



# The most effective above-ground insect control in the industry

Viptera™ trait stacks protect yield potential while helping deliver cleaner ears for increased grain quality.

Controlling ear-, stalk- and leaf-feeding insects offers every seed the chance to mature and reach its full genetic yield potential.



**No other trait in the industry provides more complete control of above-ground insect pests**

Viptera's industry-leading control provides:

- Potential for improved stand and higher-yielding crop
- Noticeably healthier ears with less insect damage
- Reduced risk of mold and mycotoxin development provides high-quality grain and livestock feed

Viptera delivers more control of more insect pests:

Insect	Viptera trait stacks*	Agrisure® Above	Optimum® AcreMax®	VT Double PRO® RIB Complete®	PowerCore®
Corn earworm	++++	++	++	+++	+++
Black cutworm	++++	+++	+++	+	+++
Fall armyworm	++++	+	+	+++	+++
Western bean cutworm	++++	+	+	+	+
Dingy cutworm	++++				
Common stalk borer	+++	+	+	+	+
Lesser cornstalk borer	++++	+++	+++	+++	++++
Southern cornstalk borer	++++	+++	+++	+++	++++
True armyworm	++++				
Beet armyworm	++++	+++	+++	+++	+++
Sugarcane borer	++++	++++	+++	+++	+++
European corn borer	++++	++++	++++	++++	++++
Southwestern corn borer	++++	++++	++++	++++	++++

**Insect control scale:**

blank = unavailable; + = some; ++ = good; +++ = very good; ++++ = excellent

\*Viptera™, Viptera™Z3, Agrisure® Viptera 3110, to add corn rootworm control consider DuracadeViptera, DuracadeVipteraZ3, Agrisure® Viptera 3111

All competitor information is based solely upon interpretation of publicly available information including public presentations, regulatory submissions and observations made in commercial fields.

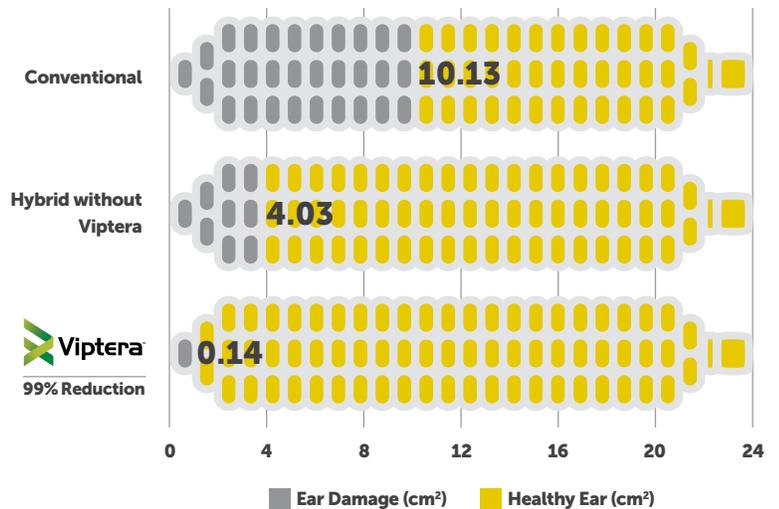
**Viptera trait stacks provide better, more complete control of ear feeding insects**

- Viptera is the only trait technology available today that effectively controls western bean cutworm
- Corn earworm can have multiple generations each season and is one of the most destructive pests in the United States
- Viptera control of corn earworm provides a 7.3 bu/A advantage\*
- Preventing insect damage to kernels reduces access points for mold and mycotoxin growth that can cause additional damage or grain quality problems

\*71 Regulated Syngenta trials 2008-2010

**Insect Ear Damage**

LSD (0.05) = 4.47



Study results from Syngenta field trials in 33 locations with natural pest pressure 2007-09



**Western bean cutworm-damaged hybrid without Viptera (left) vs. hybrid with Viptera (right)**

Atkinson, NE, 2017



**Corn earworm-damaged hybrid without Viptera (left) vs. hybrid with Viptera (right)**

Columbia, MO, 2015

**Trait stacks with above-ground insect control:**



Trait stacks are available in a simple E-Z Refuge® seed blend, offering a convenient in-bag refuge, and many in combination with water-optimizing Artesian™ corn hybrids, to provide growers a practical option to meet water challenges.

**Talk to your seed reseller about the right above-ground traits for your fields.**

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