



2017

**MARITIME
CORN
HYBRID
TESTING
REPORT**

Conducted by:
Maritime Corn Testing Committee

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Many thanks to Dan MacEachern & Chris Fleming (AAFC-Charlottetown), Peter Scott & Anthony Smith (NBDAF-Fredericton), Sonny Murray, Melanie Leclerc & Caitlin Congdon (Perennia, NS), along with Doug MacDonald (DalAC-Truro) for a corn testing job well done. Thanks to Gail Walsh of Perennia for preparation of this report.

CORN COMMENTS

Our 2017 Maritime corn testing program had 34 grain and 30 silage hybrids tested from 8 different corn companies. Sites were in Woodville (western NS), Stewiacke (central NS), Charlottetown, PE and Sussex and Woodstock, NB. The Maritime Corn Hybrid Performance Lists were made available to growers in mid-November to book seed orders for 2018. The 2017 corn trial in Stewiacke had to unfortunately be dropped due to extensive bird damage soon after planting.

This is my last fall as coordinator of the Maritime Corn Testing Team which provides growers with independent silage & grain hybrid testing results. I joined the 'corn testers' in the mid 90's after Agriculture Canada- Kentville stopped doing this work that had been initiated by Gerry Smeltzer way back in the mid 50's. Several people have provided both fine & lengthy service to the Maritime Corn Test. A big thanks to Bill Thomas (NSDA/Perennia) for over 30 years, to Peter Scott & Anthony Smith (NBDA) along with Walter Brown (NBDA/NBSCIA) for 20-25 years, to Chris Fleming (AAFC-PEI) & Doug MacDonald (NSAC/NSCDI) for over 15 years and to Melanie LeClerc (Perennia) for 10 years. This group, plus younger energy of Caitlin Congdon (Perennia) have all done a fine job in getting corn data completed quickly from trial harvests in early November & reports ready shortly afterwards to aid growers and seed sales reps.

Long-term recognition also needs to go out to Winding River Farms in Stewiacke, Nova Scotia (J&C Vissers, L&B Harbers) who have hosted the central NS corn test site for over 25 years. Also in the Annapolis Valley to Menkhorst Farms (M&T TeBogt & Sons) and Marshcrest Farms (the Palmetter family) in Grand Pre area who have hosted this trial for 10 & 5 year stints, respectively. Many thanks!

Thanks to La-Federee de Quebec (ELITE brand), Dow (Hyland), Maizex, Monsanto (Dekalb), Pickseed, Pioneer, Pride and PROSeeds (Sevita) for participating in the 2017 Maritimes Corn Test. Our corn growers have a great selection of corn hybrids that have performed very well in the Maritimes Corn Test.

I just wanted to end off by saying that it's been fun to be part of the fantastic gains made in Maritime corn yields during the 20 years of being Maritime Corn Testing Coordinator. I can easily remember helping my friend, the late Jim Lamb weigh off his Pioneer corn hybrid trials in the early 90's. It was difficult then to get much more than 2.0-2.5 tonne/acre grain yield and below 30% moisture in late November (with stalk breakage due to ECB, stalk rots & snow often in the 25-40% range). In 1999, Maritime corn growers had their first commercial availability of Bt traited hybrids. Comparing the same Bt versus non-Bt isolines showed us quickly that Bt hybrid yields were 6-12% higher and stalk breakage was <1-2% which really improved harvest speed and combine operator demeanor. In 2017, as I head into retirement many Maritime corn growers are achieving silage corn yields of 16-20 tonne/acre at desired ensiling moisture & 'dry' grain corn often yielding 3.8-4.5 tonne acre at 20-24% harvest moisture.

All the best to those that are striving for continually improved corn yields and feed quality!

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ATLANTIC AREA HYBRID EVALUATION SCHEME

Maturity and yield are both extremely important in short season areas. Hybrids exhibiting performance levels at or above the levels established by six hybrids, designated as standards for the region, will be placed on the performance list. At each test location, 3 hybrids designated as "early" and 3 designated as "late" for the Atlantic Region, are grown along with the currently listed hybrids and those newer hybrids being evaluated.

PERFORMANCE INDEX SYSTEM

A combined yield/maturity index called a Performance Index (P.I.) is calculated for each hybrid in each trial. This P.I. is compared to the P.I. of 100 which is established each year for each trial by the yield and maturity levels of six standard hybrids grown in that trial. A cumulative P.I. for each hybrid is generated by combining the hybrid's data from all locations and years where the test hybrid was grown together with some of the standards. The number of sites X years generating each hybrid's cumulative P.I. are indicated in the cumulative performance tables (pages 13 & 20).

One advantage of the P.I. system is that each hybrid being tested is directly compared only with the standard hybrids, and thus its P.I. is not influenced by the performance of other hybrids under test. Differences in the environment at the sites, or between years, are assumed to similarly affect both the hybrids under test and the standard hybrids. The P.I. system minimizes yearly fluctuations due to weather or other factors, since both the standards and the test hybrids experience the same environmental conditions specific to each location. Statistical tests have indicated that the interactions between hybrids and sites are minimal in the Maritime trials.

Performance Index values below 100 are inferior and those above 100 are superior to the boundaries established by the yield and maturity levels of the standard hybrids on a yield verses maturity graph. NOTE: a specific characteristic of this index is that two or more hybrids can have the SAME P.I., and yet have totally DIFFERENT maturity and/or yield levels. This occurs because the P.I. is a measure of the graphical distance between the maturity/yield point of a specific hybrid and the nearest part of the boundaries set by the standard hybrids.

The standard or check hybrids used in this system provide common reference points over the different tests and years.

ATLANTIC CORN HYBRID EVALUATION TRIALS

<u>Trial Area</u>	<u>Agency</u>	<u>Trial Coordinator</u>	<u>Technician</u>
Charlottetown	CRDC-AAFC	D. MacEachern	C. Fleming
Sussex/Woodstock	N.B. DAAF	P. Scott	A. Smith
Kentville, N.S.	Perennia/DAL-AC	J. van Roestel	C. Congdon
Stewiacke, N.S.	Perennia/DAL-AC		M. Leclerc

New hybrids to the Region are evaluated for their production potential at the five Maritime Test Sites located in P.E.I., N.S. and N.B. These trials contain all of the currently 'listed' hybrids, and those new hybrids under test.

CRITERIA FOR FURTHER TESTING OR DELETION FROM TESTING

The criteria allow for further Maritime testing of hybrids with performance similar or superior to the performance of "standard hybrids" grown in all trials. They also permit the acceptance of exceptionally earlier hybrids with somewhat reduced yield potential, or to some extent, exceptional yield with a maturity reduction. The criteria also identify when hybrids will be removed from the Maritime Corn Hybrid Performance List.

ACCEPTABLE PERFORMANCE FOR LISTING

SILAGE HYBRIDS may be LISTED when they meet any of the following criteria and have acceptable levels for stalk breakage, emergence and other characteristics.

1. A CUMULATIVE PERFORMANCE INDEX LEVEL of 105.0 or greater with 1 year's testing (minimum 4 sites X years).
2. A CUMULATIVE PERFORMANCE INDEX LEVEL of 100.0 or greater with 2 year's testing (minimum 7 sites X years).
3. A RELATIVE MATURITY LEVEL of (100 plus Y) or greater and a RELATIVE YIELD LEVEL of (100 minus Y) or greater, where Y equals 0.1 to 10 (minimum 7 sites X years).
4. A RELATIVE MATURITY LEVEL of 96.0 or greater and a RELATIVE YIELD LEVEL of 105.0 or greater (minimum 7 sites X years).

GRAIN HYBRIDS may be LISTED when they meet any of the following criteria and have acceptable levels for stalk breakage, emergence and other characteristics.

1. A CUMULATIVE PERFORMANCE INDEX LEVEL of 105.0 or greater with 1 year's testing (minimum 4 sites X years).
2. A CUMULATIVE PERFORMANCE INDEX LEVEL of 100.0 or greater with 2 year's testing (minimum 7 sites X years).
3. A RELATIVE MATURITY LEVEL of (100 plus Y) or greater and a RELATIVE YIELD LEVEL of (100 minus Y) or greater, where Y equals 0.1 to 10 (minimum 7 sites X years).
4. A RELATIVE MATURITY LEVEL of 96.0 or greater and a RELATIVE YIELD LEVEL of 105.0 or greater (minimum 7 sites X years).

RETESTING: New hybrids will be retested a 2nd year if the PERFORMANCE INDEX is 98.0 or greater or if they meet criteria 3 or 4, otherwise they will be dropped from further testing.

UNACCEPTABLE HYBRID PERFORMANCE: Companies will be WARNED when a LISTED HYBRID'S CUMULATIVE PERFORMANCE INDEX FIRST DROPS BELOW 98.0, or when CRITERIA 3 OR 4 ARE FIRST NO LONGER MET. If/when the Cumulative Performance Index remains below 98.0, or criteria 3 or 4 are not met, for a 2nd consecutive year, the hybrid will be REMOVED from the Maritime Corn Hybrid Performance List.

Notwithstanding the above, the Atlantic Forage and Corn Team-AFACT reserves the right to, at any time, change the methods of testing, the standard hybrids, the Performance Index system, and/or the criteria for accepting hybrids for testing, supporting hybrids for listing and 'de-list' hybrids in the Region.

ZONE DESIGNATIONS FOR MARITIME CORN PRODUCTION

The Maritime Provinces have been divided into 4 zones with different corn production potentials. The Corn Heat Unit (CHU) zone designations indicate the general potential of an area for corn production. Within any Production Zone, small pockets with better or poorer corn potential may occur due to topography, soil types, drainage, frost potential, etc.. Early maturity is the key to quality in both silage and grain corn production. The hybrids suitable for each zone are identified in the Maritime Corn Hybrid Lists.

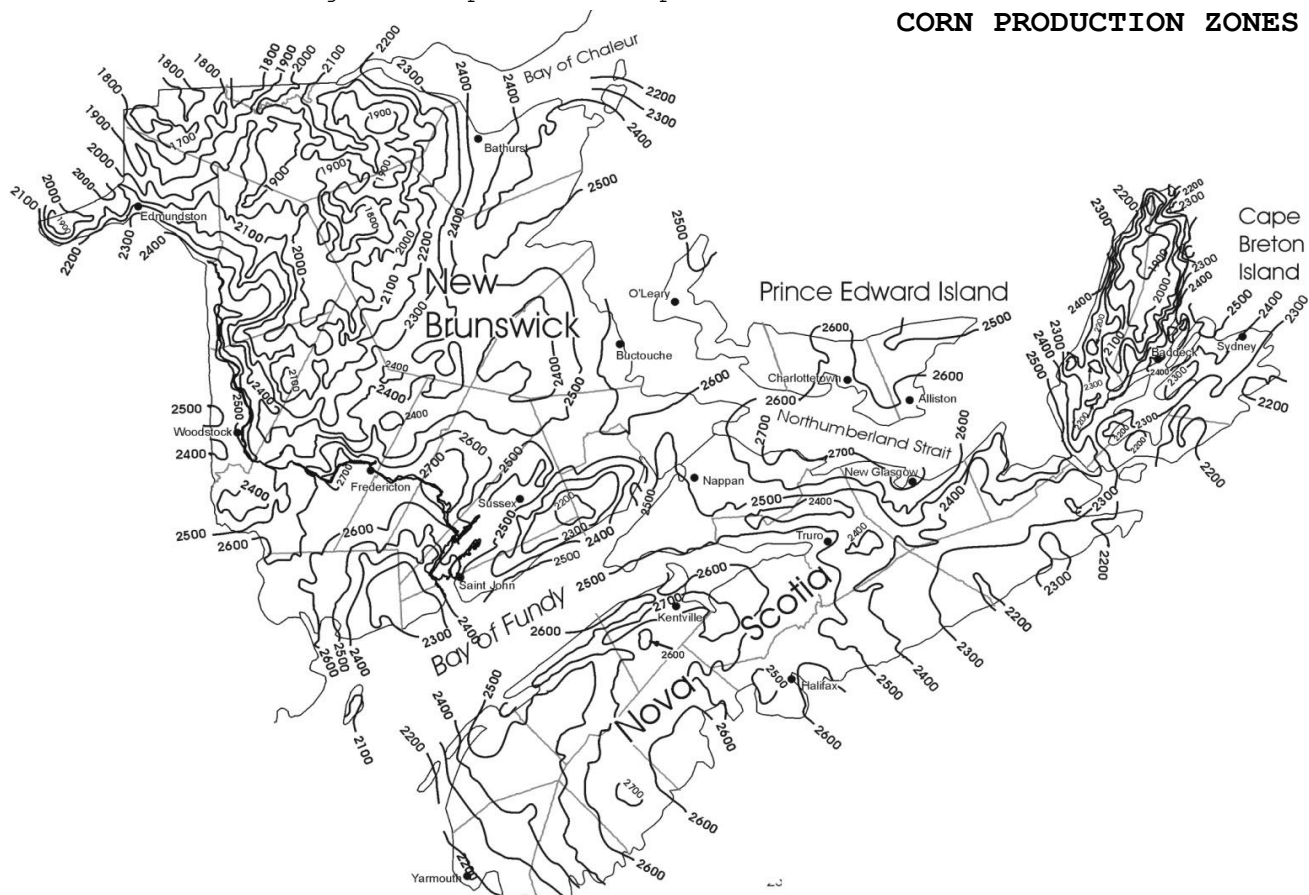
ZONE 1: (Over 2500 CHU's) Greatest potential for corn production as either silage or grain exists in this zone. Field to field soil variations should be considered when selecting corn hybrids.

ZONE 2: (2300-2500 CHU's) Early hybrids are required for good silage maturity. The earliest grain hybrids will produce acceptable high moisture ear corn and high moisture grain.

ZONE 3: (2200-2300 CHU's) Only the earliest hybrids will produce acceptable silage in this zone. High moisture ear corn or high moisture grain production is quite risky.

ZONE 4: (Less than 2200 CHU's) Corn production is very risky and corn will usually freeze before becoming sufficiently mature for acceptable silage. Some of these areas on Cape Breton Island and Newfoundland have had impressive silage corn yields when planting into a biodegradable plastic strips.

CORN PRODUCTION ZONES



LIST OF CORN SEED SUPPLIERS INVOLVED IN TESTING

HYBRID BRAND	HYBRID TESTER	ADDRESS
DEKALB	Monsanto Canada Inc.	517 Alfred Pellan Granby, QC J2J 2Y7
DOW	Dow AgroSciences Canada Inc.	PO Box 1090,5 Hyland Dr. Blenheim ON NOP 1A0
ELITE	La Co-op-Fédérée	19 235 Ave St-Louis St. Hyacinthe QC J2T 5J4
MAIZEX	Maizex Seeds	4488 Mint Line, Tilbury, ON N0P 2L0
PICKSEED	PICKSEED Canada Ltd.	Box304, 1 Greenfield Rd. Lindsay ON K9V 4S3
PIONEER	Dupont Pioneer	PO Box 730 Chatham ON N7M 5L1
PRIDE	PRIDE Seeds	PO Box 1088 Chatham ON N7M 5L6
PROSeeds	Sevita International (for Legend Seeds)	11451 Cameron Rd. Inkerman ON K0E 1J0

MARITIME GRAIN CORN HYBRID PERFORMANCE LIST

(all hybrids listed below have minimum of 2 years testing)

Production Zone	Hybrid Identity	Refuge Needs	Special Traits	Yield @ 15.5% Moisture (t/ha)	Grain Moisture Content (%)	Stalk Break (%)	# Sites X Years Tested
1+2+3	LR9473 RR (PROSeeds)	NA	RR	10.0	25.4	2	8
1+2+3	E47A12 R (ELITE)	RIB	VT2/RR	10.5	25.7	1	26
1+2+3	P7958AM (PIONEER)	AM	Bt/RR/LL	10.6	25.9	1	17
1+2	DKC 32-12 RIB (DEKALB)	RIB	VT2/RR	11.1	26.0	1	12
1+2	MZ 1633DBR (MAIZEX)	RIB	VT2/RR	10.7	26.0	1	8
1+2	DKC 30-07 RIB (DEKALB)	RIB	VT2/RR	10.7	26.3	1	26
1+2	PS 2210VT2P RIB (PICKSEED)	RIB	VT2/RR	10.7	26.3	1	12
1+2	P7632AM (PIONEER)	AM	Bt/RR/LL	9.9	26.4	1	21
1+2	E49A12 R (ELITE)	RIB	VT2/RR	10.8	26.5	1	17
1+2	A4939G2 RIB (PRIDE)	RIB	VT2/RR	10.9	27.1	1	17
1+2	E50P52 R (ELITE)	RIB	VT2/RR	11.0	27.3	1	12
1+2	MZ 1340DBR (MAIZEX)	RIB	VT2/RR	10.2	27.4	1	8
1+2	LR9676 VT2P RIB (PROSeeds)	RIB	VT2/RR	10.0	27.8	1	12
1+2	DKC 31-09 RIB (DEKALB)	RIB	VT3/RR	11.2	27.8	1	26
1	E53B22 R (ELITE)	RIB	VT2/RR	10.1	28.0	1	21
1	PS 2320RR (PICKSEED)	NA	RR	10.8	28.3	2	8
1	LR9579 RR (PROSeeds)	NA	RR	10.4	28.6	1	12
1	P8387AM (PIONEER)	AM	Bt/RR/LL	11.5	28.6	1	12
1	A5151G2 RIB (PRIDE)	RIB	VT2/RR	10.8	29.3	1	17
1	DS80A27RA (DOW)	RA	SS/RR/LL	10.4	30.3	1	12

MARITIME SILAGE CORN HYBRID PERFORMANCE LIST

(hybrids listed below have minimum of 2 years testing)

Production Zone	Hybrid Identity	Refuge Needs	Special Traits	Plant Yield (t/ha)	Plant Dry Matter (%)	Stalk Breakage (%)	# Sites Years Tested
1+2+3	LR9676 VT2P RIB (PROSeeds)	RIB	VT2/RR	16.4	39.4	0	14
1+2+3	MS 7420R (MAIZEX)	NA	RR	19.5	39.2	2	4
1+2+3	LR9676 RR (PROSeeds)	NA	RR	16.0	38.7	1	9
1+2+3	P7958AM (PIONEER)	AM	Bt/RR/LL	17.5	38.7	0	19
1+2+3	P7632AM (PIONEER)	AM	Bt/RR/LL	15.9	38.1	0	24
1+2+3	PS 2210VT2P RIB (PICKSEED)	RIB	VT2/RR	17.5	37.6	0	14
1+2+3	E47A12 R (ELITE)	RIB	VT2/RR	16.5	37.6	1	18
1+2	PS 2320RR (PICKSEED)	NA	RR	19.3	37.4	1	9
1+2	PS 2520VT2P RIB (PICKSEED)	RIB	VT2/RR	17.2	37.4	1	14
1+2	E49A12 R (ELITE)	RIB	VT2/RR	17.5	37.0	0	19
1+2	LF 730CBR (MAIZEX)	RIB	VT3/RR	18.1	37.0	0	9
1+2	P8387AM (PIONEER)	AM	Bt/RR/LL	18.1	36.8	0	14
1+2	DKC 30-07 RIB (DEKALB)	RIB	VT2/RR	17.3	36.6	0	29
1+2	A4939G2 RIB (PRIDE)	RIB	VT2/RR	17.9	36.6	0	19
1+2	LR9579 RR (PROSeeds)	NA	RR	16.8	36.1	1	14
1+2	DKC 32-12 RIB (DEKALB)	RIB	VT2/RR	17.8	36.0	0	9

Refuge Needs: NA = Not applicable where this hybrid is not a Bt hybrid; RIB, RA or AM = Bt refuge compliance is in the same seed bag

Special Traits are: Bt = Corn Borer protection; VT2 = VT DoublePro insect protection; VT3 = VT TriplePro insect protection; SS = SmartStax insect protection; AV = Agrisure Viptera insect protection; RR = Roundup Ready hybrid; GT= Glyphosate Tolerant hybrid; LL= Liberty tolerant hybrid

ATLANTIC REGIONAL CORN TRIAL SITE INFORMATION - 2017

AGENCY: New Brunswick Soil & Crop Improvement Association
New Brunswick Department of Agriculture, Aquaculture and Fisheries

TRIAL LOCATION: Jacksonville, NB (near Woodstock)

SEEDED: MAY 24, 2017

HARVESTED: **SILAGE TRIAL** **GRAIN TRIAL**
October 3, 2017 November 1, 2017

FERTILIZER: 22-13-9 + 0.4B BANDED May 25 225 KG/HA
 34-0-0 BROAD June 15 290 KG/HA

WEED CONTROL: Roundup Weathermax 2.5 L/ha on June 28 2017

FARMZONE WEATHER DATA:

	Corn Heat Units	Rainfall (mm)
May	266	157.8
June	514	69.2
July	654	37.9
August	573	30.7
Sept	571	39.2
Oct	278	92.3
May 25- Oct 26	2680	297.7

AGENCY: New Brunswick Soil & Crop Improvement Association
New Brunswick Department of Agriculture, Aquaculture and Fisheries

TRIAL LOCATION: Sussex, NB

SEEDED: May 25, 2017

HARVESTED: **SILAGE TRIAL** **GRAIN TRIAL**
October 4, 2017 October 23, 2017

FERTILIZER: 22-13-9 + 0.4B BANDED May 25 225 KG/HA
 34-0-0 BROAD June 21 290 KG/HA

WEED CONTROL: Roundup applied by host grower

FARMZONE WEATHER DATA:

	Corn Heat Units	Rainfall (mm)
May	244	156.3
June	505	84.6
July	682	30.4
August	650	46.8
Sept	519	92.9
Oct	289	51.5
May 12- Oct 18	2599	319.1

AGENCY: Perennia & Dalhousie Faculty of Agriculture

TRIAL LOCATION: Bethesda Holsteins (B.Smit) Woodville (near Kentville), NS

SEEDED: MAY 20 2017

HARVESTED: **SILAGE TRIAL** **GRAIN TRIAL**
 October 4 2017 November 2 2017

FERTILIZER: Broiler Manure INCORP. SPRING 2017 10 T/HA
 23-11-11 BANDED MAY 20 2017 167 KG/HA

WEED CONTROL: CONVERGE XT (PRE-EMERGE) 330 mL/HA & 1.7 L/HA

PERENNIA WEATHER CENTRE DATA FROM KENTVILLE RESEARCH STATION:

	Corn Heat Units		Rainfall (mm)	
	2017	2016	2017	2016
May	300	293	108	85.1
June	560	510	101	15.2
July	686	760	87	109.7
August	646	747	86	56.6
Sept	585	548	71	58.9
Totals	2777	2858	453	326

AGENCY: Perennia & Dalhousie Faculty of Agriculture

TRIAL LOCATION: Winding River Farms, Stewiacke (near Truro), NS

SEEDED: MAY 19 2017

FERTILIZER: DAIRY MANURE INCORP. FALL & SPRING 80 T/HA
 23-15-10 +5S BANDED MAY 26 2014 200 KG/HA

Trial had to be dropped due to extensive bird damage shortly after emergence.

AGENCY: AGRICULTURE AND AGRI-FOOD CANADA, CHARLOTTETOWN, P.E.I.

TRIAL LOCATION: HARRINGTON AAFC FARM, (near Charlottetown)

SEEDED: **SILAGE TRIAL** MAY 19 2017 **HARVESTED:** **SILAGE TRIAL** SEPT. 29 2017
GRAIN TRIAL MAY 19 2017 **GRAIN TRIAL** NOV. 3 2017

FERTILIZER: K-Mag BROADCAST MAY 18 2017 350 KG/HA
 34-0-0 BROADCAST MAY 18 2017 200 KG/HA
 18-46-0 BANDED AT PLANTING MAY 18 2017 150 KG/HA
 34-0-0 SIDE DRESSED BY HAND JULY 5 2017 200 KG/HA

WEED CONTROL: CONVERGE 480 (ATRAZINE) PRE MAY 20, 2017 1.8 L/HA
 PLUS DUAL MAGNUM (915g/L) PRE 1.2 L/HA
 FACTOR 540 spot sprayed JULY 8 2017 1.2 L/HA

PREVIOUS CROP GROWN: RED CLOVER

ACCUM. PRECIPITATION:			ACCUM. CORN HEAT UNITS:		
Charlottetown	2017	Long Term Mean	2017	Long Term Mean	
June	75.3	69.0	529	May - Sept.	
July	42.6	78.5	711	for Charlottetown	
Aug.	99.2	90.1	693	Weather Station is	
Sept.	61.9	91.9	535	Approx. 2600 CHU's	
OCT.	34.8	50.4	339		
	313.8 mm	380 mm	2807 CHU		

Note: Weather Recorded at AAFC-AAC Harrington, PE.

RELATIVE PERFORMANCE OF THE GRAIN HYBRIDS TO THE MEANS OF THE STANDARD HYBRIDS

In this table are the combined years' Dry Matter grain yields for each hybrid relative to the long-term mean of the 3 early standard hybrids (8.75 t/ha), along with the combined years Dry Matter content of each hybrid's grain relative to the long-term mean of the 3 late standard hybrids (71.21 % DM), which is used to produce the hybrid's Performance Index Value.

HYBRID		Dry Matter Yield (t/ha)	Grain DM Content (%)	Yield Relative to Early Standards	Grain DM Relative to Late Standards	Performance Index
E47A12 R (ELITE)	-	8.88	74.26	101.5	104.3	101.5
E53B22 R (ELITE)	+	8.50	71.96	97.2	101.1	96.6
E49A12 R (ELITE)		9.12	73.46	104.2	103.2	103.2
E50P52 R (ELITE)		9.26	72.69	105.9	102.1	102.1
X16-0470 (ELITE)		7.95	75.06	90.8	105.4	90.8
DKC 30-07 RIB (DEKALB)	-	9.04	73.75	103.3	103.6	103.2
DKC 31-09 RIB (DEKALB)		9.44	72.23	107.9	101.4	101.4
DKC 32-12 RIB (DEKALB)		9.42	74.04	107.6	104.0	104.0
DKC 30-19 RIB (DEKALB)		8.36	73.32	95.6	103.0	95.5
DKC 35-88 RIB (DEKALB)		9.22	68.01	105.4	95.5	95.5
DS80A27 (DOW)		8.76	69.71	100.1	97.9	97.9
CNX160036VX (DOW)		8.59	68.88	98.2	96.7	96.6
PS 2210VT2P RIB (PICKSEE)		9.01	73.74	102.9	103.5	102.8
PS 2320RR (PICKSEED)		9.09	71.75	103.9	100.8	100.8
PS 2333RR (PICKSEED)		9.55	70.76	109.2	99.4	99.4
PS 2420RR (PICKSEED)		8.89	70.68	101.5	99.3	99.3
PS 2444VT2P RIB (PICKSEE)		8.18	69.76	93.4	98.0	92.3
P7632AM (PIONEER)	-	8.33	73.61	95.2	103.4	95.2
P7958AM (PIONEER)		8.93	74.13	102.0	104.1	102.0
P8387AM (PIONEER)		9.68	71.41	110.6	100.3	100.3
P7527AM (PIONEER)		8.79	73.71	100.4	103.5	100.4
P8234AM (PIONEER)		9.22	71.11	105.3	99.9	99.9
A4939G2 RIB (PRIDE)		9.20	72.90	105.1	102.4	102.4
A5095G2 RIB (PRIDE)	+	8.88	71.02	101.5	99.7	99.7
A5151G2 RIB (PRIDE)	+	9.11	70.65	104.1	99.2	99.2
A5225G2 RIB (PRIDE)		8.57	68.61	97.9	96.3	96.2
XP17079G2 (PRIDE)		8.49	72.61	97.0	102.0	96.7
MZ 1340DBR (MAIZEX)		8.65	72.56	98.9	101.9	98.5
MZ 1633DBR (MAIZEX)		9.03	73.96	103.2	103.9	103.1
LR9676 VT2P RIB (PROSeeds)		8.45	72.25	96.6	101.5	96.1
LR9579 RR (PROSeeds)		8.78	71.41	100.4	100.3	99.5
LR9473 RR (PROSeeds)		8.48	74.57	96.9	104.7	96.9
LR9583 VT2P RIB (PROSeeds)		9.09	70.52	103.9	99.0	99.0
LR9474 VT2P RIB (PROSeeds)		8.70	74.73	99.4	104.9	99.4

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).

CUMULATIVE PERFORMANCE - GRAIN TRIALS

Cumulative performance data for all hybrids tested in the 2017 Grain Trials which includes the current year's and all prior year's testing results. All hybrids showing just 4 site years of testing were new entries in 2017.

Hybrid Identification	Yield @15.5% Moist. (t/ha)	Grain Moist. Content (%)	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index	# Site X Years Tested
X16-0470 (ELITE)	9.41	24.9	1.3	88.7	90.8	4
LR9474 VT2P RIB (PROSeeds)	10.29	25.3	0.3	87.6	99.4	4
LR9473 RR (PROSeeds)	10.03	25.4	2.1	92.7	96.9	8
E47A12 R (ELITE) -	10.51	25.7	0.9	91.6	101.5	26
P7958AM (PIONEER)	10.56	25.9	1.4	93.8	102.0	17
DKC 32-12 RIB (DEKALB)	11.14	26.0	0.9	93.1	104.0	12
MZ 1633DBR (MAIZEX)	10.68	26.0	0.6	93.6	103.1	8
DKC 30-07 RIB (DEKALB) -	10.70	26.3	0.7	91.6	103.2	26
PS 2210VT2P RIB (PICKSEED)	10.65	26.3	0.9	93.2	102.8	12
P7527AM (PIONEER)	10.40	26.3	2.7	89.0	100.4	4
P7632AM (PIONEER) -	9.85	26.4	0.8	88.8	95.2	21
E49A12 R (ELITE)	10.79	26.5	0.7	90.5	103.2	17
DKC 30-19 RIB (DEKALB)	9.89	26.7	1.3	90.8	95.5	8
A4939G2 RIB (PRIDE)	10.88	27.1	0.9	90.7	102.4	17
E50P52 R (ELITE)	10.96	27.3	0.5	95.0	102.1	12
XP17079G2 (PRIDE)	10.05	27.4	0.5	94.0	96.7	4
MZ 1340DBR (MAIZEX)	10.24	27.4	1.3	92.3	98.5	8
LR9676 VT2P RIB (PROSeeds)	10.00	27.8	0.8	92.5	96.1	12
DKC 31-09 RIB (DEKALB)	11.17	27.8	0.5	92.6	101.4	26
E53B22 R (ELITE) +	10.06	28.0	0.7	88.0	96.6	21
PS 2320RR (PICKSEED)	10.75	28.3	1.5	92.0	100.8	8
LR9579 RR (PROSeeds)	10.39	28.6	0.8	87.5	99.5	12
P8387AM (PIONEER)	11.45	28.6	0.6	85.6	100.3	12
P8234AM (PIONEER)	10.91	28.9	0.6	86.6	99.9	4
A5095G2 RIB (PRIDE) +	10.51	29.0	1.0	91.1	99.7	17
PS 2333RR (PICKSEED)	11.30	29.2	2.3	88.7	99.4	4
PS 2420RR (PICKSEED)	10.51	29.3	2.9	89.9	99.3	4
A5151G2 RIB (PRIDE) +	10.78	29.3	1.1	88.5	99.2	17
LR9583 VT2P RIB (PROSeeds)	10.75	29.5	1.0	88.0	99.0	8
PS 2444VT2P RIB (PICKSEED)	9.67	30.2	0.3	86.2	92.3	4
DS80A27 (DOW)	10.36	30.3	0.7	90.4	97.9	12
CNX160036VX (DOW)	10.17	31.1	0.6	77.8	96.6	4
A5225G2 RIB (PRIDE)	10.14	31.4	0.5	80.0	96.2	4
DKC 35-88 RIB (DEKALB)	10.91	32.0	0.5	88.3	95.5	8

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
Emergence recorded before thinning to 36 plants per 6.5 meter row.

2017 PERFORMANCE DATA FOR CHARLOTTETOWN GRAIN TRIAL

AGENCY: AGRICULTURE AND AGRI-FOOD CANADA

GRAIN TRIAL LOCATION: HARRINGTON, P.E.I. (Near Charlottetown)

SEEDED: MAY 19, 2017

HARVESTED: November 3, 2017

HYBRID	Yield @15.5% Moist. (t/ha)	Grain Moisture Content (%)	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index
P7958AM (PIONEER)	9.77	25.6	2.7	95.5	100.1
DKC 32-12RIB (DEKALB)	10.67	26.1	2.1	92.0	104.9
X16-0470 (ELITE)	8.75	26.1	3.0	92.3	89.6
MZ 1633DBR (MAIZEX)	10.58	26.3	0.0	96.3	104.6
PS 2210VT2P RIB (PICKSEED)	10.72	26.4	1.9	88.8	104.5
LR9473 RR (PROSeeds)	9.45	26.6	5.8	93.3	96.8
DKC 30-19RIB (DEKALB)	9.94	26.7	4.6	92.0	101.8
DKC 30-07 RIB (DEKALB) -	10.84	26.9	0.0	91.4	103.8
LR9474 VT2P RIB (PROSeeds)	10.02	27.1	0.0	89.5	102.4
A4939G2 RIB (PRIDE)	10.46	27.2	1.2	94.6	103.3
P7527AM (PIONEER)	9.75	27.5	2.7	92.3	99.9
PS 2333RR (PICKSEED)	10.23	27.7	7.2	91.1	102.7
PS 2320RR (PICKSEED)	9.76	28.0	3.6	91.2	99.8
XP17079G2 (PRIDE)	10.05	28.1	0.0	95.4	101.4
LR9676 VT2P RIB (PROSeeds)	9.85	28.3	1.8	98.0	100.0
P7632AM (PIONEER) -	9.57	28.4	0.8	92.8	97.9
E47A12 R (ELITE) -	8.90	28.4	0.0	82.5	91.1
PS 2420RR (PICKSEED)	9.85	28.5	6.6	88.0	99.8
E49A12 R (ELITE)	9.94	28.7	0.0	89.8	100.2
DKC 31-09 RIB (DEKALB)	10.26	28.8	1.0	95.0	101.1
A5095G2 RIB (PRIDE) +	10.52	28.9	0.0	90.6	100.9
MZ 1340DBR (MAIZEX)	9.82	28.9	2.0	96.9	99.1
LR9579 RR (PROSeeds)	9.21	29.0	0.0	84.2	94.3
E50P52 R (ELITE)	9.83	29.0	0.0	96.5	99.1
P8387AM (PIONEER)	9.53	29.1	0.0	82.4	97.2
E53B22 R (ELITE) +	8.99	29.2	0.0	91.3	92.0
PS 2444VT2P RIB (PICKSEED)	9.50	29.4	0.0	83.7	96.7
LR9583 VT2P RIB (PROSeeds)	9.85	30.1	1.0	92.2	97.9
DS80A27 (DOW)	8.94	30.3	0.7	89.1	91.6
P8234AM (PIONEER)	9.31	30.4	1.1	86.4	94.3
A5151G2 RIB (PRIDE) +	10.75	30.5	0.0	80.8	98.7
A5225G2 RIB (PRIDE)	9.45	30.6	1.0	82.0	95.0
DKC 35-88RIB (DEKALB)	9.79	30.7	0.0	93.9	96.8
CNX160036VX (DOW)	8.03	32.8	0.0	82.0	82.2

LSD (5%)	0.928	1.08	3.51	7.43	
Grand Mean	9.790	28.42	1.49	90.41	
C.V.	5.814	2.33	144.58	5.04	
SEM	0.329	0.38	1.24	2.63	

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
Emergence recorded before thinning to 36 plants per 6.5 meter row.

2017 PERFORMANCE DATA FOR KENTVILLE GRAIN TRIAL

AGENCY: PERENNIA & NOVA SCOTIA CROP DEVELOPMENT INSTITUTE

GRAIN TRIAL LOCATION: Woodville, NS (near KENTVILLE)

SEEDED: MAY 20, 2017

HARVESTED: NOVEMBER 2, 2017

HYBRID	Yield @15.5% Moist. (t/ha)	Grain Moisture Content (%)	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index
P7958AM (PIONEER)	13.08	19.1	3.1	98.1	104.2
X16-0470 (ELITE)	10.96	19.2	1.0	90.8	87.5
LR9473 RR (PROSeeds)	11.75	19.5	2.0	92.9	93.8
DKC 32-12RIB (DEKALB)	14.79	20.6	0.0	95.0	102.8
DKC 30-07 RIB (DEKALB) -	13.21	20.7	0.0	97.5	102.3
E49A12 R (ELITE)	13.99	20.7	0.0	92.6	102.6
P7527AM (PIONEER)	12.00	21.1	6.7	85.9	95.8
XP17079G2 (PRIDE)	13.32	21.2	1.0	97.1	101.9
E47A12 R (ELITE) -	12.56	21.5	0.0	79.5	100.3
MZ 1340DBR (MAIZEX)	11.86	21.6	2.9	96.4	94.7
E50P52 R (ELITE)	12.96	21.7	0.0	96.5	100.7
PS 2210VT2P RIB (PICKSEED)	13.48	21.8	0.0	94.1	101.2
A5151G2 RIB (PRIDE) +	13.93	21.9	5.1	88.3	101.0
MZ 1633DBR (MAIZEX)	13.70	22.2	0.0	96.2	100.7
DKC 31-09 RIB (DEKALB)	13.92	22.6	0.0	95.1	100.1
P8387AM (PIONEER)	14.79	22.7	0.0	88.1	100.1
P8234AM (PIONEER)	14.16	22.9	0.0	84.0	99.8
PS 2320RR (PICKSEED)	12.79	22.9	2.9	95.0	98.9
LR9474 VT2P RIB (PROSeeds)	13.16	23.0	0.0	95.0	99.3
E53B22 R (ELITE) +	12.89	23.0	0.0	96.3	98.9
P7632AM (PIONEER) -	11.81	23.2	0.0	95.0	94.3
LR9676 VT2P RIB (PROSeeds)	11.80	23.2	1.5	93.6	94.2
A5095G2 RIB (PRIDE) +	13.38	23.2	0.0	94.1	99.4
LR9579 RR (PROSeeds)	13.00	23.2	1.0	88.2	98.8
PS 2444VT2P RIB (PICKSEED)	12.32	23.4	0.0	91.6	97.7
PS 2420RR (PICKSEED)	12.16	23.7	3.8	94.5	97.0
DKC 30-19RIB (DEKALB)	12.22	24.4	0.0	93.6	96.2
A4939G2 RIB (PRIDE)	13.27	24.5	2.2	94.4	97.6
DS80A27 (DOW)	13.00	24.6	1.0	86.5	97.0
DKC 35-88RIB (DEKALB)	14.41	25.1	0.0	96.2	97.0
CNX160036VX (DOW)	13.80	25.2	1.0	86.3	96.8
LR9583 VT2P RIB (PROSeeds)	12.04	25.3	2.0	97.6	94.9
A5225G2 RIB (PRIDE)	12.19	25.3	0.0	89.8	95.1
PS 2333RR (PICKSEED)	14.12	26.0	0.9	93.7	95.8

LSD(5%)	1.530	1.41	3.82	7.17	
Grand Mean	13.024	22.65	1.12	92.64	
C.V.	7.194	3.82	208.79	4.74	
SEM	0.541	0.50	1.35	2.54	

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
Emergence recorded before thinning to 36 plants per 6.5 meter row.

2017 PERFORMANCE DATA FOR SUSSEX GRAIN TRIAL

AGENCY: NEW BRUNSWICK SOIL & CROP IMPROVEMENT ASSOCIATION

NEW BRUNSWICK DEPARTMENT of AGRICULTURE & AQUACULTURE AND FISHERIES

GRAIN TRIAL LOCATION: ROCKVILLE, NB (near SUSSEX)

SEEDED: MAY 25, 2017

HARVESTED: OCTOBER 23, 2017

HYBRID		Yield @15.5% Moist. (t/ha)	Grain Moisture Content (%)	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index
E47A12 R (ELITE)	-	6.19	23.0	0.0	81.7	103.0
LR9474 VT2P RIB (PROSeeds)		5.47	24.2	0.0	65.8	91.0
P7958AM (PIONEER)		7.01	24.7	0.0	91.6	111.0
X16-0470 (ELITE)		7.04	25.1	0.0	73.7	110.5
P7527AM (PIONEER)		6.60	26.5	0.0	76.7	108.4
MZ 1633DBR (MAIZEX)		5.67	26.6	0.0	77.0	94.2
DKC 30-07 RIB (DEKALB)	-	5.67	26.6	0.0	81.0	94.2
LR9473 RR (PROSeeds)		6.12	27.3	0.0	81.6	101.8
P7632AM (PIONEER)	-	6.18	27.6	0.0	87.1	102.9
PS 2210VT2P RIB (PICKSEED)		5.17	27.7	0.0	76.8	86.0
DKC 30-19RIB (DEKALB)		6.12	28.6	0.0	76.5	101.7
A4939G2 RIB (PRIDE)		6.19	28.6	0.0	77.6	103.0
E50P52 R (ELITE)		5.87	29.1	0.0	87.7	97.7
DKC 32-12RIB (DEKALB)		6.31	29.2	0.0	88.0	104.4
MZ 1340DBR (MAIZEX)		5.94	29.5	0.0	77.6	98.8
E49A12 R (ELITE)		5.65	29.9	0.0	73.9	94.0
A5095G2 RIB (PRIDE)	+	6.49	30.5	0.0	76.5	102.4
P8234AM (PIONEER)		6.76	30.5	0.0	75.5	102.4
PS 2320RR (PICKSEED)		6.70	30.6	0.0	77.9	102.4
LR9676 VT2P RIB (PROSeeds)		5.48	30.6	0.0	70.3	91.2
XP17079G2 (PRIDE)		4.94	30.8	0.0	84.6	82.2
DKC 31-09 RIB (DEKALB)		5.98	30.9	0.0	71.1	99.4
LR9583 VT2P RIB (PROSeeds)		5.46	31.4	0.0	65.5	90.7
PS 2333RR (PICKSEED)		5.75	31.4	0.0	63.6	95.6
PS 2420RR (PICKSEED)		6.04	31.8	0.0	76.2	100.5
P8387AM (PIONEER)		6.93	32.5	0.0	83.5	99.6
DS80A27 (DOW)		5.19	32.5	0.0	61.7	86.3
A5151G2 RIB (PRIDE)	+	6.30	32.7	0.0	72.2	99.3
E53B22 R (ELITE)	+	5.25	33.3	0.0	73.4	87.4
LR9579 RR (PROSeeds)		5.50	33.8	0.0	53.3	91.5
CNX160036VX (DOW)		6.11	34.2	0.0	58.2	97.1
PS 2444VT2P RIB (PICKSEED)		4.45	37.6	0.0	65.1	73.9
A5225G2 RIB (PRIDE)		5.54	38.9	0.0	59.0	90.1
DKC 35-88RIB (DEKALB)		5.08	40.0	0.0	53.1	84.6

LSD(5%)	0.840	2.98	0.00	19.97
Grand Mean	5.916	30.25	0.00	73.96
C.V.	8.671	6.03	210.99	16.55
SEM	0.296	1.05	0.00	7.07

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
Emergence recorded before thinning to 36 plants per 6.5 meter row.

2017 PERFORMANCE DATA FOR WOODSTOCK GRAIN TRIAL

AGENCY: NEW BRUNSWICK SOIL & CROP IMPROVEMENT ASSOCIATION

NEW BRUNSWICK DEPARTMENT of AGRICULTURE & AQUACULTURE AND FISHERIES

GRAIN TRIAL LOCATION: Jacksonville, NB (near Woodstock)

SEEDED: MAY 24, 2017

HARVESTED: NOVEMBER 1, 2017

HYBRID	Yield @15.5% Moist. (t/ha)	Grain Moisture Content (%)	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index
DKC 32-12RIB (DEKALB)	12.75	19.7	0.0	96.5	108.3
LR9474 VT2P RIB (PROSeeds)	10.01	20.9	0.0	86.4	92.7
MZ 1633DBR (MAIZEX)	10.88	21.5	0.8	91.4	100.8
DKC 30-07 RIB (DEKALB) -	10.60	21.5	0.0	99.0	98.2
E47A12 R (ELITE) -	11.02	21.6	0.0	93.9	102.1
PS 2210VT2P RIB (PICKSEED)	10.29	21.9	0.0	95.5	95.3
A4939G2 RIB (PRIDE)	11.43	22.7	0.0	91.4	104.3
LR9473 RR (PROSeeds)	10.07	23.0	0.9	89.4	93.2
E49A12 R (ELITE)	10.64	23.0	0.0	96.5	98.5
P7958AM (PIONEER)	10.49	23.3	0.0	94.4	97.1
X16-0470 (ELITE)	8.37	23.5	0.0	84.3	77.5
E50P52 R (ELITE)	11.11	23.6	0.0	95.5	102.9
XP17079G2 (PRIDE)	9.37	23.6	0.0	85.4	86.8
LR9579 RR (PROSeeds)	10.31	23.6	0.0	90.2	95.5
DKC 31-09 RIB (DEKALB)	11.40	23.7	0.0	99.0	102.9
DS80A27 (DOW)	9.83	24.2	0.0	92.9	91.0
LR9676 VT2P RIB (PROSeeds)	9.97	24.2	0.0	89.9	92.3
P7527AM (PIONEER)	10.75	24.2	0.0	87.4	99.5
DKC 30-19RIB (DEKALB)	9.40	24.4	0.0	82.3	87.0
PS 2320RR (PICKSEED)	12.37	24.4	0.0	89.9	102.0
P7632AM (PIONEER) -	10.97	24.5	0.0	74.2	101.6
E53B22 R (ELITE) +	10.04	24.6	0.0	90.9	93.0
PS 2444VT2P RIB (PICKSEED)	9.93	24.7	0.0	90.9	91.9
A5225G2 RIB (PRIDE)	10.86	24.9	0.0	75.8	100.5
P8387AM (PIONEER)	12.15	24.9	0.0	84.9	101.2
MZ 1340DBR (MAIZEX)	10.55	25.3	0.0	83.3	97.6
LR9583 VT2P RIB (PROSeeds)	11.08	25.7	0.0	73.2	100.3
P8234AM (PIONEER)	10.89	25.9	0.0	87.1	99.9
A5151G2 RIB (PRIDE) +	11.62	26.0	0.0	84.9	99.9
PS 2333RR (PICKSEED)	12.60	26.0	0.0	92.9	99.8
CNX160036VX (DOW)	10.21	26.4	0.0	71.2	94.5
A5095G2 RIB (PRIDE) +	10.55	27.0	2.8	81.8	97.7
PS 2420RR (PICKSEED)	11.50	27.4	0.0	87.4	97.9
DKC 35-88RIB (DEKALB)	11.26	27.7	0.0	77.8	97.6

LSD(5%)	1.671	1.68	1.49	24.01
Grand Mean	10.745	24.09	0.14	87.87
C.V.	9.511	4.27	651.51	16.74
SEM	0.590	0.59	0.53	8.49

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
Emergence recorded before thinning to 36 plants per 6.5 meter row.

RELATIVE PERFORMANCE OF THE SILAGE HYBRIDS TO THE MEANS OF THE STANDARD HYBRIDS

In this table are the combined years' whole-plant Dry Matter yields for each silage hybrid relative to the long-term mean yield of the 3 early standard hybrids (16.65t/ha), along with the combined years' Dry Matter content of each hybrid relative to the long-term mean of the 3 late standard hybrids (36.72% DM), which is used to produce the hybrid's Performance Index Value.

HYBRID		Dry Matter Yield (t/ha)	Whole-Plant % Dry Matter	Yield Relative to Early Standards	% DM Relative to Late Standards	Performance Index
E47A12 R (ELITE)	-	16.47	37.57	99.0	102.3	98.2
E49A12 R (ELITE)	+	17.49	36.99	105.1	100.7	100.4
E55T32 R (ELITE)		18.98	32.81	114.0	89.3	89.3
E61C37 R (ELITE)		19.50	29.63	117.1	80.7	80.7
DKC 30-07 RIB (DEKALB)	+	17.31	36.60	104.0	99.7	98.9
DKC 33-78 RIB (DEKALB)		15.88	37.07	95.4	100.9	95.1
DKC 32-12 RIB (DEKALB)		17.77	36.00	106.7	98.0	98.0
DKC 34-57 RIB (DEKALB)		16.81	34.38	101.0	93.6	92.2
DKC 35-88 RIB (DEKALB)		15.96	33.01	95.9	89.9	86.2
DS80A27 (DOW)		15.61	32.26	93.8	87.8	83.4
BMR90B94 (DOW)		15.58	31.71	93.6	86.3	82.0
CNX160036VX (DOW)		15.16	34.53	91.1	94.0	86.9
PS 2210VT2P RIB (PICKSEED)		17.46	37.61	104.9	102.4	101.7
PS 2520VT2P RIB (PICKSEED)		17.15	37.37	103.0	101.8	100.1
PS 2320RR (PICKSEED)		19.25	37.44	115.6	102.0	102.0
PS 2333RR (PICKSEED)		18.00	35.78	108.1	97.4	97.4
PS 2420RR (PICKSEED)		20.24	36.71	121.6	100.0	100.0
PS 2444VT2P RIB (PICKSEED)		16.87	35.53	101.4	96.8	95.0
P7632AM (PIONEER)	-	15.94	38.08	95.8	103.7	95.8
P7958AM (PIONEER)	-	17.52	38.66	105.3	105.3	104.2
P8387AM (PIONEER)		18.07	36.83	108.6	100.3	100.3
P7527AM (PIONEER)		16.12	38.51	96.8	104.9	96.8
P8234AM (PIONEER)		17.11	35.73	102.8	97.3	96.3
A4939G2 RIB (PRIDE)	+	17.87	36.57	107.3	99.6	99.6
LF 730CBR (MAIZEX)		18.10	36.95	108.8	100.6	100.6
MS 7420R (MAIZEX)		19.52	39.16	117.3	106.6	106.6
LR9676 VT2P RIB (PROSeeds)		16.38	39.41	98.4	107.3	98.4
LR9579 RR (PROSeeds)		16.78	36.10	100.8	98.3	96.0
LR9676 RR (PROSeeds)		15.96	38.68	95.9	105.3	95.9
LR9474 VT2P RIB (PROSeeds)		17.22	38.63	103.5	105.2	103.2

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).

CUMULATIVE PERFORMANCE - SILAGE TRIALS

Cumulative performance data for all hybrids tested in the 2017 Silage Trials which includes the current year's and all prior year's testing results. All hybrids showing just 4 site years of testing were new entries in 2017.

HYBRID	Dry Matter Yield (t/ha)	Whole- Plant % Dry Matter	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index	# of Sites X Years Tested
LR9676 VT2P RIB (PROSeeds)	16.38	39.4	0.2	93.6	98.4	14
MS 7420R (MAIZEX)	19.52	39.2	1.5	85.5	106.6	4
LR9676 RR (PROSeeds)	15.96	38.7	0.6	88.8	95.9	9
P7958AM (PIONEER) -	17.52	38.7	0.3	93.3	104.2	19
LR9474 VT2P RIB (PROSeeds)	17.22	38.6	0.0	88.4	103.2	4
P7527AM (PIONEER)	16.12	38.5	0.3	90.1	96.8	4
P7632AM (PIONEER) -	15.94	38.1	0.2	90.3	95.8	24
PS 2210VT2P RIB (PICKSEED)	17.46	37.6	0.1	92.7	101.7	14
E47A12 R (ELITE) -	16.47	37.6	0.5	90.3	98.2	18
PS 2320RR (PICKSEED)	19.25	37.4	1.4	92.2	102.0	9
PS 2520VT2P RIB (PICKSEED)	17.15	37.4	0.6	93.7	100.1	14
DKC 33-78 RIB (DEKALB)	15.88	37.1	0.9	90.7	95.1	14
E49A12 R (ELITE) +	17.49	37.0	0.0	90.9	100.4	19
LF 730CBR (MAIZEX)	18.10	37.0	0.2	91.9	100.6	9
P8387AM (PIONEER)	18.07	36.8	0.1	86.0	100.3	14
PS 2420RR (PICKSEED)	20.24	36.7	0.1	93.2	100.0	4
DKC 30-07 RIB (DEKALB) +	17.31	36.6	0.3	92.1	98.9	29
A4939G2 RIB (PRIDE) +	17.87	36.6	0.1	91.7	99.6	19
LR9579 RR (PROSeeds)	16.78	36.1	0.5	88.5	96.0	14
DKC 32-12 RIB (DEKALB)	17.77	36.0	0.1	92.3	98.0	9
PS 2333RR (PICKSEED)	18.00	35.8	0.5	89.4	97.4	4
P8234AM (PIONEER)	17.11	35.7	1.5	85.5	96.3	4
PS 2444VT2P RIB (PICKSEED)	16.87	35.5	0.3	84.0	95.0	4
CNX160036VX (DOW)	15.16	34.5	0.3	77.8	86.9	4
DKC 34-57 RIB (DEKALB)	16.81	34.4	0.1	89.3	92.2	4
DKC 35-88 RIB (DEKALB)	15.96	33.0	0.3	89.2	86.2	4
E55T32 R (ELITE)	18.98	32.8	0.1	92.6	89.3	4
DS80A27 (DOW)	15.61	32.3	0.3	83.1	83.4	4
BMR90B94 (DOW)	15.58	31.7	0.1	88.5	82.0	4
E61C37 R (ELITE)	19.50	29.6	0.2	89.0	80.7	4

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
Emergence recorded before thinning to 36 plants per 6.5 meter row.
Silage & grain plots are thinned to a plant population of 30,000/acre.

2017 PERFORMANCE DATA FOR CHARLOTTETOWN SILAGE TRIAL

AGENCY: AGRICULTURE AND AGRI-FOOD CANADA, CHARLOTTETOWN, P.E.I.

SILAGE TRIAL LOCATION: HARRINGTON, P.E.I. (near Charlottetown)

SEEDED: MAY 19, 2017

HARVESTED: SEPTEMBER 29, 2017

HYBRID	Yield Whole Plant Dry Matter (t/ha)	Silage Dry Matter (%)	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index
LR9676 VT2P RIB (PROSeeds)	13.65	35.0	0.0	91.9	97.4
LR9676 RR (PROSeeds)	13.83	34.4	0.9	88.9	98.7
LF 730CBR (MAIZEX)	16.72	34.2	1.1	95.0	105.7
P7527AM (PIONEER)	14.61	34.2	0.0	87.4	104.3
LR9474 VT2P RIB (PROSeeds)	14.43	34.0	0.0	88.4	103.0
P7958AM (PIONEER)	- 14.82	34.0	0.0	91.9	105.0
DKC 33-78RIB (DEKALB)	14.59	34.0	0.0	98.0	104.1
E47A12 R (ELITE)	- 13.57	33.9	0.3	87.4	96.8
MS 7420R (MAIZEX)	16.46	33.6	4.7	84.3	103.7
PS 2210VT2P RIB (PICKSEED)	15.96	33.5	1.0	93.4	103.5
P8387AM (PIONEER)	16.03	33.1	0.0	84.3	102.2
PS 2420RR (PICKSEED)	16.87	33.1	0.0	85.4	102.2
PS 2520VT2P RIB (PICKSEED)	14.63	32.7	4.5	90.9	100.8
E49A12 R (ELITE)	+ 14.15	32.5	0.0	91.9	98.8
A4939G2 RIB (PRIDE)	+ 15.22	32.4	0.7	94.4	100.2
DKC 30-07 RIB (DEKALB)	+ 14.57	32.1	2.0	96.5	99.1
PS 2333RR (PICKSEED)	15.08	32.1	1.7	92.9	99.2
PS 2444VT2P RIB (PICKSEED)	15.21	31.8	1.0	84.3	98.1
P7632AM (PIONEER)	- 13.64	31.6	0.2	94.4	94.6
DKC 32-12RIB (DEKALB)	15.05	31.4	0.0	92.4	97.0
DKC 34-57RIB (DEKALB)	15.49	31.4	0.0	98.0	96.9
P8234AM (PIONEER)	14.08	31.1	4.0	88.9	94.6
PS 2320RR (PICKSEED)	14.75	30.7	2.6	91.4	94.7
LR9579 RR (PROSeeds)	13.61	30.5	0.0	87.4	91.5
E55T32 R (ELITE)	16.75	30.3	0.0	94.4	93.6
CNX160036VX (DOW)	12.42	29.6	1.1	80.8	85.1
DKC 35-88RIB (DEKALB)	13.99	29.4	0.0	95.5	89.7
E61C37 R (ELITE)	16.94	28.7	0.4	86.4	88.5
DS80A27 (DOW)	13.83	28.5	0.0	88.9	86.7
BMR90B94 (DOW)	11.53	28.0	0.0	89.9	77.6
LSD (5%)	1.673	1.28	3.72	9.55	
Grand Mean	14.749	32.06	0.86	90.52	
C.V.	6.925	2.43	264.04	6.45	
SEM	0.590	0.45	1.31	3.37	

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
Emergence recorded before thinning to 36 plants per 6.5 meter row.
Silage & grain plots are thinned to a plant population of 30,000/acre.

2017 PERFORMANCE DATA FOR KENTVILLE SILAGE TRIAL

AGENCY: PERENNIA & NOVA SCOTIA CROP DEVELOPMENT INSTITUTE

SILAGE TRIAL LOCATION: Woodville, NS (near KENTVILLE)

SEEDED: MAY 20, 2017

HARVESTED: October 4, 2017

HYBRID	Yield Whole Plant Dry Matter (t/ha)	Silage Dry Matter (%)	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index
MS 7420R (MAIZEX)	22.89	40.6	1.0	88.9	109.8
LR9676 VT2P RIB (PROSeeds)	22.24	40.2	0.0	95.5	108.7
P7527AM (PIONEER)	19.37	39.5	0.0	92.4	95.7
A4939G2 RIB (PRIDE) +	22.45	38.9	0.0	91.9	105.2
LR9676 RR (PROSeeds)	19.78	38.5	0.0	96.0	97.7
P7958AM (PIONEER) -	22.39	37.8	1.0	97.0	102.1
P7632AM (PIONEER) -	20.00	37.6	0.0	96.5	98.8
PS 2520VT2P RIB (PICKSEED)	20.65	37.6	0.0	95.0	100.9
PS 2420RR (PICKSEED)	25.37	37.5	0.0	92.4	101.4
LR9474 VT2P RIB (PROSeeds)	22.41	37.4	0.0	93.4	101.1
PS 2444VT2P RIB (PICKSEED)	22.76	37.1	0.0	89.9	100.4
E49A12 R (ELITE) +	19.75	37.1	0.0	96.5	97.5
E47A12 R (ELITE) -	18.34	36.9	0.0	78.8	90.6
P8234AM (PIONEER)	20.54	36.6	1.0	90.9	98.3
DKC 33-78RIB (DEKALB)	20.89	36.6	0.0	96.0	98.7
LF 730CBR (MAIZEX)	22.48	36.3	0.0	90.9	98.2
P8387AM (PIONEER)	20.39	36.3	0.0	85.9	97.2
LR9579 RR (PROSeeds)	20.78	35.7	0.0	87.4	96.2
PS 2333RR (PICKSEED)	20.83	35.5	0.0	94.4	95.7
DKC 32-12RIB (DEKALB)	21.41	35.1	0.0	90.4	94.8
DKC 30-07 RIB (DEKALB) +	21.12	34.9	0.0	96.0	94.4
PS 2320RR (PICKSEED)	20.74	34.5	1.0	93.4	93.2
E55T32 R (ELITE)	23.49	34.3	0.0	97.0	92.7
PS 2210VT2P RIB (PICKSEED)	19.64	34.2	0.0	98.5	90.8
DKC 34-57RIB (DEKALB)	20.69	33.0	0.0	90.4	89.0
CNX160036VX (DOW)	19.33	32.8	0.0	89.4	86.7
DKC 35-88RIB (DEKALB)	20.20	32.5	0.9	98.5	87.2
DS80A27 (DOW)	18.58	32.4	0.0	88.6	84.8
BMR90B94 (DOW)	17.80	31.4	0.0	96.5	81.1
E61C37 R (ELITE)	23.41	30.6	0.0	93.4	82.7
LSD (5%)	2.641	2.50	1.17	8.23	
Grand Mean	21.024	35.98	0.16	92.72	
C.V.	7.673	4.25	434.90	5.42	
SEM	0.931	0.88	0.41	2.90	

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
 Emergence recorded before thinning to 36 plants per 6.5 meter row.
 Silage & grain plots are thinned to a plant population of 30,000/acre.

2017 PERFORMANCE DATA FOR SUSSEX SILAGE TRIAL

AGENCY: NEW BRUNSWICK SOIL & CROP IMPROVEMENT ASSOCIATION

NEW BRUNSWICK DEPARTMENT of AGRICULTURE & AQUACULTURE AND FISHERIES

SILAGE TRIAL LOCATION: SUSSEX, NB

SEEDED: MAY 25, 2017

HARVESTED: OCTOBER 4, 2017

HYBRID	Yield Whole Plant Dry Matter (t/ha)	Silage Dry Matter (%)	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index
PS 2320RR (PICKSEED)	18.16	51.2	2.8	87.9	109.3
LR9676 VT2P RIB (PROSeeds)	15.79	51.2	0.0	86.7	104.2
LR9676 RR (PROSeeds)	13.50	49.6	1.0	67.0	89.1
LR9474 VT2P RIB (PROSeeds)	14.25	49.1	0.0	78.3	94.0
MS 7420R (MAIZEX)	15.47	48.9	0.0	75.4	102.1
P7527AM (PIONEER)	13.62	48.9	0.9	86.8	89.8
P8387AM (PIONEER)	17.12	48.6	0.0	84.8	103.7
DKC 30-07 RIB (DEKALB) +	14.53	48.6	0.0	83.6	95.9
P7632AM (PIONEER) -	15.96	48.1	0.0	92.5	102.7
P7958AM (PIONEER) -	14.81	47.7	0.0	79.5	97.7
LF 730CBR (MAIZEX)	16.54	47.6	0.0	94.2	101.5
PS 2210VT2P RIB (PICKSEED)	14.63	47.5	0.0	80.2	96.5
E47A12 R (ELITE) -	15.14	47.3	0.0	91.9	99.9
A4939G2 RIB (PRIDE) +	16.23	46.3	0.0	80.8	98.9
PS 2333RR (PICKSEED)	15.94	46.3	0.0	84.5	98.8
E49A12 R (ELITE) +	14.28	45.7	0.0	84.1	94.2
P8234AM (PIONEER)	15.08	45.4	0.8	76.1	96.8
PS 2420RR (PICKSEED)	16.69	45.3	0.0	96.8	96.7
CNX160036VX (DOW)	13.13	45.3	0.0	69.4	86.6
DKC 33-78RIB (DEKALB)	13.01	44.7	0.0	75.6	85.8
DKC 32-12RIB (DEKALB)	17.09	44.4	0.0	97.3	94.7
DKC 34-57RIB (DEKALB)	14.53	44.3	0.0	76.2	94.6
PS 2520VT2P RIB (PICKSEED)	15.91	44.3	0.0	86.5	94.6
LR9579 RR (PROSeeds)	13.80	43.6	0.1	66.5	91.0
DS80A27 (DOW)	13.52	43.2	1.0	73.0	89.2
PS 2444VT2P RIB (PICKSEED)	13.92	43.0	0.0	79.5	91.8
DKC 35-88RIB (DEKALB)	13.66	41.1	0.0	64.9	87.7
BMR90B94 (DOW)	14.44	40.8	0.0	81.5	87.0
E55T32 R (ELITE)	15.11	39.2	0.0	81.1	83.6
E61C37 R (ELITE)	16.15	36.6	0.0	82.9	78.0
LSD(5%)	2.374	2.66	1.65	17.66	
Grand Mean	15.067	45.80	0.22	81.52	
C.V.	9.633	3.55	460.08	13.25	
SEM	0.838	0.94	0.58	6.23	

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
Emergence recorded before thinning to 36 plants per 6.5 meter row.
Silage & grain plots are thinned to a plant population of 30,000/acre.

2017 PERFORMANCE DATA FOR WOODSTOCK SILAGE TRIAL

AGENCY: NEW BRUNSWICK SOIL & CROP IMPROVEMENT ASSOCIATION

NEW BRUNSWICK DEPARTMENT of AGRICULTURE & AQUACULTURE AND FISHERIES

SILAGE TRIAL LOCATION: Jacksonville, NB (near Woodstock)

SEEDED: May 24, 2017

HARVESTED: OCTOBER 3, 2017

HYBRID		Yield Whole Plant Dry Matter (t/ha)	Silage Dry Matter (%)	Stalk Break- age (%)	Emerg- ence (%)	Perfor- mance Index
DKC 30-07 RIB (DEKALB)	+	20.49	46.6	0.0	93.5	104.4
LR9676 VT2P RIB (PROSeeds)		17.79	46.5	0.0	98.1	92.4
PS 2320RR (PICKSEED)		20.18	46.3	0.0	93.4	103.6
PS 2210VT2P RIB (PICKSEED)		18.93	46.1	0.0	92.5	98.2
LR9676 RR (PROSeeds)		19.66	45.8	0.0	98.9	102.1
E47A12 R (ELITE)	-	19.80	45.7	0.0	97.7	102.3
LR9474 VT2P RIB (PROSeeds)		19.33	45.6	0.0	92.0	100.3
P7958AM (PIONEER)	-	19.50	45.2	0.0	95.6	101.1
MS 7420R (MAIZEX)		24.79	45.1	0.0	91.9	101.0
A4939G2 RIB (PRIDE)	+	21.08	45.0	0.0	94.6	100.9
DKC 32-12RIB (DEKALB)		19.41	43.9	0.0	88.2	98.2
P7632AM (PIONEER)	-	18.50	43.3	0.0	95.3	96.0
P7527AM (PIONEER)		18.39	43.0	0.0	92.4	95.4
P8387AM (PIONEER)		20.82	42.8	0.0	88.3	95.8
PS 2520VT2P RIB (PICKSEED)		19.40	42.7	0.0	95.9	95.5
PS 2420RR (PICKSEED)		23.57	42.5	0.0	96.5	95.2
E49A12 R (ELITE)	+	19.01	42.3	0.0	95.9	94.5
CNX160036VX (DOW)		17.30	42.0	0.0	70.1	89.8
PS 2444VT2P RIB (PICKSEED)		17.12	41.8	0.0	80.8	88.9
DKC 33-78RIB (DEKALB)		17.43	41.7	0.0	98.3	90.5
LF 730CBR (MAIZEX)		19.16	41.7	0.0	98.8	93.1
LR9579 RR (PROSeeds)		20.83	41.6	0.0	89.4	93.1
P8234AM (PIONEER)		20.26	41.4	0.0	84.4	92.6
PS 2333RR (PICKSEED)		21.67	40.8	0.0	84.4	91.3
DKC 35-88RIB (DEKALB)		17.51	40.6	0.0	96.2	90.3
DKC 34-57RIB (DEKALB)		18.05	40.4	0.0	91.2	89.9
E55T32 R (ELITE)		22.10	39.0	0.0	96.4	87.3
BMR90B94 (DOW)		20.09	38.2	0.0	84.6	85.6
DS80A27 (DOW)		18.04	36.5	0.0	80.5	81.3
E61C37 R (ELITE)		23.01	34.2	0.0	91.6	76.6

	LSD(5%)	3.254	3.29	0.00	10.82	
	Grand Mean	19.775	42.62	0.00	91.59	
	C.V.	10.061	4.72	387.41	7.22	
	SEM	1.149	1.16	0.00	3.82	

Notes: Early Standard Hybrids indicated by a (-); Late Standards by a (+).
Emergence recorded before thinning to 36 plants per 6.5 meter row.
Silage & grain plots are thinned to a plant population of 30,000/acre.