2013 Tomato, Eggplant, Pepper Fungicide Roster for NYS

- **M1** 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:

- T11 + M5 Quadris Opti 0° (limit 15 lbs. a.i.)
  - (azoxystrobin + chlorothalonil) (AN, Buckeye, EB, PM (Oidiopsis), Sep., LB).
- TEP11+5 Quadris Top 0° (limit 47 fl oz) (T=EB, Blk Mold, PM, Sept LS, Anth, Leaf mold); (E, P=Anthr, Cer LS, Gray LS, PM).
- 11+T3 TEP Cabrio + Endura 0°
- TP11 + Prof Tanos (limit of 72 oz) tank-mixed with protectant
  - Varies
- T22 + M3 * Gavel 5° (zoxamide + mancozeb) (limit 16 lbs.)
- TEP 11Fim 3° (trifloxystrobin) (limit 16 oz) (EB tank mix LB, Sept.)
- TEP 11 Cabrio 0° (pyraclostrobin) (limit 96 oz) (EB tank mix AN, Alt Blk Mold, EB, LB, Sept, Botrytis mold suppression

**TP 11 Tanos 3° or longer (famoxadone + cymoxanil)
(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)

Fulvia
- **T** only 14° Reason (fenamidone) (limit 24.6 fl oz) (EB tank mix, LB, Sept. LS suppression) († Not for use on Long Island)

**TEP 11 Evito 3° (fluoxastrobin) (limit to 22.8 fl oz) Not registered**

**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=Anthr, Cer LS, Gray LS, PM)
- T3+5 Inspire Super 0° (difenoconazole + cyprodinil) (47 fl oz limit) (same as above for T diseases only)
- T 40° Revus Top 1° (difenoconazole + mandipropamid) (28 fl oz limit) (Anth, Alt Blk mold, EB, LB, Leaf mold (Fulvia), PM (Leveillula) Sept LS
- T 7+9 Luna Tranquility (fluopyram + pymefolanil)
- T 7 Fontelis 0° (penthiopyrad) (limit of 72 fl oz) (EB, Gray Mold., PM, Sept. LS, Suppr. Anth)
- T 7+12 Priaxor 1° (fluopyroxad + 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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### Overview of Tomato (T), Eggplant (E) and Pepper (P) Fungicide Roster with [No Product]

- **6 Days to Harvest**

See:

http://vegetablemdonline.ppath.cornell.edu

for more updates (underlined = labeled for NYS) T. A. Zitter, JUL 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.), Manzan Pro-Stick (22.4 lbs.), Penncozeb 4FL (16.8 qts.) Roper DE (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 & 53. Champ 2F, Dry Prill, WC OMRI, C-O-C-S WDG, Camelot 0° OMRI, Cueva, Cuprofix Ultra 40 Disperss, Kentan DF, Kocide (ex 3000), Mastercure, 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 pumilus 0° = Sonata 0° OMRI (Bac Spot, PM, EB, LB);

- **BioSerenade Soi 0° OMRI** (soilborne fungi)

- **TEP M K bicarbonate = Ecomate Armicarb O°, Kaligreen 0° OMRI, MiiStop 0° OMRI (PM)**

- **TP M Oxidate 0° OMRI** (hydrogen peroxide) (Bac speck & spot seed); SAR Regalia EC 0° OMRI, (Multi dis.)
Late Blight and other Phytophthora (tank mix [TMix] and alt. with protectant or another labeled fungicide)

- **TEP** 3 Rally 6 (mycobutanil) (limit 1.25 lbs.) (PM, Leveillula)
- **TEP** 2 Contans 0 OMRI (Bravo SC 14, (mefenoxam + chlorothalonil)) (LB, US22, 23 only, EB) also 4 + 5 RidGold/Copper 5 (LB)
- *TEP* 1 Presidio 0 or longer (fluopicolide) (LB, Phytophthora blight); Tmix with protectant (limit of 12 fl oz)
- *TP* 2 Previcur Flex 5 days (propamocarb) (LB, EB with TMix protectant) (limit 7.5 pts.)
- P 3 Revus 1 day or longer by mixing partner (manipropamid) (limit 32 fl oz) P=for DM and supp. Phytophthora blight.
- See T 4 + 5 Revus Top 1 for multiple disease control. (limit 28 fl oz)
- T 22 Curzate 3 days or longer by mixing partner (cyoxanil) (limit of 30 oz) (LB & EB with TMix protectant)
- T 11 Tanos 0 or longer (famoxadone + cyoxanil) needs to be tank-mix with protectant (LB, other diseases) (72 oz)
- *T* 22 + 5 Gavel 0 (zoxamide + mancozeb) (limit 16 lb) (LB, also very good on EB)
- *T* 22 Zoxium 3 (zoxamide) (limit 2 lb) (LB and Buckeye rot)

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- **TEP** 3 M + 0 or longer if tank-mixed (cyanofamid) (limit 16.5 fl oz) (LB, EB with added TMix protectant, Phytoph blt.)
- *†TEP* 11 Reason 14 (fenamidone) (limit 24.6 fl oz) (Phytoph foliar and fruit suppression)
- **TEP** 48 Forum M 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 M 3 + 33 Catamaran 0 (chlorothalonil + phosphorous acid) (limit of 50 pts.) (Fol, EB, LB; Fru, Anth, Alt., LB, Rhiz.)
- **TEP** 3 Agri-Fos 6; * Fosphite; Fungi-Phite, ProPhyt, * Kphite 7 LP, Propstol, Rampart, * Resist 57 (phosphorous acid) 0 (LB, some suppression of bacteria on labels)

Oomycetes (Pythium, Phytoph. root rot & Blight)

- **TEP** 4 Ridomil Gold 0 soil, 7 foliar, Ultra Flourish, Twist
- **TP** 3 Kphite 6, Propstol 6, Rampart 0
- **TP** 13 Alieite 0
- 45+40 Zapro 4 (ametoctradin + dimethomorph) (LB and suppr. Phytoph blight)

Greenhouse Usage (Check label for specifics)

- M1 **TEP** 0 Badge X 0 OMRI (copper), Badge SC. Champ2F, Champ Dry Prill, Champ W G 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 Stylet-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 21 Ranman 0 (cyanofamid) (1 application in Gr, Hs tray for Pythium DO)
- M **TEP** Regalia OMRI (extract of Reynoutria) (SAR, multiple diseases)
- 7 TP Fontelis 6 (penthiopyrad) (EB, Gray Mold, PM, Sept LS, Anth suppression)
- 17 TEP Decree 0 (fenhexamid) (Gray mold)
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- **2** TP Previcur Flex 5 (propanocarb) (Gr. Hs. drip sys. or drench for root rot and Damping off) (Pythium, Phytophthora)
- **9** T Scala 1 (pyrimethanil) (Gr. Hs. or high tunnel, well ventilated) (EB, Botrytis Gray mold)
- M TP Oxidate (hydrogen peroxide) (Oxidizing agent)
- M TEP Armicarb 0, Kaligreen 1 OMRI, MilStop 0 OMRI, (PM)
- Bio TEP Cease, Sonata 0 (B. subtilis, B. pumilis) (PM) OMRI
- T, P 7 Fontelis 0 (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 0, Camelot O, Nu-Cop (Bac. and fungi, Gray leaf mold), Champ WG, Cueva, Nordox 75WB
- Bio TEP RootShield 0 granules, T-22 HC 0 (Trichoderma harzianum)
- SAR TEP Regalia 0 (Reynoutria) (Multiple diseases)
- M TEP Trilogy 0 (neem oil) (EB, Anth, (PM)
- Bio TEP Contans 0 (Coniothyrium) (White mold)
- M TEP Organic JMS Stylet Oil 0 (mineral oil) (PM)
- M TEP SuffOil-X 0 (insects only)
- M TEP Kaligreen 1, MilStop 0 (K bicarbonate) (PM)
- Bio TEP Mycostop 0 (S. griseoviridis)
- M TP Oxidate 0 (hydrogen peroxide)
- Bio TEP Serenade ASO 0 (PM), Serenade MAX 0 (PM), Cease 0 (PM), Serenade Soil 0 (B. subtilis) Sonata 0 (B. pumilis) (Soilborne diseases)
- M2 TEP Kumulus DF 0, 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. *