

TRIALS Reporting

Dual Column Trial Report

ND Pembina

Bernhoft Farms
 Tracking Name: OFGC14061024_0059 Previous Crop: Soybeans
 Irrigated: Non-Irrigated Plant Date: 05/12/2014
 Tillage: Conventional Harvest Date: 11/06/2014
 Plant Rate: 37.00 Weigh Device: Weighed
 TDE Contact: AgWorx LLC
 Sales Provider: Bernhoft; Neil
 Comments:

Brand	Product	Segment	Yield	MST%	Tst Wt (lbs/bu)	AGI/A
Pioneer	39D80	RR2	Suppressed due to Harvest			Quality
Pioneer	P7332R	RR2	180.2	17.2	56.5	615
Pioneer	EXP	AM/RR2	182.7	18.1	56.0	617
Pioneer	39D97	HX1/LL/RR2	166.2	16.7	58.0	570
Pioneer	39V07	HX1/LL/RR2	172.3	16.9	56.0	590
Pioneer	P8210HR	HX1/LL/RR2	181.5	18.2	56.3	612
Pioneer	P8673AM	AM/LL/RR2	167.5	20.4	53.3	550
Pioneer	P8639AM	AM/LL/RR2	188.5	18.8	54.0	631
Pioneer	39D80	RR2	Suppressed due to Harvest			Quality

ND Pembina

Name Withheld
 Tracking Name: OFGC14075341_0001 Previous Crop: Soybeans
 Irrigated: Non-Irrigated Plant Date: 05/22/2014
 Tillage: Conventional Harvest Date: 11/04/2014
 Plant Rate: 33.50 Weigh Device: Weighed
 TDE Contact: S & S Grain Inc
 Sales Provider: Smith; Joel
 Comments: P7443R was starting to break down and lodge resulting in yield loss

Brand	Product	Segment	Yield	MST%	Tst Wt (lbs/bu)	AGI/A
DeKalb	DKC27-55RIB	VT2P-RIB	165.3	17.1	58.7	565
Pioneer	39D97	HX1/LL/RR2	165.9	16.0	55.7	574
Pioneer	P7443R	RR2	158.6	15.4	55.6	553
Pioneer	EXP	AM/RR2	167.0	15.9	54.1	578
Pioneer	P7332R	RR2	177.5	15.6	54.8	617
DeKalb	DKC27-55RIB	VT2P-RIB	169.3	17.5	58.5	576



Market Price	Market Segment	Segment Price Adj.	Adjustment	Total Market Price
\$3.50	Standard	\$0.00	\$0.040	\$3.50

(1) YIELD = (100 - MOISTURE) x (LBS. OF GRAIN) x (FACTOR) ÷ (HARVESTED LENGTH IN FEET) ÷ (HARVESTED WIDTH IN INCHES). Not applicable if weighed with Yield Monitor. Yield monitor yields are estimates of yield taken from the yield monitor data files. Yield estimate calculations are dependent on the equipment and software manufacturer. Yield estimates from a yield monitor can vary significantly from actual yields of hybrids/varieties at a single point, within areas of a field or in aggregate. Any number of factors such as inappropriate calibration, machine settings, machine dynamics, grain characteristics, temperature, slope, operator error, etc. can impact the accuracy of yield monitor yield estimates. 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.

^ EXPORT APPROVAL NOTICE: This product is fully approved in the United States and Canada. Traits included in these products may or may not be approved in all global markets; therefore, the combination of these traits and the grain and certain by-products (including oil, dried distillers grain, cobs, and husks) from THESE PRODUCTS MAY NOT BE APPROVED for all markets. Growers that use Pioneer® brand seed with biotech traits are required and agree to adhere to the stewardship requirements as outlined in this product stewardship guide. For questions regarding product stewardship and biotech traits please contact your sales representative or refer to www.pioneer.com/stewardship. Growers are required to discuss trait acceptance and grain channeling policies with their local grain handler prior to delivering grain containing biotech traits.

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.

AVBL,CB,LL,GT - Contains the Agrisure Viptera® 3110 trait stack: Agrisure Viptera®, Agrisure® CB and Agrisure® GT traits.

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.

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.

AM1 - Optimum® AcreMax® 1 Insect Protection System with an integrated corn rootworm refuge solution includes HXX, HX1, 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-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.

AMRW - Optimum® AcreMax® RW Rootworm Protection system with a single-bag integrated corn rootworm refuge solution includes HXRW, LL, RR2.

AM-R - Optimum® AcreMax® Insect Protection system with YGCB, HX1, RR2. Contains a single-bag integrated refuge solution for above-ground insects. Do not spray with Liberty®. Not all seeds in the bag are tolerant to Liberty herbicide. In EPA-designated cotton growing counties, a 20% separate refuge must be planted with Optimum AcreMax products.

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 refuge must be planted with Optimum AcreMax products.

AMX-R - Optimum® AcreMax® Xtra Insect Protection system with YGCB, HXX, RR2. Contains a single-bag integrated refuge solution for above- and below-ground insects. Do not spray with Liberty®. Not all seeds in the bag are tolerant to Liberty herbicide. In EPA-designated cotton growing counties, a 20% separate refuge must be planted with Optimum AcreMax Xtra 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 refuge must be planted with Optimum AcreMax Xtra products.

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 (HXX) genes for resistance to corn borer and corn rootworm.

RW, HX1, LL, RR2 (Optimum® TRIssect™) – Contains the Herculex I gene for above-ground pests and the Agrisure® RW trait for resistance to corn rootworm.

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.

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.

Other Segments:

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.

VT2P-RIB – Contains the Genuity® VT Double PRO RIB Complete™ technology for above-ground insect protection.

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; above average resistance to fall armyworm.

SSTX – Genuity SmartStax – 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.

SSTX-RIB - Contains either the SmartStax® RIB Complete technology or the REFUGE ADVANCED™ powered by SmartStax® technology.

DG - Contains the Genuity® DroughtGard™ technology.

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.

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.

AV-3220-EZR - Contains the Agrisure Viptera® trait stack and the E-Z Refuge® technology.

AS-3122-EZR - Contains the Agrisure® trait stack and the E-Z Refuge® technology.

AS-3011 - Contains the Agrisure® 3000GT traits.

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.

AV-3220 – Agrisure Viptera® 3220 trait stack – Contains the Herculex® 1, 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 the Agrisure Artesian™ technology.

ART - Syngenta traits or trait stacks followed by an "A" also contain the Agrisure® Artesian™ technology such as AS-3011A or GTA.

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® and the Water Droplet Design and Poncho® are trademarks of Bayer.

Cruiser® is a registered trademark of a Syngenta Group Company.

Agrisure® and 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.

All products are trademarks of their manufacturers.

Hybrid and variety responses are variable and subject to any number of environmental, disease and pest pressures. 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 or contact a Pioneer sales representative or authorized dealer for the latest and complete listing of traits and scores for each Pioneer® brand product.

PIONEER® brand products are provided subject to the terms and conditions of purchase which are part of the labeling and purchase documents. The DuPont Oval Logo is a registered trademark of DuPont. ®, SM, TM Trademarks and service marks of Pioneer. © 2013 PHIL. The services associated with providing this information are provided for the grower's individual evaluation of products and conditional upon the grower agreeing that no part of this document, or information provided in this document, may be shared with any third-party including any third-party seed company. Any reproduction or use of this form, or the data contained herein, without prior written permission of DuPont Pioneer is strictly prohibited.