

Colorado potato beetle control Effective, precise, and environmentally-friendly



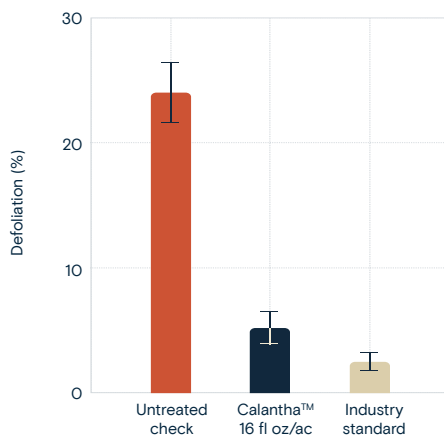
Powerful new Mode of Action

Calantha™ is a new foliar bio-insecticide that provides effective control of the Colorado potato beetle (CPB) in potatoes, meeting industry standards for tuber yield and defoliation protection.

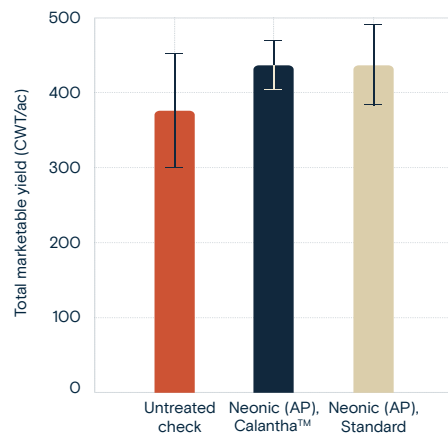
Calantha™ is powered by ledprona, a new class of insecticide offering a novel Mode of Action (IRAC 35), thus providing a new tool for resistance-management while leaving no detectable residues in potato tubers.

*Multi-year summary from high-pressure trials (>15% defoliation on untreated checks).
2020-2021: 2 defoliation protection trials
2020-2021: 2 yield protection trials

Calantha™ provides *defoliation protection* comparable to industry standards in multi-year field trials in the PNW*



Calantha™ provides *yield protection* comparable to industry standards in multi-year field trials in the PNW*



Easy to use while supporting on-farm sustainability goals

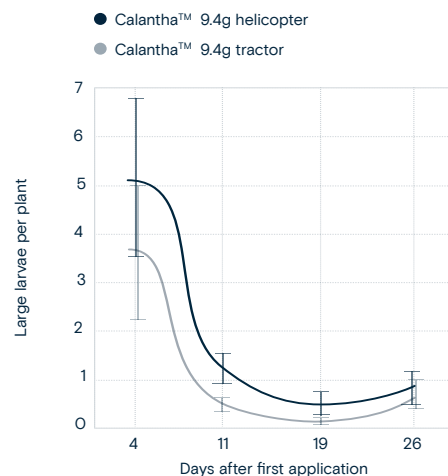
Application flexibility and ease of use:

- ◆ Aqueous-based liquid formulation (SL) is easy to pour and mix
- ◆ Can be applied at any time of the day
- ◆ Effective on beetles that are resistant to other pesticides including carbamates, organophosphates, pyrethroids, and neonicotinoids
- ◆ Works well with different application methods and volumes
- ◆ No phytotoxic effect on potato plants
- ◆ Minimal handling restrictions for applicator
- ◆ Short re-entry interval (REI) of 4 hours
- ◆ No pre-harvest interval (PHI)

Environmental and sustainability benefits:

- ◆ Degrades quickly in the environment and is undetectable in soil and water within few days
- ◆ No adverse impact on beneficials or pollinators tested
- ◆ Targeted technology avoids flaring secondary pests by supporting beneficial insects
- ◆ No residues detected in potato tubers
- ◆ Low use rate per acre

Works well using both ground and aerial application methods;
<1% defoliation 19 DAT



**Less than 1% defoliation was observed 19 DAT.

New technology delivers improved resistance management

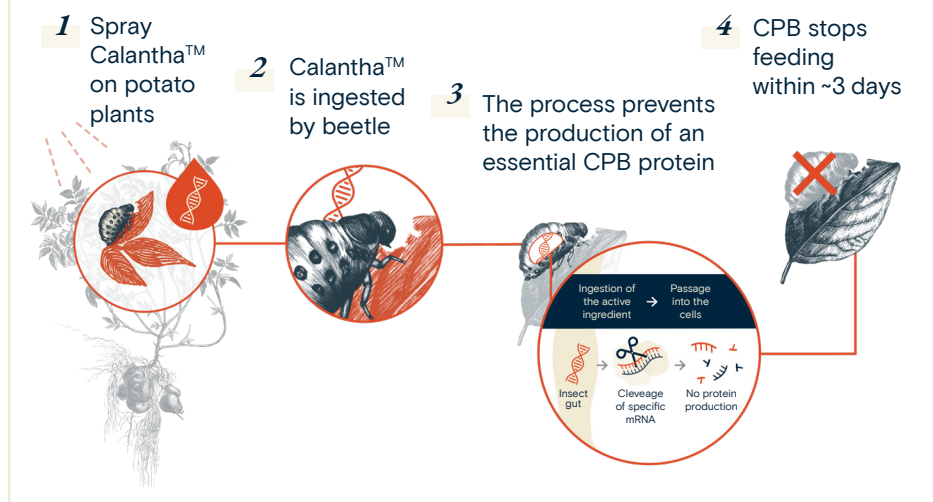
Ledprona, the active ingredient in Calantha™, works by triggering a natural process in CPB after ingestion.

The active ingredient prevents the production of an essential protein, leading to the death of the pest. CPB will completely stop feeding within 2-3 days after application.

Supports insecticide resistance management (IRM): Calantha™ is a new mode of action that should be rotated with other insecticides

Targeted by design: Supports integrated pest management (IPM) practices

How it works



For best performance spray Calantha™ between 10-50% egg hatch

Works best against small larvae



egg

1st instar

2nd instar

3rd instar

4th instar

pupa adult

Defoliation and yield protection is best when applied at 10-50% egg hatch targeting small larvae.

10% egg hatch

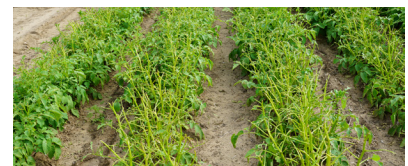


50% egg hatch



Late application can result in higher defoliation under heavy pressure

~3 weeks after hatch



1. Scout. Survey your field for the presence of adults, eggs and small larvae.

Tip: Pay special attention to border rows adjacent to unmanaged crop areas.

2. Assess. Note number of adult, larvae, and egg masses to determine treatment. Monitor the egg-hatch percentage.

Tip: Egg masses usually become darker when they are ready to hatch.

3. Apply. When needed, apply at least 2 successive applications aiming for 10-50% egg hatch.

Tip: Calantha™ works best against small larvae.

4. Monitor. To avoid resistance, rotate Calantha™ with other modes of action.

Tip: Follow label guideline on number of applications.

THIS DOCUMENT IS FOR INFORMATIONAL PURPOSES ONLY. THE INFORMATION PROVIDED HEREIN IS BASED ON FIELD DATA TO DATE AND ACTUAL RESULTS MAY DIFFER. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.



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