

## Recommendation Sheet

Potato — Colorado Potato Beetle (CPB) Control



## Count on DuPont to help optimize yield and quality through reliable and consistent control

**DuPont™ Coragen® insect control** is a breakthrough mode of action insecticide that delivers remarkable protection. Optimize yield and quality by achieving reliable and consistent control of key insect pests in potatoes.

### Key Benefits of Coragen®:

- New insecticide family with a breakthrough mode of action and an excellent environmental profile
- Exceptional control of major worm pests
- Excellent control of Colorado potato beetle, including beetles with known resistance to other insecticides\*
- Has ingestion and contact activity, also has translaminar activity (moves into and across leaf tissue)
- Long-lasting protection — 14 to 21 days and longer\*\*
- Excellent crop protection — insects stop feeding in minutes
- Application flexibility — foliar spray by ground, air, overhead chemigation
- Minimal impact on beneficials† — excellent fit with IPM programs, low to no impact on honey bees,† does not flare secondary pests or mites
- Rainfast when spray is dry
- Excellent Worker Safety, minimal PPE required for ease of handling and no label signal word

\* Follow suggested best management practices

\*\* Depending on application method, untreated plant material may not be fully protected as a result of plant growth.

† When used in accordance with label directions

### DuPont™ Coragen® Best Management Practices for Colorado potato beetle (CPB) control

#### 1. Do not wait until larvae are larger because they will be harder to kill.

Ideal timing is to make applications to eggs and early instar larvae. Recognize that the population dynamics are such that this is not always possible. Avoid “rescue” treatments against very high populations.

#### 2. Use highest labeled rate (Coragen® at 5 fluid ounces per acre), especially if population is known or suspected to be broadly resistant to most classes of insecticides.

#### 3. Be vigilant

- Exercise caution with CPB populations known to have resistance to multiple insecticides
- When rainfall occurs prior to product drying on the leaf
- When environmental conditions are conducive to rapid plant growth

#### 4. Ensure full coverage is obtained at application.

Use an adjuvant (particularly a modified seed oil or methylated seed oil blend). Avoid sticker-type adjuvants. For low gallonage applications consider adjusting the adjuvant rate to be on a per-acre basis rather than a volume basis. Consult the adjuvant manufacturer representative for guidance. The use of an adjuvant should help with translaminar leaf penetration, rainfastness and coverage (spreading).

#### 5. Be prepared to make 2 back-to-back applications

within one generation, if control from initial application is not sufficient. Consider a short respray interval, likely about 7 days (minimum respray interval of 5 days).



Colorado potato beetle

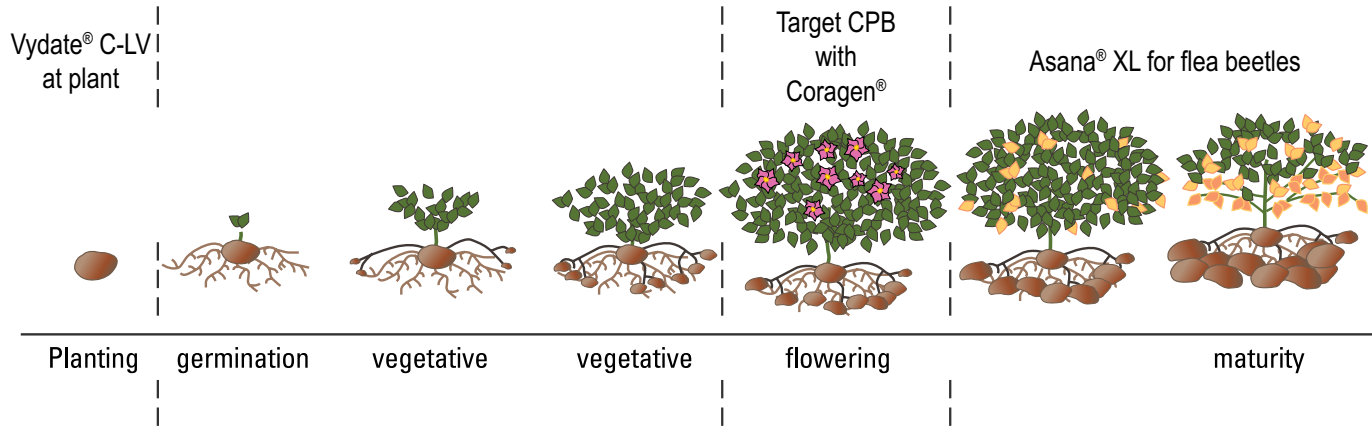


European corn borer



Cabbage looper

## Recommended Spray Programs



Program	Treatment	Comments
<b>Standard</b> DuPont™ <b>Coragen®</b> for CPB following break of at-plant treatment	Neonicitinoid (such as Admire) at planting <i>Followed by</i> 5 fl oz/A <b>Coragen®</b> (typically July 1-July 30) <sup>2</sup> <i>Followed by</i> 5 fl oz/A 7-14 days following first <b>Coragen®</b> application (if CPB pressure is low, 2 <sup>nd</sup> <b>Coragen®</b> application can be 3.5-5 fl oz/A) <i>As needed after 2<sup>nd</sup> Coragen® application, rotate to an alternate mode of action (non group 28)</i>	DuPont™ <b>Vydate® C-LV</b> for nematodes <sup>1</sup> Use DuPont™ <b>Asana® XL</b> for flea beetles (typically 8/1 to 8/31) <sup>2</sup> <b>Coragen®</b> will also control European corn borer and cabbage looper 14-21 days after application For extreme high pressure CPB populations, consider two applications of an alternate mode of action (non group 28) preceding the two <b>Coragen®</b> applications
<b>Alternate</b> <b>Coragen®</b> on fields without an at-plant treatment	<b>Coragen®</b> applied at 5 fl oz/A, timed at 1 <sup>st</sup> generation egg hatch <i>followed by</i> <b>Coragen®</b> at 5 fl oz/A at 7-14 days after initial treatment depending on pressure <i>As needed after 2<sup>nd</sup> Coragen® application, rotate to an alternate mode of action (non group 28)</i>	<b>Vydate® C-LV</b> for nematode program <sup>1</sup> Use <b>Asana® XL</b> for flea beetles (typically 8/1 to 8/31) <sup>2</sup> <b>Coragen®</b> will also control European corn borer and cabbage looper 14-21 days after application
<b>Lepidoptera Control Program</b> <b>Coragen®</b> for worm control	<b>Coragen®</b> applied at 3.5-5 fl oz/A for 14-21 days residual control of European corn borer and cabbage looper as needed based on scouting and local thresholds	<b>Coragen®</b> will also provide control of CPB populations

<sup>1</sup> This Vydate® C-LV recommendation is made as permitted under FIFRA Section 2(ee) for the suppression of lesion, stubby root and root knot nematodes in potatoes in the states of AL, AR, AZ, CO, FL, GA, IA, ID, IL, IN, KS, LA, MI, MN, MO, MS, MT, NC, ND, NM, NV, OH, OK, OR, SD, TN, UT, WA, WI, WV AND WY. This recommendation is made as permitted under FIFRA Section 2(ee) and has not been submitted to or approved by EPA. The 2(ee) expiration date is 12/31/09.

Vydate® C-LV is available for use in Maryland, Pennsylvania and New York in potatoes for suppression of lesion, stubby root and root knot nematodes through a Special Local Need 24(c) Labeling. Persons using this product must comply with all applicable directions, restrictions and precautions found on the Vydate® C-LV Special Local Need 24(c) Labeling and that of the federal Vydate® C-LV label.

Vydate® C-LV is not labeled for use on nematodes in the states of CT, DE, MA, ME, NH, NJ, RI, VA and VT.

<sup>2</sup> Dates applicable to Midwest

*Asana® XL and Vydate® C-LV are restricted-use pesticides.*

**This reference guide is not intended as a substitute for the product label for the product(s) referenced herein. Product labels for the above product(s) contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank-mix combinations.**

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