Realize optimal yields and quality in sunflowers with reliable and consistent control.

California sunflower growers need to control sunflower head moths for optimum seed yields and quality.

Coragen® insect control powered by Rynaxypyr® active offers effective, long-lasting insect control with a shorter re-entry interval after application and minimal impact to most beneficial insect species, including bees. Coragen insect control combines these attributes to optimize sunflower seed yields and quality while having an excellent worker protection standard profile.

Key benefits of Coragen insect control

- Delivers long-lasting residual control of key worm pests, protecting sunflower yields and improving quality.
- Improves application flexibility, which can help when the number of acres to treat is greater than the time allowed to treat.
- Works through ingestion, contact and ovi-larvicidal properties so control can be assured within a wider application window.
- Excellent crop protection: Starts working right away by stopping insect feeding and keeps working for 14-21 days, minimizing and reducing the number of potential treatments.
- Provides a very short re-entry interval (4-hour REI), an excellent worker protection standard profile and minimal PPE requirement.
- Allows for flexible coordination of other field activities soon after application and the timely scouting of treated fields without major scheduling conflicts.
- Minimal impact on beneficial insects and honeybees.
- Does not impact honey pollination activity, which impacts sunflower yields and seed quality.
- The toxicological profile and mode of action of Coragen insect control reduces many of the negative consequences and insect-resistance cycles that result from repeated use of current products.
- Reduced Rhizopus head rot infections from less worm feeding damage.

1 In line with integrated pest management and good agricultural practices, insecticide applications should be made when pollinators are not foraging to avoid unnecessary exposure.
2 See product label for crop/pest combinations controlled or suppressed.
3 Untreated plant material may not be fully protected as a result of plant growth. During the period of head expansion, sequential applications may be necessary.
4 When used in accordance with label directions.
Asana XL insecticide is a Restricted Use Pesticide. Always read and follow label directions and precautions for use. Some products may not be registered for sale or use in all states. As of November 1, 2017, the USEPA registration for DuPont™ Coragen® insect control and Rynaxypyr® active has been sold to FMC by DuPont. FMC, Coragen and Rynaxypyr are trademarks of FMC Corporation or an affiliate. Asana is a trademark of Valent USA. Belt is a trademark of Bayer CropScience. ©2018 FMC Corporation. All rights reserved. 17-FMC-0972 06/18

For more information, contact your local FMC retailer or representative about Coragen insect control programs from FMC and visit us at FMCCrop.com.

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### Coragen insect control powered by Rynaxypyr® active use rates — sunflowers

<table>
<thead>
<tr>
<th>Application method</th>
<th>Pest</th>
<th>Pound active ingredient per acre</th>
<th>Fluid ounces product per acre</th>
<th>Last application (days to harvest)</th>
<th>REI (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foliar</td>
<td>Diamondback moths, sunflower moth larvae¹, banded sunflower moth larvae¹</td>
<td>0.045–0.065</td>
<td>3.5–5.0</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

¹ This recommendation for Coragen insect control is permitted under FIFRA Section 2(ee) for foliar control of sunflower moth larvae and banded sunflower moth larvae in sunflowers in California. The 2(ee) expiration date is 12/31/2016.

Use restrictions:
Make no more than four applications per acre per crop.
Minimum interval between treatments is five days.
Do not apply more than 15.4 fl. oz. of Coragen insect control or 0.2 lb. ai of chlorantraniliprole-containing products per acre per year.

### Use directions

**The sunflower head moth starts laying eggs at the initiation of flowering.**

**Research** in Texas and Northern California has shown that sequential Coragen insect control applications starting at late bud (R3) followed by a second application at full flowering (R5) provide the most consistent sunflower head moth control.

**Timing** of application is critical. Applications should be made at or just before egg lay of sunflower head moth. Longer residual activity can be expected when higher rates of Coragen insect control are applied. Sequential applications may be needed during periods of head expansion.

**Good coverage** is essential. Use sufficient water to obtain thorough, uniform coverage. An adjuvant may be used to enhance deposition and coverage.

**This sequential program with Coragen insect control provides 21-28 days of control throughout the sunflower head moth egg-laying period.**

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**Source:** 2015 DuPont Pioneer, Sunflower Station, Woodland, Calif.

**Photo credit:** Phil Sloderbeck, Kansas State University, Bugwood.org

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**Sunflower Head Moth Trial — 2015**

![Graph showing larval population of Coragen insect control compared to other treatments.](image-url)