Overview of Tomato (T), Eggplant (E) and Pepper (P) Fungicide Roster with [No Product](#)

See: [http://vegetablemdonline.ppath.cornell.edu](http://vegetablemdonline.ppath.cornell.edu) for more updates (underlined = labeled for NYS). T. A. Zitter, NOV 2013. (fungicide limit given is per season); Systemic fungicides are in **BOLD**. Protectants are listed first in upper left corner.

**Protectants/Mixing Partners/Alternating (Field diseases listed)**

**M5** chlorthalonil 0 M5 T, E, P Bravo Weather Stik, Bravo Ultrex, Equus DF & Echo 720 are complete for all three crops (see limits on label), others T only Bravo Zn, Chlorthalonil 720, Initiate 720 and Zn, Equus 720 and 500 Zn, and Echo 720 (Foliage. An, EB, LB, Gray leaf mold, and Septoria) (Fruit Alt Blk mold, Botrytis mold, Rhiz.)

- **T** M3 mancozeb=MZ 5 = *Dithane DF Rain Shield (limit 22.4 lbs.), Manzate Pro-Stick (22.4 lbs.), Penncozeb 4FL (16.8 qts.) Roper DF (limit 22.4 lb) or OLF (An, EB, LB, Leaf mold, Septoria, Bac speck and spot)
- **T** M3 ziram 7 = Ziram or Zir. Granuflo (An, EB, Sept.) (limit of 24 lb/sea.)
- **TEP** M1 copper, varies 0 = Badge SC, Badge X, Basic Copper Sulfate & Zn, Champ 2F, Dry Prill, WG, C-O-C-S WDG, Cueva OMRI Cuprofix Ultra 40 Disperss, Kentan DF, Kocide (ex 3000), Mastercop, Nordox 75WB OMRI Nu-Cop 50WP OMRI, 3L, HB (Anth, Bac Speck, Spot, EB, Septoria LS, see label)
- Also **T** only M1+M3 ManKocide 5 (copper hydroxide + MZ)
- **TEP** Bio(44) Serenade MAX or ASO 0 or Cease OMRI (Bacillus subtilis) (EB, LB, PM, Gray mold, Bac Spot, Speck); *Bacillus pumilis* 0 = Sonata 0 OMRI (Bac Spot, PM, EB, LB); BioSerenade Soil 0 OMRI (soilborne fungi)
- **TEP** M K bicarbonate = Armicarb 0, Kaligreen 1 OMRI, MilStop 0 OMRI (PM)
- **TP** M Oxidate 0 OMRI (hydrogen peroxide) (Bac speck & spot seed); SAR Regalia EC 0 OMRI, (Multi dis.)

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**2014 Tomato, Eggplant, Pepper Fungicide Roster for NYS**

- **M2** Sulfur 0 = Micro Sulf OMRI, That, Microthiol Dispers OMRI, Kumulus DF OMRI, Sulfur 6L (PM or mites, see label)

**Group 11 Strobilurins (QoI) and “like”**

**Because of EB resistance to Strobilurins in NYS (and elsewhere) consider the next 6 products as combination sprays:**

- **T** 11 + **M5** Quadris Opti 0 (limit 15 lbs. a.i.) (azoxystrobin + chlorothalonil) (AN, Buckeye, EB, PM (Oidiopsis), Sep., LB).
- **TEP** 11+3 Quadris Top 0 (limit 47 fl oz) (T=EB, Blk Mold, PM, Sept LS, Anth, Leaf mold); (E, P=Anth, Cer LS, Gray LS, PM).
- **11 + 7** TEP Cabrio + Endura 0
- **TP** 11+1 Prof Tanos 0 (limit of 72 oz) tank-mixed with protectant Varies
- **T22** + **M3** Gavel 5 (zoxamide + mancozeb) (limit 16 lbs.)
- **TEP** 11Flint 3 ( trifloxystrobin) (limit 16 oz) (EB tank mix LB, Sept.)
- **TEP** 1 Cabrio 0 (pyraclostrobin) (limit 96 oz) (EB tank mix AN, Alt Bk. Mold, EB, LB, Sept, Botrytis mold suppression
- **TP** 11 Tanos 3 or longer (flumioxazin + cyoxanil) (limit 72 oz) needs to be tank-mix (AN, EB ok when tank mixed), Leaf mold, LB, Sept, suppression of Bac. Spot, Speck, Canker, and Buckeye) *† T 11 Reason 14 (fenamidone) (limit 24.6 fl oz) (EB tank mix, LB, Sept. LS suppression) († Not for use on Long Island)
- **TEP** 11Evito 3 (fluoxastrobin) (limit to 22.8 fl oz) Not registered

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**Multiple Disease Control**

- **TEP** 11+3 Quadris Top 0 (azoxystrobin + difenoconazole) (47 fl oz limit) (T=EB, Blk Mold, PM, Sept LS, Anth, Leaf mold); (E, P=Anth, Cer LS, Gray LS, PM)
- **T** 11 Inspire Super 0 (difenoconazole + cyprodinil) (47 fl oz limit) (same as above for T diseases only)
- **T** 40+3 Revus Top 1 (difenoconazole + mandipropamid) (28 fl oz limit) (Anth, Alt Bk. mold, EB, LB, Leaf mold (Fulvia), PM (Leveillula) Sept LS
- **T** 7+9 Luna Tranquility (fluopyram + pyrimethanil)
- **TEP** 7 Fontelis 0 (penthiopyrad) (limit of 72 fl oz) (EB, Gray Mld., PM, Sept. LS, suppr. Anth)
- **TEP** 7+1 Priaxor 7 (fluapyroxad + pyraclostrobin) (limit of 24 fl oz) (An, Blk Mld, EB, SLS, PM, Suppression of Gray mold, Rhiz and Sclerotinia stem rot, Sou. Blt., Suppr. LB
2014 Tomato, Eggplant, Pepper Fungicide Roster for NYS

- TEP 1 Rally * (methylthiuran) (limit 1.25 lbs.) (PM, Leveillula) TEP 2 Contans OMRI (C. munitans) (W Mold) T 2 Actigard 14 Bac spot and speck T 2 New Vdase 3,7,17 (omaxylation) (nematodes) († Not on Long Island) T NC Fracture 0 (β-conglutin) (Botrytis GM, PM) (5 applic./S)

Late Blight and other Phytophthora (tank mix [TMix] and alt. with protectant or another labeled fungicide)

- T 4 + M5 Ridomil Gold Bravo SC 14, (mefenoxam + chlorothalonil) (LB, US22, 23 only, EB) also T 4 + M1 RidGold/Copper 5 and T 4 + M3 RidGold/Mancozeb* (LB)
  *TEP 4 Presidio 2 or longer (fluopicolide) (LB, Phytophthora blight); Tmix with protectant (limit of 12 fl oz)
  *TP 28 Previcur Flex 5 days (propamocarb) (LB, EB with TMix protectant) (limit 7.5 pts.)
  P 40 Revus 1 day or longer by mixing partner (mandipropamid) (limit 32 fl oz) P=for DM and supp. Phytophthora blight.
  See T 40 = 40 Revus Top 1 for multiple disease control. (limit 28 fl oz)
  T 27 Curzate 3 days or longer by mixing partner (cyoxanolid) (limit of 30 oz) (LB & EB with TMix protectant)
  T 41 Tanos 3 or longer (famoxadone + cyoxanolid) needs to be tank-mix with protectant (LB, other diseases) (72 oz)
  *T 22 + M3 Gavel 4 (zoxamide + mancozeb) (limit 16 lb) (LB, also very good on EB)
  *T 22 T Zoxium 3 (zoxamide) (limit 2 lb) (LB and Buckeye rot)

- TEP 1† Decree 9 (fenhexamid) (Botrytis Gray mold, GH prod & trsp.) TEP 2 Endura 0 (bosalid) (EB, (Septoria, Botrytis Gray mold) (21 oz limit)
  T 9 Scala 1 if mixed with chlorothalonil (pyrtrimethanil) (EB, Botrytis Gray Mold) (35 fl oz)
  P 12 Quintex 3 (quinxyfen) (limit 24 fl oz) (PM only)
  T 9† 12 Switch 62.5WG 0 (cyprodinil + fludioxonil) (limit to 56 oz) (EB, Gray mold, PM) († Not for LI)
  *TEP 1† Decree 9 (fenhexamid) (Botrytis Gray mold) (35 fl oz)

- T 5 M5 + 33 Cataman 9 (chlorothalonil + phosphorous acid) (limit of 50 pts.) (Fol. EB, LB; Fru. Anth, Alt., LB, Rhiz.) TEP 13 Agri-Fos 0;† Fosphite: Fungi-Phite, ProPhyt, *Kphite 7LP, Phostrol, Rampart, *Resist 57 (phosphorous acid) 0 (LB, some suppression of bacteria on labels)

- TEP 4* Ridomil Gold 0 soil, 7 foliar, Ultra Flourish, Twist TEP 3* Kphite, Phostrol 0, Rampart 0 T 33 Aliette 14
  45+00 Zampro 4 (ametoctradin + dimethomorph) (LB and suppr. Phytop blight)

Greenhouse Usage (Check label for specifics)

- M1 TEP 0 Badge X OMRI (copper), Badge SC, Champ2F, Champ Dry Prill, Champ WG OMRI, C-O-C-S WDG, Cueva OMRI, Cuprofix Ultra 40 Dispers, Kentan DF, Kocide (all formulations), Nordox 75WB OMRI, Nu-Cop 50WP OMRI (+ other formulations) (Bac. and fungi, Gray leaf mold, leaf mold)
  24 Agri-mycin 17 (or OLP) (Streptomycin) (Seedlings only prior to field) (Bac. Dis.) Bio. TEP 0 PlantShield, RootShield granules, and T-22 HC OMRI (Trichoderma harzianum) M TEP JMS Styl-Oil 0 OMRI (mineral oil) (EB, PM, insects)
  M TEP Contans 0 OMRI (Coniothyrium minitans) (W Mold)
  M TEP M-Pede 0 OMRI (K salts of fatty acids) (PM)
  T 2† Ramman 0 (cyazofamid) (1 application in Gr. Hs tray for Pythium DO)
  M TEP Regalia OMRI (extract of Reynoutria) (SAR, multiple diseases)
  7 TP Fontelis 6 (penitioyprad) (EB, Gray Mold, PM, Sept LS, Anth suppression)
  17 TEP Decree 0 (fenhexamid) (Gray mold)
• TP Previcur Flex® (propamocarb) (Gr. Hs. drip syst. or drench for root rot and Damping off) (Pythium, Phytophthora)
• T Scala® (pyrimethanil) (Gr. Hs. or high tunnel, well ventilated) (EB, Botrytis Gray mold)
• TP Oxidate (hydrogen peroxide)
• TEP Armicarb® Kaligreen® MilStop® (OMRI), (PM)
• TEP Cease, Sonata® (B. subtilis, B. pumilis) (PM) (OMRI)
• Fontelis® (penthiopyrad) (limit 72 fl oz) (Alt, Gray mold, OM, Septoria, Supp. Anth)

Current OMRI Listed Products & Registered in NYS (all M = multi-site activity)
• M TEP Badge X® Basic Copper 53 (Gray leaf mold), Nu-Cop (Bac. and fungi, Gray leaf mold), Champ WG, Cueva, Nordox 75WB
• TEP PlantShield, RootShield® granules, T-22 HC® (Trichoderma harzianum)
• TEP Regalia® (Reynoutria) (Multiple diseases)
• TEP Trilogy® (neem oil) (EB, Anth, (PM)
• TEP Contans® (Coniothyrium) (White mold)
• M TEP Organic JMS Stylet Oil® (mineral oil) (PM)
• TEP SuffOil-X® (insects only)
• M TEP Kaligreen® MilStop® (K bicarbonate) (PM)
• TEP Mycostop® (S. griseoviridis)
• TP Oxidate® (hydrogen peroxide)
• TEP Serenade ASO® (PM), Serenade MAX® (PM), Cease® (PM), Serenade Soil® (B. subtilis) Sonata® (B. pumilis) (Soilborne diseases)
• TEP Kumulus DF® Micro Sulf; Microthiol Dispers® (PM) (Sulfurs)

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.

* Restricted to commercial applicator; † Not for use on Long Island.