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Corn Grain Seed Guide

Davenport, Nebraska (68335)

Choose Products	Product Name	CRM	Technology Segment	Hybrid Family	Market Segment	Drought Tol.	Root Strength	Stalk Strength	Mid-Season Brittle Stalk	Stress Emergence	High Residue Suitability	Plant Ht.	Ear Ht.	Staygreen	Grain Drydown	Test Wt.	Gray Leaf Spot	Goss`S Wilt	Head Smut	Anthrac. Stalk Rot	Diplodia Ear Rot	Fus. Ear Rot	Gibberella Ear Rot
✓	P1306WAM	113	AM, LL, RR2	P1306W	WH, HTF	6	8	8	6	5	S	7	4	7	5	6	6	6	5	4	6	7	-

1 products in this guide

See subsequent pages for complete definitions and disclaimers related to the product descriptions and ratings. All scores of integrated refuge products are based upon the major component. 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 Dow AgroSciences, DuPont or Pioneer, and their affiliated companies or their respective owners. 2020 Corteva.

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 Pioneer Research Managers. Scores are based on period-of-years testing through 2018 harvest and were the latest available at time of printing. Some scores may change after 2019 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/corn 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.

* **Introductory product. Quantities may be limited.**

** All scores of integrated refuge products are based upon the major component.

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

? New Product.

Product performance in water-limited environments is variable and depends on many factors such as the severity and timing of moisture deficiency, heat stress, soil type, management practices and environmental stress as well as disease and pest pressures. All products may exhibit reduced yield under water and heat stress. Individual results may vary.

RATINGS

9 = Outstanding; **1** = Poor; **Blank** = Insufficient Data.

TECHNOLOGY SEGMENT:

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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.

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; **BMR** ? Brown MidRib Corn

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 moistures, 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 ¼ point of moisture difference at harvest.

PHYSIOLOGICAL CRM:

Measures differences in maturity to zero milkline stage. To help decide if a new hybrid fits your area's growing season, compare its physiological CRM to a hybrid that you plant or one that is successfully used in your area.

GDU TO PHYSIOLOGICAL MATURITY:

Measures differences in growing degree units (GDUs) required to zero milkline stage. To help decide if a new hybrid fits your area's growing season, compare its GDUs to physiological maturity to a hybrid that you plant or one that is successfully used in your area.

GRAIN DRYDOWN:

Compares products of similar maturity for rate of moisture loss during grain drydown. A higher score indicates faster drydown. A lower score indicates slower drydown, or a wider opportunity for silage and high-moisture corn 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 hybrid 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 snaplage 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 snaplage 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 inoculum are practiced.

FOLIAR FUNGICIDE RESPONSE - GLS:

Probability of positive yield response to foliar fungicide applications when significant levels of Gray Leaf Spot (GLS) leaf disease is present. **HP** - High Probability; **MP** ? Moderate Probability; **LP** ? Low Probability. Probabilities based upon product disease scores. Because of the unlimited number of growing environments, cropping practices, and foliar fungicide active ingredients combinations possible, Pioneer makes no warranty regarding this foliar fungicide crop response information.

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.

FOLIAR FUNGICIDE RESPONSE - NLB:

Probability of positive yield response to foliar fungicide applications when significant levels of Northern Leaf Blight (NLB) leaf disease is present. **HP** - High Probability; **MP** ? Moderate Probability; **LP** ? Low Probability. Probabilities based upon product disease scores. Because of the unlimited number of growing environments, cropping practices, and foliar fungicide active ingredients combinations possible, Pioneer makes no warranty regarding this foliar fungicide crop response information.

FUSARIUM EAR ROT CAUTION:

Ratings based upon visual symptoms at harvest. If Fusarium ear rot has caused significant damage in the past, growers should consider planting only products with at least moderate Fusarium ear rot ratings of 5 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.

DIPLODIA EAR ROT CAUTION:

Ratings based upon visual symptoms at harvest. If Diplodia ear rot has caused significant damage in the past, growers should consider planting only products with a Diplodia ear rot rating of 4 or higher.