



# Dual Column Trial Report

Ohio - Sandusky

<b>Tracking Name:</b> OFGC17100318_0025	<b>Exp Type:</b> Genetic
<b>Business Partner:</b> Puckrin; Allen	<b>County:</b> Sandusky
<b>State:</b> Ohio	<b>Planting Date:</b> 4/25/2017
<b>Harvest Date:</b> 10/18/2017	

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Factor(s)	Mst (%)	AGI	Yield Rank	YM Verified Yld	YM Verified Mst (%)	YM AGI	YM Yield Rank
1	Agrigold	A6499V T2RIB	252.4		20.2	\$705	34				0
2	Agrigold	A6544V T2RIB	255.6		20.3	\$713	25				0
3	Supreme EX	SCS112 5YHR	260.8		20.0	\$730	16				0
4	DeKalb	DKC64-87RIB	268.0		21.3	\$736	8				0
5	Agrigold	A6579V T2RIB	264.2		22.1	\$718	13				0
6	Pioneer	P1443A M	264.3		20.9	\$731	12				0
7	Pioneer	P1442A M	261.7		22.8	\$703	15				0
8	Agrigold	A6572V T2RIB	258.6		21.1	\$713	21				0
9	FS	FS 63ZX1RIB	267.8		23.3	\$714	9				0
10	Agrigold	A6499V T2RIB	263.0		22.6	\$709	14				0
11	Agrigold	A642-59STXRIB	273.0		22.5	\$737	4				0
12	AXIS	62M25V T2PRIB	254.2		20.0	\$712	29				0
13	Agrigold	A6499S TXRIB	266.2		22.8	\$716	10				0
14	Agrigold	A6488V T2RIB	253.7		21.4	\$696	32				0
15	Pioneer	P1197A M	270.0		21.1	\$744	5				0
16	Rupp	XR D11-13	230.1		19.7	\$647	49				0

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Factor(s)	Mst (%)	AGI	Yield Rank	YM Verified Yld	YM Verified Mst (%)	YM AGI	YM Yield Rank
17	FS	FS 61SX1RIB	245.4		21.7	\$670	40				0
18	Agrigold	A6499V T2RIB	254.5		20.8	\$704	27				0
19	Seed Consultant	SC 11AQ17	265.7		20.4	\$740	11				0
20	Stine	9739E-20	230.9		22.5	\$623	48				0
21	Mycogen	2V709	255.7		21.1	\$705	24				0
23	Agrigold	A6462V T2RIB	253.8		20.5	\$706	31				0
24	AXIS	60R20V T2PRIB	244.6		19.8	\$687	41				0
25	Agrigold	A6442V T2RIB	252.6		20.8	\$699	33				0
26	Seed Consultant	SC 10AGT96	244.1		19.6	\$687	42				0
27	Rupp	XR D09-35	240.0		20.1	\$671	44				0
28	Pioneer	P0825A M	268.2		19.9	\$752	6				0
29	Pioneer	P0843A M	268.2		19.4	\$757	7				0
30	DeKalb	DKC58-06RIB	231.0		20.2	\$645	47				0
31	Croplan Genetics	4895SS RIB	259.8		19.7	\$731	19				0
33	Stine	9734E-20	231.6		20.9	\$640	46				0
34	Supreme EX	SCS108 6YHR	284.1		19.1	\$806	1				0
36	Agrigold	A6413V T2RIB	250.6		18.8	\$714	36				0
37	Croplan Genetics	4791AS 3111	260.2		19.4	\$735	18				0
38	FS	FS 57TX1RIB	225.8		19.0	\$641	51				0
39	AXIS	57H25V T2PRIB	275.1		18.6	\$786	2				0

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Factor(s)	Mst (%)	AGI	Yield Rank	YM Verified Yld	YM Verified Mst (%)	YM AGI	YM Yield Rank
41	Croplan Genetics	4644DG VT2PRI B	257.4		18.8	\$733	23				0
42	Agrigold	A6355V T2RIB	247.0		17.1	\$720	39				0
43	Supreme EX	SCS106 7YHR	257.5		18.0	\$742	22				0
44	Agrigold	A635-54VT2RI B	254.7		18.6	\$727	26				0
45	Agrigold	A6351V T2RIB	222.9		18.5	\$637	52				0
46	Agrigold	A6499V T2RIB	274.5		21.5	\$752	3				0
47	Pioneer	P0574A M	254.3		19.5	\$717	28				0
48	Pioneer	P0506A M	254.1		18.6	\$726	30				0
49	Rupp	XRD05-04	260.6		17.4	\$757	17				0
50	FS	FS 54ZX1RI B	242.4		17.7	\$701	43				0
51	Supreme EX	SCS10H R43	249.7		17.6	\$723	37				0
52	Pioneer	P0339A M	227.3		18.0	\$655	50				0
53	Pioneer	P0414A M	252.2		17.2	\$734	35				0
54	Supreme EX	SCS103 7AMXT	235.6		17.2	\$686	45				0
55	Pioneer	P0306A M	248.1		16.9	\$725	38				0
56	Rupp	XR D02-93	208.0		17.9	\$600	53				0
57	Agrigold	A6499V T2RIB	259.2		19.6	\$730	20				0

## Notes and Explanations:

(1)  $YIELD = (100 - MOISTURE) \times (LBS. \text{ OF GRAIN}) \times (FACTOR) \div (HARVESTED \text{ LENGTH IN FEET}) \div (HARVESTED \text{ WIDTH IN INCHES})$ . 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.

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® TRIssect®) - 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® TRIssect® 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 TRIssect products.

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  $\zeta$  Genuity SmartStax  $\zeta$  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 $\zeta$  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 A also 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<sub>2</sub> 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.

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AGI Calc: Moisture Adjustment: (Moisture - Adjustment Standard) \* Dry Down \* Yield = Z, AGI = ((Market Price + Premium Adjustment) \* Yield) - Z