

# Heligen

## Novel Mode of Action Insecticide for Corn Earworm (CEW)



EFFECTIVE AND ECONOMICAL  
CEW MANAGEMENT

### NEW IPM TOOL FOR SWEET CORN



20 years of  
Lepidopteran  
pest management



World's largest  
Baculovirus research  
center and  
manufacturing facility



Strong commitment  
to provide field  
technical assistance



Wide network of  
research partners

**AgBiTech**

Science for Sustainable Agriculture

## NOVEL AND HIGHLY SELECTIVE MODE OF ACTION No residue Insecticide for the Control of CEW



**TARGET PESTS:** *Helicoverpa zea* - AKA Corn earworm (CEW), Soybean podworm (SPW) and Cotton bollworm (CBW).

**ACTIVE INGREDIENT (A.I.):** *Helicoverpa armigera* Nucleopolyhedrovirus (HearNPV).

**FORMULATION:** Suspension concentrate (SC) **RATE:** 1.2 to 2.4 fl oz/acre

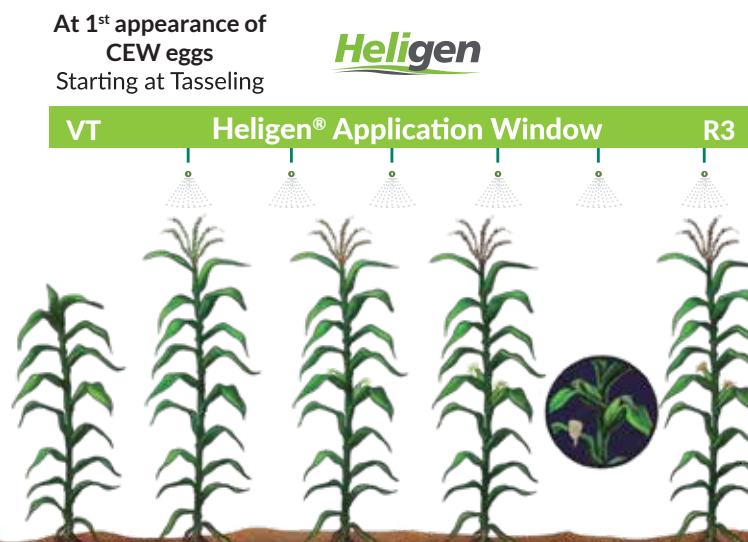
**NOVEL MODE OF ACTION:** **GROUP 31 INSECTICIDE** Heligen® controls CEW larvae resistant to chemical insecticides. A unique set of baculovirus proteins (PIF complex) promotes generalized cell infection and ultimately, death.

### HOW TO USE HELIGEN®:

- ▶ Thorough crop coverage is essential, as the A.I. in Heligen® must be ingested by larvae to be effective.
- ▶ Heligen® is most effective when applied in sequential sprays at short spray intervals. Start monitoring at tasseling and trigger 1<sup>st</sup> application as soon as CEW eggs are found. Subsequent sprays should be at 2-4 day intervals.

Instar	Age (Days)	Size Category	Length (inches)	Actual Size	Heligen® timing
1st	0-2	Very Small	1/8"		✓✓
2nd	2-4	Small	1/4"		✓✓
3rd	4-8	Medium (small)	1/2"		✓
4th	8-11	Medium (large)	3/4"		✗
5th	11-14	Large	1"		✗
6th	14-18+	Large (snake)	1 3/4"		✗

\* Do not use Heligen® as a curative treatment. In this situation, alternative control methods should be considered.



Heligen® Application Threshold:

At 1<sup>st</sup> appearance of CEW eggs

### WHAT TO EXPECT AFTER APPLICATION:

**Up to 3 days after application:** Infected larvae continue to feed but become lethargic and move upward on the plant – thus, more exposed to heat and more vulnerable to predators.

**4-6 days after application:** Feeding gradually stops. Larval skin bursts open, releasing billions of viral particles. These particles are effectively dispersed by wind, rain and many arthropods, including predators that feed on the infected cadavers.

**COMPATIBILITY:** Heligen® is compatible as a tank mix partner with insecticides, fungicides, herbicides and fertilizers. Ensure tank mixture solution pH is ≤ 8 prior to adding Heligen® to the tank.

**CAUTION:** Spray solution pH above 8 may damage the virus and reduce performance of Heligen®. If needed, use a suitable buffer (acidifier).

For more information:

[www.agbitech.us](http://www.agbitech.us)