.5	ef	70	a-d	19.5	a	40.7	f-i
14	HS 09C02	3436	ab	20	f	69	a-d	16.9	c-f	40.5	ghi
15	DS101C0	2721	de	17.7	gh	64	c-f	16.7	def	39.8	i
LSD (P=.05)		412		1.25		9.1		1.18		1.51	
Std Dev		288.3		0.58		6.4		0.55		0.7	
CV		9.1		2.83		9.55		3.17		1.67	
Grand Mean		3167.29		20.67		66.78		17.31		41.97	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

RoundUp Ready 2200- 2500 HU Variety Evaluation Site Summaries**Table 31. AOV Table for RoundUp Ready 2200-2500 HU Soybean Variety Evaluation – Canning, NS**

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity DAP	Oil %		Protein %		
		kg/ha	g	g		cm	cm								
1	NOTUS R2	2175	g	20.6	abc	38	ijk	6	efg	110		18.5	c-f	39	bcd
2	AKRAS R2	3268	ab	20.3	bcd	45	e-j	11	a	113		18.8	a-f	38.8	cd
3	NSC LIBAU RR2Y	3097	a-d	18.7	f-j	48	c-h	9	abc	110		18.4	c-f	39.6	abc
4	S0009-M2	2107	g	15.6	m	39	ijk	6	d-g	109		19	a-e	37.2	d
5	23-60RY	2418	efg	18.4	h-k	48	c-g	8	b-g	115		18.8	b-f	38.8	cd
6	S007-Y4	2590	c-g	18.9	f-i	39	ijk	6	efg	114		19.5	ab	38.6	cd
7	NSC AUSTIN RR2Y	2873	a-f	18.6	g-j	37	jk	9	a-e	111		18.2	def	38.5	cd
8	S00-N6	2674	b-g	18.9	f-j	50	b-f	9	a-f	117		19.1	a-d	38.6	cd
9	24-12RY	2638	b-g	18.3	ijk	43	f-j	6	d-g	116		18.9	a-f	39.2	bcd
10	24-10RY	2654	b-g	20.3	bcd	42	g-j	9	a-f	115		17.2	g	41.2	ab
11	PS 0055 R2	2470	d-g	16.1	m	40	ijk	7	c-g	119		18.8	a-f	37.2	d
12	P006T78R	2267	fg	19.6	c-g	37	jk	6	g	111		18.3	def	39.8	abc
13	X2R00753	2147	g	16.5	lm	34	k	6	fg	114		19.3	abc	39.9	abc
14	Kendo R2	2841	a-f	20.1	b-e	51	a-e	7	c-g	119		18.4	c-f	41.5	a
15	HS 006RYS24	3001	a-e	19.4	d-h	57	ab	8	a-f	115		18.1	fg	38.9	cd
16	PRO 2525R2	2837	a-f	21.1	ab	53	abc	10	ab	119		19.1	a-d	38.5	cd
17	NSC ARNAUD RR2Y	3372	a	17.8	jk	52	a-d	9	a-f	118		18	fg	39	bcd
18	PS 0074 R2	2873	a-f	17.4	kl	40	h-k	7	b-g	119		18.5	c-f	39	bcd
19	P008T70R	3153	abc	18.1	ijk	41	g-k	7	b-g	111		18.7	b-f	38.9	cd
20	HS 007RY32	2670	b-g	19.1	e-i	45	d-i	6	efg	116		19.1	a-d	37.4	d
21	S009-J1	2574	c-g	19.7	c-f	39	ijk	6	d-g	114		19.3	abc	38.7	cd
22	25-11RY	3408	a	16.6	lm	58	a	9	a-e	117		19.7	a	38.7	cd
23	NSC JADEN R2	3101	a-d	18.4	h-k	53	abc	9	a-d	118		18.7	b-f	40.2	abc
24	NSC OSBORNE RR2Y	3141	abc	21.5	a	51	b-e	11	a	114		18.4	c-f	39.7	abc
25	Astro R2	3348	a	18.6	g-j	50	b-f	9	a-f	119		18	fg	40.5	abc
26	LS008R21	3404	a	19.7	c-f	52	a-e	9	abc	123		18.1	ef	40.2	abc
LSD (P=.05)		655.2		1.06		7.6		2.6		.		0.92		2.2	
Std Dev		463.3		0.52		5.4		1.9		.		0.45		1.07	
CV		16.48		2.75		11.8		23.56		.		2.4		2.73	
Grand Mean		2811.68		18.76		45.44		7.86		115.23		18.66		39.13	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Table 32. AOV Table for RoundUp Ready 2200-2500 HU Soybean Variety Evaluation – Truro, NS

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity DAP	Oil %		Protein %		
		kg/ha		g		cm		cm							
1	NOTUS R2	2610	d-g	24.7	a	69	fgh	10	cd	120		17.3	a	39	a
2	AKRAS R2	2808	a-g	22.4	bcd	81	a-e	16	a	125		17.1	a	41.1	a
3	NSC LIBAU RR2Y	2546	efg	20.2	e-i	81	a-e	10	cd	125		17.5	a	42.1	a
4	S0009-M2	2697	c-g	17.6	kl	72	e-h	11	bcd	120		18.4	a	37.4	a
5	23-60RY	2737	b-g	19.9	e-i	85	abc	10	cd	120		17.2	a	39.9	a
6	S007-Y4	3087	a-f	19.3	g-k	72	e-h	12	bcd	120		18	a	40.4	a
7	NSC AUSTIN RR2Y	3039	a-f	20.2	e-i	77	b-f	9	d	120		17.5	a	41	a
8	S00-N6	2971	a-g	19.4	g-k	84	a-d	9	cd	122		17.4	a	39.8	a
9	24-12RY	2304	g	21	c-g	80	b-e	9	cd	123		17.3	a	41.7	a
10	24-10RY	3150	a-e	21.1	c-g	64	h	10	cd	124		16.9	a	42.2	a
11	PS 0055 R2	3341	abc	16.8	l	84	a-d	11	bcd	122		17.1	a	39.3	a
12	P006T78R	2435	fg	20.1	e-i	65	gh	10	cd	120		17.2	a	40.8	a
13	X2R00753	3384	abc	17.6	kl	75	c-f	10	cd	122		18	a	41.3	a
14	Kendo R2	2554	efg	21.6	b-e	79	b-e	10	cd	125		17	a	42.6	a
15	HS 006RYS24	2757	a-g	20.6	d-h	83	a-d	10	cd	121		16.6	a	40.2	a
16	PRO 2525R2	3436	ab	23.5	ab	82	a-e	10	cd	130		17.3	a	41.3	a
17	NSC ARNAUD RR2Y	3460	a	19.4	g-k	86	ab	10	cd	128		17.4	a	42	a
18	PS 0074 R2	3349	abc	17.9	jkl	87	ab	10	cd	124		18.4	a	39.5	a
19	P008T70R	3194	a-e	20.6	d-h	84	a-d	11	bcd	125		17.9	a	40.5	a
20	HS 007RY32	3436	ab	22.7	bc	82	a-e	12	bc	127		17.5	a	40.4	a
21	S009-J1	3432	ab	21.4	c-f	72	e-h	9	cd	122		18.2	a	39.3	a
22	25-11RY	3285	a-d	18.6	i-l	84	a-d	10	cd	128		19.3	a	38.6	a
23	NSC JADEN R2	3381	abc	18.9	h-k	87	ab	10	cd	125		18	a	40.2	a
24	NSC OSBORNE RR2Y	3122	a-f	22.9	abc	91	a	12	bcd	124		17.7	a	42.8	a
25	Astro R2	2590	d-g	20.3	e-i	86	ab	13	ab	128		16.3	a	42.4	a
26	LS008R21	2908	a-g	19.6	f-j	75	d-g	11	bcd	126		16.6	a	40.7	a
LSD (P=.05)		714.4		1.9		10.6		3		.		1.59		3.39	
Std Dev		505.1		0.92		7.5		2.1		.		0.77		1.65	
CV		16.83		4.55		9.44		19.94		.		4.4		4.05	
Grand Mean		3000.55		20.29		79.55		10.55		123.69		17.49		40.64	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Table 33. AOV Table for RoundUp Ready 2200-2500 HU Soybean Variety Evaluation – Harrington, PEI

Entry No.	Entry Name	Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Maturity DAP		Oil %		Protein %	
1	NOTUS R2	2052	l	18.4	bcd	42	g	4	ghi	119	l	18.5	d-g	38.3	b-f
2	AKRAS R2	2632	f-j	17.5	g	47	efg	6	ab	126	j	19	b-e	36.9	fgh
3	NSC LIBAU RR2Y	2760	d-h	17.5	g	52	cde	6	abc	124	k	18.3	efg	39.4	abc
4	S0009-M2	2201	kl	15	m	45	efg	5	d-g	118	m	20.1	a	34.7	i
5	23-60RY	2652	f-j	16.7	hij	57	a-d	5	b-e	124	k	18.5	d-g	39.1	a-d
6	S007-Y4	2713	e-i	16.4	jk	53	cde	4	e-h	128	hi	19.7	abc	37	e-h
7	NSC AUSTIN RR2Y	2322	jkl	16.9	h	40	g	5	c-f	127	hij	18.7	c-g	39.1	a-e
8	S00-N6	2489	g-k	15.7	l	59	a-d	3	j	127	hij	19.3	a-d	36.1	ghi
9	24-12RY	2461	h-k	16.9	hi	51	def	5	d-g	126	j	19.1	a-e	38	b-g
10	24-10RY	2453	h-k	17.5	g	48	efg	5	c-f	130	g	17.8	fgh	37	e-h
11	PS 0055 R2	2685	f-i	14.8	mn	52	c-f	4	f-i	132	b	19.3	a-e	35.5	hi
12	P006T78R	2546	f-j	17.9	ef	46	efg	4	e-h	127	ij	17.6	gh	37.3	d-h
13	X2R00753	2399	ijk	14.6	no	48	efg	4	hij	124	k	19	b-e	40.7	a
14	Kendo R2	3047	bcd	18.9	a	60	abc	5	b-e	130	fg	18.9	b-f	38.7	a-f
15	HS 006RYS24	2513	g-k	17.7	fg	56	bcd	5	a-d	130	efg	18.8	b-f	39.1	a-e
16	PRO 2525R2	2562	f-j	18.5	abc	52	cde	5	b-e	131	bcd	18.9	b-e	40	ab
17	NSC ARNAUD RR2Y	2864	c-f	16.2	k	57	a-d	5	c-f	131	cde	18.3	efg	38.4	b-f
18	PS 0074 R2	3032	b-e	14.4	o	56	bcd	4	e-h	131	bcd	19.9	ab	38.4	b-f
19	P008T70R	2531	g-k	15.7	l	44	fg	5	d-g	131	def	18.7	c-f	37.3	d-h
20	HS 007RY32	2705	e-i	18.3	cd	52	def	5	d-g	128	h	19.7	abc	38.5	b-f
21	S009-J1	2748	d-h	18.2	de	47	efg	3	ij	132	bc	19.2	a-e	37.7	c-g
22	25-11RY	3454	a	16.7	hij	63	ab	5	a-d	133	a	19.6	abc	37.9	c-g
23	NSC JADEN R2	3071	bcd	16.3	jk	65	a	6	ab	131	bcd	19.1	a-e	38.1	b-g
24	NSC OSBORNE RR2Y	3306	ab	18.7	ab	62	ab	5	a-d	130	fg	18.9	b-f	39	a-f
25	Astro R2	2814	d-g	16.5	ijk	52	cde	5	a-d	131	cde	17.2	h	38.5	b-f
26	LS008R21	3150	abc	17.5	g	59	a-d	6	a	133	a	19.4	a-d	38.5	b-f
LSD (P=.05)		331.1		0.36		8.1		0.9		0.9		1.06		2.1	
Std Dev		234.1		0.25		5.7		0.7		0.6		0.51		1.02	
CV		8.68		1.51		10.87		14.07		0.47		2.71		2.68	
Grand Mean		2698.46		16.9		52.36		4.66		128.14		18.91		38.04	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

Table 34. AOV Table for RoundUp Ready 2200-2500 HU Soybean Variety Evaluation – Hartland, NB

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Maturity		Oil		Protein	
		kg/ha		g		cm		DAP		%		%	
1	NOTUS R2	2544	m	21.5	a	65	h-k	113	fgh	18	a-g	39.8	d-i
2	AKRAS R2	3192	f-l	19.3	cde	61	jk	113	fgh	18.4	a-d	39.1	f-i
3	NSC LIBAU RR2Y	3578	c-h	18.6	d-j	74	d-i	111	hi	18.8	abc	41.8	a-e
4	S0009-M2	3305	e-k	17.4	jk	74	d-i	108	i	18.6	a-d	38.4	hi
5	23-60RY	2676	lm	18.5	d-j	73	d-j	112	gh	18.4	a-e	41.9	a-e
6	S007-Y4	2934	j-m	17.6	ijk	67	g-k	113	gh	18.9	ab	39.5	e-i
7	NSC AUSTIN RR2Y	3059	h-m	18	f-k	58	k	112	gh	19.1	a	38.7	ghi
8	S00-N6	3167	f-l	18.1	e-k	86	abc	119	bcd	17.7	b-h	41	b-g
9	24-12RY	2850	klm	18.6	d-j	70	e-k	117	cde	18.2	a-f	41.7	a-e
10	24-10RY	3455	d-j	19.4	bcd	73	d-i	116	def	16.6	h	42.5	abc
11	PS 0055 R2	3194	f-l	14.8	m	68	g-k	113	fgh	18.4	a-e	38.1	i
12	P006T78R	3097	f-l	18.9	d-h	60	k	112	gh	17.1	fgh	40.6	c-h
13	X2R00753	3636	a-f	16	lm	68	g-k	122	ab	17.9	a-g	41.8	a-e
14	Kendo R2	3424	d-j	20.6	ab	78	b-g	121	ab	17.4	d-h	43.4	ab
15	HS 006RYS24	2980	i-m	18.7	d-i	75	c-i	119	bcd	18.1	a-f	42.1	a-d
16	PRO 2525R2	3515	c-i	21.4	a	78	b-g	122	ab	17.8	b-h	43.5	a
17	NSC ARNAUD RR2Y	3472	d-j	19.2	c-f	88	ab	117	cde	17.2	e-h	42.7	abc
18	PS 0074 R2	4186	a	16.9	kl	80	a-e	122	a	17.8	b-h	41.3	a-f
19	P008T70R	3075	g-m	17.8	h-k	69	f-k	115	efg	18.2	a-f	41.2	a-f
20	HS 007RY32	3480	d-j	21.4	a	64	ijk	119	bcd	18.5	a-d	41	b-g
21	S009-J1	3813	a-e	20.3	abc	67	g-k	121	ab	17.6	c-h	41.8	a-e
22	25-11RY	4035	abc	17.2	kl	90	a	122	a	18.9	ab	41.9	a-e
23	NSC JADEN R2	3620	b-g	17.8	h-k	78	b-g	120	abc	18.5	a-d	41.6	a-e
24	NSC OSBORNE RR2Y	3795	a-e	20.8	a	76	c-h	121	ab	18.9	ab	40.8	c-h
25	Astro R2	3884	a-d	17.9	g-k	82	a-d	122	a	16.9	gh	41.8	a-e
26	LS008R21	4162	ab	19	d-g	80	a-f	122	a	17.2	e-h	42.8	abc
LSD (P=.05)		550.8		1.22		11.4		3		1.27		2.42	
Std Dev		389.5		0.59		8		2.2		0.62		1.17	
CV		11.49		3.17		11.02		1.84		3.42		2.85	
Grand Mean		3389.51		18.65		73.06		116.96		18.04		41.19	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

RoundUp Ready 2500-2700 HU Variety Evaluation Site Summaries**Table 35. AOV Table for RoundUp Ready 2500-2700 HU Soybean Variety Evaluation – Canning, NS**

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity		Oil		Protein	
		kg/ha		g		cm		cm		DAP	%		%		
1	90Y01	2820	def	18.4	b-f	45	efg	8	b-e	119		19.5	a	37.5	a
2	PODAGA R2	2892	b-f	19.5	abc	42	fgh	9	b-e	118		19.1	a	38.9	a
3	P01T23R	2557	f	17.1	d-g	38	hi	7	de	118		19.4	a	37.2	a
4	COLT R2	3143	a-e	19.2	abc	48	b-e	8	b-e	118		19	a	36.2	a
5	PRO 2535R2	3385	ab	20.3	ab	55	a	9	b-e	121		17.5	a	39.5	a
6	26-14RY	3079	a-e	16.2	g	45	efg	9	a-d	117		19	a	38.1	a
7	Theo R2	3338	abc	16.9	efg	51	a-d	8	b-e	120		17.8	a	40.9	a
8	HYDRA R2	3072	a-e	18.5	b-e	53	ab	10	abc	120		20.3	a	36.9	a
9	HS 03RY33	3547	a	18.5	b-e	49	b-e	10	ab	123		18.3	a	40.7	a
10	S04-D3	2735	ef	19	a-d	47	c-f	7	e	121		18.2	a	39	a
11	26-10RY	2884	b-f	16.2	g	36	i	10	abc	122		17.9	a	38.8	a
12	5A040RR2	3306	a-d	18	c-g	52	abc	9	a-d	124		17.7	a	39.3	a
13	PRO 2625R2	3255	a-d	19.7	abc	46	def	8	cde	124		18.5	a	39.5	a
14	PS 0416 R2	2835	c-f	16.6	fg	40	ghi	8	b-e	122		19	a	43	a
15	P06T28R	2872	c-f	19.6	abc	45	efg	9	b-e	122		18.9	a	38.9	a
16	27-12RY	3553	a	19.5	abc	47	c-f	11	a	123		18.1	a	39.7	a
17	Nitro R2	3274	a-d	20.8	a	54	ab	8	b-e	124		18.3	a	40.1	a
18	Mundo R2	2972	b-f	20.2	ab	40	ghi	8	b-e	125		16.5	a	42.1	a
19	S06-C4	2676	ef	17.8	c-g	40	ghi	7	de	123		17.1	a	40.4	a
LSD (P=.05)		508		1.94		5.5		2.5		.		1.96		4.92	
Std Dev		359.2		0.92		3.9		1.8		.		0.93		2.34	
CV		11.73		4.99		8.5		20.82		.		5.08		5.95	
Grand Mean		3062.87		18.5		46.04		8.5		121.26		18.4		39.3	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

Table 36. AOV Table for RoundUp Ready 2500-2700 HU Soybean Variety Evaluation – Truro, NS

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity DAP	Oil %		Protein %		
		kg/ha		g		cm		cm							
1	90Y01	2678	b-h	19.5	e-h	80	abc	10	a	128		17.7	a	40.8	a
2	PODAGA R2	2104	h	20.6	b-e	77	a-d	10	a	122		18	a	41.8	a
3	P01T23R	2318	fgh	22.1	ab	68	cd	12	a	121		17.8	a	41.6	a
4	COLT R2	2447	e-h	17.4	ij	68	cd	12	a	127		18.2	a	38.5	a
5	PRO 2535R2	2636	c-h	22.1	ab	88	a	12	a	128		17.9	a	40.7	a
6	26-14RY	2945	a-e	17.4	ij	87	a	12	a	122		17.3	a	39.4	a
7	Theo R2	2908	a-f	18.3	f-j	86	a	11	a	128		17.1	a	40.2	a
8	HYDRA R2	2523	d-h	19.1	e-i	77	abc	11	a	126		17.9	a	39.3	a
9	HS 03RY33	2880	a-g	21.5	a-d	73	bcd	13	a	132		17.3	a	40.8	a
10	S04-D3	2862	b-g	19.3	e-h	84	ab	10	a	125		17.3	a	38.9	a
11	26-10RY	3472	a	16.9	j	77	abc	12	a	126		16.8	a	40.3	a
12	5A040RR2	3272	ab	18.1	g-j	84	ab	11	a	126		18.7	a	38.8	a
13	PRO 2625R2	3176	abc	21.8	abc	77	a-d	12	a	130		16.9	a	41.9	a
14	PS 0416 R2	3021	a-e	17.8	hij	76	a-d	11	a	128		18.6	a	41	a
15	P06T28R	3169	abc	20.2	cde	83	ab	11	a	128		17.8	a	39.6	a
16	27-12RY	3101	a-d	19.9	d-g	78	abc	13	a	130		16.4	a	41.4	a
17	Nitro R2	2306	gh	22.5	a	79	abc	10	a	132		18.8	a	39.8	a
18	Mundo R2	3057	a-d	21.5	a-d	86	a	11	a	131		17.4	a	41.3	a
19	S06-C4	2431	e-h	20.1	c-f	64	d	11	a	128		16.7	a	40.8	a
LSD (P=.05)		598.6		1.84		12.8		2.4		.		1.38		3.06	
Std Dev		423.3		0.88		9		1.7		.		0.66		1.46	
CV		15.09		4.43		11.5		15.29		.		3.74		3.61	
Grand Mean		2805.59		19.77		78.46		11.3		127.26		17.61		40.37	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

Table 37. AOV Table for RoundUp Ready 2500-2700 HU Soybean Variety Evaluation – Harrington, PEI

Entry No.	Entry Name	Yield kg/ha		100 Seed Wt g		Plant Ht. cm		Pod Ht. cm		Maturity DAP		Oil %		Protein %	
1	90Y01	2714	g	16.1	f	50	i	3	g	134	i	20.4	a	36.1	g
2	PODAGA R2	3510	bc	17.5	d	63	a-e	6	a	132	j	19.4	ab	38.8	def
3	P01T23R	3082	efg	17.3	d	52	ghi	4	def	132	j	18.5	bcd	36	g
4	COLT R2	3410	b-e	14	h	63	a-e	5	cd	134	i	18.5	bcd	39.5	cde
5	PRO 2535R2	3340	b-f	19.4	a	69	a	6	abc	141	bc	18.7	bc	40.6	bc
6	26-14RY	3538	bc	14.9	g	58	e-h	5	d	136	fg	18.4	bcd	38.6	ef
7	Theo R2	3480	bcd	15.9	f	68	ab	5	cd	137	f	17.4	def	40.6	bc
8	HYDRA R2	3694	ab	17.3	d	66	abc	7	a	135	gh	20.3	a	38.9	def
9	HS 03RY33	3553	bc	17.4	d	61	c-f	5	d	140	cd	18.5	bcd	40	b-e
10	S04-D3	3279	c-f	17.3	d	57	e-h	4	def	135	hi	18.1	cd	39.2	cde
11	26-10RY	3490	bcd	14.3	h	51	hi	6	ab	139	de	16.6	f	41.3	ab
12	5A040RR2	3420	b-e	16.2	f	66	abc	6	ab	142	ab	18.3	bcd	37.8	f
13	PRO 2625R2	3121	def	17.2	d	62	a-e	4	de	138	e	17.9	cde	39.1	def
14	PS 0416 R2	3369	b-f	15	g	59	d-g	4	de	139	de	18.3	bcd	41	ab
15	P06T28R	3529	bc	16.6	e	62	b-e	4	de	140	cd	18.2	cd	40	b-e
16	27-12RY	4011	a	17.5	d	65	a-d	5	bcd	139	e	17.7	c-f	42.1	a
17	Nitro R2	3368	b-f	19	b	63	a-e	5	bcd	138	e	18.7	bc	38.6	ef
18	Mundo R2	3221	c-f	16.1	f	61	c-f	3	fg	143	a	16.8	ef	41.2	ab
19	S06-C4	3021	fg	17.9	c	55	f-i	3	efg	136	fg	16.9	ef	40.2	bcd
LSD (P=.05)		386.8		0.38		6.6		1.1		1.2		1.17		1.45	
Std Dev		273.5		0.27		4.6		0.8		0.9		0.56		0.69	
CV		8.1		1.61		7.7		16.63		0.63		3.05		1.75	
Grand Mean		3376.34		16.69		60.38		4.68		137.16		18.29		39.45	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

Table 38. AOV Table for RoundUp Ready 2500-2700 HU Soybean Variety Evaluation – Hartland, NB

Entry No.	Entry Name	Yield		100 Seed Wt		Oil		Protein	
		kg/ha		g		%		%	
1	90Y01	3018	def	18.3	efg	18.3	a	40.8	cde
2	PODAGA R2	3253	b-f	20.2	bc	17.3	a-d	43	abc
3	P01T23R	3335	b-e	19.1	de	17.7	ab	39.7	e
4	COLT R2	2777	fgh	15.9	j	17.1	a-e	42.9	abc
5	PRO 2535R2	3206	b-f	21.7	a	17.2	a-e	42.5	a-d
6	26-14RY	3581	abc	16.2	ij	16.2	c-g	42.3	bcd
7	Theo R2	3016	def	20.4	bc	15.6	fg	43.9	ab
8	HYDRA R2	3660	ab	20.3	bc	18.1	ab	43.2	ab
9	HS 03RY33	3455	a-d	19.5	cd	17.7	ab	43.5	ab
10	S04-D3	3010	d-g	19.1	de	16	efg	43.8	ab
11	26-10RY	2380	h	14.3	k	15.3	g	42.1	bcd
12	5A040RR2	2803	fgh	16.9	hi	16.1	d-g	41.7	b-e
13	PRO 2625R2	3647	ab	21	ab	16.9	b-f	43.1	ab
14	PS 0416 R2	3089	c-f	16.1	ij	17.2	a-d	43.5	ab
15	P06T28R	2916	efg	16.9	hi	17.1	a-e	42.1	bcd
16	27-12RY	3862	a	18.5	ef	17.4	abc	44.7	a
17	Nitro R2	3172	b-f	20.8	b	17	a-e	40.3	de
18	Mundo R2	2516	gh	18.1	fg	17	b-e	42.8	abc
19	S06-C4	2777	fgh	17.5	gh	16.4	c-g	42.7	abc
LSD (P=.05)		498.9		0.91		1.27		2.31	
Std Dev		352.8		0.43		0.6		1.1	
CV		11.27		2.34		3.56		2.59	
Grand Mean		3130.06		18.43		16.92		42.55	

RoundUp Ready 2700-2850 HU Variety Evaluation Site Summaries**Table 39. AOV Table for RoundUp Ready 2700-2850 HU Soybean Variety Evaluation – Canning, NS**

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity		Oil		Protein	
		kg/ha		g		cm		cm		DAP	%		%		
1	P08T96R	3580	abc	19.2	b	46	a	9	abc	121		18.3	a	38.7	cde
2	PS 0650 R2	3099	ef	19	b	42	a	8	bcd	122		18	a	39	b-e
3	S08-U4	3011	f	18.5	bcd	48	a	10	abc	122		17.8	a	42.3	a
4	NSC PAGASIS RR2Y	3683	a	17.5	d-g	47	a	10	abc	123		16.3	a	40.7	abc
5	NSC GARNET RR2Y	3671	a	16.8	fgh	48	a	10	a	121		17.2	a	39.8	b-e
6	P09T74R2	3149	def	16.1	h	42	a	9	abc	119		18.1	a	38.6	cde
7	90Y90	3201	def	18.5	bcd	45	a	8	bcd	121		17	a	40.2	a-d
8	5A075RR2	3600	ab	20.4	a	48	a	10	abc	115		19.1	a	38.1	de
9	HS 08RY51	3258	c-f	18.2	b-e	43	a	7	d	123		17.2	a	37.7	e
10	KATONDA R2	3325	b-f	17.5	d-g	48	a	8	cd	123		17.3	a	41	ab
11	Miko R2	3438	a-d	17.8	c-f	47	a	9	abc	118		18.3	a	40.2	a-d
12	91Y01	3413	a-e	18.6	bcd	46	a	9	abc	121		17.9	a	39.1	b-e
13	P10T48R	3555	abc	18.8	bc	42	a	10	a	123		17.8	a	39.3	b-e
14	HS 09RYS12	3190	def	16.3	h	47	a	9	abc	121		17.8	a	41.1	ab
15	Maxo R2	3568	abc	17.1	e-h	44	a	10	ab	117		17.4	a	39.6	b-e
16	S10-S1	3148	def	18.1	b-e	42	a	9	bc	123		18.2	a	38.8	cde
17	S11-N4	3448	a-d	17.1	e-h	43	a	10	abc	124		16.9	a	39.5	b-e
18	DS124U1	3403	a-e	16.5	gh	46	a	9	abc	123		17.3	a	40.4	abc
LSD (P=.05)		336.5		1.18		5.5		1.6		.		1.34		2.14	
Std Dev		237.9		0.56		3.9		1.1		.		0.63		1.02	
CV		7.05		3.14		8.61		12.39		.		3.59		2.56	
Grand Mean		3374.5		17.87		45.18		9.17		121.11		17.66		39.67	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

Table 40. AOV Table for RoundUp Ready 2700-2850 HU Soybean Variety Evaluation – Truro, NS

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity		Oil		Protein	
		kg/ha		g		cm		cm		DAP	%		%		
1	P08T96R	3956	ab	23	abc	82	abc	12	def	139		18.3	a	38.7	f
2	PS 0650 R2	2815	e	22.2	bcd	69	d	11	def	131		17.7	ab	41.9	abc
3	S08-U4	3190	de	18.9	f	82	abc	9	f	129		16.7	bcd	42.8	ab
4	NSC PAGASIS RR2Y	3284	cde	24	a	92	a	16	ab	132		16.3	cd	42.8	ab
5	NSC GARNET RR2Y	3721	a-d	22	cd	87	ab	15	a-d	139		16.2	d	43	ab
6	P09T74R2	3865	ab	22.8	a-d	87	ab	16	abc	139		17.8	ab	41.3	b-e
7	90Y90	3274	cde	23.2	abc	73	cd	13	b-e	139		16.9	bcd	39.7	ef
8	5A075RR2	3689	a-d	23.2	abc	84	abc	12	def	142		18.2	a	38.7	f
9	HS 08RY51	3463	bcd	22.3	bcd	65	d	11	ef	135		17.3	a-d	39.9	def
10	KATONDA R2	3752	abc	23.3	ab	89	a	13	c-f	139		16.3	cd	43.4	a
11	Miko R2	4013	ab	22.8	a-d	83	abc	14	a-e	135		17.3	a-d	40.7	c-f
12	91Y01	3930	ab	22.8	a-d	86	ab	13	b-e	139		17.4	a-d	40	c-f
13	P10T48R	4075	a	21.5	de	85	abc	16	abc	141		16.6	bcd	39.5	ef
14	HS 09RYS12	3493	bcd	22.6	bcd	82	abc	12	def	141		18.3	a	40.7	c-f
15	Maxo R2	3606	a-d	22.1	bcd	89	a	17	a	142		16.2	d	40.8	cde
16	S10-S1	3298	cde	20.7	e	77	bcd	12	def	134		17.5	abc	41.7	a-d
17	S11-N4	3169	de	19.2	f	82	abc	11	def	135		17	a-d	40.7	cde
18	DS124U1	3585	a-d	22.9	abc	91	a	14	a-e	139		17	a-d	41.9	a-d
LSD (P=.05)		553.3		1.29		12.4		3.5		.		1.26		1.98	
Std Dev		387.2		0.61		8.7		2.4		.		0.6		0.94	
CV		10.86		2.76		10.6		18.62		.		3.49		2.29	
Grand Mean		3565.44		22.17		82.47		13.1		137.22		17.17		41.02	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

Table 41. AOV Table for RoundUp Ready 2700-2850 HU Soybean Variety Evaluation – Harrington, PEI

Entry No.	Entry Name	Yield		100 Seed Wt		Plant Ht.		Pod Ht.		Maturity		Oil		Protein	
		kg/ha		g		cm		cm		DAP	%		%		
1	P08T96R	3450	def	16.9	d	61	ef	4	d	143	fg	18.5	abc	37.6	fg
2	PS 0650 R2	3272	ef	18.3	a	54	g	5	abc	138	j	17	e-h	42	b
3	S08-U4	3503	cde	16.6	de	63	def	5	bcd	141	i	17.6	c-g	44.2	a
4	NSC PAGASIS RR2Y	3774	ab	15.2	ij	71	a	6	ab	144	cd	16.7	gh	40.6	b-e
5	NSC GARNET RR2Y	3600	bcd	16.1	fg	68	a-d	5	abc	142	hi	16.2	h	41.9	b
6	P09T74R2	3395	def	15.5	hi	64	c-f	4	cd	143	ef	17.7	c-f	41	bcd
7	90Y90	2929	g	16.6	de	63	def	4	cd	142	hi	17.6	c-g	40.7	b-e
8	5A075RR2	3953	a	17.9	b	70	ab	5	abc	146	a	19.4	a	37.4	g
9	HS 08RY51	3480	def	16.2	f	59	fg	4	d	144	de	17	fgh	37.6	fg
10	KATONDA R2	3430	def	16.9	d	66	a-e	5	bcd	143	fgh	17.1	e-h	42	b
11	Miko R2	3584	bcd	16.4	ef	64	c-f	5	bc	142	hi	18	b-e	39	efg
12	91Y01	3451	def	16.4	ef	65	b-e	5	bcd	145	a-d	18.8	ab	37.9	fg
13	P10T48R	3578	bcd	14.7	k	62	ef	5	bc	143	ef	17.4	d-g	39.1	efg
14	HS 09RYS12	3236	f	15.6	h	62	ef	5	bc	145	bcd	18.3	bcd	38	fg
15	Maxo R2	3732	abc	15.9	g	67	a-e	5	bc	142	gh	17.3	efg	39.3	c-f
16	S10-S1	3744	abc	17.6	c	62	ef	5	bcd	144	cd	17.4	d-g	39.2	def
17	S11-N4	3800	ab	16.4	ef	64	b-f	6	a	145	abc	17.6	c-g	39.3	c-f
18	DS124U1	3466	def	15	jk	69	abc	6	ab	145	ab	17.5	d-g	41	bc
LSD (P=.05)		247.6		0.32		6		1		0.9		0.99		1.77	
Std Dev		175.1		0.22		4.2		0.7		0.6		0.47		0.83	
CV		4.97		1.37		6.59		14.89		0.42		2.66		2.09	
Grand Mean		3520.99		16.35		64.01		4.88		143.11		17.62		39.87	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL

Table 42. AOV Table for RoundUp Ready 2700-2850 HU Soybean Variety Evaluation – Hartland, NB

Entry No.	Entry Name	Yield		100 Seed Wt		Oil		Protein	
		kg/ha		g		%		%	
1	P08T96R	3219	bc	18.1	bc	17.2	b-e	39.8	def
2	PS 0650 R2	2810	cde	21.1	a	16.6	d-g	43.7	ab
3	S08-U4	2221	g	16.7	def	16	g	45.6	a
4	NSC PAGASIS RR2Y	2288	fg	16.3	ef	17.3	a-e	40.4	cde
5	NSC GARNET RR2Y	2032	g	16.3	def	16.8	c-g	40.6	cde
6	P09T74R2	2925	b-e	16.1	f	17.6	abc	38.7	ef
7	90Y90	2062	g	17.2	cde	18.1	a	39.6	def
8	5A075RR2	3653	a	20.1	a	17.9	ab	38.9	ef
9	HS 08RY51	2371	fg	17.8	bc	17.1	b-e	38.3	fg
10	KATONDA R2	3039	b-e	17.3	cd	17.1	b-e	42.3	bc
11	Miko R2	3109	bcd	16.7	def	17.7	ab	40.5	cde
12	91Y01	3227	b	18.3	b	17	b-f	39.6	def
13	P10T48R	2228	g	16.3	ef	17.5	a-d	36.6	g
14	HS 09RYS12	2674	ef	16.4	def	17	b-f	41	cd
15	Maxo R2	2638	ef	16.5	def	17.2	b-e	41.1	cd
16	S10-S1	2026	g	16.8	def	16.6	efg	40.6	cde
17	S11-N4	2085	g	16	f	16.1	fg	41	cd
18	DS124U1	2786	de	16.5	def	17.5	a-d	40.7	cde
LSD (P=.05)		409.3		0.96		0.9		2.11	
Std Dev		289.4		0.46		0.43		1	
CV		10.99		2.65		2.5		2.47	
Grand Mean		2633.01		17.23		17.11		40.5	

Appendix A

Soybean Data and Rating Methods

EMERGENCE score is an estimate of the plants emerged after two weeks from the planting date.

- 1=85% or more
- 2= 70 to 84%
- 3= 45 to 69%
- 4= 20 to 44%
- 5= 0 to 19%

Emergence is only reported when there are significant differences between varieties

MATURITY R8 stage, is the date when 95% of the pods have ripened (95% brown). Delayed leaf drop and green stems are not considered in assigning maturity. Record the date when mature.

PLANT HEIGHT is the average length in centimeters of the plant from the ground to the tip of the main stem at the time of maturity. An average of 3 plants per plot will provide a good estimate.

POD HEIGHT is the average height in centimeters of pods from the ground to the first node where the first pods appear on the plants. An average of 3 plants per plot will provide a good estimate.

LODGING is rated at maturity according to the following scores:

- 1= Almost all plants erect (standing).
- 2= All plants leaning slightly or a few plants down flat.
- 3= All plants leaning moderately (45%), or 25% to 50% of the plants down.
- 4= All plants leaning considerably, or 50% to 80% of the plants down.
- 5= Almost all plants down.

SEED SIZE (i.e. weight per seed) in grams per 100 based on a 100 or 200 seed sample

SEED QUALITY is rated according to the following scores, considering the amount and degree of wrinkling, defective seed coat (growth, cracks), greenishness, and mouldy or rotten seeds. Threshing or handling damage is not considered, nor is mottling or other pigment colours

1= very good, 2= good, 3= fair, 4= poor, 5= very poor

Seed Quality is only reported when there are significant differences between varieties

YIELD is measured after the seeds have dried down to uniform moisture (~13%) content, and is recorded in grams per plot. The grams per plot is later converted to kilograms per hectare (based on the plot area harvested) for a final report

PROTEIN & OIL – Protein and oil are measured on either a composite sample from all 4 reps of each entry or from each plot or from a composite sample of Reps 1&2 and Reps 3&4 of each entry depending on the site

HILUM COLOUR CODES Y- YELLOW; IY- IMPERFECT YELLOW ; Br- BROWN ; B1 – BLACK ; BF- BUFF ; Cl – CLEAR ; Imp B1 – IMPERFECT BLACK ; Gr - GREY

Appendix B

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 1: Yield Data Conventional Soybean Trials 2200-2600 HU–
Canning,NS Truro,NS Hartland,NB Charlottetown,PEI**

Variety	Seed Company	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
AAC Malika	Eastern Grains Inc	2450							72%	2094
JARI	ELITE	2500	110%	3193	113%	3195	115%	3221	107%	3108
Tundra	Prograin	2375	81%	2372	75%	2144	70%	1967	69%	2008
Hana	Prograin	2575					123%	3430	109%	3150
AAC Edward	SeCan	2375					77%	2154	80%	2306
SVX16T00S2	Sevita Genetics	2475							114%	3307
SVX16T0S1	Sevita Genetics	2525							105%	3044
SVX16T0S4	Sevita Genetics	2550							102%	2948
SVX16T0S5	Sevita Genetics	2550							105%	3045
SVX16T0S8	Sevita Genetics	2575							109%	3148
SVX17T00S23	Sevita Genetics	2475							103%	2971
DH863	PROSeeds	2500	101%	2945	103%	2936	101%	2833	105%	3045
DH404	PROSeeds	2525							111%	3221
DH401	PROSeeds	2550	107%	3111	110%	3110	109%	3040	113%	3270
Astor	PROSeeds	2575	101%	2944	99%	2815	93%	2601	94%	2730
SVX15T00S2	Sevita Genetics	2575					112%	3119	101%	2931
Means (kg/ha)				2913		2840		2796		2895
Station years				13-14		9-10		3-7**		2*
* Harrington, PEI & Hartland NB data only - CV for Yield at Truro & Canning, NS sites too high										
** Some entries (highlighted) tested in Screening trial at one site only(Truro, NS) in 2015										

These trials were seeded at a rate of 55 seeds/m² in small plots (6-7m²). The Maritime Soybean Variety Trials are coordinated by Doug MacDonald, Cereal & Oilseed Research Group, Dalhousie University, Faculty of Agriculture with cooperation from NB Dept. of Agriculture, Aquaculture & Fisheries and AAFC Charlottetown Research and Development Centre, PEI.

For further information contact Doug MacDonald email: doug.macdonald@dal.ca

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 2: 2014-16 Agronomic Data Conventional Soybean Trials 2200-2600 HU–
Canning,NS Truro,NS Hartland,NB Charlottetown,PEI**

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
AAC Malika	19.6	54	7	1.0	128	39.5	17.4
JARI	19.1	69	12	1.3	122	43.9	16.3
Tundra	18.4	51	8	1.4	112	39.7	17.0
Hana	18.6	60	8	1.0	128	44.8	16.7
AAC Edward	16.3	50	8	1.7	114	40.9	18.3
SVX16T00S2	19.0	70	9	1.5	121	41.5	18.1
SVX16T0S1	18.3	58	8	1.0	123	39.7	18.0
SVX16T0S4	19.8	66	10	1.3	123	39.5	17.6
SVX16T0S5	22.5	62	10	1.1	128	43.5	16.8
SVX16T0S8	20.6	62	9	1.3	127	43.4	17.4
SVX17T00S23	21.8	61	9	1.1	126	43.5	16.7
DH863	19.4	61	9	1.2	119	42.2	17.1
DH404	19.8	64	8	1.0	121	44.2	16.3
DH401	19.8	61	10	1.2	118	43.9	16.7
Astor	21.1	56	8	1.0	123	40.1	18.8
SVX15T00S2	21.3	65	10	1.3	123	43.8	16.9
Means	19.7	60.6	8.9	1.2	122.3	42.1	17.3
Station years	4-12	4-11	3-10	3-10	4-12	2-7*	2-7*
One year data only (4 station years)			Two years data only (5-8 station years)				
Three years data (10-13 station years)							
<i>* Protein & Oil not measured for 2016 NB & PEI sites at time of publication</i>							

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 3: Yield Data Conventional Soybean Trials 2600-2850 HU –
Canning, NS Truro, NS Hartland, NB Charlottetown, PEI**

Variety	Seed Company/Supplier	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
Taurus	Prograin	2600	99%	3147	100%	3068	102%	3067	105%	3168
Narita	Prograin	2600	101%	3221	103%	3160	106%	3179	106%	3202
SVX17T0S2	Sevita Genetics	2600							91%	2762
DH618	PROSeeds	2600	106%	3380	107%	3310	105%	3152	103%	3105
AURIGA	ELITE	2625			95%	2918	91%	2738	89%	2691
ETNA	ELITE	2650	96%	3042	96%	2955	94%	2829	105%	3173
DS045C0	Dow Seeds	2650					103%	3104	100%	3015
SAVANNA	PROSeeds	2650	101%	3215	100%	3068	99%	2962	100%	3032
Marula	Prograin	2700			102%	3128	104%	3114	108%	3271
SVX15T0S4	Sevita Genetics	2700							97%	2940
Black Pearl	Dave & Rose Viaene	2750					97%	2926	101%	3040
HS 09C02	Dow Seeds	2750	97%	3075	98%	3030	99%	2961	102%	3079
DS101C0	Dow Seeds	2775							92%	2789
Means (kg/ha)				3180		3080		3003		3021
Station years				13-14		9-10		3-7**		2*
<i>* Harrington, PEI & Hartland NB data only - CV for Yield at Truro & Canning, NS sites too high</i>										
<i>** Some entries (highlighted) tested in Screening trial at one site only (Truro, NS) in 2015</i>										

These trials were seeded at a rate of 55 seeds/m² in small plots (6-7m²). The Maritime Soybean Variety Trials are coordinated by Doug MacDonald, Cereal & Oilseed Research Group, Dalhousie University, Faculty of Agriculture with cooperation from NB Dept. of Agriculture, Aquaculture & Fisheries and AAFC Charlottetown Research and Development Centre, PEI.

For further information contact Doug MacDonald email: doug.macdonald@dal.ca

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 4: 2014-16 Agronomic Data Conventional Soybean Trials 2600-2850 HU –
Canning,NS Truro,NS Hartland,NB Charlottetown,PEI**

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
Taurus	19.7	72	10	1.0	123	43.0	16.8
Narita	21.8	62	9	1.1	122	40.2	18.2
SVX17T0S2	22.2	57	8	1.0	130	40.9	17.8
DH618	19.9	65	11	1.2	124	40.3	18.3
AURIGA	20.2	61	11	1.2	128	36.4	18.7
ETNA	19.9	60	10	1.1	127	39.7	18.9
DS045C0	18.7	72	11	1.2	126	42.2	17.3
SAVANNA	20.2	61	10	1.1	123	40.1	18.0
Marula	21.8	66	9	1.0	125	41.5	17.7
SVX15T0S4	20.3	62	8	1.1	131	38.9	18.5
Black Pearl	20.4	72	9	1.4	130	40.3	20.2
HS 09C02	19.2	59	9	1.1	128	38.2	17.9
DS101C0	20.0	59	7	1.0	136	39.2	17.7
Means	20.3	63.7	9.4	1.1	127.2	40.1	18.2
Station years	4-12	4-11	3-10	3-10	4-12	2-7	2-7
One year data only (2 station years)			Two years data only (3-7 station years)				
Three years data (9-10 station years)							
<i>* Protein & Oil not measured for 2016 NB & PEI sites at time of publication</i>							

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 1: Yield Data Roundup Ready Soybean Trials 2200-2500 HU--
Canning, NS Truro, NS Hartland, NB Charlottetown, PEI**

Variety	Seed Company	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
NOTUS R2	ELITE	2100					76%	2373	78%	2345
AKRAS R2	ELITE	2250			96%	3164	98%	3052	99%	2975
NSC LIBAU RR2Y	North Star Genetics	2250	95%	3260	96%	3169	102%	3179	100%	2995
S0009-M2	Syngenta NK Brand	2275					83%	2600	86%	2578
23-60RY	DEKALB	2350	90%	3099	90%	2947			88%	2621
S007-Y4	Syngenta	2350			97%	3206	94%	2945	95%	2831
NSC AUSTIN RR2Y	North Star Genetics	2375							94%	2823
S00-N6	Syngenta NK Brand	2400					97%	3040	94%	2825
24-12RY	DEKALB	2425					86%	2689	86%	2563
24-10RY	DEKALB	2425	93%	3203	97%	3199			98%	2928
PS 0055 R2	PRIDE Seeds	2425					98%	3067	98%	2923
S006-W5	Syngenta NK Brand	2425					99%	3081	97%	2892
Kendo R2	Prograin	2450					102%	3193	99%	2967
HS 006RYS24	DOW Seeds	2450			91%	3002	92%	2869	94%	2813
PRO 2525R2	PROSeeds	2450	101%	3453	101%	3309	104%	3236	103%	3088
NSC ARNAUD RR2Y	North Star Genetics	2475							110%	3292
PS 0074 R2	PRIDE Seeds	2475	107%	3672	109%	3578	113%	3523	112%	3360
P008T70R	Dupont Pioneer	2475							100%	2988
HS 007RY32	DOW Seeds	2475	97%	3311	98%	3238	100%	3118	103%	3073
S009-J1	Syngenta NK Brand	2475							105%	3142
25-11RY	DEKALB	2500					119%	3731	119%	3546
NSC JADEN R2	ELITE	2500	101%	3473	106%	3472	108%	3375	110%	3293
NSC OSBORNE RR2Y	North Star Genetics	2500	107%	3677	109%	3580	113%	3516	112%	3341
Astro R2	Prograin	2500	101%	3470	102%	3347	105%	3272	106%	3159
LS008R21	PROSeeds	2575	106%	3640	108%	3545	112%	3507	114%	3406
Means (kg/ha)				3426		3289		3125		2991
Station years				16-17		12		5-9		4

** Some entries (highlighted) tested at one site only(Truro, NS) in 2015 due to excess entries*

These trials were seeded at a rate of 55 seeds/m² in small plots (6-7m²). The Maritime Soybean Variety Trials are coordinated by Doug MacDonald, Cereal & Oilseed Research Group, Dalhousie University, Faculty of Agriculture with cooperation from NB Dept. of Agriculture, Aquaculture & Fisheries and AAFC Charlottetown Research and Development Centre, PEI.

For further information contact Doug MacDonald email: doug.macdonald@dal.ca

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 2: 2014-16 Agronomic Data Roundup Ready Soybean Trials 2200-2500 HU–
Canning,NS Truro,NS Hartland,NB Charlottetown,PEI**

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
NOTUS R2	20.3	49	8	1.1	115	39.7	17.8
AKRAS R2	18.7	54	11	1.1	115	38.2	17.9
NSC LIBAU RR2Y	18.1	59	9	1.2	115	40.3	18.0
S0009-M2	15.9	53	9	1.1	112	38.2	18.5
23-60RY	17.7	64	8	1.2	112	38.2	18.0
S007-Y4	17.4	56	9	1.0	114	38.2	18.6
NSC AUSTIN RR2Y	18.4	53	7	1.0	118	39.8	17.9
S00-N6	17.7	66	8	1.3	120	39.1	17.9
24-12RY	17.7	59	7	1.4	120	40.7	17.7
24-10RY	18.7	54	8	1.1	116	38.3	17.2
PS 0055 R2	15.1	60	8	1.3	121	37.5	18.3
S006-W5	15.8	56	7	1.2	120	41.6	18.2
Kendo R2	19.8	64	8	1.1	123	41.6	17.9
HS 006RYS24	18.3	62	8	1.1	117	39.5	17.6
PRO 2525R2	19.9	64	9	1.1	120	39.2	18.3
NSC ARNAUD RR2Y	18.1	71	8	1.6	123	40.5	17.7
PS 0074 R2	15.8	63	8	1.4	119	38.2	18.6
P008T70R	18.0	59	7	1.0	120	39.7	18.3
HS 007RY32	19.5	58	9	1.0	118	38.0	18.5
S009-J1	19.9	56	6	1.0	122	39.0	18.8
25-11RY	16.8	71	9	1.4	124	39.2	18.9
NSC JADEN R2	17.0	66	9	1.2	119	38.1	18.5
NSC OSBORNE RR2Y	19.5	67	10	1.3	119	39.5	17.8
Astro R2	17.5	65	9	1.2	121	38.7	17.8
LS008R21	18.1	64	10	1.2	120	38.4	18.3
Means	18.0	60.5	8.4	1.2	118.5	39.2	18.1
Station years	4-12	4-12	4-12	4-12	4-12	2-10*	2-10*
One year data only (4 station years)	Two years data only (5-8 station years)						
Three years data (10-13 station years)							
<i>* Protein & Oil not measured for 2016 NB & PEI sites at time of publication</i>							

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 3: Yield Data Roundup Ready Soybean Trials 2500-2700 HU–
Canning,NS Truro,NS Hartland,NB Charlottetown,PEI**

Variety	Seed Company	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
PODAGA R2	ELITE	2475					96%	3231	95%	2940
P01T23R	Dupont Pioneer	2525	98%	3352	95%	3289	93%	3109	91%	2823
COLT R2	ELITE	2575			95%	3281	95%	3181	95%	2944
PRO 2535R2	PROSeeds	2575	101%	3467	102%	3529	105%	3521	101%	3142
26-14RY	DEKALB	2600					101%	3410	106%	3285
Theo R2	Prograin	2600	100%	3438	97%	3359	100%	3349	102%	3186
HYDRA R2	ELITE	2550					101%	3395	104%	3237
HS 03RY33	DOW Seeds	2625			105%	3616	106%	3579	108%	3359
S04-D3	Syngenta NK Brand	2625			96%	3305	96%	3217	96%	2971
26-10RY	DEKALB	2650					98%	3291	98%	3057
5A040RR2	DOW Seeds	2650					98%	3310	103%	3200
PRO 2625R2	PROSeeds	2650	102%	3510	104%	3600	107%	3608	106%	3300
PS 0416 R2	PRIDE Seeds	2675			98%	3390	98%	3305	99%	3078
P06T28R	Dupont Pioneer	2650					102%	3423	100%	3122
27-12RY	DEKALB	2700			114%	3933	117%	3948	117%	3632
Nitro R2	Prograin	2700			97%	3368	98%	3299	97%	3030
Mundo R2	Prograin	2700	98%	3365	98%	3392	99%	3326	95%	2942
S06-C4	Syngenta NK Brand	2700					89%	2991	88%	2726
Means (kg/ha)				3426		3460		3361		3110
Station years*				15-16		11-12		5-9		4

** Some entries (highlighted) tested at one site only(Truro, NS) in 2015 due to excess entries*

These trials were seeded at a rate of 55 seeds/m² in small plots (6-7m²). The Maritime Soybean Variety Trials are coordinated by Doug MacDonald, Cereal & Oilseed Research Group, Dalhousie University, Faculty of Agriculture with cooperation from NB Dept. of Agriculture, Aquaculture & Fisheries and AAFC Charlottetown Research and Development Centre, PEI.

For further information contact Doug MacDonald email: doug.macdonald@dal.ca

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 4: 2014-16 Agronomic Data Roundup Ready Soybean Trials 2500-2700 HU–
Canning,NS Truro,NS Hartland,NB Charlottetown,PEI**

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
PODAGA R2	18.8	64	9	1.2	118	38.1	19.0
P01T23R	18.0	54	8	1.0	119	37.5	18.5
HYDRA R2	18.2	67	10	1.1	122	37.4	19.7
COLT R2	16.0	64	9	1.3	124	37.7	18.7
PRO 2535R2	20.0	73	10	1.4	126	38.8	18.3
26-14RY	15.6	62	9	1.4	126	39.3	17.8
Theo R2	17.6	70	9	1.2	126	39.2	17.2
HS 03RY33	18.6	67	11	1.1	128	39	18.2
S04-D3	18.1	63	8	1.1	124	38.8	17.8
26-10RY	15.4	55	9	1.1	123	37.2	17.6
5A040RR2	17.2	66	9	1.2	131	39.2	18.0
PRO 2625R2	19.5	66	9	1.1	126	39.2	18.0
PS 0416 R2	16.2	61	9	1.2	126	40.2	18.4
P06T28R	18.1	65	9	1.1	130	39.6	18.1
27-12RY	18.5	66	12	1.2	128	40.6	17.9
Nitro R2	20.0	67	9	1.0	127	38.1	18.6
Mundo R2	18.8	62	9	1.0	128	40.1	17.3
S06-C4	17.8	57	7	1.0	130	40.8	16.8
Means	17.9	63.8	9.2	1.2	125.7	38.9*	18.1*
Station years	4-12	3-11	3-10	3-10	3-10	2-10	2-10
Two years data only (5-8 station years)							
Three years data (10-12 station years)							
<i>* Protein & Oil not measured for 2016 NB & PEI sites at time of publication</i>							

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 5: Yield Data Roundup Ready Soybean Trials 2700-2850 HU–
Canning,NS Truro,NS Hartland,NB Charlottetown,PEI**

Variety	Seed Company	HU Req	4 years		3 years		2 years		2016	
			%	(kg/ha)	%	(kg/ha)	%	(kg/ha)	%	(kg/ha)
P08T96R	Dupont Pioneer	2725							109%	3557
PS 0650 R2	PRIDE Seeds	2750					93%	3093	92%	2999
S08-U4	Syngenta NK Brand	2750					98%	3278	91%	2981
NSC PAGASIS RR2Y	North Star Genetics-Semican	2750					102%	3626	99%	3257
NSC GARNET RR2Y	North Star Genetics-Semican	2750					103%	3643	99%	3256
P09T74R2	Dupont Pioneer	2750					101%	3578	102%	3333
90Y90	Dupont Pioneer	2750			95%	3402	94%	3347	88%	2867
SA075RR2	DOW Seeds	2750					114%	4054	114%	3724
HS 08RY51	DOW Seeds	2750					96%	3398	96%	3143
KATONDA R2	ELITE	2775					101%	3585	103%	3386
Miko R2	Prograin	2775					106%	3759	108%	3536
91Y01	Dupont Pioneer	2775			106%	3800	108%	3825	107%	3505
P10T48R	Dupont Pioneer	2775							103%	3359
HS 09RYS12	DOW Seeds	2775	98%	3377	98%	3505	97%	3452	96%	3148
Maxo R2	Prograin	2800	102%	3485	101%	3593	104%	3684	103%	3386
S10-S1	Syngenta NK Brand	2800							93%	3054
S11-N4	Syngenta NK Brand	2825					103%	3428	95%	3126
DS124U1	DOW Seeds	2850							101%	3310
Means (kg/ha)				3431		3575		3554		3274
Station years*				12-15		8-12		5-9		4

** Some entries (highlighted) tested at one site only(Truro, NS) in 2015 due to excess entries*

These trials were seeded at a rate of 55 seeds/m² in small plots (6-7m²). The Maritime Soybean Variety Trials are coordinated by Doug MacDonald, Cereal & Oilseed Research Group, Dalhousie University, Faculty of Agriculture with cooperation from NB Dept. of Agriculture, Aquaculture & Fisheries and AAFC Charlottetown Research and Development Centre, PEI.

For further information contact Doug MacDonald email: doug.macdonald@dal.ca

2016 MARITIME SOYBEAN VARIETY TRIALS

**Table 6: 2014-16 Agronomic Data Roundup Ready Soybean Trials 2700-2850 HU–
Canning.NS Truro.NS Hartland.NB Charlottetown.PEI**

Variety	100 Seed Wt. (gm)	Plant Height (cm)	Pod Height (cm)	Lodging 1-5	Maturity DTM	Protein %	Oil %
P08T96R	19.3	63	8	1.1	134	38.7	18.3
PS 0650 R2	19.7	55	9	1.0	124	38.5	18.0
S08-U4	17.6	67	8	1.2	132	43.0	17.3
NSC PAGASIS RR2Y	17.8	73	12	1.1	131	41.0	16.6
NSC GARNET RR2Y	17.6	70	11	1.1	133	41.5	16.8
P09T74R2	17.1	68	10	1.0	135	40.5	17.7
90Y90	18.1	64	10	1.0	129	38.9	17.4
5A075RR2	19.7	68	10	1.0	134	38.4	18.7
HS 08RY51	18.2	59	8	1.1	135	39.4	17.1
KATONDA R2	18.0	67	9	1.3	134	41.9	17.2
Miko R2	18.1	69	10	1.4	132	40.5	17.3
91Y01	18.4	68	10	1.2	130	37.4	18.2
P10T48R	17.8	63	10	1.2	136	39.4	17.2
HS 09RYS12	17.0	64	9	1.1	130	38.7	18.0
Maxo R2	17.4	68	12	1.0	129	38.7	17.1
S10-S1	18.3	60	8	1.1	134	40.3	17.8
S11-N4	17.2	69	10	1.1	134	40	17.0
DS124U1	17.7	69	10	1.2	136	41.2	17.2
Means	18.1	65.8	9.7	1.1	132.3	39.9	17.5
Station years	4-12	3-11	3-10	3-10	3-10	2-10	2-10
One year data only (3-4 station years)			Two years data only (5-8 station years)				
Three years data (10-12 station years)							
<i>* Protein & Oil not measured for 2016 NB & PEI sites at time of publication</i>							

