Overview of Cucurbit Fungicide Roster See: http://vegetablemdonline.ppath.cornell.edu for more updates (underlined = labeled in NYS) [FRAC No. 45 Product OMRI]

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)
- **M1** fixed copper\(^0\) (see limits now set on newer labels) Badge SC, Badge X, Basic Copper Sulfate & \(^\leq\) OMRI Champ WG \(\geq\) OMRI & Dry Prill & Formula 2, C-O-C-S, Camelot O \(\geq\) 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\(^0\), OMRI = Serenade MAX (PM, GSB, DM), or Rhapsody AS\(^0\), both OMRI
- Bio Bacillus pumilus\(^0\), OMRI = Sonata (PM, DM)
- **M K bicarbonate**\(^0\), OMRI = Ecomate Armicarb O, MilStop, Kaligreen \(\geq\) (PM)

Group 11 Strobilurins and others (Strobilurins = Translaminar, are no longer effective for \(\geq\) DM\(^\ast\) or \(\geq\) GSB\(^\ast\) either)
- \(^{11}\) Quadris\(^0\) (limit 92.3 fl oz) (azoxyvinobutrol (Plecto)
- \(^{11+M5}\) Quadris Opti\(^1\) (limits see label) (azoxyvinobutrol + chlorothalonil)
- \(^{11+M3}\) Quadris Top\(^=\) (azoxyvinobutrol + difenoconazole) (limit 56 fl oz) (Alt LB Blt, Anth, Belly rot, Plecto, \(\geq\) DM\(^\ast\), \(\geq\) GSB\(^\ast\))
- \(^{11}\) Flint\(^0\) (trifloxystrobin) (limit 16 oz) (\(\geq\) PM\(^\ast\), \(\geq\) DM\(^\ast\), Plectosporium)
- \(^{11}\) Cabrio\(^0\) (pyraclostrobin) (limit 64 oz) (Alt L Blight, Anth, Plectosporium, \(\geq\) PM\(^\ast\), \(\geq\) DM\(^\ast\), \(\geq\) GSB\(^\ast\))
- \(^{11}\) Sovran\(^0\) (kresoxim-methyl) (limit 4 appl.) (\(\geq\) PM\(^\ast\), \(\geq\) GSB\(^\ast\))
- \(^{11+11}\) Reason\(^=\) (fenamidone) (limit 22 fl oz) (Alt LB, \(\geq\) DM\(^\ast\))
- \(^{11+27}\) Tanos\(^3\) (famoxadone + cymoxanil) (limit 72 oz) (Alt L. Blt., Anth, DM)

PM Preferred Sprays – “USED Preventatively”
- \(^{13}\) Quintec\(^3\) (quinxyoxylen) (see label limits fl oz) (Winter squash, Pumpkin, Gourds, Melons, Wmelons only) (for PM only)
- \(^3\) Rally\(^0\) (myclobutanil) (limit 1.5 lb) \(\geq\) Resistance concern, use highest rate)
- \(^3\) Procure\(^0\) (triflumizole) (limit 40 fl oz) \(\geq\) Resistance concern, use highest rate)
- \(^{16}\) Torino\(^0\) (cyflufenamid) (PM, all cucurbits) (limit to 2 applic/yr.)
- \(^{11+7}\) Pristine\(^0\) (pyraclostrobin + boscalid) (limit 74 oz) (Alt L. Blt, Anth, \(\geq\) PM\(^\ast\), \(\geq\) DM\(^\ast\), \(\geq\) GSB\(^\ast\))
- **M2** Sulfars\(^0\) (limits) (Kumulus OMRI, Microthiol Disperss OMRI, Sulfur 6L, That F Sulfur (PM)}


DM and Phytophthora Options (# = DM used "preventatively" or & = use "after disease is present")
- **22 + M3** #Gavel 75 DF 5 (limit 16 lbs.) (zoxamide + mancozeb), (Alt LS, DM, Fruit & stem rot) (*all cucurbits*)
- **43** #& Presidio 2 (limit 12 fl oz) (fluopicolide) (DM, Phytoph. Blt)
- **28** #& Previcur Flex 2 (limit 6 pts) (propanocarb + protectant), (DM, Pythium root rots)
- **21** #& Ranman 0 (limit 16.5 fl oz) (cyazofamid), (DM, Phytoph.)
- **11 + 27** #& Tanos 3 (famoxadone + cymoxanil) (limit 72 oz) (Alt LB, An, DM, Phytoph blt)
- **45 + 60** Zampro 1 (ametoctradin + dimethomorph) (DM and Phytoph blight)

Others listed for DM and/or Phytophthora
- **27** Curzate 60DF 3 with protectant (DM)

PM Alternative Sprays & Multiple Disease Control
- **3 + 9** Inspire Super 2 (difenconazole + cyprodinil) (limit 80 fl oz) (PM, Alt, GSB, Septoria, Anthrac, Plectosporium)
- **9 + 12** Switch 62.5WG 1 (cyprodinil + fludioxonil) (limit 56 oz) (Not on LI; only there for Onions and Strawberries) (Alt LB, GSB, PM)
- **7** Endura 0 (boscalid) (limit 26 oz) (Alt LB, GSB, Res PM and Suppr. only)
- **1** # Prom Tospin M 1 (OLP) (limits 2 lbs.) tank-mix with protect. (#PM, #GSB, Anth, Belly rots (Rhiz, Fus), GSB, PM)
- **7** Fontelt 1 (penthiopyrad) (limit 67 fl oz) (PM, GSB, Sclerotinia stem rot)
- **7 + 1** Luna Experience 1 (fluopyram + tebuconazole) (limit 34 fl oz) (PM, Altern LS), (PM, GSB, Belly rot, Anthracose)
- **1** # Luna Privilege 2 (fluopyram) (limit 2.7 fl oz) (PM, GSB, Gray mold, Altern LS)
- **7** Luna Sensation 1 (fluopyram + trifloxystrobin) (limit 27.1 fl oz) (PM, Gray mold, Altern. LS, Anth)

Scab Products on labels
- **M5** Bravo 1 or OLP (limits see labels)
- **M1** some coppers 0, OMRI
- **M5** ManKocide (limit 24 lb)
- **M3** mancozeb 5 (limits see labels)
- **4 + M5** Ridomil Gold Bravo 0 (limits see label) (*DM* resistance concern)

OTHER Products (Pythium, White mold)
- **1** Ridomil Gold 4, **4** Twist 0, **Ultra Flourish** (mefenoxam) (see limits on label), (Pythium root rot)
- **Bio** Contans 0 (Coniothyrium) (White mold)

GREENHOUSE Usage (Specified on label)
- **Bio** Actinovate SP 0 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 Flex 0 (propanocarb + protectant), (Pythium, Phytoph see label)
- **3** Procure 0 (triflumizole) (all) PM
- **17** Decree 0 (fenhexamid) (Cucumber only) (Gray mold)
- **Bio** Serenade MAX 0 OMRI (PM, GSB, DM)
- **Bio** Sonata 9, OMRI (PM, DM)
- **Bio** Rhapsody AS 0 OMRI (PM)

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- **M** Armicarb\(^0\), Milstop\(^0\) OMRI Kaligreen\(^1\),
  OMRI (PM)
- **M** M-Pede\(^0\) OMRI (K salts of fatty acids),
  (PM)
- **M** 1 Badge SC, Badge X\(^2\) 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.
- **B** Bio PlantShield\(^0\), OMRI (T. harzianum),
  (soil fungi); RootShield Granules OMRI
  Hydroponic Cucumber.
- **M** JMS Stylet Oil\(^0\) OMRI (PM, insects)

**Current OMRI Listed Products & Reg. In NYS**

- **B** Bio Actinovate AG, Sp\(^0\) (Steptomyces
  lydicus) Soilborne: (Pythium,
  Rhizoctonia, Phytophthora, Fusarium,
  Verticillium); Foliar: (PM, Botrytis,
  Alternaria)
- **B** Bio Actino-Iron\(^0\) (S. lydicus) Biological
  soil additive
- **M** 1 Badge X\(^2\), Champ WG, Camelot O,
  Cueva, Nordox 75WG, Nu Cop 50DF
  (coppers)
- **B** Bio Mycostop\(^0\) (S. griseoviridis) (root
  dis.)
- **SAR** Regalia EC\(^0\) (Reynoutria), (PM)
- **M** M-Pede\(^0\) (soap, PM); Trilogy\(^0\)
  (neem), (PM, DM)
- **M** MilStop\(^0\), Kaligreen\(^1\) (K bicarbonate)
  (PM)
- **M** 2 Kumulus DF\(^0\), Microthiol Dis (all for
  PM) (sulfur)
- **M** Oxidate\(^0\) (hydrogen peroxide)
- **B** Bio Rhapsody AS\(^0\); Serenade ASO and
  MAX, Cease (Bacillus subtilis),
  Sonata (Bacillus pumilus)
- **M** Organic JMS Stylet Oil\(^0\) (mineral oil,
  PM, white flies)
- **B** Bio T-22 HC PlantShield\(^0\), RootShield
  (Trichoderma)
- **B** Bio Contans\(^0\) (Coniothyrium) (White
  mold)

**KEY:** Orange = Sulfurs; Violet = Group 11
strobilurins; Blue = phosphorous acid salts;
Silver = chlorothalonil; Green = fixed
coppers; * Restricted to registered
applicators; †Not for use on Long Island.

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