



Dual Column Trial Report

Quebec - Le Haut-Richelieu

Tracking Name: OFGC15071621_0001	Exp Type: Genetic
Business Partner: Ferme A et P Alix S.E.N.C.	County: Le Haut-Richelieu
State: Quebec	Irrigation: Fully
Planting Date: 5/14/2015	Harvest Date: 9/24/2015

Entry #	Brand	Hybrid /Brand	% DM	Tons/ Acre 35%D M (t/a)	% Strch	% Fib Dig (24 -hr)	% NDF	% Sug	% CP	Lbs Beef/ Acre (lb/a)	Lbs Beef/ Ton (lb/t)	Lbs Milk/ Acre (lb/a)	Lbs Milk/ Ton (lb/t)	AGI
1	Pioneer	P9789 AMXT	39.6	24.77	39.2	44.8	36.8	3.8	7.8	5,016	579	30,515	3,520	\$654
2	Pioneer	P9807 AM	38.5	23.75	39.9	41.1	37.6	3.0	6.8	4,584	551	28,235	3,397	\$635
3	Pioneer	P9789 AMXT	40.6	22.41	42.3	44.9	34.3	3.9	6.1	4,631	591	28,164	3,591	\$637
4	Pioneer	P0242 AMXT	36.2	25.34	40.5	42.0	35.6	3.7	7.3	5,008	565	30,713	3,463	\$689
5	Pioneer	P0496 AMX	36.7	26.56	40.9	43.7	35.8	3.6	7.6	5,372	578	32,777	3,526	\$730
6	Pioneer	P0506 AM	33.9	27.29	37.6	42.9	37.3	5.1	7.3	5,400	565	33,049	3,460	\$697
7	Pioneer	P0677 XR	35.6	25.86	37.5	46.8	36.9	4.8	7.3	5,274	583	31,892	3,524	\$657
8	Pioneer	P1180 XR	29.4	23.75	34.3	50.7	39.1	5.4	8.1	4,912	591	29,297	3,524	\$558
9	Maizex	LF 8877C BR	40.2	27.88	37.5	44.0	38.1	4.2	7.0	5,475	561	33,405	3,423	\$707

Notes and Explanations:

Temperature, rainfall and solar radiation are estimates based on available data from weather stations in the area. Crop growth indices for individual hybrids, including estimates of silking and maturity dates, are produced by the proprietary EnClass® crop growth model using this weather information. Though crop growth indices produced by the model are calibrated based on historical field observations of products, they may not accurately reflect the growth stage at an individual location.

Where shown, soil information is provided by Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database available online at <http://soildatamart.nrcs.usda.gov>.

Information and results contained herein represent the average of all comparisons across the area indicated. Results may not predict future performance and may not be complete. Testing accuracy, area variations and a limited environmental base can give misleading results. Multi-year and multi-location information is a better predictor of future performance. Please use this information as only one component of your product positioning decision.

Insecticide Seed Treatment (IST): Indicates insecticide seed treatment was purchased on the seed. Fungicide Seed Treatment (FST): Indicates fungicide seed treatment was purchased on the seed. Nematicide Seed Treatment (NST): Indicates nematicide seed treatment was purchased on the seed.

*** ** Since the trait/segment information is derived from each competitor's own product information, DuPont Pioneer makes no representations or warranties as to its accuracy, completeness or suitability.

All Pioneer products are hybrids unless designated with AM1, AM, AMRW, AMT, AMX and AMXT, in which case they are brands.

Segments:

HX1 - Contains the Herculex® I Insect Protection gene which provides protection against European corn borer, southwestern corn borer, black cutworm, fall armyworm, western bean cutworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; and suppresses corn earworm. HXRW - The Herculex® RW insect protection trait contains proteins that provide enhanced resistance against western corn rootworm, northern corn rootworm and Mexican corn rootworm. HXX - Herculex® XTRA contains the Herculex I and Herculex RW genes. YGCB - The YieldGard® Corn Borer gene offers a high level of resistance to European corn borer, southwestern corn borer and southern cornstalk borer. The gene also offers a moderate level of resistance to corn earworm and common stalk borer; and above average resistance to fall armyworm. LL - Contains the LibertyLink® gene for resistance to Liberty® herbicide. RR2 - Contains the Roundup Ready® Corn 2 trait that provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions. WX - Waxy. WH - White food corn. YFC - Yellow food corn; AQ - Optimum® AQUAmax® hybrid. BMR - Brown MidRib Corn. RW,HX1,LL,RR2 (Optimum® TRlsect®) - Contains the Herculex I gene for above-ground pests and the Agrisure® RW trait for resistance to corn rootworm. AM1 - Optimum® AcreMax® 1 Insect Protection System with an integrated corn rootworm refuge solution includes HXX, LL, RR2. Optimum AcreMax 1 products contain the LibertyLink® gene and can be sprayed with Liberty® herbicide. The required corn borer refuge can be planted up to half a mile away. AMRW - Optimum® AcreMax® RW Rootworm Protection system with a single-bag integrated corn rootworm refuge solution includes HXRW, LL, RR2. AM - Optimum® AcreMax® Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton growing counties, a 20% separate corn borer fuge must be planted with Optimum AcreMax products. AMX - Optimum® AcreMax® Xtra Insect Protection system with YGCB, HXX, LL, RR2. Contains a single-bag integrated refuge solution for above- and below-ground insects. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax Xtra products. AMXT (Optimum® AcreMax® XTreme) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® XTRA genes. In EPA -designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax XTreme products. RW,YGCB,HXX,LL,RR2 (Optimum® Intrasect® XTreme) - Contains the Agrisure® RW trait, the YieldGard Corn Borer gene, and the Herculex® XTRA genes for resistance to corn borer and corn rootworm. Optimum Intrasect XTreme will be the major component of Optimum AcreMax XTreme. AVBL,YGCB,HX1,LL,RR2 (Optimum® Leptra®) - Contains the Agrisure Viptera® trait, the YieldGard Corn Borer gene, the Herculex® I gene, the LibertyLink® gene, and the Roundup Ready® Corn 2 trait. AMT - Optimum® AcreMax® TRlsect® Insect Protection System with RW,YGCB,HX1,LL,RR2. Contains a single-bag refuge solution for above and below ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® I genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax TRlsect products. AMRW-R - Optimum® AcreMax® RW Rootworm Protection system with a single-bag integrated corn rootworm refuge solution includes HXRW, RR2. Do not spray with Liberty®. Not all seeds in the bag are tolerant to Liberty herbicide. VT2P - Genuity VT Double PRO - Contains the Genuity VT PRO genes and the Roundup Ready® Corn 2 trait. Provides resistance to corn borers and tolerance to glyphosate herbicides. SSTX ζ Genuity SmartStax ζ contains the Genuity VT Triple PRO traits, Herculex XTRA traits, the LibertyLink gene, and the Roundup Ready Corn 2 trait. Provides resistance to corn borers, corn rootworms, tolerance to glyphosate herbicides, and resistance to Liberty herbicide. AV-3110 - Agrisure Viptera® 3110 trait stack - Contains the Agrisure Viptera®, Agrisure® CB, and Agrisure® GT traits. AV-3111 - Agrisure Viptera® 3111 trait stack - Contains the Agrisure Viptera®, Agrisure® CB, Agrisure® RW, and Agrisure® GT traits. YGCB,HX1,LL,RR2 (Optimum® Intrasect®) - Contains the YieldGard® Corn Borer gene and Herculex® I gene for resistance to corn borer. YGCB,HXX,LL,RR2 (Optimum® Intrasect® XTRA) - Contains the YieldGard® Corn Borer gene and the Herculex XTRA genes for resistance to corn borer and corn rootworm. VT2P-RIB - Contains the Genuity® VT Double PRO RIB Complete ζ technology for above-ground insect protection. AV-3220 - Agrisure® Viptera® 3220 trait stack - Contains the Herculex® I, Agrisure Viptera®, Agrisure® CB, and Agrisure® GT traits. AS-3122 - Agrisure® 3122 trait stack - Contains the Herculex® XTRA, Agrisure® CB, Agrisure® RW, and Agrisure® GT traits. AS-3011A or AS-4011 - Agrisure® 4011 trait stack - Contains the Agrisure 3000GT traits, and Agrisure Artesian(TM) technology. AVBL,CB,LL,GT - Contains the Agrisure Viptera® 3110 trait stack: Agrisure Viptera®, Agrisure® CB and Agrisure® GT traits. AS-3122-EZR - Contains the Agrisure® trait stack and the E-Z Refuge® technology. AS-3011 - Contains the Agrisure® 3000GT traits. ART - Syngenta traits or trait stacks followed by an Aalso contain the Agrisure® Artesian(TM) technology such as AS-3011A or GTA. GT - Contains the Agrisure® GT trait that provides tolerance to glyphosate herbicides. CB - Contains the Agrisure® CB trait that provides resistance to corn borers. RW - Contains the Agrisure® RW trait that provides resistance to corn rootworms. VT - YieldGard VT Rootworm/RR2 contains both the YieldGard Rootworm gene and the Roundup Ready Corn 2 trait. VT3 - YieldGard VT Triple contains the YieldGard Rootworm gene, the YieldGard Corn Borer gene and the Roundup Ready Corn 2 trait. VT3P - Genuity VT Triple PRO contains the YieldGard VT gene YieldGard Rootworm/RR2), and the Genuity VT PRO gene. Provides resistance to corn borers, corn rootworms, and tolerance to glyphosate herbicides. SSTX-RIB - Contains either the SmartStax® RIB Complete technology or the REFUGE ADVANCED ζ powered by SmartStax® technology. DG - Contains the Genuity® DroughtGard(TM) technology. AV-3220-EZR - Contains the Agrisure Viptera® trait stack and the E-Z Refuge® technology. Herculex® Insect Protection technology by Dow AgroSciences and Pioneer Hi-Bred. Herculex® and the HX logo are registered trademarks of Dow AgroSciences LLC. YieldGard®, the YieldGard Corn Borer Design and Roundup Ready® are registered trademarks used under license from Monsanto Company. Liberty®, LibertyLink®, the Water Droplet Design and Poncho® are trademarks of Bayer. Cruiser® is a registered trademark of a Syngenta Group Company. Agrisure®, Agrisure Viptera® and E -Z Refuge® are registered trademarks of, and used under license from, a Syngenta Group Company. Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG. SILAGE CRM: Silage Comparative Relative Maturity. With no industry standard for silage maturity, comparing maturity and harvest moisture across various company's corn-for-silage hybrids can be difficult. Pioneer silage CRM ratings provide a relative comparison among Pioneer brand hybrids of rates at which hybrids reach harvestable whole-plant moistures. It is on the same scale as the CRM rating provided for grain-corn hybrids and does not represent actual days from planting or emergence to



harvest moisture or half milkline.

Tons/Acre (35%DM): Whole plant yield adjusted to 35% dry matter.

% DM: Percent dry matter of whole plant at harvest.

% CP: Percent crude protein (DM basis) in the whole plant.

ADF,%: % acid detergent fiber (DM basis) in the whole plant sample.

% NDF: Percent neutral detergent fiber (DM basis) in the whole plant.

% FibDig (24-hr): % degradable neutral detergent fiber (as a percent of total NDF, DM basis) in whole-plant samples in a 24-hour period.

% Sugar: Percent soluble sugars (DM basis) in the whole plant.

% Starch: Percent starch (DM basis) in the whole plant.

NE-L,%: Net Energy for Lactation (Mcal/lb, DM basis).

TDN,%: % total digestible nutrients (DM basis).

Lbs Milk/Acre: Pounds of milk per acre on a dry matter basis based on University of Wisconsin MILK2006 utilizing silage yield, nutrient content and digestibility.

Lbs Milk/Ton: Pounds of milk per ton of silage on a dry matter basis based on University of Wisconsin MILK2006 utilizing silage nutrient content and digestibility.

Lbs Beef/Ton: Pounds of beef per ton of silage on a dry matter basis based on a modification of the University of Wisconsin MILK2006 utilizing silage nutrient content and digestibility.

Lbs Beef/Acre: Pounds of beef per acre on a dry matter basis based on a modification of the University of Wisconsin MILK2006 utilizing silage yield, nutrient content and digestibility.

Caution should be used when making hybrid decisions based on single/limited plot comparisons. A minimum of 20 side-by-side hybrid comparisons is required for valid yield and nutritional comparisons.

For explanations and footnotes for traits depicted, please refer to Trait Ratings.

Product responses are variable and subject to any number of environmental, disease and pest pressures. Individual results may vary. Multi-year and multi-location data are a better predictor of future performance. DO NOT USE THIS OR ANY OTHER DATA FROM A LIMITED NUMBER OF TRIALS AS A SIGNIFICANT FACTOR IN PRODUCT SELECTION. Refer to www.pioneer.com/products or contact a Pioneer sales representative or authorized dealer for the latest and complete listing of traits and scores for each Pioneer® brand product.

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