



Overview of Onion D=Dry Bulb or G=Green Bunching

Fungicide Roster

<http://vegetablemdonline.ppath.cornell.edu> for more updates (underlined = labeled in NYS).

[FRAC No. Product DTH] T. A. Zitter, MAY 2012

Systemic fungicides are in **Bold**, Protectants are listed first in upper left corner. (Seasonal limits given).

Protectants/Mixing Partners/Alternating (Field diseases listed)

- M⁵ (*chlorothalonil*)⁷ Dry or 14Gr. = Bravo WS (20 pts. Dry & Garlic); (limit 9 pts. Gr., Leek, Shallots); Ultrax, ZN, Chlorothalonil 720, Equus, Echo, Initiate 720 (BLB, Neck rot, Pur Blh, DM) (see label for rest of limits)
- M³ (*mancozeb*)⁷ Dry = Dithane DF (30 lbs.), Manzate Pro-Stick (30 lbs.), Penncozeb 75DF (32 lbs.) (BLB, Neck rot, DM, Pur Blh, Smut)
- M³ + M¹ (*mancozeb + copper hydroxide*)⁷ Dry only = ManKocide (20 lbs.) (BLB, DM, Pur Blh, Bac Blt)
- M¹ *fixed copper*⁰ Dry, Gr. = Badge SC, Badge X₂, OMRI, Basic Copper Sulfate & 53, OMRI, Champ WG, OMRI & Dry Prill, Cueva, OMRI, C-O-C-S, Kentan DF, Kocide 101, 2000, 3000, Cuprofix Ultra40 Disperss, Mastercop, Nordox 75WB, OMRI, Nu-Cop 50WP, OMRI, 3L, HB, (Bac. Blt., DM, Pur. Blh.) (see newer labels for limits)
- M² *sulfur*⁰ Dry, Gr. = Kumulus, OMRI, Microthiol Disperss, OMRI, Micro Sulf, OMRI, Microfine, Sulfur 6L, That, (PM, mites)
- M (*Bacillus subtilis*)⁰ Dry, Gr., OMRI = Serenade MAX, Rhapsody (BLB, Neck rot, Pur Blh, DM, Rust)
- M (*Bacillus pumilis*)⁰ Dry, Gr., OMRI = Sonata (DM, Rust)
- M Oxidate⁰ Dry, Gr., OMRI (*hydrogen peroxide*) (Botrytis, DM)

Group 11 Strobilurins (QoI) and “like”

- ¹¹ Quadris⁰ Dry, Gr., (*azoxystrobin*) (92.3 fl oz) Quadris Opti⁷ Dry or 14Gr. (*azoxystrobin + chlorothalonil*) (see label) (DM, Pur Blh, BLB, Rhiz, Rust, Wh. rot)
- ¹¹ Cabrio⁷ Dry, Gr. (*pyraclostrobin*) (72 oz) (Pur Blh, Stemph, Rust, DM, BLB suppression)
- *†¹¹ Reason⁷ Dry, Gr. (*fenamidone*) (22 fl oz) (DM, Pur Blh)
- ¹¹ + ⁷ Pristine⁷ Dry, Gr. (*pyraclostrobin + boscalid*) (111 oz.) (BLB, Neck rot, Pur Blh, Stemph, DM)

Additional Specific Chemistry

- ³⁺⁹ Inspire Super⁷ Dry, 14Gr. (*difenoconazole + cyprodinil*) (80 fl oz Dry; 60 fl oz Gr.) (PM, Pur Blh, Stemph, Botrytis LB, suppression. of Black mold)
- ⁷ Endura⁷ Dry, Gr. (*boscalid*) (41 oz.) (BLB, Pur Blh)
- ⁹ Scala⁷ Dry, Gr. (*pyrimethanil*) (54 fl oz.) (BLB, Neck rot, Pur Blh)
- ² Rovral 4F⁷ Dry only (*iprodione*) (limit applic.) (BLB, Pur Blh, Neck rot, Stemph)
- ⁹ Vanguard WG⁷ Dry, Gr. (*cyprodinil*) (28 oz.) BLB, Suppr. Neck rot, Pur Blh)
- ⁹ + ¹² Switch⁷ Dry, Gr. (*cyprodinil + fludioxonil*) (limit 56 oz) (BLB, Pur Blh)
- ³ Tilt¹⁴ Dry or 0Gr. (*propiconazole*) (16 fl oz) (Pur. Blh, suppression of BLB)
- ³ PropiMax¹⁴ Dry or 0Gr. (*propiconazole*) (16 fl oz) (Suppression BLB, Pur. Blh.)
- ¹ Topsin M 70WDG, 70WP, WSB⁰ Dry, G as IF trt. T-M 4.5F, 85WDG (*thiophanate methyl*) (limits on label) (Wh rot)
- ⁷ Fontelis³ (*penthiopyrad*) (limit 72 fl oz) (BLB, Neck Rot, Pur. Blth., Stemph.)

Downy Mildew & DM Plus

- *⁴³ Presidio² Dry or Gr.™ (*fluopicolide*) (4 applic./12 fl oz, tank-mixed) (DM)
- ⁴⁰ Forum⁰ Dry or Gr. (*dimethomorph*) (30 fl oz) (DM)
- ³³ Aliette⁷ Dry (*fosetyl-AI*) (7 applic.) (DM, Pur Blh)
- M⁵ + ³³ Catamaran^{dry 7, Gr. 14} (see label) (BLB, Pur Blh, DM)
- ³³ Agri-Fos⁰ Dry, Gr. *Fosphite; Fungi-Phite (suppre. bacterial dis), *Kphite 7LP, Phostrol, Rampart (Bac.), *Resist 57 (*phosphorous acid*) (all for DM)
- ³³ ProPhyt⁰ Dry, Gr. (DM, Pur Blh)
- M Prev-Am⁰ Dry, Gr. (*borax*) (DM)
- ⁴⁰ Revus⁷ Dry, Gr. (*mandipropamid*) (32 fl oz Dry; 24 fl oz Gr.) (DM)
- ⁴ + M⁵ Ridomil Gold Bravo⁷ Dry or 14Gr. (*mefenoxam + chlorothalonil*) (limits on label) (DM, BLB, Pur Blh)
- ⁴ + M¹ Ridomil Gold Cu¹⁰ Dry or r7Gr. (DM)
- ⁴ + M³ Ridomil Gold MZ⁷ Dry only, also Garlic (DM)

Additional Oomycetes (Pythium)

- ⁴ Ridomil Gold¹⁰, G Incorporate (*mefenoxam*) (Pythium)

OMRI Listed Products (all M = multi-site activity)

- M¹, Basic Copper 53⁰, Badge X₂, Champ WG⁰, Cueva, Nordox 75WB⁰, Nu-Cop 50WP⁰ (see label for specific diseases or see above listings) (*coppers*)
- Bio. T-22 HC⁰ (*Trichoderma*) (Soilborne pathogens)
- Bio. Contans⁰ (*Coniothyrium*) (White mold)
- M Kaligreen¹ (PM only) (*K bicarbonate*)
- M MilStop⁰ (not specifically labeled on onion (PM, DM?))
- SAR Regalia EC⁰ (*Reynoutria*), (see label)
- M Oxidate⁰ (*Hydrogen peroxide*)
- Bio Rhapsody⁰ (*Bacillus subtilis*)
- Bio Serenade MAX⁰ (*Bacillus subtilis*)
- Bio Sonata⁰ (*Bacillus pumilis*)
- M² Kumulus⁰, Micro Sulf⁰, Microthiol Disperss⁰ (*Sulfur*) (PM)

* Restricted to commercial applicator; † not for use on Long Island; TM = Tank Mix required. Every effort has been made to provide correct, complete, and up-to-date information at the time of this presentation/publication. Trade names used are for convenience only. No endorsement of products intended, nor is criticism of unnamed products implied. These recommendations are not a substitute for pesticide labeling. Always read the product label before applying any pesticide.