Soybean insect pests are often present at below threshold numbers for an extended period of time. When a complex of different pests feed for an extended period of time, they will begin to reduce yields significantly. Soybean insect pest thresholds are generally based upon one insect and do not address a complex of multiple pests. Listed below are multiple pest thresholds based on three insect groups: stink bugs, defoliators, and corn earworms.

Defoliation is a key factor to consider. If the total number of insects in any two insect groups per 25 sweeps with a sweep net equal or exceed the threshold total, a Hero® Insecticide application is recommended.

<table>
<thead>
<tr>
<th>Soybean Multi-Pest Threshold</th>
<th># Insects / 25 Sweeps</th>
<th>Threshold Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Soybean Insect Pest</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thresholds When Defoliation</td>
<td>Stink Bugs</td>
<td>Defoliators</td>
</tr>
<tr>
<td>is &gt;20%</td>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>Multiple Soybean Insect Pest</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thresholds When Defoliation</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>is &lt;20%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 If percent defoliation is greater than 20 percent and the total number of insects from two or more insect groups is greater than threshold total for 25 sweeps then treatment is warranted.

2 If percent defoliation is less than 20 percent and the total number of insects from two or more insect groups is greater than threshold total for a given number of sweeps then treatment is warranted.

3 If one Dectes stem borer is found per 25 sweeps, treatment is warranted.

Soybean Application Recommendations

<table>
<thead>
<tr>
<th>2.6 - 6.1 oz./A</th>
<th>Bean leaf beetles, cutworms, flea beetles, grasshoppers, green cloverworms, thistle caterpillars, silver spotted skippers</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 - 10.3 oz./A</td>
<td>Alfalfa caterpillars, armyworms, blister beetles, corn rootworms (adult), corn earworms, cowpea curluclo, cucumber beetles (adult), Dectes stem borers, European corn borers, hornworms, false chinch bugs, grape colaspis (adult), hornworms, Japanese beetles (adult), leafhoppers, leaf miners (adult), loopers, Mexican bean beetles, seedcorn maggots (adult), soybean aphids, spittlebugs, thrips, stink bugs, webworms, woolly bear caterpillars</td>
</tr>
<tr>
<td>10.3 oz./A</td>
<td>Two-spotted spider mites, lygus species, whiteflies</td>
</tr>
</tbody>
</table>

Consider a tank mix with Dimethoate 4E for increased mite control and resistance management.

Special Information

12 hour REI, 21 day PHI. Apply using sufficient carrier to obtain thorough coverage of foliage to achieve control, minimum of 10 gal./A by ground or 2 gal./A by air include COC or equivalent. Can be tank mixed with commonly used herbicides, fungicides and foliar fertilizers. Do not apply more than 10.3 oz./A per application. Do not apply more than 41.2 oz./A per season including at-plant applications. Do not make applications less than 30 days apart. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
Soybean Leaf Feeding Insects

- Grasshoppers
- Spider Mites
- Salt Marsh Caterpillars
- Bean Leaf Beetles
- Webworms
- Blisters

Soybean Pod Feeding Insects

- Brown Stink Bug
- Red Banded Stink Bug
- Green Stink Bug
- Southern Green Stink Bug
- Podworms (Corn Earworms)

Impact of Hero® insecticide tank-mixed with fungicide applied at multi-pest threshold versus fungicide application.
(Data courtesy commercial strip Plot trial in Southern Indiana)

- Yield (Bu/A)
- Grasshoppers
- Stinkbugs
- Rootworm Beetles

Addition of Hero® insecticide to fungicide applications in soybeans and applied using the multi-pest threshold resulted in a 5 Bu/A increase.

- Hero® Insecticide 5 oz + Quadris® Fungicide 6.2 oz + NIS 0.25% v/v @ Multi-Pest Threshold
- Quadris® Fungicide 6.2 oz + NIS 0.25% v/v

Always read and follow label directions. NOTE REGARDING RESTRICTED USE PESTICIDES: Anthem ATZ herbicide; Athena insecticide, Brigade 2EC Insecticide/Miticide, Brigade WSB Insecticide/Miticide, Brigadier Insecticide Capture 3RIE 3D insecticide, Capture LFR Insecticide, Declare insecticide, Hero Insecticide, Mustang Insecticide, Mustang Maxx Insecticide, Pounce 25WP Insecticide, Stallion Brand Insecticide, Ethos XB Insecticide/Fungicide and Gladiator Insecticide/Miticide are Restricted Use Pesticides. VGR Soil Amendment is not a pesticide. NOTE FOR CALIFORNIA: Accurate Extra herbicide, Aim EC herbicide, Anthem herbicide, Anthem ATZ herbicide, Anthem Flex herbicide, Anthem Maxx herbicide, Authority Assist herbicide, Authority Elite herbicide, Authority First DF herbicide, Authority Maxx herbicide, Authority MTZ DF herbicide, Authority XL herbicide, Cadet herbicide, Chismus Herbicide, Command 3ME microencapsulated herbicide, Crusher Herbicide, Edition Broadspec herbicide, Edition Tankmix Herbicide, Marvel herbicide, Nimble herbicide, Nuance Herbicide, Preemptor SC fungicide, Report Extra Herbicide, Solstice herbicide, Spartan 4F herbicide, Spartan Charge herbicide, Spartan Elite herbicide, Zeus Prime XC herbicide, Zeus XC herbicide, Capture 3RIE 3D insecticide, Ethos XB Insecticide/Fungicide, Hero Insecticide, Mustang Maxx Insecticide, Topguard Terra Fungicide, Topguard Fungicide Specialty Crops fungicide, Display cotton harvest aid are not registered for sale or use in California. Beleaf and Carbine are trademarks of Ishihara Sangyo Kaisha, Ltd. Fortix is a trademark of Arysta Life Science North America, LLC. Cercobin is a trademark of Nippon Soda Co., LTD. Sovran is a registered trademark of BASF. FMC, 3RIE 3D, Accurate, Aim, Anthem, Athenia, Authority, Brigade, Brigadier, Cadet, Capture, Chismus, Command, Crusher, Declare, Display, Edition, Ethos, Fracture, Fyfanon, Gladiator, Hero, Koverall, LFR, Marvel, Mustang, Nimble, Obey, Pounce, Preemptor, Report, Rhyme, Rovral, Shark, Solida, Solstice, Spartan, Stallion, Topguard, Topguard Terra and Zeus are trademarks and HatchTrak and “Investing in farming’s future” are service marks of FMC Corporation or an affiliate. ©2016 FMC Corporation. All rights reserved.

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