



GAIN THE HOME-FIELD ADVANTAGE



**2016 PIONEER®
BRAND PRODUCTS**
Northeast Iowa

PIONEER® BRAND CORN PRODUCTS**†

Hybrid/Brand***	Technology Segment	Hybrid Family	Market Segment	Characteristics Ratings												Disease Ratings					Suitability Ratings							
				CRM	Silk CRM	Stalk Strength	Root Strength	Stress Emergence	Staygreen	Drought Tol.	Ear Flex	Test Wt.	Plant Ht.	Ear Ht.	Mid-Season Brittle Stalk	Husk Cover	Gray Leaf Spot	No. Leaf Blight	Goss's Wilt	Anthr. Stalk Rot	Gibberella Ear Rot	Corn After Corn	Drought Prone Soils	Early Planting/Cold Soils	High Residue	High Yield Environment	Late Harvest	Poorly Drained soils
Above-/Below-Ground Insect Protection																												
P9681AMX™	AMX,LL,RR2	P9681		96	95	6	8	5	8	7		5	3	4	6	4	4	6	6		5	S	HS	S	S	HS	S	S
P9703AMX™	AMX,LL,RR2	P9703	AQ	97	90	5	8	5	6	9		4	5	4	6	6	4	4	6		4	S	S	S	S	HS	HS	S
P9929AMXT™ NEW	AMXT,LL,RR2	P9929		99	95	5	7	5	4	8		5	3	4	7		4	4	7		4	HS	S	S	S	HS	S	S
P9917AMX™	AMX,LL,RR2	P9917	HTF,HES	99	96	4	6	6	4	8	5	4	4	4	6	5	3	5	4	2	4	S	HS	HS	S	HS	MA	S
P0193AMX™	AMX,LL,RR2	P0193	HAE,HTF	101	101	7	8	5	6	8	6	3	4	4	6	7	4	4	5	4	4	S	HS	S	S	HS	HS	MA
P0157AMX™	AMX,LL,RR2	P0157	AQ	101	102	5	7	5	4	9	6	6	4	4	5	7	4	6	8	4	4	HS	HS	S	S	HS	HS	S
P0297AMXT™	AMXT,LL,RR2	P0297	AQ,YFC,HAE,HTF	102	96	5	7	6	3	9		5	3	4	7		4	6	5	3	4	S	HS	HS	S	HS	S	S
P0339AMXT™ NEW	AMXT,LL,RR2	P0339	AQ,HES,HTF	103	101	6	8	7	6	9		5	3	4	5		5	5	8	5	4	S	S	S	S	HS	S	S
P0407AMXT™	AMXT,LL,RR2	P0407	AQ,YFC,HAE,HTF	104	104	6	7	5	3	9	5	6	5	4	6		4	4	6	5		S	HS	S	S	S	S	S
P0533AM1™	AM1,LL,RR2	P0533	YFC,HTF,HES	105	97	4	5	5	3	8	5	6	3	4	7	6	4	5	5	2	4	S	HS	HS	S	HS	MA	S
P0570AMXT™ NEW	AMXT,LL,RR2	P0570		105	102	5	8	5	5	7		6	4	4	4		4	6	6	4	5	S	S	HS	S	HS	S	S
P0652AMX™	AMX,LL,RR2	P0652	HTF,HES	106	106	6	8	6	4	7		7	5	5	7	5	5	3	5		5	S	HS	HS	S	HS	S	S
P0636AMX™	AMX,LL,RR2	P0636	AQ,HAE,HES,HTF	106	108	5	7	6	5	9	6	4	7	7	6	7	5	4	4	4	4	S	HS	HS	S	HS	MA	S
P0760AMXT™ NEW	AMXT,LL,RR2	P0760	AQ,YFC,HAE,HTF	107	107	4	8	6	5	9		6	4	4	5	5	3	5	6	3		S	HS	S	S	HS	S	S
P0825AMXT™ NEW	AMXT,LL,RR2	P0825	HTF,HES	108	111	6	5	5	8	7		5	6	6	7	4	6	6	7	5		HS	S	S	S	HS	S	S
P0969AMXT™	AMXT,LL,RR2	P0969		109	106	6	8	6	6	7		4	3	4	6	5	3	6	6	5		S	S	HS	S	HS	HS	S
P0987AMX™	AMX,LL,RR2	P0987	YFC,HAE,HTF,HES	109	108	5	6	5	7	7	6	6	4	6	6	5	5	4	7	3	5	HS	S	S	S	HS	HS	S
P1162AMX™	AMX,LL,RR2	P1162		111	104	5	7	5	5	8	5	4	3	4	5	8	5	5	4	4	3	HS	HS	HS	S	HS	S	S
P1142AMX™	AMX,LL,RR2	P1142	HTF,HES	111	108	7	7	6	7	7	5	6	6	5	5	3	4	4	5	5		S	S	S	S	HS	S	S
P1197AMXT™ NEW	AMXT,LL,RR2	P1197		111	113	8	5	5	8	7	6	5	6	6	5	5	5	6	6	6	5	HS	S	S	S	HS	HS	S
P1257AMXT™	AMXT,LL,RR2	P1257		112	114	5	5	6	8	7	7	5	6	7	7	4	6	5	5	6	4	S	S	HS	S	HS	HS	S
P1365AMX™	AMX,LL,RR2	P1365	HAE,HTF	113	111	8	8	5	8	8	7	8	6	7	5	4	6	6	7			HS	HS	S	HS	HS	HS	S
Above-Ground Insect Protection																												
P9929AM™ NEW	AM,LL,RR2	P9929		99	95	5	7	5	4	8		5	3	4	7		4	4	7		4	S	S	S	S	HS	S	S
P0157AM™	AM,LL,RR2	P0157	AQ	101	102	5	7	5	4	9	6	6	4	4	5	7	4	6	8	4	4	HS	HS	S	S	HS	HS	S
P0216AM™	AM,LL,RR2	P0216	HTF	102	107	6	6	5	5	8	6	4	7	6	5	3	4	5	7	3	4	S	S	S	S	HS	S	S
P0506AM™	AM,LL,RR2	P0506	AQ	105	105	6	4	5	7	9	7	5	6	5	6	3	5		8	5	5	S	HS	S	S	HS	S	S
P0589AM™ NEW	AM,LL,RR2	P0589	AQ,HAE,HTF	105	105	5	8	6	7	9		5	4	5	6		5	5	6	4	3	S	S	S	S	HS	S	S
P0636AM™	AM,LL,RR2	P0636	AQ,HAE,HES,HTF	106	108	5	7	6	5	9	6	4	7	7	6	7	5	4	4	4	4	S	HS	HS	S	HS	MA	S
P0969AM™	AM,LL,RR2	P0969		109	106	6	8	6	6	7		4	3	4	6	5	3	6	6	5		S	S	HS	S	HS	HS	S
P1151AM™	AM,LL,RR2	P1151	AQ,HAE,HTF	111	106	5	7	4	6	9	6	6	5	4	7	6	4	5	6	5	3	S	HS	MA	S	HS	S	S
P1197AM™	AM,LL,RR2	P1197		111	113	8	5	5	8	7	6	5	6	6	5	5	5	6	6	6	5	HS	S	S	S	HS	HS	S
P1443AM™ NEW	AM,LL,RR2	P1443	AQ,YFC,HAE,HTF	114	108	6	5	5	8	9		5	6	7	6	5	4	5	5	4		S	HS	S	S	HS	HS	S
Refuge																												
P9917R	RR2	P9917	HTF,HES	99	96	4	6	6	4	8	5	4	4	4	6	5	3	5	4	2	4	S	HS	HS	S	HS	MA	S
P0157R NEW	RR2	P0157	AQ	101	102	5	7	5	4	9	6	6	4	4	5	7	4	6	8	4	4	HS	HS	S	S	HS	HS	S
P0589R† NEW	RR2	P0589	AQ	105	105	5	8	6	7	9		5	4	5	6		5	5	6	4	3	S	S	S	S	HS	S	S
P0987R	RR2	P0987	YFC,HAE,HTF,HES	109	108	5	6	5	7	7	6	6	4	6	6	5	5	4	7	3	5	HS	HS	S	S	HS	HS	HS
P1151R	RR2	P1151	AQ,HAE,HTF	111	106	5	7	4	6	9	6	6	5	4	7	6	4	5	6	5	3	S	HS	S	S	HS	S	S
Conventional																												
P0157		P0157	AQ	101	102	5	7	5	4	9	6	6	4	4	5	7	4	6	8	4	4	HS	HS	S	S	HS	HS	S
P0589† NEW		P0589	AQ	105	105	5	8	6	7	9		5	4	5	6		5	5	6	4	3	S	S	S	S	HS	S	S
P0760† NEW		P0760	AQ,YFC	107	107	4	8	6	5	9		6	4	4	5	5	3	5	6	3		S	HS	S	S	HS	S	S
P1151		P1151	AQ,HAE,HTF	111	106	5	7	4	6	9	6	6	5	4	7	6	4	5	6	5	3	S	HS	S	S	HS	S	S

PIONEER® BRAND SILAGE CORN PRODUCTS**

Hybrid/Brand***	Technology Segment	Hybrid Family	Market Segment	Silage CRM	Silage Yield	Fiber Digestibility	Whole-Plant Digestibility	Milk Per Acre	Milk Per Ton	Beef Per Acre	Beef Per Ton	Stalk Strength	Root Strength	Stress Emergence	Drought Tol.	Mid-Season Brittle Stalk
Characteristics Ratings																
P0677XR⁺ NEW	HXX,LL,RR2	P0677	BMR	106	6	9	9	7	9	7	9		3	6		6
P0506AM[™]	AM,LL,RR2	P0506	AQ	107	8	7	7	7	7	7	7	6	4	5	9	6
P0216AM[™]	AM,LL,RR2	P0216		107	8	8	8	7	8	7	8	6	6	5	8	5
P0157AM[™]	AM,LL,RR2	P0157	AQ	107	8	7	8	8	7	8	7	5	7	5	9	5
P0157AMX[™]	AMX,LL,RR2	P0157	AQ	107	8	7	8	8	7	8	7	5	7	5	9	5
P0636AM[™]	AM,LL,RR2	P0636	AQ	108	8	7	6	7	7	7	7	5	7	6	9	6
P0636AMX[™]	AMX,LL,RR2	P0636	AQ	108	8	7	6	7	7	7	7	5	7	6	9	6
P1498AM[™]	AM,LL,RR2	P1498	AQ	110	8	9	8	9	9	9	9	6	5	6	9	6
P0987AMX[™]	AMX,LL,RR2	P0987		110	8	8	9	8	8	8	8	5	6	5	7	6
P1180XR	HXX,LL,RR2	P1180	BMR	111	5	9	9	5	9	5	9		7	5		6
P1443AM[™] NEW	AM,LL,RR2	P1443	AQ	112	8	8	8	8	8	8	8	6	5	5	9	6
P1365AMX[™]	AMX,LL,RR2	P1365		113	8	8	8	8	8	8	8	8	8	5	8	5
P1221AMXT[™]	AMXT,LL,RR2	P1221		113	8	9	9	9	9	9	9	7	7	5	8	6
P1449XR	HXX,LL,RR2	P1449	BMR	114	7	9	9	7	9	7	9		5	5	6	6
P1197AM[™]	AM,LL,RR2	P1197		114	8	8	8	7	8	7	8	8	5	5	7	5
P1197AMXT[™] NEW	AMXT,LL,RR2	P1197		114	8	8	8	7	8	7	8	8	5	5	7	5
P1257AMXT[™]	AMXT,LL,RR2	P1257		115	8	7	7	8	7	8	7	5	5	6	7	7

PIONEER® BRAND SOYBEAN PRODUCTS

Variety/Brand***	Relative Maturity	Technology Segment	Harvest Standability	Field Emergence	Phytoph. Field Tol.	Phytoph. Resist. Gene	Brown Stem Rot	Iron Def. Chlorosis	White Mold	Sudden Death Syndrome	SCN Resistance Source	Charcoal Rot	Frogeye Leaf Spot	Canopy Width	Shattering	Plant Height for Maturity	% Protein at 13% Moisture	% Oil at 13% Moisture	Seed Size Range	U.S. Germplasm Patent Status	Drought-Prone Soils	Early Planting/ Cool Soils	High PH Soils	High Residue	Highly Productive Soils	Poorly Drained Soils	SCN-Prone Environments	White Mold-Prone Environments
Characteristics, Disease and Suitability Ratings																												
P16T17R2⁺ NEW	16	RR2Y	6	7**	6	1c		6	3		PI88788	3	1	7		7	33.6	19.7	2550-2950		S	S	S	S	HS	S		MA
P18T26R2⁺ NEW	18	RR2Y	7	7**	4	1k		4	3		PI88788	3	1	6	7**	6	33.2	20.3	2700-3100		S	S	S	S	HS	S		MA
P20T79R2⁺ NEW	20	RR2Y	6		4	1c		7	3		PI88788	3	1	6		6	33.5	19.5	2750-3150		S	S	HS	S	HS	S		MA
P22T41R2	22	RR2Y	8	7	4	1k	8**	6	4	5**	Peking	5	2	5	8**	4	33.3	19.2	2650-3050	A	S	S	HS	S	HS	S	HS	S
P22T69R	22	R	8	8	4	1k		5	6	7	Peking	4	9	6	8	5	33.7	20.2	2750-3150	I	S	HS	S	S	HS	S	HS	HS
P22T73R⁺ NEW	22	R	7	7	4	1c		5	4	5**	PI88788	4	5**	5	7**	6	33.6	19.9	2050-2450	I	S	S	S	S	HS	S	HS	S
P24T93R⁺ NEW	24	R	8	7	4	1k		4	5	7	PI88788	2	9**	3	8**	6	33.7	19.3	2350-2750	I	S	S	S	S	HS	S	S	S
92Y51	25	R	7	8	4	1k	7	4	6	7	PI88788	4	8	3	8	7	34.4	19.6	2500-2900	I	S	HS	S	HS	HS	S	HS	HS
P25T51R	25	R	6	7	6**	1c,3a	7	4	3	5	PI88788	3	5	6	8	5	35.0	19.3	2350-2750	I	S	S	S	S	HS	S	HS	X
92Y75	27	R	7	7	4	1k	8	4	5	6	PI88788	2	6	5	8	6	34.1	19.4	2550-2950	I	S	S	S	S	HS	S	HS	S
P27T47R⁺ NEW	27	R	8	7	4	1k	8	4	5	6	PI88788	3	5**	5	7**	4	33.8	19.7	2350-2750	I	MA	HS	S	S	HS	S	HS	S
P28T08R⁺ NEW	28	R	7	8	3	1k		4	4	6	PI88788	4		6		5	33.7	20.0	2150-2550	I	S	HS	S	S	HS	S	HS	MA
P28T33R	28	R	6	6	3	1k	8	3	4	7	PI88788	3	8	4	8**	5	34.4	18.6	2950-3350	I	S	S	X	S	HS	S	HS	MA
P31T11R	31	R	7	7	6	1k		4	4	7	PI88788	3	3**	4		5	34.4	19.0	2600-3000	I	S	S	S	S	HS	HS	S	MA
P31T77R⁺ NEW	31	R	7	7	5	1k		5	6	5	PI88788	5	5**	4		5	33.5	19.2	2750-3150	I	S	S	S	S	HS	S	S	HS
Conventional Varieties																												
92M10	21	-	7	8	6	1c	5	5	4	2		4	7	5	8	7	34.0	19.5	2600-3000	I	S	S	S	HS	HS	S	X	S
92Y21	22	-	7	8	5	1k	6	4	4	7	PI88788	5	4**	6	9	6	34.7	19.6	2500-2900	I	HS	S	HS	S	HS	HS	HS	S
P29T13S⁺ NEW	29	STS	6	8	7	1c		4	4	5**	PI88788	5		7		4	35.3	18.0	2050-2450		S	HS	S	HS	HS	HS	HS	S



* NEW
 ** All scores of integrated refuge products are based upon the major component
 *** All Pioneer products are hybrids unless designated with AM1, AM, AMRW, AMT, AMX and AMXT, in which case they are brands.
 † New Product. Not Available for sale until 2016 orders and invoicing are available. Quantities may be limited.

IMPORTANT: Trait rating scores provide key information useful in selection and management of Pioneer® brand products in your area. Information and ratings are based on comparisons with other Pioneer brand products, not competitive products. Information and scores are assigned by DuPont Pioneer Research Managers. Scores are based on period-of-years testing through 2014 harvest and were the latest available at time of printing. Some scores may change after 2015 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions, and a wide range of both climate and soil types, and may not predict future results. All products within a hybrid family receive the same score unless observations indicate a significant difference. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision. Refer to www.pioneer.com/products or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer brand product and for product placement and management suggestions specific to your operation and local conditions.

WHITE AND WAXY CORN RATINGS: Based on comparisons with other Pioneer brand products, not competitive products. Trait ratings for white and waxy products reflect comparison with non-modified yellow products of a similar maturity.

RATINGS: 9 = Outstanding, 1 = Poor, Blank = Insufficient Data.

TECHNOLOGY SEGMENT: 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. **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 refuge 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. **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. **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; moderate 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.

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 are trademarks of Bayer.

Agrisure® is a registered trademark 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.

HYBRID FAMILY: Hybrid family identifies products that have the same base genetics. Manage products within the same family similarly.

MARKET SEGMENT: Designations indicate product is also suitable for the following market: **HAE** - High Available Energy (Pork & Poultry Feed); **HTF** - High Total Fermentables (Dry-Grind Ethanol); **HES** - High Extractable Starch (Wet Milling); **WX** - Waxy; **WH** - White food corn; **YFC** - Yellow food corn; **AQ** - Optimum® AQUAmax® product.

CRM (Comparative Relative Maturity): There is not an industry standard for maturity ratings so comparing product maturity and harvest moisture ratings between companies is usually difficult. Use the CRM rating to compare Pioneer brand products with competitive products of a similar maturity and harvest moisture. CRM ratings, and harvest moisters, for products within a family may vary slightly, depending upon the level of insect (ECB and CRW) infestation. Conventional and straight products with the RR2 gene within a family will usually be 1-2 CRMs earlier than indicated, when insect infestations are moderate to heavy. One CRM difference is about ½ point of moisture difference at harvest.

STRESS EMERGENCE: All products are expected to establish normal stands under average soil conditions. Stress emergence is a measure of the genetic ability or potential to emerge in the stressful environmental conditions of cold, wet soils or short periods of severe low temperatures, relative to other Pioneer brand products. Ratings of 7-9 indicate very good potential to establish normal stands under such conditions; a rating of 5-6 indicates average potential to establish normal stands under moderate stress conditions; and ratings of 1-4 indicate the product has below average potential to establish normal stands under stress and should not be used if severe cold conditions are expected immediately after planting. Stress emergence is not a rating for seedling disease susceptibility, early growth or speed of emergence.

DROUGHT TOLERANCE: Drought tolerance is a complex trait, determined by a platform's ability to maintain yield in limited-moisture environments. A higher score indicates the potential for higher yields vs. other platforms of similar maturity in limited-moisture environments.

HIGH RESIDUE SUITABILITY: **HS** - Highly Suitable; **S** - Suitable; **MA** - Manage Appropriately; **X** - Poorly Suited; **NS** - Not Scored. Suitability rating based on field observations and a weighted

calculation of gray leaf spot, stress emergence, anthracnose stalk rot, northern corn leaf blight, and Diplodia ear rot scores. High Residue Suitability ratings may vary by environment and geography.

EAR FLEX: Score reflects the ability of a product to flex ear size as plant density is reduced, or as growing conditions improve.

TEST WEIGHT: Higher score indicates heavier test weight.

PLANT HEIGHT: 9 = Very Tall; 1 = Short.

EAR HEIGHT: 9 = High; 1 = Low.

MID-SEASON BRITTLE STALK: Ratings determined by frequency and severity of stalk snapping at lower to middle stalk internodes from conditions usually favored by rapid or optimum growth. Relative response of products can be affected by planting date, stage of growth, rate of growth, wind severity and other variables. Scores derived from both natural observations and artificial evaluation immediately prior to tasseling. NOTE: Scores do not reflect snapping enhanced by or due to herbicide interaction. The use of growth regulator herbicides such as 2,4-D and dicamba can increase the brittle snap potential of corn products. Products with lower brittle stalk ratings will require more caution and have a higher risk associated with the use of growth regulator herbicides. Early application, proper rates and application methods, along with both product and herbicide selection can help reduce this risk. **BRITTLE STALK PRECAUTION:** In areas with higher potential for brittle stalk breakage, growers must balance the risk of planting products with brittle stalk ratings of less than 4 against the overall performance of more resistant products with higher ratings. All products have a period of susceptibility to brittle stalk. Products with below average ratings may have a longer period of susceptibility, or may experience more severe breakage relative to products with higher scores during period of susceptibility.

DISEASE PRECAUTION: Grower should balance product yield potential, product maturity and cultural practice selection against their anticipated risk of a specific disease and need for resistance. In high disease-risk conditions, consider planting products with at least moderate resistance ratings of 4 or higher to help reduce risk. When susceptible products with disease ratings of 1 to 3 are planted in conditions of high disease pressure, the grower assumes a higher level of risk. If conditions are severe, even products rated as resistant can be adversely affected. Independent of yield reduction, diseases can predispose plants to secondary diseases such as stalk rots. This requires individual field and product monitoring for stalk stability and timely harvest when warranted.

DISEASE & PEST RATINGS: 8-9 = Highly Resistant; 6-7 = Resistant; 4-5 = Moderately Resistant; 1-3 = Susceptible; Blank = Insufficient Data.

GRAY LEAF SPOT PRECAUTION: Avoid planting products with a lower gray leaf spot (GLS) rating in continuous corn fields that have a history of GLS infection, unless tillage operations that bury significant amounts of corn residue and in-corn are practiced.

NORTHERN LEAF BLIGHT CAUTION: In conditions where northern leaf blight (NLB) risk is high, growers should consider planting only products with at least moderate NLB resistance ratings of 4 or higher.

GIBBERELLA EAR ROT CAUTION: Ratings based upon visual symptoms at harvest. If Gibberella ear rot has caused significant damage in the past, growers should consider planting only products with at least moderate Gibberella ear rot ratings of 5 or higher.

SUITABILITY RATINGS: **HS** - Highly Suitable; **S** - Suitable; **MA** - Manage Appropriately; **X** - Poorly Suited. Suitability rating based on historical field observations and analysis of traits by DuPont Pioneer agronomists and research scientists may not predict future results. Product responses are variable and subject to any number of environmental, disease and pest pressures. Please use this information as part of your product positioning decision. Trait scores are based upon period-of-years testing against other Pioneer® brand products. Scores are assigned from research data across a wide range of climates and growing conditions and were the latest available at the time of printing. Refer to www.pioneer.com or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer brand product.

Corn Silage Footnotes

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 products can be difficult. DuPont Pioneer silage CRM ratings provide a relative comparison among Pioneer brand products of rates at which products reach harvestable whole-plant moistures. It is on the same scale as the CRM rating provided for grain corn products and does not represent actual days from planting or emergence to harvest moisture or half milking.

SILAGE YIELD: Based on whole-plant yield per acre (adjusted to 35% dry matter) from multi-year comparison with other products within a maturity range not exceeding 5 silage CRM units.

FIBER DIGESTIBILITY: Based on 24-hour enzymatic estimate of percent degradable neutral detergent fiber (NDF) as a percent of total NDF in whole-plant sample, predicted by NIR.

WHOLE-PLANT DIGESTIBILITY: Based on estimated 24-hour in vitro whole-plant digestibility percentage (dry matter basis), as predicted by Near Infrared Reflectance Spectroscopy (NIRS).

MILK PER ACRE: 9 = Outstanding; 1 = Poor, based on University of Wisconsin MILK2006 utilizing silage yield, nutrient content and digestibility.

MILK PER TON: 9 = Outstanding; 1 = Poor, based on University of Wisconsin MILK2006 utilizing silage nutrient content and digestibility.

BEEF PER ACRE: 9 = Outstanding; 1 = Poor, based on University of Wisconsin MILK2006 utilizing silage yield, nutrient content and digestibility.

BEEF PER TON: 9 = Outstanding; 1 = Poor, based on University of Wisconsin MILK2006 utilizing silage nutrient content and digestibility.



Soybean Footnotes

* NEW
 ** Ratings denoted with a double asterisk (**) reflect preliminary data subject to change when additional data becomes available.

*** All Pioneer products are varieties unless designated with LL, in which case some are brands.

IMPORTANT: Product responses are variable and subject to any number of environmental, disease and pest pressures. Please use this information as only part of your product positioning decision. Individual results may vary.

Trait ratings provide key information useful in selection and management of Pioneer® brand products in your area. Scores are based on testing through 2014 harvest and were the latest available at time of printing. Some scores may change after 2015 harvest. Information and ratings are based on average performance across area of adaptation under normal conditions, over a wide range of both climate and soil types, and may not predict future results. Refer to www.pioneer.com or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer brand product and for product placement and management suggestions specific to your operation and local conditions.

NUMERIC RATINGS: 9 = Excellent; 1 = Poor; Blank = Insufficient Data or variety not tested for that particular trait.

RELATIVE MATURITY: Shows the relative maturity group rating, with the first digit representing the general maturity group, and the second digit showing relative maturity within the group on a

scale of 0 to 9, with 0 early and 9 late. For example, a soybean product with a relative maturity rating of 17 would be a mid-late product in Group 1 maturity.

TECHNOLOGY SEGMENT:

Always follow grain marketing, stewardship practices and pesticide label directions. Varieties with the glyphosate tolerant trait (including those designated by the letter "R" in the product number) contain genes that confer tolerance to glyphosate herbicides. Glyphosate herbicides will kill crops that are not tolerant to glyphosate.

Always follow grain marketing, stewardship practices and pesticide label directions. Varieties with the Genuity® Roundup Ready 2 Yield® (RR2Y) trait contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Genuity®, Roundup® and Roundup Ready 2 Yield® are registered trademarks of Monsanto Technology LLC used under license. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

Pioneer is a member of Excellence Through Stewardship® (ETS). Pioneer products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Pioneer policies regarding stewardship of those products. Crops and materials containing biotech traits may only be exported to or used, processed, or sold in jurisdictions where all necessary regulatory approvals have been granted for those crops and materials. It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted. Growers should discuss these issues with their purchaser or grain handler to confirm the purchaser or handler's position on products being purchased. Excellence Through Stewardship® is a registered trademark of the Biotechnology Industry Organization.

Varieties with the DuPont™ STS® gene (STS) are tolerant to certain SU (sulfonyleurea) herbicides. This technology allows post-emergent applications of DuPont™ Synchrony® XP and DuPont™ Classic® herbicides without crop injury or stress (see herbicide product labels). NOTE: A soybean variety with a herbicide tolerant trait does not confer tolerance to all herbicides. Spraying herbicides not labeled for a specific soybean variety will result in severe plant injury or plant death. Always read and follow herbicide label directions and precautions for use.

Varieties with the LibertyLink® gene (LL) are resistant to Liberty® herbicide.

Liberty®, LibertyLink® and the Water Droplet Design are trademarks of Bayer.

(-) = Variety does not contain a herbicide resistant gene.

FIELD EMERGENCE: Rating based on speed and strength of emergence in sub-optimal temperatures. 1-3 = Below Average; 4-6 = Average; 7-9 = Excellent.

HYPOCOTYL LENGTH: Ratings based on relative length of hypocotyls, which is the portion of the seedling between the cotyledons and the root. **S** = Short; **M** = Medium; **L** = Long.

PHYTOPHTHORA FIELD TOLERANCE: Products with high tolerance scores have demonstrated an ability to thrive in the presence of Phytophthora races to which they lack specific resistance. In some products, tolerance is expressed only after the early seedling growth stage, making such products susceptible to damping off during emergence and early seed growth.

PHYTOPHTHORA RESISTANCE GENE:

(-) = No specific gene for resistance.

Rps1^{AA} = Contains Rps1c or Rps1k Phytophthora resistance.

Rps 1c = Provides resistance to races 1-3, 6-11, 13, 15, 17, 21, 23, 24, 26, 28-30, 32, 34, 36.

Rps 1k = Provides resistance to races 1-11, 13-15, 17, 18, 21-24, 26, 36, 37.

Rps 6 = Provides resistance to races 1-4, 10, 12, 14-16, 18-21, 25, 28, 33-35.

Rps 3a = Resistant to races 1-5, 8-9, 11, 13-14, 16, 18, 23, 25, 28-29, 31-35, 39-41, 43-45, 47-52, 54.

Rps 3c = Resistant to races 1-4, 10-16, 18-36, 38-54.

WHITE MOLD: Scores based on DuPont Pioneer research observations of comparative white mold tolerance among various soybean products across multiple locations and years. All products are capable of developing white mold symptoms under severe infestations. To our knowledge, there are no totally resistant products in the industry. However, differences exist in the ability of products to tolerate white mold (i.e., the rate at which the infection develops and the extent of damage it causes). These scores reflect those differences.

SCN RESISTANCE SOURCE: There are three sources of genetic resistance to SCN currently deployed in the marketplace: PI88788; PI548402 (also known as Peking); PI437654 (also known as Hartwig); R = Resistant to SCN but the source of that resistance is not yet identified.

CHARCOAL ROT: A fungal disease that is enhanced by hot and dry conditions, especially during reproductive growth stages. Scores based on DuPont Pioneer research observations of the comparative ability to tolerate infection from the charcoal rot pathogen among various soybean products.

CANOPY WIDTH: 9 = Extremely bushy; 1 = Very narrow.

SHATTERING: 9 = Excellent tolerance to shattering; 1 = Poor tolerance to shattering.

PLANT HEIGHT FOR MATURITY: 9 = Tall; 1 = Short.

% PROTEIN AT 13% MOISTURE: Compare data within table only. Values can vary widely by growing season and region.

% OIL AT 13% MOISTURE: Compare data within table only. Values can vary widely by growing season and region.

SEED SIZE RANGE: Expressed in seeds per pound under normal growing conditions. Range is calculated over multiple years and locations. Since seed size may vary by growing season and region, check the "seeds/pound" information printed on the bag.

U.S. GERMLASM PATENT STATUS (as of 12/1/14): **I** = Patent issued; **A** = Patent applied for. Pioneer brand soybean products protected by patents or containing a patented gene or trait are licensed to a purchaser solely for the purpose of producing a single commercial crop.

SUITABILITY RATINGS: **HS** - Highly Suitable; **S** - Suitable; **MA** - Manage Appropriately; **X** - Poorly Suited. Suitability rating based on historical field observations and analysis of traits by DuPont Pioneer agronomists and research scientists may not predict future results. Product responses are variable and subject to any number of environmental, disease and pest pressures. Please use this information as part of your product positioning decision. Trait scores are based upon period-of-years testing against other Pioneer® brand products. Scores are assigned from research data across a wide range of climates and growing conditions and were the latest available at the time of printing. Refer to www.pioneer.com or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer brand product.

Note: U.S. patents, Plant Variety Protection Act (PVP) applications and certificates, or other limitations on use may be used to protect Pioneer brand soybean products from unauthorized growing, selling or use of the seed. These protections help assure that growers will continue to have access to new and improved products through the research efforts of plant scientists in the years ahead.

PIONEER® brand products are provided subject to the terms and conditions of purchase which are part of the labeling and purchase documents. ®, TM, SM Trademarks and service marks of DuPont, Pioneer or their respective owners. © 2015 PHIL.



@DuPont Pioneer
@PioneerAgron_IA