



2014 Tomato, Eggplant, Pepper Fungicide Roster for NYS

Overview of Tomato (T), Eggplant (E) and Pepper (P) Fungicide Roster with ^{No}Product

⁰=Days to Harvest

See:

<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} *chlorothalonil*⁰ 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, Chlorothalonil 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, ^{OMRI} Basic Copper Sulfate & 53 ^{OMRI}, Champ 2F, Dry Prill, WG ^{OMRI}, 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} ManKocide⁵ (*copper hydroxide* + *MZ*)
- TEP ^{Bio(44)} Serenade MAX or ASO⁰ or Cease ^{OMRI} (*Bacillus subtilis*) (EB, LB, **PM**, **Gray mold**, Bac Spot, Speck); *Bacillus pumilis*⁰ = Sonata⁰ ^{OMRI} (Bac Spot, **PM**, EB, LB); ^{Bio} Serenade Soil⁰ ^{OMRI} (soilborne fungi)
- TEP ^M *K bicarbonate* = Armcarb⁰, Kaligreen¹ ^{OMRI}, MilStop⁰ ^{OMRI} (**PM**)
- TP ^M *Oxidate*⁰ ^{OMRI} (*hydrogen peroxide*) (Bac speck & spot seed); ^{SAR} Regalia EC⁰ ^{OMRI}, (Multi dis.)

- ^{M2} *Sulfur*⁰ = Micro Sulf ^{OMRI}, That, Microthiol Disperss ^{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 Opti⁰ (limit 15 lbs. a.i.) (*azoxystrobin* + *chlorothalonil*) (AN, Buckeye, EB, **PM** (Oidiopsis), Sep., LB).
 - TEP¹¹⁺³ Quadris Top⁰ (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 + Endura⁰
 - TP^{11+Prot} Tanos (limit of 72 oz) **tank-mixed with protectant** ^{Varies}
 - T^{22+M3} * Gavel⁵ (*zoxamide* + *mancozeb*) (limit 16 lbs.)
 - TEP ¹¹ Flint³ (*trifloxystrobin*) (limit 16 oz) (**EB tank mix** LB, Sept.)
 - TEP ¹¹ Cabrio⁰ (*pyraclostrobin*) (limit 96 oz) (**EB tank mix** AN, Alt Bk. Mold, **EB**, LB, Sept, Botrytis mold **suppression**)
 - TP ¹¹ Tanos^{3 or longer} (*famoxadone* + *cymoxanil*) (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 Reason¹⁴ (*fenamidone*) (limit 24.6 fl oz) (**EB tank mix**, LB, Sept. LS **suppression**) († Not for use on Long Island)
 - TEP ¹¹ Evito³ (*fluoxastrobin*) (limit to 22.8 fl oz) **Not registered**
- ### Multiple Disease Control
- TEP¹¹⁺³ Quadris Top⁰ (*azoxystrobin* + *difenoconazole*) (47 fl oz limit) (T=EB, Blk Mold, PM, Sept LS, Anth, **Leaf mold**); (E, P=Anth, Cer LS, Gray LS, PM)
 - T³⁺⁹ Inspire Super⁰ (*difenoconazole* + *cyprodinil*) (47 fl oz limit) (same as above for T diseases only)
 - T⁴⁰⁺³ Revus Top¹ (*difenoconazole* + *mandipropamid*) (28 fl oz limit) (Anth, Alt Bk. mold, EB, LB, **Leaf mold** (*Fulvia*), **PM** (*Leveillula*) Sept LS)
 - T⁷⁺⁹ Luna Tranquility (*fluopyram* + *pyrimethanil*)
 - TEP⁷ Fontelis⁰ (*penthiopyrad*) (limit of 72 fl oz) (EB, Gray Mld., PM, Sept. LS, suppr. Anth)
 - TEP⁷⁺¹¹ Priaxor⁷ (*fluxapyroxad* + *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)



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Others (**Botrytis Gray Mold, Powdery Mildew,**

White mold)

- TEP¹⁷ Decree⁰ (*fenhexamid*) (**Botrytis Gray mold, GH prod & trspls**)
- TEP⁷ Endura⁰ (*boscalid*) (EB, (Septoria), **Botrytis Gray mold**) (21 oz limit)
- T⁹ Scala¹ if mixed with chlorothalonil (*pyrimethanil*) (EB, **Botrytis Gray mold**) (35 fl oz)
- P¹³ Quintec³ (*quinoxifen*) (limit 24 fl oz) (**PM only**)
- † T⁹⁺¹² Switch 62.5WG⁰ (*cyprodinil + fludioxonil*) (limit to 56 oz) (EB, Gray mold, PM) († **Not for LI**)
- TEP³ Rally⁰ (*myclobutanil*) (limit 1.25 lbs.) (**PM, Leveillula**)
- TEP^{Bio} Contans⁰ **OMRI** (*C. minitans*) (W Mold)
- T^{P1} Actigard¹⁴ Bac spot and speck
- † ^{Nem} Vydate^{3,7,7} (*oxamyl*) (**nematodes**) († **Not on Long Island**)
- T^{NC} Fracture⁰ (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 SC¹⁴, (*mefenoxam + chlorothalonil*) (**LB, US22, 23 only, EB**) also T^{4+M1} RidGold/Copper⁵ and T^{4+M3} RidGold/Mancozeb⁵ (**LB**)
- *TEP⁴³ Presidio² or longer (*fluopicolide*) (LB, Phytophthora blight); Tmix with protectant (limit of 12 fl oz)
- *TP²⁸ Previcur Flex⁵ days (*propamocarb*) (**LB, EB with TMix protectant**) (limit 7.5 pts.)
- P⁴⁰ Revus¹ day or longer by mixing partner (*mandipropamid*) (limit 32 fl oz) P=for DM and supp. Phytophthora blight.
- See T⁴⁰⁺³ Revus Top¹ for multiple disease control. (limit 28 fl oz)
- T²⁷ Curzate³ days or longer by mixing partner (*cymoxanil*) (limit of 30 oz) (LB & EB with TMix protectant)
- T¹¹ Tanos³ or longer (*famoxadone + cymoxanil*) **needs to be tank-mix with protectant** (LB, other diseases) (72 oz)
- *T^{22+M3} Gavel⁵ (*zoxamide + mancozeb*) (limit 16 lb) (LB, also very good on EB)
- *²² T Zoxium⁵ (*zoxamide*) (limit 2 lb) (LB and Buckeye rot)

- TEP^{21+M3} or ⁵ Ranman⁰ or longer if tank-mixed (*cyazofamid*) (limit 16.5 fl oz) (LB, EB with added **TMix protectant**, Phytoph. blt.)
- *†TEP¹¹ Reason¹⁴ (*fenamidone*) (limit 24.6 fl oz) (**Phytoph foliar and fruit suppression**)
- TEP⁴⁰ Forum^{T=4} days or longer by mixing partner; E,P=0 days or longer depending on mixing partner (*dimethomorph*) (30 oz limit) (**LB, EB with TMix added protectant**)
- T^{M5+33} Catamaran⁰ (*chlorothalonil + phosphorous acid*) (limit of 50 pts.) (**Fol. EB, LB; Fru. Anth, Alt., LB, Rhiz.**)
- TEP³³ Agri-Fos⁰; * Fosphite; Fungi-Phite, ProPhyt, *Kphite 7LP, Phostrol, Rampart, *Resist 57 (phosphorous acid)⁰ (LB, some suppression of bacteria on labels)

Oomycetes (Pythium, Phytoph. root rot & Blight)

- TEP⁴ Ridomil Gold⁰ soil, ⁷ foliar, Ultra Flourish, Twist
- TP³³ * Kphite⁰, Phostrol⁰, Rampart⁰
- T³³ Aliette¹⁴
- ⁴⁵⁺⁴⁰ Zampro⁴ (*ametoctradin + dimethomorph*) (LB and supp. Phytop blight)

Greenhouse Usage (Check label for specifics)

- ^{M1} TEP⁰ Badge X⁰ **OMRI** (*copper*), Badge SC, Champ2F, Champ Dry Prill, Champ WG **OMRI**, C-O-C-S WDG, Cueva **OMRI**, Cuprofix Ultra 40 Disperss, 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.} TEP⁰ PlantShield, RootShield granules, and T-22 HC **OMRI** (*Trichoderma harzianum*)
- ^M TEP JMS Stylet-Oil⁰ **OMRI** (*mineral oil*) (EB, **PM**, insects)
- ^M TEP Contans⁰ **OMRI** (*Coniothyrium minitans*) (W Mold)
- ^M TEP M-Pede⁰ **OMRI** (*K salts of fatty acids*) (**PM**)
- T²¹ Ranman⁰ (*cyazofamid*) (1 application in Gr. Hs tray for Pythium DO)
- ^M TEP Regalia **OMRI** (extract of *Reynoutria*) (SAR, multiple diseases)
- ⁷ TP Fontelis⁰ (*penthiopyrad*) (EB, Gray Mold, **PM**, Sept LS, Anth suppression)
- ¹⁷ TEP Decree⁰ (*fenhexamid*) (**Gray mold**)



- *²⁸ TP Previcur Flex⁵ (*propamocarb*) (Gr. Hs. drip sys. or drench for root rot and Damping off) (*Pythium*, *Phytophthora*)
- ⁹ T Scala¹ (*pyrimethanil*) (Gr. Hs. or high tunnel, well ventilated) (EB, **Botrytis Gray mold**)
- ^M TP Oxidate (*hydrogen peroxide*) (Oxidizing agent)
- ^M TEP Armicarb⁰, Kaligreen¹ **OMRI**, MilStop⁰ **OMRI**, (PM)
- ^{Bio} TEP Cease, Sonata⁰ (*B. subtilis*, *B. pumilis*) (PM) **OMRI**
- T,P ⁷Fontelis⁰ (*penthiopyrad*) (limit 72 fl oz) (Altn, Gray mold, OM, Septoria, Supp. Anth)

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

Current OMRI Listed Products & Registered in NYS (all M = multi-site activity)

- ^{M1} TEP Badge X⁰, Basic Copper 53 (Gray leaf mold), Nu-Cop (Bac. and fungi, Gray leaf mold), Champ WG, Cueva, Nordox 75WB
- ^{Bio} TEP PlantShield, RootShield⁰ granules, T-22 HC⁰ (*Trichoderma harzianum*)
- ^{SAR} TEP Regalia⁰ (*Reynoutria*) (Multiple diseases)
- ^M TEP Trilogy⁰ (*neem oil*) (EB, Anth, (PM))
- ^{Bio} TEP Contans⁰ (*Coniothyrium*) (White mold)
- ^M TEP Organic JMS Stylet Oil⁰ (*mineral oil*) (PM)
- ^M TEP SuffOil-X⁰ (insects only)
- ^M TEP Kaligreen¹, MilStop⁰ (*K bicarbonate*) (PM)
- ^{Bio} TEP Mycostop⁰ (*S. griseoviridis*)
- ^M TP Oxidate⁰ (*hydrogen peroxide*)
- ^{Bio.(44)} TEP Serenade ASO⁰ (PM), Serenade MAX⁰ (PM), Cease⁰, (PM), Serenade Soil⁰ (*B. subtilis*) Sonata⁰ (*B. pumilis*) (Soilborne diseases)
- ^{M2} TEP Kumulus DF⁰, Micro Sulf, Microthiol Disperss (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.