

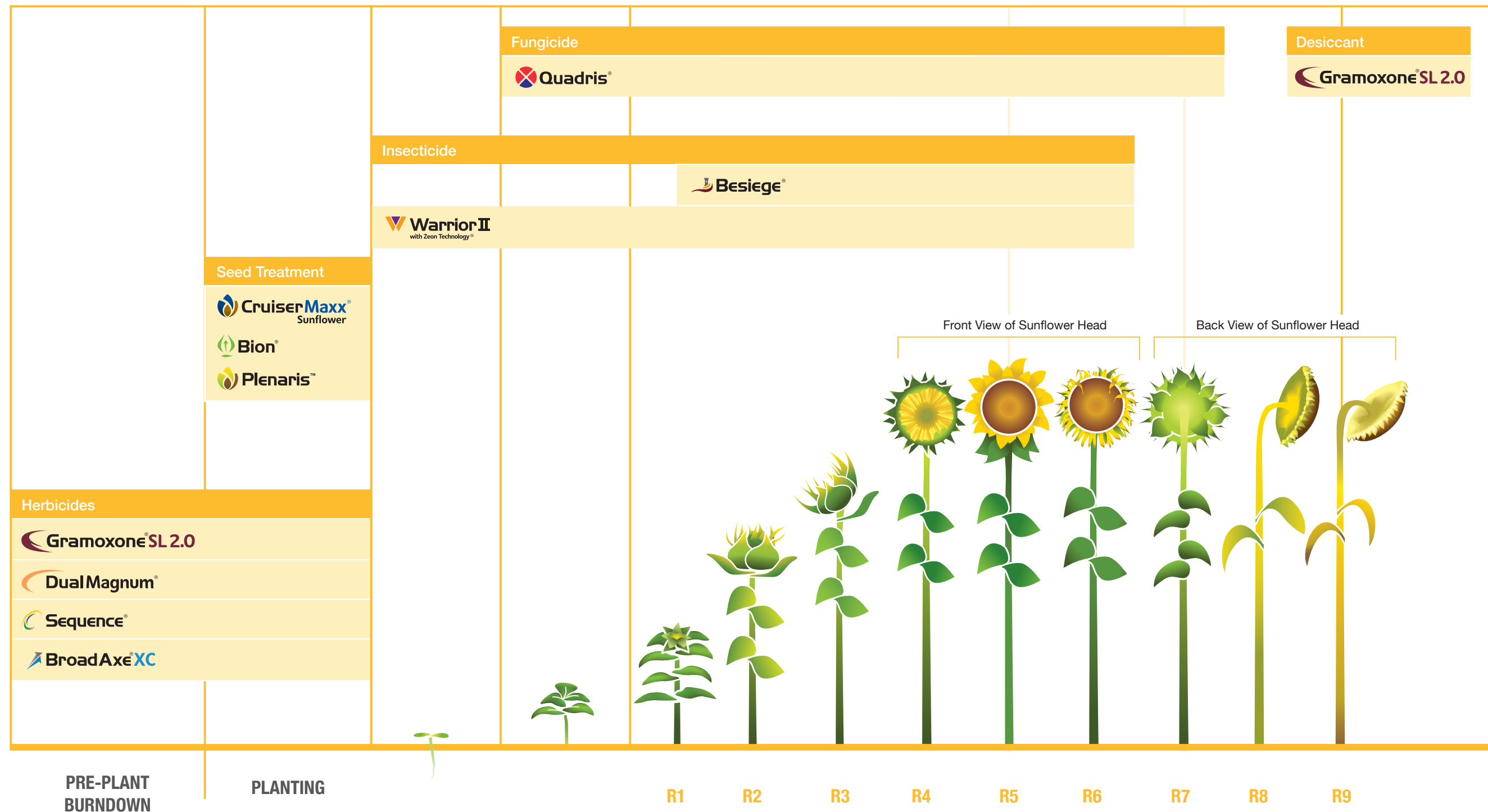


## Syngenta delivers grower value in sunflowers

At Syngenta, we are proud to support the sunflower industry. To help growers meet increasing demand and capitalize on market opportunities, we continue to invest in research that helps farmers Grow More Sunflowers. We take our company commitment to “think like a grower” seriously, and we diligently assess needs and challenges in the marketplace so we can provide growers and the industry with the tools they need.

We offer sunflower growers solutions to challenges they face every season. We are dedicated to being more than a manufacturer — **we’re a partner to help you Grow More Sunflowers.**

# Optimize Product Applications to Grow More Sunflowers



**GROW more sunflowers**



Besiege, Gramoxone SL 2.0 and Warrior II with Zeon Technology are Restricted Use Pesticides.



## Early-season insect and disease protection combined with improved vigor



**CruiserMaxx Sunflower** insecticide/fungicide seed treatment helps increase stand, uniformity and vigor to protect yield potential. **CruiserMaxx Sunflower** conveniently delivers improved insect and disease protection in just one application by combining the cutting-edge insect protection of **Cruiser**® insecticide along with early-season disease protection from **Dynasty**®, **Maxim**® 4FS and **Apron XL**® fungicides.

### Key benefits

- Helps enhance germination, increase uniformity, improve stand establishment and deliver better yield potential
- Establishes healthy roots, giving a vigorous start for sunflower crops
- Protects against seedborne and soilborne diseases including *Pythium*, *Fusarium* and *Rhizoctonia*
- Provides superior protection against early-season insect pests such as wireworm, flea beetle and sunflower beetle

### Key pests controlled

- Sunflower beetle
- Seedling blight
- Wireworm

Refer to label for a complete list of pests.



As a combination of separately registered products, **CruiserMaxx Sunflower** plus **Bion**® seed treatment insecticide/fungicide provides superior insect and disease protection, improved germination and emergence and enhanced stand establishment.

### Key benefits

- Offers enhanced downy mildew protection
- Unique mode of action minimizes risk of resistance development by activating the plant's own defense mechanism

### Key pests controlled

- Downy mildew

Refer to label for a complete list of pests.



**Plenaris**® seed treatment fungicide provides outstanding protection against downy mildew to aid in stand establishment and promote plant vigor. **Plenaris** features a unique mode of action that is effective at very low use rates and protects against multiple races of the disease, including those that have exhibited resistance to some resistant genes. When included as part of your seed treatment package, **Plenaris** exhibits excellent activity on both susceptible and resistant sunflower varieties. Always use **Plenaris** in combination with **Bion** or **Dynasty** for improved disease protection.

### Key benefits

- Highly effective
- Protection against all downy mildew races
- Excellent activity on susceptible and resistant varieties
- Compatible with other fungicide and insecticide seed treatments for broadened protection
- Unique mode of action to aid in resistance management

### Key pests controlled

- Downy mildew

Refer to label for a complete list of pests.

## Management tools to reduce weed competition

Starting with a clean seedbed is essential for strong stand establishment. Minimizing competition from early-season weeds helps ensure sunflowers use all available moisture and nutrients for growth, yield and quality. Syngenta offers several herbicide options to suit a variety of field needs.

### Pre-emergence herbicides



**Sequence**® herbicide combines s-metolachlor with glyphosate for effective contact plus residual control of more than 170 weeds through a pre-plant or pre-emergence application. With two distinct modes of action, **Sequence** delivers weed resistance management benefits with effective knockdown control of existing weeds and residual control of later-emerging weeds.

By controlling weeds early, **Sequence** is a time-saving tool for any producer's weed control program.

### Key benefits

- Combines the resistance management benefits of s-metolachlor with glyphosate to provide sunflowers with a clean seedbed
- Gives growers freedom to capture moisture and soil conservation benefits in reduced tillage programs while eliminating weeds to start with a clean seedbed
- Controls early weeds and delivers residual control to keep fields free of weeds so sunflower seedlings can establish a strong stand

### Key weeds controlled

- Barnyardgrass
- Lambsquarters, common
- Crabgrass
- Mustards
- Foxtails
- Pigweeds

Refer to label for a complete list of weeds.



**BroadAxe**® **XC** herbicide combines multiple modes of action for broad-spectrum control of key broadleaf and grass weeds. In addition, flexible application options bring more convenience to growers across varying geographies and soil types.

### Key benefits

- Offers long-lasting residual control for early-season weed management
- Provides flexible application timing up to three days after planting, but before crop emergence
- Performs in no-till, minimum till and conventional tillage systems
- Combines multiple modes of action to aid in resistance management

### Key weeds controlled

- Barnyardgrass
- Russian thistle (including glyphosate-, ALS- and triazine-resistant populations)
- Foxtails
- Waterhemp
- Kochia
- Palmer amaranth
- Pigweeds

Refer to label for a complete list of weeds.



## Burndown herbicide

### Gramoxone<sup>®</sup> SL 2.0

Gramoxone<sup>®</sup> SL 2.0 herbicide delivers effective control of annual grass and broadleaf weeds so sunflower seedlings emerge in fields free from weed competition.

#### Key benefits

- Broad-spectrum burndown weed control to start the season with a clean seedbed and minimize competition for moisture and nutrients
- Effective resistance management tool to prolong the viability of herbicides
- Excellent tool to control weeds in reduced tillage systems to help conserve moisture

#### Key weeds controlled

- Crabgrass
- Foxtails
- Kochia
- Pigweed

Refer to label for a complete list of weeds.

Gramoxone SL 2.0 is a Restricted Use Pesticide.



## Reliable insect protection for a more productive stand

### Warrior II with Zeon Technology<sup>®</sup>

Warrior II with Zeon Technology<sup>®</sup> insecticide protects sunflower plants from insect damage that can reduce yield and quality. During the seedling stage, **Warrior II with Zeon Technology** stops cutworms and flea beetles from cutting off seedlings and chewing foliage. During the vegetative stage, **Warrior II with Zeon Technology** stops pests like the sunflower beetle, red and gray seed weevil, and sunflower stem weevil, which commonly feed on flowers, seeds and stems.

#### Key benefits

- Stops flea beetle feeding so plants retain moisture and develop a productive stand
- Controls sunflower moth which leads to fewer infections of *Rhizopus* head rot that invades heads through tissue damage from larval feeding
- Controlling sunflower stem weevil helps prevent transmission of Phoma black stem disease

#### Key pests controlled

- Banded sunflower moth
- Sunflower beetle
- Seed weevil (adult)
- Sunflower moth

Refer to label for a complete list of insects.

Warrior II with Zeon Technology is a Restricted Use Pesticide.

### Besiege<sup>®</sup>

Besiege<sup>®</sup> insecticide is a powerful, long-lasting foliar insecticide that utilizes two active ingredients to stop a broad spectrum of sunflower's most damaging lepidopteran pests from affecting your crop. Available as a convenient premix solution, **Besiege** eliminates the need for tank mixing while offering low application rates. With two distinct modes of action, Besiege controls all stages of lepidopteran pests and other bothersome insects like seed weevil and stink bug.

#### Key benefits

- Consistently controls insects through contact and ingestion activity
- Easily integrates into resistance management programs
- Flexible application timing allows growers to apply when it is best for their operation

#### Key pests controlled

- Cutworm spp.
- Seed weevil (adult)
- Fall armyworm
- Stink bug spp.

Refer to label for a complete list of insects.

Besiege is a Restricted Use Pesticide.

## Strong disease control for improved crop performance



**Quadris**® fungicide delivers top-notch disease control so sunflower plants can focus their energy on seed set and seed fill rather than warding off fungal pathogens. Through long-lasting disease control, **Quadris** helps protect plants to maximize yield and quality. By tank mixing **Quadris** with an insecticide, growers can also achieve disease and insect control in a single pass.

### Key benefits

- Broad-spectrum sunflower disease control includes rust and alternaria leaf spot
- Application flexibility and long-lasting residual disease control allows growers to time applications to fit their farm needs
- Systemic movement through plant leaves protects from disease as the crop grows and allows the plant to deliver better yield and quality

### Key pests controlled

- Alternaria leaf spot
- Sunflower rust

Refer to label for a complete list of pests.

## Desiccation for timely harvests



As harvest approaches, sunflowers may need help drying down quickly to avoid damage from severe weather or bird feeding. To help speed time to harvest, **Gramoxone SL 2.0** serves as an efficient desiccant so growers can maximize their investment.

### Key benefits

- Allows for an earlier harvest, minimizing losses from bird feeding and stopping the spread of *Sclerotinia* head rot
- Dries down stalks and green matter to facilitate a timely harvest
- Increases combine efficiency and speed while lessening wear and tear
- Reduces foreign matter, seed moisture and dockage



**Gramoxone SL 2.0 is a Restricted Use Pesticide.**

**GROW more  
sunflowers**



For more information and product labels, visit [syngenta-us.com](http://syngenta-us.com).

Product performance assumes disease presence.

©2017 Syngenta. **Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status. Besiege, Gramoxone SL 2.0 and Warrior II with Zeon Technology are Restricted Use Pesticides.** Besiege 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. CruiserMaxx Sunflower is an on-seed application of Cruiser 5FS insecticide and three fungicides: Apron XL, Maxim 4FS and Dynasty. **Syngenta supports a FIFRA Section 2(ee) recommendation for Warrior II with Zeon Technology at 1.28-1.92 fl. oz./A in sunflower to control flea beetle in CO, KS, MN, MT, ND, NE, SD, WY. Syngenta supports a FIFRA Section 2(ee) recommendation for Warrior II with Zeon Technology at 0.96-1.92 fl. oz./A in sunflower (grown for oil only) to control red sunflower seed weevil (adult) in ND and SD. This 2(ee) recommendation is not in force for controlling pests in sunflower grown for confectioner purposes. Syngenta supports a FIFRA Section 2(ee) recommendation for Quadris at 6.0-15.5 fl. oz./A in sunflower in CO, KS, MN, MT, ND, NE, SD, WY.**

Apron XL®, Besiege®, Cruiser®, CruiserMaxx®, Dual Magnum®, Dynasty®, Gramoxone®, Maxim®, Plenaris®, Quadris®, Sequence®, Warrior II with Zeon Technology®, Zeon®, the Alliance frame, the Purpose icon and the Syngenta logo are trademarks of a Syngenta Group Company. Bion® is a trademark of Merck KGaA. BroadAxe® is a registered trademark of FMC Corporation.

GS 275-5047

SLC 1731D 11-2016