



Overview of Cucurbit Fungicide Roster See:
<http://vegetablemdonline.ppath.cornell.edu>
for more updates (underlined = labeled in
NYS) [**FRAC No. 40** **Product** **4DTH**]

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Systemic fungicides are in **BOLD**, **Protectants**
are listed first. Fungicides are for use on **all**
cucurbits unless otherwise noted.

Protectants/Mixing Partners (Diseases listed
on label or by 2ee)

- ^{M5} *chlorothalonil*⁰ (limits see labels)
[Bravo WS & Ultrex (**Plectosporium**
2ee), Equus DF, Echo 720] (these are
given first since they have the most
complete labels for all vegetables); also
Bravo Zn, Chloro. 720, Initiate 720 &
Zn; Equus 720 & Zn; Echo 90DF (An,
Alt LB, DM, GSB, **Scab**, PM)
^{M3} *mancozeb*⁵ (limits see labels) Dithane
M45 (includes **Plectosporium** but called
Microdochium), DF, F-45; Manzate
Pro-Stick, Penncozeb 4FL, 75DF,
80WP, Roper DF (**Plectosporium** but
called **Microdochium**) (An, Alt LB,
DM, GSB, **Scab**)
- ^{M1} *fixed copper*⁰ (see limits now set on
newer labels) Badge SC, Badge X₂ ^{OMRI},
Basic Copper Sulfate & 53 ^{OMRI}, Champ
WG ^{OMRI} & Dry Prill & Formula 2, C-
O-C-S, Camelot O ^{OMRI} Cueva ^{OMRI},
Cuprofix, Kentan DF, Kocide 101,
2000, 3000, Mastercop, Nordox 75WG,
^{OMRI}, Nu-Cop 50WP ^{OMRI}, 3L, HB,
(AngLS, An, Alt, DM, PM, GSB, **Scab**
per label, and by 2ee PhyBlt). Also
ManKocide (limit 24 lb) (for AngLS,
AltLS, DM, PM, GSB, **Scab**, 2ee
PhyBlt)
- ^{Bio} *Bacillus subtilis*⁰ = Serenade MAX
(PM, GSB, DM), or Rhapsody AS^{0,both}
^{OMRI}
- ^{Bio} *Bacillus pumilus*^{0,OMRI} = Sonata
(PM, DM)
- ^M *K bicarbonate*^{0or1,OMRI} = Ecomate
Armicarb O, MilStop, Kaligreen¹ (PM)

- ^{M2} *sulfur*⁰ = Kumulus ^{OMRI}, Micro Sulf
^{OMRI}, Microthiol Dispers ^{OMRI}, Sulfur
6L, That F Sulfur (PM)

Group 11 Strobilurins and others

(*Strobilurins* = Translaminar, are no longer
effective for *PM*, because of widespread
resistance, and should not be relied upon for
DM or *GSB* either)

- ¹¹ *Quadris*¹ (limit 92.3 fl oz)
(azoxystrobin) (**Plecto**)
- ^{11+M5} *Quadris Opti*¹ (limits see label)
(azoxystrobin + chlorothalonil)
- ¹¹⁺³ *Quadris Top*¹ (azoxystrobin +
difenoconazole) (limit 56 fl oz) (**Alt L**
Blt, Anth, Belly rot, Plecto, *PM*,
DM*, *GSB)
- ¹¹ *Flint*⁰ (*trifloxystrobin*) (limit 16 oz)
(*PM*, *DM*, **Plectosporium**)
- ¹¹ *Cabrio*⁰ (*pyraclostrobin*) (limit 64 oz)
(**Alt L Blight, Anth, Plectosporium,**
PM*, *DM*, *GSB)
- ¹¹ *Sovran*⁰ (*kresoxim-methyl*) (limit 4
appl.) (*PM*, *GSB*)
- *†¹¹ *Reason*¹⁴ (*fenamidone*) (limit 22 fl
oz) (**Alt LB, *DM***)
- ¹¹⁺²⁷ *Tanos*³ (*famoxadone + cymoxanil*)
(limit 72 oz) (**Alt L. Blt., Anth, DM**)

PM Preferred Sprays – “USED Preventatively”

- ¹³ *Quintec*³ (*quinoxifen*) (see label limits
fl oz) (**Winter squash, Pumpkin,**
Gourds, Melons, Wmelons only) (for
PM only)
- ³ *Rally*⁰ (*myclobutanil*) (limit 1.5 lb)
(*PM* **Resistance concern, use highest
rate**)
- ³ *Procure*⁰ (*triflumizole*) (limit 40 fl
oz) (*PM* **Resistance concern, use
highest rate**)
- ^{U6} *Torino*⁰ (*cyflufenamid*) (PM, all
cucurbits) (limit to 2 applic/yr.)
- ¹¹⁺⁷ *Pristine*⁰ (*pyraclostrobin* +
boscalid) (limit 74 oz) (**Alt L. Blt,**
Anth, *PM*, *DM*, *GSB*)
- ^{M2} *Sulfurs*⁰ (limits) (**Kumulus** ^{OMRI},
Microthiol Dispers ^{OMRI}, **Micro Sulf**
^{OMRI} **Sulfur 6L, That**) (PM)



- ^M Armcarb⁰, MilStop⁰, OMRI, Kaligreen¹, OMRI (PM)
- ^M Trilogy⁰, OMRI (neem oil), (PM)
- ^M Mineral oils⁰ (JMS Stylet Oil OMRI) (PM)

PM Alternative Sprays & Multiple Disease Control

- ³⁺⁹ Inspire Super⁷ (*difenoconazole + cyprodinil*) (limit 80 fl oz) (PM, Alt, GSB, Septoria, Anthrac, Plectosporium)
- ⁹⁺¹² Switch 62.5WG¹ (*cyprodinil + fludioxonil*) (limit 56 oz) (Not on LI; only there for Onions and Strawberries) (Alt LB, GSB, PM)
- ⁷ Endura⁰ (*boscalid*) (limit 26 oz) (Alt LB, GSB, Res PM and Suppr. only)
- ¹⁺ Prot Topsin M¹ (OLP) (limits 2 lbs.) tank-mix with protect. (*PM*, *GSB*, Anth, Belly rots (Rhiz and Fus))
- ⁷ Fontelis¹ (*penhiopyrad*) (limit 67 fl oz) (PM, Altn, GSG, Sclerotinia stem rot)
- ⁷⁺³ Luna Experience⁷ (*fluopyram + tebuconazole*) (limit 34 fl oz) (PM, Altern LS, GSB, Belly rot, Anthracnose)
- ⁷ Luna Privilege⁰ (*fluopyram*) (limit 13.7 fl oz) (PM, GSB, Gray mold, Altern LS)
- ⁷⁺¹¹ Luna Sensation⁰ (*fluopyram + trifloxystrobin*) (limit 27.1 fl oz) (PM, Gray mold, Altern. LS, Anth)

DM and Phytophthora Options (# = DM used “preventatively” or & = use “after disease is present”)

- ^{*22+M3} #Gavel 75 DF⁵ (limit 16 lbs.) (*zoxamide + mancozeb*), (Alt LS, DM, Fruit & Stem rot) (all cucurbits)
- ^{*43} #&Presidio² (limit 12 fl oz) (*fluopicolide*) (DM, Phytoph. Blt)
- ^{*28} #&Previcur Flex² (limit 6 pts) (*propamocarb + protectant*), (DM, Pythium root rots)
- ²¹ #&Ranman⁰ (limit 16.5 fl oz) (*cyazofamid*), (DM, Phytoph.)
- ¹¹⁺²⁷ #&Tanos³ (*famoxadone + cymoxanil*) (limit 72 oz) (Alt LB, An, DM, Phytoph blt)
- ⁴⁵⁺⁴⁰ Zampro¹ (*ametocradin + dimethomorph*) (DM and Phytoph blight)

Others listed for DM and/or Phytophthora

- ²⁷ Curzate 60DF³ with protectant (DM)

- ^{M5+33} Catamaran¹ (*phosphoric acid + chlorothalonil*) (limit 50 pts.) (An, DM, GSB, Altern LS, Scab)
- ⁴⁰ Revus⁰ (*mandipropamid*) (limit 32 fl oz) (Suppression only for both DM and Phytop blight)
- ⁴⁰ Forum⁰ (*dimethomorph*) (limit 30 fl oz), (DM, Phytoph)
- ³³ Aliette^{12hrs} (*fosetyl-Al*) (limit 7 applic) (DM, Phytoph)
- ^{*†11} Reason¹⁴ (*fenamidone*), (limit 22 fl oz) (*DM*-only)
- ^{4+M5} Ridomil Gold Bravo⁰ (limit see label) (*DM* resistance concern)
- ³³ Agri-Fos⁰, *Fosphite; Fungi-Phite, *Kphite, Phostrol, ProPhyt, Rampart, *Resist 57 (*phosphorous acid*) (limits see labels) (DM, Phytophthora)
- ^M Prev-Am⁰ (*borax*) (DM)

Scab Products on labels

- ^{M5} Bravo⁰ or OLP (limits see labels)
- ^{M1} some coppers⁰, OMRI
- ManKocide (limit 24 lb)
- ^{M3} mancozeb⁵ (limits see labels)
- ^{4+M5} Ridomil Gold Bravo⁰ (limits see label)

OTHER Products (Pythium, White mold)

- ⁴ Ridomil Gold⁰, ⁴ Twist⁰, Ultra Flourish (*mefenoxam*) (see limits on label), (Pythium root rot)
- ^{Bio.} Contans⁰ (*Coniothyrium*) (White mold)

GREENHOUSE Usage (Specified on label)

- ^{Bio} Actinovate SP⁰ OMRI (*S. lydicus*) Gr Hs drench or foliar application (Soilborne fungi and foliar fungi); ^{Bio} Actino-Iron OMRI (for soilborne fungi in Gr. Hs. potting mix)
- ^{*28} Previcur Flex⁰ (*propamocarb + protectant*), (*Pythium, Phytoph* see label)
- ³ Procure⁰ (*triflumizole*) (all) PM
- ¹⁷ Decree⁰ (*fenhexamid*) (Cucumber only) (Gray mold)
- ^{Bio} Serenade MAX⁰, OMRI (PM, GSB, DM)
- ^{Bio} Sonata⁰, OMRI (PM, DM)
- ^{Bio} Rhapsody AS⁰, OMRI (PM)



- ^M Amicarb⁰, Milstop⁰, ^{OMRI} Kaligreen¹, ^{OMRI} (PM)
- ^M M-Pede⁰, ^{OMRI} (*K salts of fatty acids*), (PM)
- ^{MI} Badge SC, Badge X₂, ^{OMRI}, Champ WG, ^{OMRI}, also Dry Prill & Formula 2F (assorted dis.), C-O-C-S WDG, Cueva, Cuprofix Ultra, Kentan DF, Kocide (assorted dis.), Nordox 75WB, Nu-Cop 50WP, ^{OMRI}.
- ^{Bio} PlantShield⁰, ^{OMRI} (*T. harzianum*), (soil fungi); RootShield Granules ^{OMRI} Hydroponic Cucumber.
- ^M JMS Stylet Oil⁰, ^{OMRI} (PM, insects)

Silver = chlorothalonils; Green = fixed coppers; * Restricted to registered applicators; † Not for use on Long Island. 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.

Current OMRI Listed Products & Reg. In NYS

- ^{Bio} Actinovate AG, SP⁰ (*Streptomyces lydicus*) Soilborne: (*Pythium*, *Rhizoctonia*, *Phytophthora*, *Fusarium*, *Verticillium*); Foliar: (PM, *Botrytis*, *Alternaria*)
- ^{Bio} Actino-Iron⁰ (*S. lydicus*) Biological soil additive
- ^{MI} Badge X₂⁰, Champ WG, Camelot O, Cueva, Nordox 75WG, Nu Cop 50DF (coppers)
- ^{Bio} Mycostop⁰ (*S. griseoviridis*) (root dis.)
- ^{SAR} Regalia EC⁰ (*Reynoutria*), (PM)
- ^M M-Pede⁰ (soap, PM); Trilogy⁰ (*neem*), (PM, DM)
- ^M MilStop⁰, Kaligreen¹ (*K bicarbonate*) (PM)
- ^{M2} Kumulus DF⁰, Microthiol Dis (all for PM) (*sulfur*)
- ^M Oxidate⁰ (*hydrogen peroxide*)
- ^{Bio} Rhapsody AS⁰; Serenade ASO and MAX, Cease (*Bacillus subtilis*), Sonata (*Bacillus pumilus*)
- ^M Organic JMS Stylet Oil⁰ (*mineral oil*, PM, white flies)
- ^{Bio} T-22 HC PlantShield⁰, RootShield (*Trichoderma*)
- ^{Bio} Contans⁰ (*Coniothyrium*) (White mold)

KEY: Orange = Sulfurs; Violet = Group 11 strobilurins; Blue = phosphorous acid salts;