



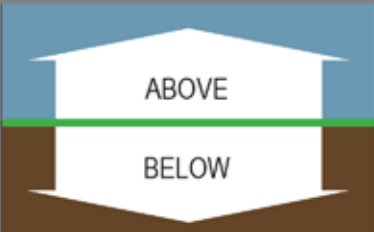
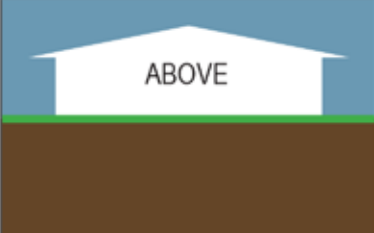
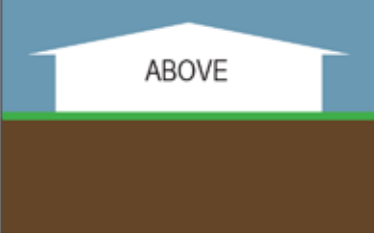
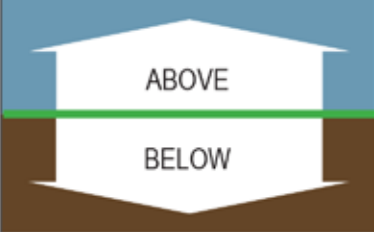
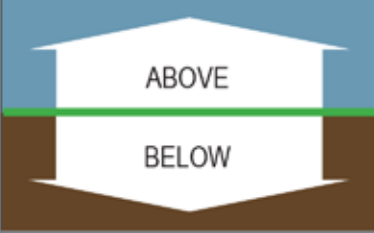
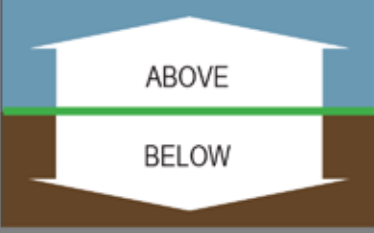
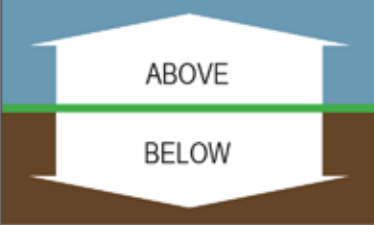
# NuTech

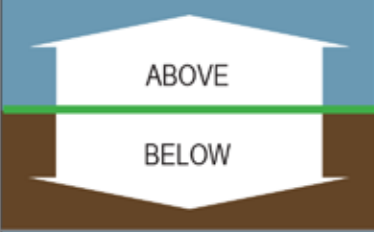
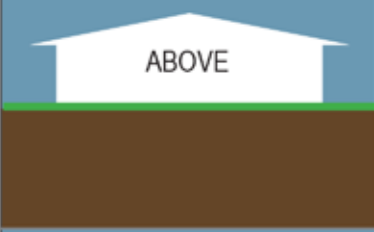

## Seed<sup>®</sup>

# What's in the Bag?

Integrated corn refuge products will be treated  for the major component and  for the minor component.



PRODUCT NAME	INSECT PROTECTION	INTEGRATED COMPONENTS	REFUGE REQUIREMENTS
<b>Optimum<sup>®</sup> AcreMax<sup>®</sup> 1</b> ABOVE/BELOW		<b>INTEGRATED</b> ● 90% (HXX,LL,RR2) ● 10% (HX1,LL,RR2)	Integrated rootworm refuge requires additional 20% corn borer structured refuge. Additional 50% corn borer refuge is required in EPA-designated cotton counties.
<b>Optimum<sup>®</sup> AcreMax<sup>®</sup></b> ABOVE		<b>INTEGRATED</b> ● 95% (YGCB,HX1,LL,RR2) ● 5% (LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.
<b>Optimum<sup>®</sup> AcreMax<sup>®</sup> Leptra</b> ABOVE		<b>INTEGRATED</b> ● 95% (AVBL, YGCB,HX1,LL,RR2) ● 5% (LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.
<b>Optimum<sup>®</sup> AcreMax<sup>®</sup> TRIsect</b>		<b>INTEGRATED</b> ● 90% (RW,YGCB,HX1,LL,RR2) ● 10% (LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.
<b>Optimum<sup>®</sup> AcreMax<sup>®</sup> Xtra</b> ABOVE/BELOW		<b>INTEGRATED</b> ● 90% (YGCB,HXX,LL,RR2) ● 10% (LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.
<b>Optimum<sup>®</sup> AcreMax<sup>®</sup> XTreme</b> ABOVE/BELOW		<b>INTEGRATED</b> ● 95% (RW,YGCB,HXX,LL,RR2) ● 5% (LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.
<b>QROME<sup>™</sup></b>		<b>INTEGRATED</b> ● 95% (RW,YGCB,HXX,LL,RR2) ● 5% (LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.

<b>Optimum<sup>®</sup> TRIsect<sup>®</sup></b> ABOVE/BELOW		<b>STRUCTURED</b> ● 100% (RW,HX1,LL,RR2)	Structured refuge, 20% Corn Belt, 50% corn borer in EPA-designated cotton counties.
<b>Optimum<sup>®</sup> Intrasect<sup>®</sup></b> ABOVE		<b>STRUCTURED</b> ● 100% (YGCB,HX1,LL,RR2)	Structured refuge, 5% Corn Belt, 20% in EPA-designated cotton counties.
<b>Optimum<sup>®</sup> Leptra<sup>®</sup></b>		<b>STRUCTURED</b> ● 100% (AVBL,YGCB,HX1,LL,RR2)	Structured refuge, 5% Corn Belt, 20% in EPA-designated cotton counties.



To protect the usefulness and availability of these technologies for the future, growers must implement an Insect Resistance Management (IRM) program as specified in product use guides. For detailed IRM requirements for products with in-plant insect resistance, refer to the appropriate product use guide, available from your sales professional.



Planting Risks. Preserving Technology.



AM1 - Optimum® AcreMax® 1 Insect Protection System with an integrated corn rootworm refuge solution includes 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. AM - Optimum® AcreMax® Leptra Insect Protection System with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton growing countries, a 20% separate corn borer refuge must be planted with Optimum AcreMax Leptra products. AMT - Optimum® AcreMax® Trisect Insect Protection System with RW, YGCB, HX1, LL, RR2. 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® I gene. In EPA-designated cotton growing countries, a 20% separate corn borer refuge must be planted with Optimum AcreMax Xtra products. AMX - Optimum® AcreMax® Xtra Insect Protection System with YGCB, HX1, LL, RR2. 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 countries, a 20% separate corn borer refuge must be planted with Optimum AcreMax Xtra products. Q (Qrome™) - The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® XTRA genes. Contains a single-bag integrated refuge solution for above- and below-ground insects. In EPA-designated cotton growing countries, a 20% separate corn borer refuge must be planted with Qrome products. Qrome products are approved for cultivation in the U.S. and Canada and have also received report approval in a number of importing countries. DuPont Pioneer continues to pursue additional import approvals for Qrome products, including in China, in accordance with Excellence Through Stewardship Product Launch Guidance. RW, HX1, LL, RR2 (Optimum® Trisect®) - Contains the Herculex I gene for above-ground pests and the Agrisure® RW trait for resistance to corn rootworm. YGCB, HX1, LL, RR2 (Optimum® Intrasect®) - Contains the YieldGard® Corn Borer gene and Herculex® I gene for resistance to corn borer. AVBL, YGCB, HX1, LL, RR2 (Optimum® Leptra®) - Contains the Agrisure Viper® trait, the YieldGard® Corn Borer gene, the Herculex® I gene, the LibertyLink® gene, and the Roundup Ready® Corn 2 trait. HX1 - Contains the Herculex® I insect protection gene which provides protection against European corn borer, black cutworm, fall armyworm, western bean cutworm, lesser corn rootworm, northern corn rootworm, and sugarcane borer, and suppresses corn earworm. HXRW - The Herculex® RW insect protection trait contains proteins that provide enhanced resistance against western corn rootworm, southern 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, 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. YieldGard®, the YieldGard® Corn Borer Design and Roundup Ready® are registered trademarks used under license from Monsanto Company. Herculex® Insect Protection technology by Dow AgroSciences and Pioneer Hi-Bred® are registered trademarks of Dow AgroSciences LLC. Liberty®, LibertyLink® and the Water Droplet Design are trademarks of Bayer. Agrisure Viper® 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. Products are provided subject to the terms and conditions of purchase which are part of the labeling and purchase documents. © 2017 PHIL

# The Alphabet Soup of Corn Insect Protection Products

- AM – Optimum® AcreMax® product
- AM1 – Optimum® AcreMax® 1 product
- AML – Optimum® AcreMax® Leptra product
- AMT – Optimum® AcreMax® Trisect product
- AMX – Optimum® AcreMax® Xtra product
- AMXT – Optimum® AcreMax® XTreme product
- CHR – Optimum® TRIssect® product
- HX1 – Herculex® I insect trait
- HXRW – Herculex® RW insect trait
- HXX – Herculex® XTRA insect trait
- LL – LibertyLink® (glufosinate) herbicide resistance
- Q - Qrome™ product
- RR2 – Roundup Ready® Corn 2 (glyphosate) herbicide resistance
- RW – Agrisure® RW trait
- YGCB – YieldGard® Corn Borer insect trait
- YHR – Optimum® Intrasect® product
- VYHR – Optimum® Leptra® product

# Get to Know Your Corn Products

