













## ALMOND CROP CARE GUIDE


Syngenta is committed to helping almond growers produce the highest-quality crop possible. Our goal is to aid almond growers in producing higher yields, while maintaining tree health year after year. This brochure is designed to provide a snapshot of the Syngenta portfolio.

INSECTICIDES					
Product Overview	REI	PHI	Rate	Maximum Rate or Applications Per Crop	Labeled Uses
 <p><b>Agri-Mek<sup>®</sup> SC</b> miticide/insecticide sets the industry standard for reliable control of economically damaging mite pests in almonds. A part of the next generation of abamectin products from Syngenta, Agri-Mek SC is more concentrated than the original formulation of Agri-Mek, offering more active ingredient per fluid ounce. In addition, an improved water-based formulation helps Agri-Mek SC provide the level of control growers have come to expect from Syngenta.</p>	12 hours	21 days	<p><b>For Dilute Sprays:</b> 0.5-1 fl. oz./100 gal.</p> <p><b>For Concentrate Sprays:</b> 2.25-4.25 fl. oz./A</p>	<p>Do not apply more than 4.25 fl. oz./A (or 0.023 lb. a.i./A) of Agri-Mek SC or any other foliar applied abamectin-containing product per application.</p> <p>Do not apply more than 8.5 fl. oz./A (or 0.047 lb. a.i./A) of Agri-Mek SC or any other foliar-applied abamectin-containing product in a growing season.</p>	Pacific spider mite, twospotted spider mite, strawberry spider mite, European red mite
 <p>When fire ants move in, <b>Clinch<sup>®</sup></b> fire ant bait gets them out. It kills ants through ingestion but it does so slowly, allowing worker ants to have time to spread it throughout the colony; and when the queen ingests Clinch, viable egg production ceases. Clinch is the perfect tool to help manage fire ant colonies in almond orchards.</p>	12 hours	N/A	<p><b>Broadcast/Aerial applications:</b> 1 lb./A</p> <p><b>Individual Mound Treatment:</b> 5-7 tbsp./mound</p>	<p>Do not apply more than 1 lb. of Clinch ant bait per acre per application.</p> <p>Do not apply more than 4 applications of Clinch ant bait per acre per year.</p>	Fire ant, pavement ant
 <p>With immediate activity on target insects, <b>Proclaim<sup>®</sup></b> insecticide gives almond growers long-lasting protection from lepidopterans and good mite suppression with minimal impact on beneficials. Growers can depend on Proclaim to control the most damaging worm pests in almonds.</p>	12 hours	14 days	3.2-4.8 oz./A	<p>Do not apply more than 4.8 oz./A per application.</p> <p>Do not apply more than 14.4 oz./A per season.</p>	<p>Navel orangeworm, Oriental fruitmoth, peach twig borer, leafroller species, spider mites*</p> <p>* Suppression</p>

INSECTICIDES					
Product Overview	REI	PHI	Rate	Maximum Rate or Applications Per Crop	Labeled Uses
 <p><b>Voliam Xpress®</b> insecticide provides powerful, quick knockdown and long-lasting residual control of a wide array of damaging almond insect pests. One product provides dual-action control of lepidopteran pests plus other insects with the application flexibility to fit any time of the season. Plus, with Voliam Xpress, there's no need for tank-mixing, so one label provides all the information you need. For quick, reliable, versatile control of tough pests, choose Voliam Xpress.</p>	24 hours	14 days	6 – 12.5 fl. oz./A	Do not exceed a total of 31 fl. oz. of Voliam Xpress or 0.16 lb. a.i. of lambda-cyhalothrin containing-products (0.12 lb. a.i. of lambda-cyhalothrin containing-products post bloom) or 0.2 lb. a.i. of chlorantraniliprole-containing products per acre per year.  Make no more than 4 applications per season.	Ants, leaffooted bug, leafroller species, obliquebanded leafroller, Oriental fruit moth, navel orangeworm, peach twig borer, plant bug species, stink bug species
 <p><b>Warrior II with Zeon Technology</b> insecticide delivers the combination of consistently reliable performance, modern formulation technology, and long residual insect protection for almonds. Zeon® Technology, a patented quick-release, micro-encapsulated formulation, with a powerful UV blocker, ensures fast knockdown and provides residual control of the most damaging insects.</p>	24 hours	14 days	1.28 - 2.56 fl. oz./A	Do not apply more than 0.16 lb. a.i. (10.24 fl. oz. or 1.28 pt. of product) per acre per year.  Do not apply more than 0.12 lb. a.i. (7.68 fl. oz. or 0.48 pt. of product) per acre per year post bloom.	Ants, leaffooted bug, leafroller species, navel orangeworm, peach twig borer, plant bug species, stink bug species

FUNGICIDES					
Product Overview	REI	PHI	Rate	Maximum Rate or Applications Per Crop	Labeled Uses
 <p>Wet weather does not prevent pathogens from attacking your almond trees and it should not keep your fungicide from protecting them. <b>Bravo Weather Stik®</b> fungicide, with its patented Super Weather Stik formulation, adheres tightly to the leaf surface for persistent coverage you can count on, even in heavy rains. The broad-spectrum activity, residual control and tank-mix flexibility make Bravo Weather Stik the obvious choice for almond growers.</p>	12 hours	150 days	4 pt./A or 1.33 pt./100 gal.	Do not apply more than 25 pt. of Bravo Weather Stik (18.75 lb. a.i.) per acre during each growing season (leaf fall through shuck split).  <b>Dormant application:</b> 4 pt. (64 fl. oz./100 gal./A) in a tank mixture with 4 gal. agricultural oil/A  <b>Dilute application:</b> 1.33 pt. product and 1 gal. oil/100 gal. (maximum of 300 gal./A)	Anthracnose, brown rot blossom blight, scab, shot hole  <b>Dormant application:</b> scab and alternaria
 <p><b>Inspire Super®</b> fungicide offers disease control that is second to none for almonds. It utilizes the unique active ingredient difenoconazole with translaminar activity and Vanguard® fungicide with systemic activity to deliver long-lasting control of damaging diseases. For top-notch almonds, growers can trust Inspire Super.</p>	12 hours	60 days	16-20 fl. oz./A	Do not apply more than 80 fl. oz./A of Inspire Super per crop  Do not apply more than 0.46 lb. a.i./A per crop of difenoconazole-containing products.  Do not apply more than 1.4 lb. a.i./A of a cyprodinil-containing products.	Alternaria leaf spot, anthracnose, green fruit rot (jacket rot), Monilinia blossom blight, leaf blight, leaf rust, scab, shot hole





FUNGICIDES					
Product Overview	REI	PHI	Rate	Maximum Rate or Applications Per Crop	Labeled Uses
 <p><b>Quadris Top®</b> fungicide exhibits preventive, systemic and curative activity and offers foliar disease control whenever it's needed. It protects almonds from a broad spectrum of profit-robbing diseases.</p>	12 hours	28 days	12-14 fl. oz./A	Do not apply more than 56 fl. oz./A of Quadris Top per crop.  Do not apply more than 0.46 lb. a.i./A per crop of difenoconazole-containing products.  Do not apply more than 1.5 lb. a.i./A per crop of azoxystrobin-containing products.	Alternaria leaf spot, anthracnose, blossom blight, leaf blight, leaf rust, scab, shot hole, rhizopus hull rot
 <p><b>Ridomil Gold® SL</b> fungicide offers long-lasting disease protection against several species of <i>Phytophthora</i> which can infect the roots and crown of the tree.</p>	48 hours	N/A	2 qt./A or 1.5 fl. oz./1,000 sq. ft.  For intense plantings (2-3 times the normal planting rate), apply on a per area basis (1,000 sq. ft.).	Do not exceed the equivalent of 6 lb. a.i./A per crop of soil-applied mefenoxam-containing products.  Make up to 3 applications per year.	Collar rot, crown rot, Phytophthora root rot
 <p><b>Vanguard®</b> WG fungicide offers almond growers early protection they can count on. Active against a wide range of fungal diseases, Vanguard WG helps fight brown rot, jacket rot, and shot hole. The powerful systemic activity of Vanguard WG works preventatively and provides some reach back for infected trees. It inhibits leaf penetration and the growth of pathogens within plant tissue to provide a high level of disease control performance that growers can count on.</p>	12 hours	60 days	5-10 oz./A	Do not apply more than 30 oz./A of Vanguard WG (1.4 lb. a.i./A of cyprodinil) per plot of land per year	Brown rot blossom blight, *green fruit rot (jacket rot), *shot hole  * Suppression

HERBICIDES					
Product Overview	REI	PHI	Rate	Maximum Rate or Applications Per Crop	Labeled Uses
 <p>For clean tree rows, trust <b>Gramoxone® SL 2.0</b> herbicide for outstanding contact, broad-spectrum control of even the most difficult-to-control weeds. It provides fast-acting results in as little as 48 hours and is rainfast upon drying. Gramoxone SL 2.0 is the burndown solution for growers who need quality weed control that helps preserve the efficacy of glyphosate and other herbicides.</p>	12 hours	N/A	12-14 fl. oz./A	Do not exceed 5 applications of Gramoxone SL 2.0 per year	Post-emergence control of annual grass and broadleaf weeds.





## HERBICIDES

Product Overview	REI	PHI	Rate	Maximum Rate or Applications Per Crop	Labeled Uses
 <p><b>Princep® 4L</b> herbicide provides broad-spectrum and long-lasting control of damaging broadleaf weeds and vines. The Princep 4L formulation makes it an easy-to use tank-mix partner with Solicam.</p>	12 hours	N/A	1-2 qt./A	<p>Do not apply more than 2 qt. Princep 4L per acre (2 lb. a.i./treated acre) per calendar year.</p> <p>Do not apply more than once per calendar year.</p>	<p>Pre-emergence treatment for difficult-to-control broadleaves and annual grass such as:</p> <ul style="list-style-type: none"> <li>• Common chick weed</li> <li>• Wild mustard</li> <li>• Shepherdspurse</li> </ul>
 <p>For a pre-emergence herbicide you can trust, rely on the efficacy of <b>Sollicam® DF</b> herbicide. Sollicam DF controls the toughest broadleaf weeds and grasses in almonds. With extended residual activity, Sollicam DF means fewer applications and fewer trips through orchards. Plus, Sollicam DF fits easily into existing weed control programs, tank mixing with many other products, allowing for optimal control.</p>	12 hours	60 days	<p>1.25 – 5 lb./A/year</p> <p>See label for rates by soil textures</p>	<p>Multiple or sequential applications can be made, but the total quantity of Sollicam DF applied during a year must not exceed the maximum recommended rate for that crop and soil texture.</p>	<p>Pre-emergence treatment for annual and perennial broadleaves and grass.</p>
 <p><b>Touchdown HiTech®</b> herbicide provides effective weed control where growers prefer glyphosate surfactants and additives that can be customized for farming operations. Since it contains no surfactants or additives, it allows flexibility to customize the surfactant that best fits your needs.</p>	12 hours	3 days	See label for rates by weed type	<p>Do not exceed a total of 4.8 qt. Touchdown HiTech/A equivalent to 6 lb. glyphosate acid equivalents per acre per year.</p>	<p>Post-emergence control of annual and perennial grass and broadleaf weeds.</p>
 <p><b>Touchdown Total®</b> herbicide offers reliable, down-to-the-roots weed control through its custom developed, high performing formulation. The formulation is one that is both highly concentrated and non-selective. The highly concentrated formulation also makes handling, storage and application convenient and efficient.</p>	12 hours	3 days	See label for rates by weed type	<p>Do not exceed a total of 5.8 qt. Touchdown Total/A, equivalent to 6 lb. glyphosate acid equivalents per acre per year.</p>	<p>Post-emergence control of annual and perennial grass and broadleaf weeds.</p>



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Sollicam DF is not for sale, use or distribution in Nassau and Suffolk Counties in New York. Agri-Mek SC, Proclaim, Voliam Xpress and Warrior II with Zeon Technology are highly toxic to bees exposed to direct treatment on blooming crops and weeds. Do not apply these products or allow them to drift onto blooming plants while bees are foraging adjacent to the treatment area. Agri-Mek®, Bravo Weather Stik®, Clinch®, Gramoxone®, Inspire Super®, Princep®, Proclaim®, Quadris Top®, Ridomil Gold®, Sollicam®, Touchdown HiTech®, Touchdown Total®, Vangard®, Voliam Xpress®, Warrior II with Zeon Technology®, Zeon®, the Alliance Frame, the Purpose Icon and the Syngenta logo are trademarks of a Syngenta Group Company.