

Crop Protection Update



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CPTDR





Prosaro[®] PRO 400 SC Fungicide





Prosaro® PRO 400 SC Fungicide at a Glance



Active Ingredients

- Prothioconazole (Group 3) // 1.67 lbs/gal
- Tebuconazole (Group 3) // .84 lbs/gal
- Fluopyram (Group 7) // .84 lbs/gal

Packaging

- 2x2.5gal case
- 270gal IBC

Formulation: 400 SC (Suspension Concentrate)

Application Rates: 10.3-13.6 oz/A

Water Volumes

- Ground: Minimum of 10 gal/A
- Aerial: Minimum of 2-5 ga/A

Rainfastness: One hour after application

Wheat Diseases

- Fusarium Head Blight (scab)
- Powdery Mildew
- Rusts
- Septoria Leaf Blotch
- Stagnospora Blotch
- Tan Spot
- Ergot*

Barley Diseases

- Fusarium Head Blight (scab)*
- Powdery Mildew
- Rusts
- Scald
- Net Blotch
- Spot Blotch



Prosaro® PRO 400 SC Fungicide has a flexible application window for targeting foliar and head diseases

Foliar Diseases:

Apply as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems

Head Scab in Wheat:

Apply as a preventive spray; recommend beginning when 75% of heads are fully emerged.

- Academic researchers recommend a fungicide application from early flowering to 6 days after flower initiation for suppression of mycotoxins

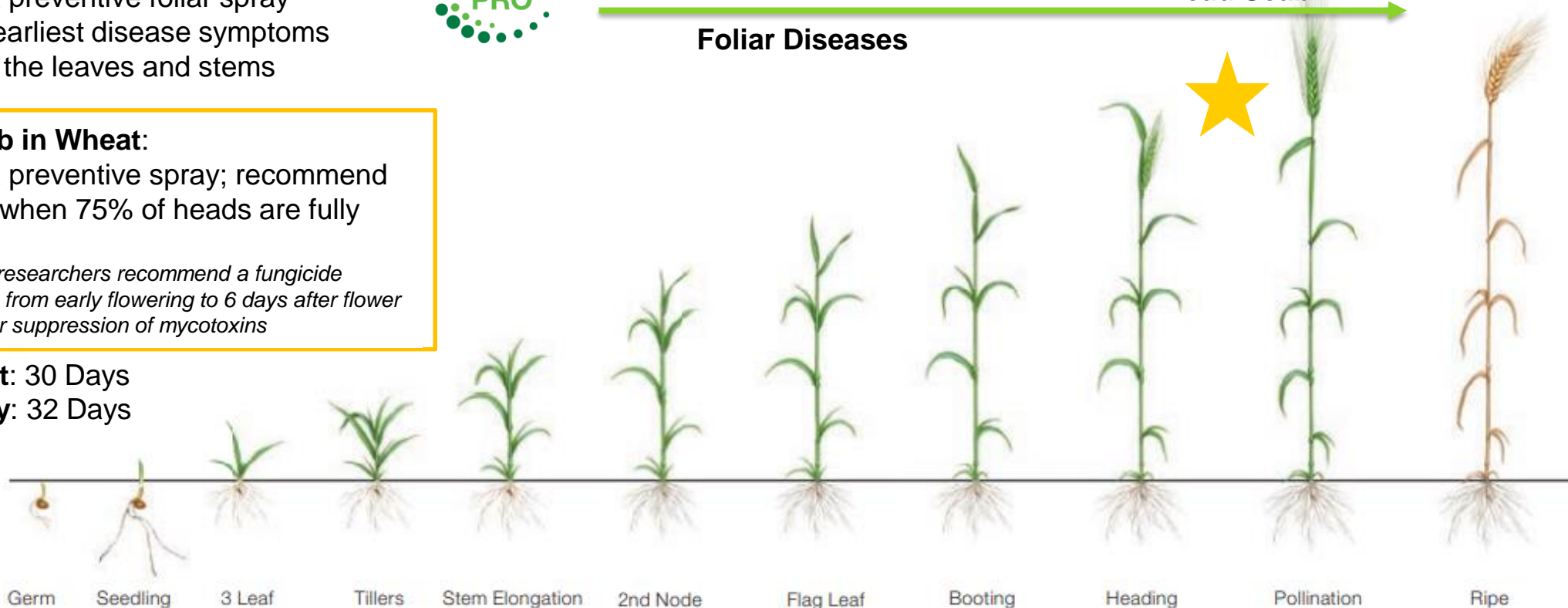
PHI Wheat: 30 Days

PHI Barley: 32 Days



Foliar Diseases

Head Scab



 **PLUS**
ELIGIBLE

TriVOLT™



TriVolt™ Herbicide for Visibly Clean Fields

Built with a proprietary formula, TriVolt™ herbicide*, a restricted use pesticide, delivers consistently high weed control for visibly clean fields.

/// BENEFITS

8 Weeks of Protection

Keeps fields clean for up to eight weeks in a variety of weather conditions.

Broad Spectrum Control

Controls a broad spectrum of key grass and broadleaf weeds.

Three Modes of Action

Built-in resistance management tool with a proprietary combination of three different sites of action.

*TriVolt herbicide is still pending certain state approvals. Call to check approval status in your state.





Quick Facts



Registered Crop

- Corn

Key Weeds

- Barnyardgrass
- Common Lambsquarters
- Common Ragweed
- Common Waterhemp
- Crabgrass Species
- Fall Panicum
- Foxtail Species
- Kochia
- Palmer Amaranth
- Velvetleaf

Formulation Information

Flufenacet (2.85 lb. A.I./gal)
Isoxaflutole (0.57 lb. A.I./gal)
Thiencarbazone-methyl (0.23 lb. A.I./gal)
Cyprosulfamide, a safener

Site-of-Action Groups



Recommended Application Rate*

Two-Pass Herbicide Program: 12 fl oz/A
One-Pass Herbicide Program: 20 fl oz/A

Application Timing

Preplant, Preemergence/At Planting
Early Postemergence (through V2 corn)

Recommended Tankmix Options

Atrazine

DiFlexx® herbicide

Roundup® Brand Agricultural Herbicides**

*Coarse soils 2% O.M. or less have lower application rates; please confirm usage with label.

**Encompasses full portfolio of Roundup® Brand Agricultural Herbicides (Roundup PowerMAX®, Roundup PowerMAX® 3 and Roundup WeatherMAX® Herbicides).

 **PLUS**
ELIGIBLE

VELUM[®]



Technical Nuts and Bolts



↳ **Active Ingredients:** Fluopyram

↳ **Chemical class:** Pyridinyl benzamide

↳ **Formulation:** Soluble Concentrate (SC) containing:
4.16lbs. FLUOPYRAM per gallon

↳ **Mode of action:**

↳ Nematodes & Diseases: Fluopyram

- SDH-Succinate De-hydrogenase (SDHI) inhibitor (FRAC Group 7)

Nematode Spectrum



- *Belonolaimus* sp., Sting nematode
- *Criconemella* sp., Ring nematode
- *Ditylenchus dipsaci*, Alfalfa stem nematode
- *Globodera rostochiensis*, Golden eelworm
- *Hemicycliophora* sp., Sheath nematode
- *Heterodera cruciferae*, Cabbage cyst nematode
- *Heterodera glycines*, Soybean cyst nematode
- *Heterodera schactii*, Sugar beet cyst nematode
- *Hoplolaimus* sp., Lance nematode
- ***Meloidogyne incognita*, Southern root-knot**
- ***Meloidogyne arenaria*, Peanut root knot nematode**
- *Meloidogyne chitwoodi*, Columbia root knot
- *Meloidogyne hapla*, Northern root knot nematode
- *Paratrichodorus minor*, Stubby Root Nematode
- *Paratylenchus* sp., Pin Nematode
- *Pratylenchus neglectus*, Lesion nematode
- *Pratylenchus penetrans*, Lesion Nematode
- *Pratylenchus vulnus*, Walnut Lesion Nematode
- *Pratylenchus zea*, Corn root lesion nematode
- *Radopholus similis*, Burrowing nematode
- ***Rotylenchulus reniformis*, Reniform nematode**
- *Tylenchulus semipenetrans*, Citrus nematode
- *Xiphinema americanum*, Dagger nematode

Nematode Mode of Action

- Mode of action – fluopyram selectively inhibits Complex II of the respiratory chain in the mitochondria of nematodes.
- Nematodes are rapidly immobilized after contact, followed by death.

Untreated control





VELUM® in Soybeans

Label approval for nematode session for 2023 season



2022 TD- Strip trial
Jonesboro, AR

Application rate: 3-6 fl oz/acre

Method application: In furrow at Planting



APPROVED

LEGUME VEGETABLES (Edible-podded legume vegetables, subgroup 6A; Succulent shelled pea and bean, subgroup 6B; Dried shelled beans, Soybeans)

Application Rate: 3.0 to 6.0 fl oz/acre

Restrictions:

- Maximum annual application rate: 6.0 fl oz/acre of VELUM (0.196 lb/acre fluopyram)
- Maximum number of applications per year: 4 (at 3.0 fl oz/acre per year, regardless of formulation or method of application (soil or foliar)).
- DO NOT apply more than 0.446 lbs Fluopyram per acre per year, regardless of formulation or method of application (soil or foliar).
- DO NOT apply ground or chemigation equipment.
- Apply using ground or chemigation equipment within 14 days of harvest.
- DO NOT apply VELUM for development of disease resistance to this fungicide class, it is to limit the potential for development of disease resistance to this chemical class, it is to limit the potential for development of disease resistance to a product from a different FRAC group.
- To limit the potential for development of disease resistance to this chemical class, it is to limit the potential for development of disease resistance to a product from a different FRAC group.
- chemigation, to limit the potential for development of disease resistance to this chemical class, it is to limit the potential for development of disease resistance to a product from a different FRAC group.



States approved: AL, AR, FL, GA, KS, KY, LA, MO, MS, NC, NM, OK, SC, TN, TX, and VA



Quick Facts



Registered Crops

- | | |
|--|--|
| <ul style="list-style-type: none">• Peanuts• Cotton• Sweet Potatoes• Cucurbit Vegetables• Citrus• Corn
<i>(field and sweet)</i>• Brassica Vegetables• Bulb Vegetables | <ul style="list-style-type: none">• Fruiting Vegetables• Pecans• Caneberries• Bushberries• Strawberries• Tobacco• Soybean*• Stone Fruit |
|--|--|

*Recent addition to label

Key Pests

- | | |
|--|---|
| <ul style="list-style-type: none">• Alternaria Brown Spot• Nematodes• Pink Root• White Mold | <ul style="list-style-type: none">• Leaf Spot• Sclerotinia• Powdery Mildew• Fusarium |
|--|---|

Application Rate

6.5-6.84 oz/A (Peanuts)
3 oz/A (Corn)
5-6.8 oz/A (Cotton)
3-4 oz/A (Soybean)

REI

12 hours

PHI

0 - 30 day, depending on crop

Site-of-Action Group

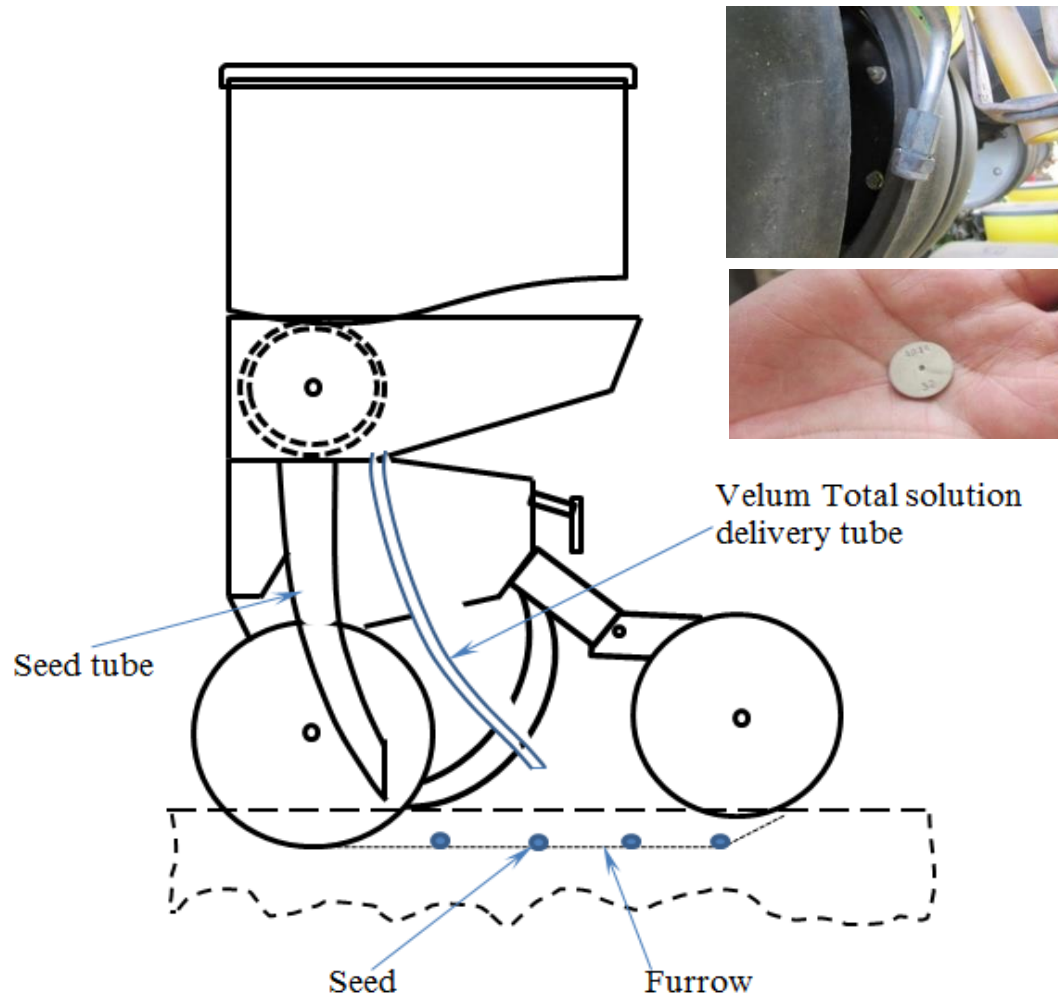
7 Fluopyram

For more information on fungicide group numbers and site-of-action options, visit

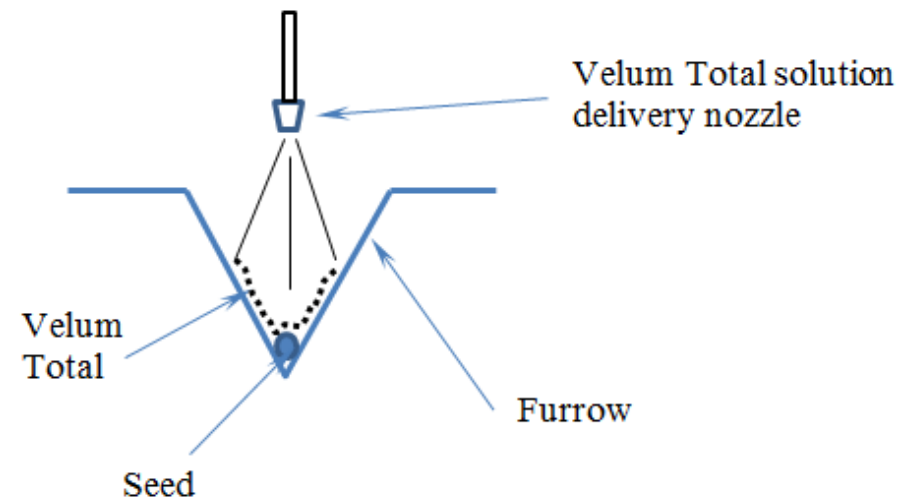
IWillTakeAction.com



In Furrow Spray Application



- Deliver either ahead or behind seed drop
- A constant stream of product tends to work better than a spray tip
- Most growers are using an orifice to regulate flow and let the stream go into row
- All product needs to go in the furrow bottom
- Apply in slurry at 3-5 gallon per acre
- Do not use fertilizer as a carrier





Thank you!

