



syngenta

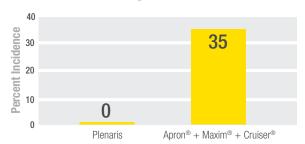
Next-generation seed treatment for downy mildew protection

Plenaris® fungicide is the latest addition to CruiserMaxx® Sunflower, the most comprehensive seed treatment on the market. CruiserMaxx Sunflower with Plenaris, a combination of separately registered products, provides multiple modes of action, delivering the most sustainable, best-performing downy mildew management program in the industry. It also provides the broadest disease and insect protection available to maximize the genetic potential of sunflowers.

Plenaris Benefits

- Provides excellent protection against all downy mildew races
- Outstanding activity on susceptible and resistant sunflower varieties
- Used in combination with Bion® or Dynasty® seed treatments for resistance management and additional control

Enhances Downy Mildew Protection



All Plenaris treatments included a base tratment of Maxim 4FS mg ai/seed + Cruiser 5FS 0.25 mg ai/seed



Plenaris Apron + Maxim + Cruiser

Downy Mildew Disease Profile

- Oomycete (Plasmopara halstedii)
- Infects sunflowers with primary infection in seedling roots
- Water-saturated soils soon after planting favor systemic infection
 - Low-lying areas in fields are most susceptible to infection
 - Infection can lead to large bare spots and/or areas with little to no yield



North Dakota State University Trial, 2014

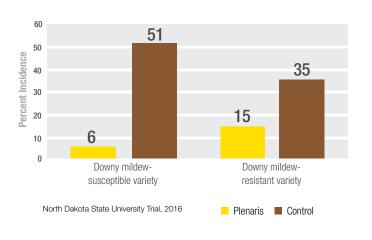
Sunflower systemically infected with P. halstedii



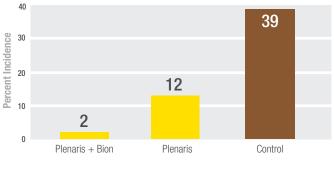
Healthy, non-infected sunflower

Source: Plant Health Progress article: <u>Prevalence and Incidence of Sunflower Downy Mildew in North Dakota Between 2001 and 2011</u>

Protects Susceptible and Resistant Varieties

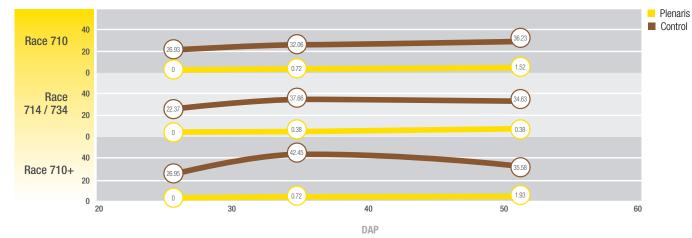


Bion Boosts Level of Control



All Plenaris treatments included a base tratment of Maxim 4FS mg ai/seed + Cruiser 5FS 0.25 mg ai/seed

Controls Key Downy Mildew Races



Race 714/734: virulent on Pl1, Pl2, Pl5 and Pl6 resistance genes; Race 710: virulent on Pl1, Pl2 and Pl5 resistance genes; Race 710+: virulent on Pl1, Pl2, Pl5 and Pl8 resistance genes. North Dakota State University Trial, 2015. Reported as a percentage; systemically infected plants divided by total plants in 25' of plot

Plenaris treatments included a base treatment of Maxim 4FS 0.0025 mg ai/seed + Cruiser 5FS 0.25 mg ai/seed

Technical Attributes

Percent Incidence

 Chemical Group:
 Piperidinyl thiazole isoxazoline
 Registered Crop:
 Sunflower

 Active Ingredient:
 Oxathiapiprolin
 Seed Treatment Use Rate:
 0.0094 mg ai/seed

Total ingrounding mountains of materials of

Mode of Action:....Lipid homeostasis and transfer/storage inhibition; FRAC Group F9. New, no cross resistance.

For more information, visit www.syngenta-us.com/seed-treatment/cruisermaxx-sunflower.





Product performance assumes disease presence. All photos are either the property of Syngenta or are used with permission.