

DuPont™ Kocide® 3000

fungicide/bactericide

Get young wheat plants off to a healthy start

DuPont™ Kocide® 3000 fungicide/bactericide is a proven product formulated with state-of-the-art technology to deliver superior performance against common wheat diseases.

Advanced formulation delivers reliable control and more

- **Improved bioactivity:** Delivers more disease control per pound than any other copper fungicide/bactericide.
- **Favorable environmental profile:** Less metallic copper is applied to your wheat.
- **High-quality, user-friendly DF formulation:** Mixes instantly in water for optimum dispersion.

- **Low foaming:** Makes for easier, more accurate mixing, loading and improved sprayability.
- **High spray-tank stability:** Stays in suspension longer.
- **Increased disease control:** Improved bioactivity, better dispersion and longer residual all add up to make Kocide® 3000 the best copper fungicide your money can buy.

The benefits of an early fungicide/bactericide application

Many diseases start on lower wheat leaves early in the season. Kocide® 3000 provides effective early disease protection against common wheat diseases such as Fusarium head blight*,



Helminthosporium spot blotch, powdery mildew, Stagonospora leaf and glume blotch and stem rust*, getting the young wheat plants off to a healthy start.

* Not registered for use in California.

The added benefits of Kocide® 3000

- Delivers multisite mode of action for consistent, broad-spectrum control.
- Adds 0.225 pounds actual copper/acre.
- Can be tank mixed with DuPont™ Affinity® BroadSpec or Harmony® Extra herbicides for extra efficiency through fewer trips.

Wheat yield and disease efficacy results from spring 2007 fungicide applications

| Treatment | Rate/A | Timing | Leaf spot* % severity | Head scab % severity | Yield (Bu/A) |
|----------------------------------|------------------|-------------|-----------------------|----------------------|--------------|
| Untreated | - | - | 13 a | 16 a | 61 |
| Kocide® 3000 + nonionic adjuvant | 0.75 lb + 0.125% | Jointing | 3.6 bcd | 8.5 b | 71 |
| Quadris 2.08 SC | 11.0 oz | Feekes 10.5 | 5.5 b | 7.5 b | 64 |
| Tilt 4 SC | 4.0 oz | Feekes 10.5 | 5.9 b | 5.4 cd | 58 |
| * Stagonospora leafspot | | | | | |

Results

The jointing application of Kocide® 3000 provided leaf spot and some head scab control. The 10 bushel-per-acre yield increase is significant at an 85 percent confidence level.

Source: Final Report, Evaluation of foliar fungicide treatments for control of winter wheat foliar diseases at Clarksville, Mich., 2007, W. W. Kirk and R. Schafer. Dept. of Plant Pathology, Michigan State University.

Test Data — Girdletree, Maryland

| Treatment | Rate/A | Wet Weight | Factor | (100 moist) | Row Length (ft) | Row Width (in) | # of rows | Dry Yield (bu/A) | Moisture (%) | Test Weight |
|--------------|--------|------------|---------|-------------|-----------------|----------------|-----------|------------------|--------------|-------------|
| Kocide® 3000 | .75 lb | 1250 | 100.716 | 86.1 | 722 | 7.5 | 32 | 62.55 | 13.9 | 61 |
| Untreated | -- | 1050 | 100.716 | 87.8 | 722 | 7.5 | 32 | 53.58 | 12.2 | 59 |
| Kocide® 3000 | .75 lb | 1180 | 100.716 | 87.0 | 736 | 7.5 | 32 | 58.53 | 13.0 | 61 |

Source: Byron and Brad Hauck, Growers, Girdletree, Md., 2007.



Byron and Brad Hauck saw higher test weights and higher yields with Kocide® 3000.

“We sprayed 0.75 pound per acre of Kocide® 3000 on April 9 just before a 2 inch rain. There were no visual differences observed where Kocide® 3000 was sprayed, but when we harvested the wheat, we learned Kocide® 3000 did a lot for us. With two weigh wagon samples, our Kocide® 3000 wheat test weight was two pounds more per bushel, and our yield was 13 percent higher compared to the untreated. We plan to use more Kocide® 3000 next year.”

— Byron and Brad Hauck
Growers
Girdletree, Md.

How to get the best results with Kocide® 3000 on wheat

- Apply Kocide® 3000 alone at 0.5 to 0.75 pound per acre.
- Apply early season and, if desired, again at early heading followed with a second spray 10 days later.

Tank mixes with Affinity® BroadSpec

For improved wheat plant health and weed control in one trip, tank mix in this order and apply:

1. DuPont™ Affinity® BroadSpec herbicide with TotalSol® soluble granules at 0.4 to 1.0 ounce per acre (let product mix for one minute to dissolve into a clear true solution).
2. Add Kocide® 3000 at 0.75 pound per acre.
3. Add non-ionic surfactant at 1 quart/100 gallon (0.25% v/v).

Apply after the crop is in the 2-leaf stage, but before the flag leaf is visible.

Tank mixes with DuPont™ Harmony® Extra SG herbicide

Depending on the weed pressure in your area, Kocide® 3000 also can be used in a tank mix with DuPont™ Harmony® Extra SG herbicide with TotalSol® soluble

granules. For disease and weed control in one trip, tank mix in this order and apply:

1. Harmony® Extra SG herbicide with TotalSol® soluble granules at a rate of 0.45 to 0.9 ounce per acre. If you are familiar with DuPont™ Harmony® Extra XP herbicide, refer to the conversion table that follows.
2. Add Kocide® 3000 at the rate of 0.75 pound per acre.
3. Add non-ionic surfactant at 1 quart/100 gallon (0.25% v/v)

Apply after the crop is in the 2-leaf stage, but before the flag leaf is visible.

| Rate Conversion: Harmony® Extra XP to New Harmony® Extra SG with TotalSol® soluble granules. | |
|--|---|
| Harmony® Extra XP rate (oz/A) x 1.5 | = Harmony® Extra SG with TotalSol® soluble granules rate (oz/A) |
| 0.3 x 1.5 | = 0.45 |
| 0.4 x 1.5 | = 0.60 |
| 0.5 x 1.5 | = 0.75 |
| 0.6 x 1.5 | = 0.90 |

Mixing Instructions for Kocide® 3000 and liquid N fertilizer:

1. Add Kocide® 3000 to clean water and agitate continuously until all of the Kocide® 3000 is dissolved. (This may take three

to five minutes depending on water temperature.) Up to 1 pound of Kocide® 3000 per gallon of water may be used.

2. Add the water with the Kocide® 3000 to liquid nitrogen fertilizer while the fertilizer is being agitated vigorously. Agitate the mixture at least 3 minutes. It is preferable to add the water to the fertilizer through an inductor rather than from the top of the tank so the difference in density is overcome more rapidly.

If applying liquid nitrogen as part of the tank mix, add the nitrogen just prior to NIS and reduce the NIS to 0.125% v/v.

Always check for compatibility before mixing.

For more information

Get young wheat off to a healthy start with DuPont™ Kocide® 3000 fungicide/bactericide. Contact your local DuPont crop protection retailer or DuPont representative for more information.

Please refer to the product label for detailed mixing and application instructions. And visit us on the Web at kocide.dupont.com.

This reference guide is not intended as a substitute for the product label for the product(s) referenced herein. Product labels for the above product(s) contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank mix combinations.

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