Underlined are Registered in NYS; Group Nos. before Products are from the Fungicide Resistance Action Committee and EPA (Mode of Action), while Nos. after refer to Days To Harvest (DTH) ex. [FRAC No. 40 Product 4 DTH]; (Warnings and Fungicide Resistance concerns are given in italics) (Important comments also in RED); Because of EB resistance to Strobilurins in NYS, consider Quadris Opti, Quadris Top or Cabrio + Endura, or Tanos tank-mixed with protectant, but never use strobilurins alone for EB control.

Systemic fungicides are in BOLD. Major fungicide groups have been color coded to aid in finding and categorizing by MOA: Phosphorous acids = Blue; Strobilurins or Group 11 = violet; Chlorothalonils = Black; Coppers = green; and Sulfurs = orange. Fungicide/nematicide usage for soil application or for Foliar/Greenhouse use has been highlighted as shown.

### Alphabetical Fungicide List

- **T, P Chili**\(^1\) Actigard\(^{14}\) 50WG (EPA 100-922) REI 12 hrs (acibenzolar-S-methyl, host plant defense induction) (Syngenta); T=Bac. Spot and speck 1/3 to ¾ oz; Chili Pepper=Bac. Spot and Speck, 0.33-0.75 oz/A. *(Do not exceed rate [up to 6 applications] or yield reduction could occur).* (Generally for field use, suggesting not applied before thinning or within 5 days of transplant). **14 DTH.**

- **T, E, P**\(^3\) Agri-Fos\(^0\) (EPA 71962-1) REI 4 hrs *(phosphorous acid)* (Liquid Fert.) T = LB, Phytophthora RR, 1.5 qts/40 gal; E = Pythium, Phytophthora, 1.25 qts/40 gal; P = Phytophthora RR, 1.5 qts/25 gal. **0 DTH.**

- **T, P**\(^25\) Agri-mycin 17\(^0\), OMRI (EPA 55146-96) REI 12 hrs *(Streptomycin sulfate)* (Nufarm); T, P = Bacterial spot (also for pepper), 200 ppm = ½ lbs./50 gallons water; begin application in 2-3 lvs stage, **use prior to transplanting.** Greenhouse use. **0 DTH.**

- **T, P**\(^25\) AG Streptomycin\(^0\) (EPA 66222-121) REI 12 hrs *(Streptomycin sulfate)* (MANA); see Agri-mycin 17 above. Greenhouse use. **0 DTH.**

- **T**\(^33\) Aliette\(^14\) WDG (EPA 264-516) REI 12 hrs *(fosetyl-Al)* (limit 20 lbs.) (Bayer); *Pythium damping off and Phytophthora root rot* 2.5-5 lbs. **14 DTH.**

- **T, E, P**\(^M\) Armicarb\(^0\) 100 and O Eco-Mate (EPA 5905-541) REI 4 hrs *(potassium bicarbonate)* (Helena); Primarily for PM 2.5-5 lbs./A (several species); also listed for Alt. Blk mold, EB, Botrytis gray mold, DM, Phoma fruit rot, and Septoria leaf spot. **0 DTH. Approved for use in Gr. Hs.**

- **T, E, P**\(^M\) Badge\(^0\) SC (EPA 80289-3) REI 24 hrs *(copper oxychloride + copper hydroxide, 20% metallic equiv. w/w)* (Isagro). T Anth, Bac, EB, Gray leaf mold, LB, Septoria 1.8-3.7 pt/A; E Alter Blt, Anth, Phomopsis, 1.8 pts.; P Anth, Bac spot, Cercospora LS, 1.8-2.8 pt. **0 DTH.** *(Greenhouse and shadehouse use for crops on label)***

- **T, E, P**\(^M\) BadgeX\(^2\)\(^0\), OMRI DF (EPA 80289-12) REI 48hrs. *(copper oxychloride + copper hydroxide, 28% metallic equiv. w/w)* (Isagro). multiple diseases, 0.5-1.25 lbs./A, limit to 5.25 lbs./A. **0 DTH** *(Greenhouse and shadehouse use for crops on label; ie. for cucumber Ang LS and DM, 0.5-0.8 TBS/1000 sq ft.)*

- **T, E, P**\(^M\) Basic Copper\(^0\) 53 OMRI (EPA 45002-8) REI 24 hrs *(basic copper sulfate, 53% metallic equiv.)* (Albaugh); T Anth, Bac Spot and Speck, Canker, EB, LB, Gray Leaf mold, Septoria, 2-4
T, E, P M1 Basic Copper Sulfate0 (EPA 46923-9) REI 24 hrs (basic copper sulfate, 53% metallic equiv.) (Old Bridge). T Anth, Bac Spot and canker, EB, LB. Leaf mold, Septoria LS, Stempthylium LS, 2-4 lbs./A; E, Anth, DM, Phomopsis Blight, EB, 1 ¾ - 3 lbs./A; P Anth, Bac spot, EB?, DM?, 3-4 lbs./A. 0 DTH.

T, E, P M5 Bravo Weather Stik0 (Tomato; E and P 6SC Complete label for most vegetables (EPA 50534-188-100) REI 12 hrs (chlorothalonil) (limit 20 pts. for T; limit 12 pts. for E & P) (Syngenta); Tomato Foliage EB, LB, Gray leaf mold. Septoria leaf spot, 1 3/8 to 2 pts./A; Tomato Fruit Set AN, Alt blk. mold, Botrytis gray mold, LB fruit rot, Rhizoc fruit rot, 2-2 3/4 pt/A. 0 DTH; Eggplant and Pepper, Anth, Botrytis leaf mold, PM (Leveillula), 1 ½ pts./A. 3 DTH. (Do not use of greenhouse-grown crops).

T0, E3, P3 M5 Bravo Ultrex 82.5 WDG 0 or 3 Complete label for most vegetables (EPA 50534-201-100) REI 12 hrs (chlorothalonil) (limit 18.3 lbs. for T; limit 10.9 lbs. for E & P). Also T M5 Bravo Zn0 (limit of 28.5 pts.) (EPA 50534-204-100) (Syngenta); Foliage EB, LB, Septoria leaf spot 1.3-1.8 lbs.; Fruit Set AN, Alt blk. mold, Botrytis gray mold, LB fruit rot, Rhizoc fruit rot, 1.8-2.75 lbs./A. 0 DTH. (Do not use of greenhouse-grown crops).

T, E, P 11 Cabrio 0 EG 20% (EPA 7969-187) REI 12 hrs (No aerial application in NYS) (pyraclostrobin) (limit 96 oz.) (BASF); T = AN, Alt Blk mold, EB, Septoria leaf spot 8-12 oz; LB, PM (Leveillula), Gray mold suppression only, 8-16 oz; E & P = AN, 8-12 oz; P = PM and Botrytis (suppression) 8-16 oz. (TEP on supplemental label for Suppression only Gray mold, Rhiz stem rot, Sclerotinia stem rot and Sou. Blight, 12-16 oz) (Do not make more than 2 sequential applications in tomato (1 for eggplant and pepper) before alternate with Diff. MOA); (Not for greenhouse use or in transplant production). 0 DTH.

T, E, P M1 Camelot O0 OMRI (EPA 67702-2-67690) REI 4 hrs. (copper octanoate, 10%) (SePRO); Bac speck, spot, Anth, EB, Gray mold, Leaf mold, Septoria LS, LB, 2.0 gal/50-100 gal/A. 0 DTH.

T M5 + 33 Catamaran 0 (EPA 42519-31) REI 12h (chlorothalonil, 16.7% + potassium phosphite, 38.9%) (limit of 50 pts.) (Luxembourg-Pamol); Tomato foliage, EB, S., Gray leaf mold, Gray leaf spot, Target spot (south) 5-7 pt/A; Tomato fruit, Anth, Altern rot, Botrytis, LBS. rot, Rhizoctonia rot, 7 pt/A. 0 DTH.

T, E, P Bio. (44) Cease 0 OMRI (EPA 69592-19-68539). REI 4hrs (Bacillus subtilis str. 713) (AgraQuest/BioWorks); Gr, Hs. Crop use per label for multiple diseases. 0 DTH.

T, E, P M1 Champ 0 Flowable 2F (EPA 55146-64) REI 48hrs, M1 Champ Dry Prill0 (EPA 55146-57), M Champ WG 0 OMRI (EPA 55146-1) REI 48 hrs (copper hydroxide) (Nufarm); T = EB, PBS., 1 1/3-2 pt; Bac. Speck 1 1/3 pts.; Bac. Spot, AN Septoria leaf spot1 1/3 – 2 2/3 pt; E = Alt, AN, Phomopsis 1 1/3 pts.; P = Bacterial spot, 1 1/3 to 2 pts. 0 DTH. Use on greenhouse crops as listed. See Ag Use Requirements.


T, E, P M1 C-O-C-S0 WDG (EPA 34704-326) REI 48hrs. Field, 24 hrs Gr Hs. (74.8% copper oxychloride + 14.2% basic copper sulfate, 50% metallic equiv.) (Loveland). T = EB, EB, Septoria LS, 2-4 lbs., Bacteria spot 2-6 lbs./A; E and P = DM, Alternaria, Phytophthora blight, Anth, 2-4 lbs./A. 0 DTH.
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- T, E, P\textsuperscript{Bio} Contans\textsuperscript{0}, OMRI WG (EPA 72444-1) REI 4 hrs \((\text{Coniothyrium minitans})\) (Sylvan Bioproducts/Prophyta); WM in \textit{agricultural and greenhouse soils}, 1-4 lbs./A or 0.75-1.5 oz per 1000 sq ft. \textbf{0 DTH}.

- T, E, P\textsuperscript{M1} Cuvea\textsuperscript{0}, OMRI (EPA 67702-2-70051) REI 4 hr. \((10\% \text{ copper octanoate})\) (Certis); Anth, Bac speck spot, EB, Gray mold, LB, Leaf mold, Septoria, 2 gal/50-100 gal./A. \textbf{0 DTH}.

- T, E, P\textsuperscript{M1} Cuprox Ultra 40 Dispers\textsuperscript{0} (EPA 70506-201) REI 48 hrs \((71.1\% \text{ basic copper sulfate})\) (UPI) \(T = \text{AN, Bac speck spot, EB, Septoria 1.25-3 lbs.; }\ E = \text{Alt, AN, Phomopsis, 1.25 lbs.; }\ P = \text{Bac. Spot, AN, 1.25-3 lbs. (label allows greenhouse [hoop] and field application). }\textbf{0 DTH}.

- T\textsuperscript{27} Curzate\textsuperscript{3} or longer 60DF (EPA 352-592) REI 12 hrs \((\text{cymoxanil + protectant})\) (no more than 30 oz/season) (DuPont); LB, 3.2-5 oz. \textbf{3-5 DTH} depending on protectant used. (\textit{Not for U-pick operations, or for use in greenhouses for transplant production}). \textbf{3 DTH}.

- T, E, P\textsuperscript{17} Decree\textsuperscript{0} 50WDG (EPA 66330-35-67690) REI 12 hrs \((\text{fenhexamid})\) (limit 6 lbs.) (Arysta/Sepro); Botrytis Gray mold on \textit{transplants and greenhouse} tomatoes, eggplant, Bell pepper production only; stand-alone (1.5 lbs./A) or tank mixed with product approved for \textit{gray mold} (1-1.5 lbs./A); (\textit{For greenhouse crops or transplants}: Do not apply in the field; do not make more than 2 consecutive sprays). \textbf{0 DTH}.

- *T\textsuperscript{ P\textsuperscript{M3}} Dithane DF Rainshield (EPA 62719-402) REI 24 hrs \((75\% \text{ mancozeb})\) (limit 22.4 lbs.) (Dow) \(T^3, P^7,\text{Dithane M-45, EPA 62719-387; }T^5, P^7,\text{Dithane F-45, EPA 62719-396}); \textit{use} 0.75-1.5 lbs. for AN, EB, LB, \textit{Leaf mold}, Septoria leaf spot; \textit{use} 1 \(\frac{1}{2}\) to 3 lbs. for Bac. Speck and spot. \textbf{5 DTH}.

- T\textsuperscript{0} E\textsuperscript{3} P\textsuperscript{3 M5} Echo 720 Note: Complete label for most vegetables (EPA 60063-7) REI 12 hrs \((54\% \text{ chlorothalonil})\) (limit of 20 pts.) (Sipcam); Foliage EB, LB, Septoria L S 1.25-1.82 lbs.; \textit{Fruit} 1.82-2.75 lbs. \textbf{0 DTH}. (\textit{Do not use of GH-grown crops}). (\textit{Also} T\textsuperscript{0} Echo 90DF (EPA 60063-10) (limit 15.1 lbs. ai))

- T, E, P\textsuperscript{7} Endura\textsuperscript{0} 70WDG (EPA 7969-197) REI 12 hrs \((\text{boscalid})\) (limit of 6 applic. at low rate or 21 oz/season) (BASF); \textit{T = EB, 2.5-3.5 oz;} \textit{Botrytis gray mold, 9-12.5 oz;} \textit{E, P = EB, 2.5-3.5 oz. (Do not make more than 2 sequential applications before switching to a diff. MOA fungicide). }\textbf{0 DTH}.

- T\textsuperscript{Ms} Equus\textsuperscript{0} 500 ZN (EPA 66222-150) REI 12 hrs \((\text{chlorothalonil 38.5\%})\) (limit of 28.5 pts.)

- T\textsuperscript{0} E\textsuperscript{3} P\textsuperscript{3 M5} Equus\textsuperscript{0} 720 SST\textsuperscript{0} (EPA 66222-154) Note: Complete label for most vegetables REI 12 hrs \((\text{chlorothalonil 54\%})\) (limit of 20 pts.) (MANA) Foliage EB, LB, \textit{Gray leaf mold}, Septoria leaf spot, 1.35-2 pts/A; \textit{Fruit} AN, Alt. Blk. Mold, \textit{Botrytis gray mold}, LB fruit rot, Rhizoc. \textit{Fruit rot}, 2.0-2.88 pts/A. \textbf{0 DTH}. (\textit{Do not use of GH-grown crops}.

- T\textsuperscript{0} E\textsuperscript{3} P\textsuperscript{3 M5} Equus DF\textsuperscript{0} Note: Complete label for most vegetables (EPA 66222-149) REI 12 hrs (chlorothalonil 82.5\%) (limit of 18.3 lbs.) (MANA) Foliage EB, LB, \textit{Gray leaf mold}, Septoria leaf spot, 1.3-1.8 lbs./A; \textit{Fruit} AN, Alt. Blk. Mold, \textit{Botrytis gray mold}, LB fruit rot, Rhizoc. \textit{Fruit rot}, 1.8-2.6 lbs./A. \textbf{0 DTH}. (\textit{Do not use of GH-grown crops}).

- T, E, P\textsuperscript{11} Evito\textsuperscript{0} 480 SC (EPA 62171-MS-001) \textit{NOT YET REGISTERED in NYS} REI 12 hrs. \((\text{fluoxastrobin, Group 11})\) (Arysta). Primarily for \textit{EB} (3.8-5.7 fl oz/A) and suppression of LB (5.7 fl oz/A). (Alternate every application of Group 11 fungicide with at least 1 application of an effective fungicide with a different MOA; experience shows that Group 11 fungicide should be tank mixed with a good protectant like chlorothalonil to deal with fungicide resistance issues) (limit to 22.8 fl oz per season). \textbf{3 DTH}.

- T, P\textsuperscript{25} Firewall\textsuperscript{0} (EPA 80990-4) REI 12 hrs \((\text{streptomycin sulfate})\) (AgroSource) \textit{T}, \textit{P = Bacterial spot, 200 ppm, apply until transplant. \textit{Greenhouse use}. }\textbf{0 DTH}.

- T, E, P\textsuperscript{11} Flint\textsuperscript{3} 50WG (EPA 264-777) REI 12 hrs \((\text{trifloxystrobin})\) \textit{No aerial application in NY}; (Bayer); \textit{T = EB, 2-3 oz; LB 4oz with a protectant; AN, Septoria leaf spot, PM (Oidiopsis) suppression 3-4 oz; \textit{E = EB} (2-3 oz), \textit{AN, (3-4 oz suppression P = PM (Oidiopsis) 1.5-2 oz, AN, 3-4...}
oz. (Do not make more than 3 sequential applications before switching to a different MOA fungicide; limit of 16 oz/season; Not for greenhouse use). 3 DTH.

- T, E, P 7Fontels® (EPA 352-834) REI 12 hrs (penthiopyrad) (limit of 72 fl oz/A) (DuPont); Not registered in NYS. 10 to 24 fl oz for EB, Gray mold, PM (Leveillula), Sept LS, Target spot, Suppr.. of Anth. For use on Gr Hs, grown pepper and tomatoes; (no more than 2 sequential applications before switching to a different MOA). 0 DTH.

- T, E, P 40Forum T4,E,P 0 or longer by protectant 4.18 SC (EPA 241-427) REI 12 hrs (43.1% dimethomorph) (Do not exceed 30 oz/A/season for all) (BASF); (Do not make more than 2 sequential applications before alternating with another material for specific control of LB for at least one application; should be combined with mancozeb (Group M3) or Copper (M1) for E, P tank mix for Phytophthora blight suppression only, 6 oz/A; T Staked or nonstaked tomatoes, late blight, 6 oz/A. 0 DTH for E and P. depends on mixing partner; T 4 DTH, but depends if also using a mixing partner.

- *T, E, P 35Fosphite® (EPA 68573-2) REI 4 hrs; (*Restricted applicator use; (53% mono- and dipotassium salts of Phosphorous Acid) (JH Biotech); T = Late Blight, 3-5 qts/min. 20 gal/A. Do not use at intervals of less than 3 days; Do not apply Phospite foliarly to plants treated with copper at less than 20 day interval. 0 DTH.

- NC Fracture® 0 (EPA 84876-1-279) REI 4 hrs (20% BLAD amino acid seq. of β-conglutinin) (FMC); T Botrytis gray mold and Powdery mildew (Oidium spp.), 24.4 or 36.6 fl oz/A; limit to 5 foliar applications per season; Allow 2-4 hrs for product to dry; not more than 2 sequential applications before switching to a fungicide with a different MOA. 0 DTH.

- T, E, P 33Fungi-Phite® (EPA 83472-1) REI 4 hrs (45.5% mono- and di-potassium salts of phosphorous acid) (Plant Protection); Phytophthora and Pythium also suppression of bacterial diseases, 1-2 qts/min of 30 gal water. 0 DTH.

- *T 22+M5 Gavel® 75DF (EPA 10163-6414) REI 48 hrs (zoxamide 8.3% and mancozeb 66.7%) (limit of 8 applic. or 16 lbs./season) (Gowan); Buckeye rot, EB, LB, leaf mold, Septoria leaf spot, 1.5-2 lbs.; Bac. Speck and spot use full rate of copper in tank mix with full rate of Gavel. 5 DTH.

- T, E, P 33Helena ProPhyt® (EPA 42519-22-AA-5905) REI 4 hrs (potassium phosphate) (Helena); T = LB, 4 pts. plus protectants (5 DTH) like mancozeb. 0/5 DTH; E, P = Phytopht. Blt. 6 pts.

- T0M5 Initiate 720F® 0 (EPA 34704-881) REI 12 hrs, (chlorothalonil, 90%) (limit of 20 pts.) (Loveland); EB, LB, Leaf mold, Septoria, Anthracnose, Alternaria fruit rot. Botrytis gray mold, Rhiz. Fruit rot, 1-1/8-2 1/2 lbs. 0 DTH. Also T0M5 Initiate Zn 0 (EPA 34704-1050) see above.

- T3eInspire Super® (EPA 100-1317) REI 12 hrs, (difenconazole + cyproconazol) (limit to 47 fl oz/season) (Syngenta); 16-20 fl oz for EB, Blk mold, Gray leaf spot, Gray mold, PM, Septoria L S, Target Spot, Anthracnose, Leaf mold (Fulvia); (No more than 2 consecutive sprays before rotating to a different MOA; adding an adjuvant may help efficacy; do not use on cherry (less than 2 in. tomatoes). 0 DTH.

- T, E, P 0i JMS Stylet-Oil® 0, OMRI (EPA 65564-1) REI 4 hr, (paraffinic oil, Not classified) (JMS Flower Farms); Alternaria blight, PM, mites, whiteflies, 3-6 qts/A. 0 DTH (may be used in GH; see label for compatibility information)

- T, E, P 34Kaligreen®, OMRI (EPA 11581-2) REI 4 hrs (potassium bicarbonate) (Otsuka); PM 2 1/2-3 lbs/A (approved for GH use). 1 DTH.

- T, E, P 31Kentan® DF (EPA 80289-2) REI 48 hrs., (copper hydroxide 61.3% = 40% metallic cu (Isagro); T = Anth, Bac Speck, Spot, EB, LB, Septoria l. s, 2-4 lab/A; E = Alt Blt, Anth, Phomopsis, 2 lbs./A; P = Anth, Bac Spot, 2-3 lbs./A. 0 DTH. May be used for greenhouse crops on label.
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- T, E, P M1 Kocide 0 3000 (EPA 352-662) REI 48 hrs (copper hydroxide 46.1%= 30% metallic copper equivalent) (DuPont); T = AN, Bac speck and spot, EB, Gray leaf mold, LB, Septoria leaf spot. 0.75-1.75 lbs.; E = Alt Blt, AN, Phomopsis, 0.75 lbs.; P = An, Bac. Spot. 0.75-1.25 lbs. 0 DTH. (May be used for greenhouse crops on label; for example, ALL tomato diseases listed, 1 level TBS per 1000 sq. ft. is equivalent to 1 lbs./A, so use 1 1/2 – 3 TBS per 1000 sq. ft.). See also Kocide 101, Kocide 2000 (EPA 352-656), Kocide 4.5LF (EPA 352-684), Kocide DF (EPA 352-688) for use on TEP.

- T, E, P M1 Kphite 7L P 0 (EPA 73806-1) REI 4 hrs. (*Restricted applicator use); (53% Mono & di-potassium salts of phosphorous acid) (Plant Food Systems); Phytophthora and Pythium, also bacterial diseases, 1-3 qts. in 20 gal water. 0 DTH.

- T, E, P M2 Kumulus 0 OMRI DF (EPA 51036-352) REI 24 hrs. (80% sulfur) (Microflo). T Russet mite 3-20 lbs.; E PM 2-5 lbs.; P PM. Red spider mite 3-10 lbs. 0 DTH.

- T M3+M1 ManKocide 5 (EPA 352-690) REI 48 hrs (mancozeb 15% + copper hydroxide 30% equivalent) (DuPont) T, Anth, EB, LB, leaf mold, Septoria leaf spot, Bac. Speck and spot, 2-5.5 lbs. 5 DTH.

- T, E, P M3 Manzate 5 Pro-Stick Disp. Granules (EPA 70506-234) REI 24 hrs (mancozeb) (limit 22.4 lbs.) (UPI); An, EG, LB, Leaf mold, Septoria L S, 0.75-1.5 lbs./A; Bac. Speck and spot, 1.5-3 lbs./A (Use full rate of fixed copper with a half to full rate of Manzate). 5 DTH. Also T M3 Manzate Flowable (EPA 70506-236).

- T, E, P M1 Mastercop 0 (EPA 55272-18-66222) REI 48 hrs. (copper sulfate pentahydrate) (limit 40 pts. T, 9 pts. E, 30 pts. P) (MANA); T for Anth, Bac. Speck, spot, EB, Leaf mold, LB, Septoria @ 0.5-3.0 pts.; E for Altern, Anth, Phomopsis @ 0.5-1.5 pts.; P for Anth, Bac. LS, Cercospora @ 0.5-3.0 pts. 0 DTH.

- T, E, P M2 Microfine Sulfur 0 (EPA 6325-13-34704) REI 24 hrs (90% sulfur) (Loveland); see label for rates. 0 DTH.

- T, E, P M2 Micro Sulf 0 OMRI (EPA 55146-75) REI 24 hrs (Sulfur) (Nufarm) T PM and mites, 5-10lbs.; E PM, 4-6 lbs.; P PM, mites 3-10 lbs. 0 DTH.

- T, P M2 Microthiol Disperss 0 OMRI (EPA 70506-187) REI 24 hrs (80% sulfur) (UPI); T, P PM also mite control, 5-10 lbs. 0 DTH.

- T, E, P M3 MilStop 0 OMRI (EPA 70870-1-68539) REI 1 hrs (potassium bicarbonate) (BioWorks); PM primarily, 2.5-5 lbs./A; (approved for GH use). 0 DTH.

- T, E, P M3 Mycostop 0 OMRI (EPA 64137-5) REI 4 hrs (Streptomyces griseoviridis, biological Group) (Verdera Oy) Product may be used in a variety of application methods per label; for a variety of root pathogens. 0 DTH.

- T, E, P M1 Nordox 75WB 0 OMRI (EPA 48142-4) REI 12 hrs. (83.9% cuprous oxide) (Nordox AS); assorted diseases on label. 0 DTH.

- T, E, P M1 Nu-Cop 0 50WP OMRI (EPA 45002-7) REI 24 hrs (77 % cupric hydroxide, equiv. 50%) (Albaugh). T, EB, LB, Bac. speck and spot, Anth, Septoria varies 2-4 lbs./A; E Alter Blt, Anth, Phomopsis, 2 lbs.; P Bac. spot, 2-3 lbs. (Approved for greenhouse and shadehouse crops on label). 0 DTH. See also Nu-Cop 3L (EPA 42750-75) and Nu-Cop HB (EPA 42750-132) for use on TEP.

- T, E, P 33 Nutrol (EPA 70644-1) REI 4 hrs. (potassium dihydrogen phosphate) (LidoChem). T,P for PM, 8-16lbs./A; TEP for LB, Leaf mold, Root rot, Do, Fusarium wilt, Gray mold (generic listing);
Nutrol acts as a buffer resulting in an acidic spray soln.; do not combine with copper fungicides or any spray material that warns against low pH applications (< 5.5). 0 DTH.

- **T, P Oxidate<sup>0</sup>, OMRI** (EPA 70299-2) REI 1 hr (hydrogen peroxide) (BioSafe Systems); For Greenhouse use see label. 0 DTH. **Also**: Oxidate 2.0 (EPA 70299-12).

- **T<sup>5</sup> M<sup>3</sup> Penncozeb 75DF<sup>5</sup> (EPA 70506-185) REI 24 hrs (mancozeb) (limit 16.8 lbs.) (UPI); AN, EB, Gray leaf mold, LB, Septoria L. S., 0.75-3 lbs./A; Bac Spot and speck, Use full rate copper + ½ rate of mancozeb. 5 DTH. **Also** T<sup>5 M<sup>3</sup> Penncozeb 80WP (EPA 70506-183)

- **T, P<sup>3</sup> Phostrol<sup>0</sup>** (EPA 55146-83) REI 4 hrs (Na, K, NH<sub>4</sub> phosphorous acid) (Nufarm); T = Phytophthora Root Rot, 2.5-5 pts. in min. of 10 gal of water or at higher rate if disease pressure is high; P = Phytophthora, Pythium, 1-2 qts. to foliage. 0 DTH.

- **T, E, P<sup>Bio</sup> PlantShield<sup>0</sup>, oxin®** (EPA 68539-4) REI none listed (Trichoderma harzianum) (BioWorks); * T, E, P<sup>4</sup> Presidio 4F<sup>2</sup> or longer (EPA 59639-140) REI 12 hrs (fluopicolide) (no more than 4 applications [12 fl oz] per season) (Valent). Use for the control of selective oomycetes. LB, Phytophthora blight (P. capsici), 3-4 fl oz/A. (must be tank mixed with another fungicide with a different MOA; no more than 2 sequential applications before alternating to another effective fungicide). 2 DTH or longer depending on mixing partner.

- **T, E, P Prev-Am Ultra** (EPA 72662-3) REI 12 hrs (sodium tetaborohydride decahydrate, borax) (Citrus Oil); LB, PM, 50 fl oz/100 gal. water (also insects). 0 DTH.

- **T, P<sup>28</sup> Previcur Flex<sup>5</sup>** (EPA 264-678) REI 12 hrs (propamocarb plus protectant) (limit of 7.5 pts./season) (Bayer); T = LB, EB, 0.7-1.5 pts. plus protectant, Pythium root rot, 1.5 pt. (5 DTH); P = Pythium root rot, 1.2 pt. (5 DTH). **T, P** Greenhouse use before and after transplanting for *Pythium* and *Phytophthora* spp. responsible for root rot and damping off only, see label for specifics.

- **T, E, P<sup>3</sup> Priaxor<sup>7</sup>** (EPA 7969-311) REI 12 hrs (fluxapyroxad + pyraclostrobin) (limit 24 fl oz) (BASF); Anth, EB, Black Mold, Septoria LS, Target spot, 4-8 fl oz; PM, 6-8 fl oz; Suppression only for Gray mold, Rhiz stem rot, White mold, Sou. Blt, 4-8 fl oz; Suppression of LB, 8 fl oz. (Do not make more than 2 consecutive applications before alternating to a fungicide with a different MOA). 7 DTH.

- **T, E, P<sup>3</sup> ProPhyt<sup>0</sup>** see Helena ProPhyt.

- **T, E, P<sup>11</sup> Quadris<sup>F</sup>** (EPA 100-1098) REI 4 hrs (azoxystrobin) (tomato [37 fl oz]; E and P [61.5 fl oz] (Syngenta); Foliar T = AN, Blk Mold, Buckeye rot, *EB*, Septoria leaf spot, PM, 5.0-6.2 fl oz; LB, 6.2 fl oz; P and E (limit of 61.5 fl oz/Season) = PM (Oidiopsis?) AN, 6.0-15.5 fl oz; Rhizoctonia seedling rot, 0.40-0.80 fl oz/1000 row ft. (Do not apply near apple trees; do not use alone for tomato due to EB resistance); (Do not make more than 1 application before switching to a fungicide with a different MOA). (No Greenhouse use on food crops). 0 DTH.

- **T<sup>11+M5</sup> Quadris Opt<sup>I</sup>** F (EPA 100-1171) REI 12 hrs (azoxystrobin + chlorothalonil) [limit of 15.0 lbs. a.i. of chlorothalonol and 0.5 lbs. a.i.] (Syngenta); T = AN, Blk. Mold, Buckeye Rot, E<sub>ok</sub>, PM, Septoria leaf spot, LB, 1.6 pt. (Do not apply near apple trees); (Do not make more than 1 application before switching to a fungicide with a different MOA); Delay application until 21 days after tsp.. or 35 days after seeding). (No Greenhouse use on food crops). 0 DTH.

- **T, E, P<sup>11+3</sup> Quadris Top<sup>0</sup>** (EPA 100-1313) REI 12 hrs. (azoxystrobin + difenoconazole) (limit of 47 fl oz/season on tomato; limit of 55.3 fl oz on E & P) (Syngenta); T EB, Blk mold, PM, Septoria LS, Target spot, Anth. Leaf mold, 8.0 fl oz/A, 0 DTH; E & P Anth, Cercospora ls, Gray Is, PM, 8.0-14.0 fl oz/A. 0 DTH. (Make no more than 2 applications before switching to another effective fungicide; Do not apply near apple trees)

- **P<sup>7</sup> Quintec<sup>3</sup>** (EPA 62719-375) REI 12 hrs (quinoxyfen) (limit of 24 fl oz) (Dow); PEPPER only for control of Powdery mildew (*Leveillula taurica*) in all pepper types, 4-6 fl oz/A. 3 DTH.
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- **T, E, P** Rally^3^, 40WS Packets^0^ (EPA 62719-410) REI 24 hrs *(myclobutanil)* (limit to 1.25 lbs., applies to all 3) (Dow); for control of PM (*Leveillula* 2.5-4 oz/A for T; 2.5-5 oz E and P; (due to fungicide resistance concerns make sure of alternate with fungicides effective for PM and/or tank mix Rally with a protectant fungicide, at full label rate). 0 DTH.

- **T, E, P** Rampart^0^ (EPA 34704-924) REI 4 hrs *(Mono- and dipotassium salts of phosphorous acid)* (Loveland); Generic label for Phytophthora blight, Downy mildew and late blight, 1-4 quarts in a minimum of 20 gal water/A; do not apply at intervals less than 3 days. 0 DTH.

- **T, E, P** Ranman 400 SC 0 or longer (EPA 71512-3) REI 12 hrs *(cyazofamid)* (limit to 16.5 fl oz) (ISK, FMC); T LB, 2.1-2.75 fl oz.; E & P Phytophthora blight 2.75 fl oz. Gr. Hs. tomato for Pythium, 3 fl oz as single treatment before transplanting. (Alternate Ranman with a fungicide with a different MOA; Tank mix Ranman with an organosilicone surfactant when water volumes are up to 60 gal/A). 0 DTH or longer.

- *† T, E, P* Reason^1^ 14 500SC (EPA 264-695) REI 12 hrs *(fenamidone)* (limit of 24.6 fl oz) (Bayer); T = EB ok if tank-mixed, LB, (Septoria leaf spot suppression only), 5.5-8.2 fl oz. (E & P Phytophthora foliar and fruit suppression only), 8.2 fl oz/A. (Do not make more than 1 application of product before switching to a fungicide with a diff. MOA). (2ee) for NYS Tomato for EB/LB control, drops labeled rate to 4.0 fl oz when tank-mixed with the minimum labeled amount for any labeled chlorothalonil or mancozeb product). 14 DTH.

- **T, E, P** SAR Regalia EC 0, OMRI (EPA 84059-3) REI 4 h, *(Reynoutria sachalinensis extract, biological SAR)* (Marrone); Multiple diseases, 2-4 qts/50-100 gal or 1-4 qts/A when mixed with another registered fungicide. May be used in greenhouses. 0 DTH.

- *T, E, P* Resist 57^0^ (EPA 82940-1) REI 4 h. *(mono- and dipotassium salts of phosphorous acid)* (Actagro); Foliar Generic label for late blight, 1-3 quarts in a minimum of 20 gal water/A. 0 DTH.

- **E, P** Reves^4^ 2.08SC (EPA 100-1254). REI 4 hrs *(mandipropamid)* (limit to 32 fl oz) (Syngenta). Full label primarily intended in pepper for DM (8 fl oz /A) and for suppression of Phytophthora blight for “E” (*P. capsici*) (8 fl oz/A). (for DM control, make no more than 2 consecutive applications before switching to a product with a different MOA; for suppression of Phyto Blight, tank mix Reves with copper and then alternate with a different MOA fungicide). 1 DTH.

- **T** Reves Top^1^ (EPA 100-1278). REI 12 hrs *(mandipropamid and 21.9 % difenoconazole)* (limit 28 fl oz) (Syngenta). For field use only and not for tomato transplant production. Anth, Blk mold (*A. a.*), Early blight, Late blight, leaf mold, PM (*Leveillula taurica*), Septoria LS, 5.5-7 fl oz/A. (Apply no more than 2 consecutive sprays before switching to another effective fungicide; Addition of a non-ionic surfactant is recommended; do not use on varieties which when mature are less than 2 inches, ie. Cherry tomatoes). 1 DTH.

- **T, E, P** Ridomil Gold^0^ soil; 7 foliar SL (EPA 100-1202) REI 48 hrs *(mefenoxam)* (Syngenta); see also *Ultra Flourish*^4^ soil; 7 foliar (NuFarm); **T** = Soil applications for Pythium damping off, 1 pt. 0 DTH; Phytophthora root and fruit rot, 1 pts. directed under the vines. (Does not control foliar phase; do not apply more than 3 pts. per season; do not use as a water transplant treatment, and do not use in greenhouse or on field-grown vegetable bedding plants). 7 DTH; P and E = 1 pts. per surface treated acre. 7 DTH. Crown rot phase 1 pt. 7 DTH. See also Twist (EPA 100-1145) (25.1 % mefenoxam).

- **T** Ridomil Gold Bravo^5^ SC (EPA 100-1221) REI 48 hrs *(mefenoxam + chlorothalonil)* (limit of 11.25 lbs. a.i. of chlorothalonil/season) (Syngenta); **T = LB** (US22^T&P, US23^T&P, US24^tonb) and Fruit rot caused by Phytophthora spp., 2.5 pts., EB, leaf mold, Septoria leaf spot, 2.5 pts., Anth, Alternaria Black Fruit rot, Rhizoctonia fruit rot, Botrytis gray mold, 2.5-3.25 pts., if severe, use hi rate and add additional chlorothalonil. 5 DTH.
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- **T, P**[^4+M1] **Ridomil Gold Copper**[^T=14; P=7] (EPA 100-804) REI 48 hrs. (see LB comments above)
- **T**[^4M2] **Ridomil Gold MZ**[^5] WG (EPA 100-1269) REI 48 hrs. (see LB comments above)
- **T, E, P**[^Bio][M] **RootShield Granules**[^0, OMRI] (EPA 68539-3); **Also** **RootShield WP**[^0, OMRI] (EPA 68539-7), 0 REI (Trichoderma harzianum) (Bioworks); In-furrow 5-12 lbs./A; Gr, Hs, Planting mix 1-1.5 lbs./cubic yd. soil mix; Hydroponic tomatoes, Gr, Hs, Planting mix 1-1.5 lbs./cubic yd. soil mix. 0 DTH.
- **TEP**[^Bio][M] **RootShield Plus Granules**[^0, OMRI] (EPA 68539-10) (Trichoderma harzianum + Trichoderma virens strain G-41); **Also** TEP **RootShield Plus WP**[^0, OMRI] (EPA 68539-) In-furrow and Gr Hs planting mix, etc.; 0 DTH.
- **T**[^5] **F**[^M3] **Roper DF** Rainshield (EPA 34704-1063) REI 24 hrs. (58.1%, mancozeb) (Loveland); Anth, EB, LB, **Leaf Mold**, Septoria, 0.75-1.5 lb; Bac Speck, spot, 1.5-3 lb (limit 22.4 lb). 5 DTH.
- **T**[^9] **Scala**[^1] 400SC (EPA 264-788) REI 12 hrs (pyrimethanil) (limit of 35 fl oz/season). (Bayer); T = EB, Botrytis Gray mold, 7 fl oz. (Use only in a tank mix with another fungicide effective for these diseases). (May be used in well-ventilated plastic or glass greenhouses). **1 DTH but depends on mixing partner.**
- **T, E, P**[^Bio][M] **Serenade**[^0, OMRI] ASO (EPA 69592-12) (Bacillus subtilis, biological), REI 4 hrs (AgraQuest); Field use EB, LB, PM 2-6 qts/A; Bac. Spot, 2-6 qts/A combined with registered copper. **0 DTH.**
- **T, E, P**[^Bio][M] **Serenade MAX**[^0, OMRI] (EPA 69592-11) REI 4 hrs (Bacillus subtilis, biological) (AgraQuest); Field Bac. Spot, Speck EB, LB, **Gray mold**, Septoria, 1-3 lbs./A. **0 DTH.**
- **T, E, P**[^Bio][M] **Serenade SO**[^0, OMRI] (EPA 69592-12) REI 4 hrs (Bacillus subtilis, biological) (AgraQuest); For Rhizoctonia, Pythium, Fusarium, Verticillium, and Phytophthora as a soil drench (2-6 qts/A); as in-furrow (2.2-13.2 fl oz/1,000 row feet). **0 DTH.**
- **T, E, P**[^Bio][M] **Sonata**[^0, OMRI] (EPA 69592-13) REI 4 hrs (Bacillus pumilis, biological) (AgraQuest); Field and **Greenhouse Use** Bac. Spot, PM, EB, LB; 2-4 qts/A/100 gal. **0 DTH.**
- **T, E, P**[^M][M2] **Sulfur 6L**[^9] (EPA 66330-211) REI 24 hrs (Sulfur, 6 lbs./gal.) (Arysta); T powdery mildew, russet and two-spotted mites, 4-10 2/3 pts/A; E PM, 3 1/3 to 5 2/3 gal/A. **0 DTH.**
- **T, E, P**[^M][M] **SuffOil-X**[^0, OMRI] (EPA 48813-1-68539) REI 4h (petroleum oil) (BioWorks); labeled only for insects. **0 DTH.**
- **†T**[^9+H] **Switch 62.5WG**[^0] (EPA 100-953) REI 12h, (cyprodinil, 37.5% + fludioxonil, 25%) (limit 56 oz) (Syngenta); Early blight, gray mold, Powderly mildew (Leveillula), 11-14 oz/A. **0 DTH.** (Limit to 2 applications and then rotate to another MOA fungicide; **Do not apply to small types (cherry or grape) in the greenhouse.**
- **T, E, P**[^Bio][M] **T 22H**[^OMRI] HC (EPA 68539-4) REI 0 hrs. (Trichoderma harzianum, biological)
- **T, P**[^11+27] **Tanos**[^3 or longer] 50DF (EPA 352-604) REI 12 hrs (famoxadone + cymoxanil), (limit of 72 oz/season, both crops), must be tank mixed with a protectant) (DuPont); (Do not apply more than 1 application before switching to a fungicide with a different MOA; Do not apply more than 50% of applications of Tanos or other Group 11 fungicide per season; T = EB ok if tank mixed, 6-8 oz; LB, 8 oz (protectant can be mancozeb (5 DTH), chlorothalonil (0 DTH), Kocide (0 DTH), etc.); AN, Gray leaf mold, LB, Septoria leaf spot, 8 oz; disease suppression of Bac. Spot, Bac. Speck, Buckeye rot, 8 oz; 2ee for Dis. Suppression of Bacterial Canker, 8 oz. **3 DTH, but 5 DTH if using mancozeb; P = Suppression of Phytophthora Blight (foliar and fruit phase only), 8-10 oz. **3 DTH.**
- **T, E, P**[^M/E] **That Flowable Sulfur**[^0] (EPA 57538-5) REI 24 hrs. (**Sulfur**) (Stoller); T russet mite 0.5-1 gal/A; E PM 1-2 gal/A; P PM, red spider mite, 3-5 pts/A. **0 DTH.**
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- **T, E, P Oil Trilogy** (EPA 70051-2) REI 4 hrs (70% clarified hydrophobic extract of Neem oil, biological) (Certis); ALL, Listed for multiple diseases including EB, Anth, Botrytis and PM and insects, 0.5-1% in 25-100 gal/A. **0 DTH.**

- **T, E, P Twist** (EPA 100-1145) REI 0 hrs if soil injected or incorporated (mefenoxam 25-1%) (Syngenta); **T**, root and fruit rot by Phytophthora, see label for rates; **E and P** Crown rot by P. capsici, see label for rates. **7 DTH.** See also **Ridomil Gold SL (EPA 100-1202)**

- **T, E, P Ultra Flourish (EPA 55146-73) REI 48 hrs (mefenoxam)** (Nufarm); **E, P** Soil applications will provide control of Pythium damping off and Phytophthora crown rot, at 2 pts.; **T** Pythium damping off 2-4 pts. Phytophthora root and fruit rot, 2 pt. (Do not use as a water transplant treatment, and do not use in greenhouse or on field-grown vegetable bedding plants). **0 DTH.**

- **† T, E, P Vydate L (EPA 352-372) REI 48 hrs (oxamyl, insecticide/nematicide)** (DuPont); for nematodes (root knot, sting, lesion, and ring), also insects see label for foliar or drip application; (**† Not for use on Long Island**) **T = 3 DTH, E = 7 DTH, P = 7 DTH.**

- **45 + 40** Zampro⁴ (ametocradin + dimethomorph) (EPA ?) (BASF) LB and Phytophthora suppression. **4 DTH.**

- **T M³ Ziram⁷ 76DF (EPA 70506-173) REI 48 hrs (ziram) (limit of 24 lbs./season) (UPI);** **(Not for use on cherry tomatoes).** AN, EB, Septoria leaf spot, 3-4 lbs./A; may be mixed with copper fungicides to enhance bacterial disease control. **7 DTH.**

- **T M³ Ziram Granuflo⁷ (EPA 45728-12) REI 48 hrs. (ziram 76%) (limit of 24 lbs./season) (Taminco);** Anth, EB, Septoria, 3-4 lbs./A. **7 DTH.** Do not use on cherry tomatoes.

- **† T 22 Zoxium 80WS⁵ (EPA 10163-6413) REI 48 hrs. (zoxamide) (limit of 8 applic. or 2 lbs./season) (Gowan); Late Blight and Buckeye rot, 2.5-4.0 oz/A. (Do not make more than 2 sequential applications before alternating to a fungicide with a different MOA).** **5 DTH.**

This summary is provided as a helpful guide to most of the products that are available for Tomato, Eggplant, or Pepper Disease Control and is not a substitute for Pesticide Labels. Refer to the 2014 Cornell Vegetable Guidelines or the product label before buying any product. 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.

**ABBREVIATIONS:** † = Restricted for no use on LI; * = Restricted to commercial applicator use; M = Multi-site activity; OLF = Other labeled formulation; MOA = mode of action; TEP = for tomato, eggplant and pepper, respectively.

** TOMATO Diseases** and responsible pathogens: **AN** = Anthracnose, Colletotrichum coccodes; **EB** = Early blight, Alternaria. tomatophila; **LB** = Late blight, Phytophthora infestans (particularly US-22, 23 and others); **Alternaria black mold** = A. alternata f. sp. lycopersici; **Leaf mold** = Fulvia (Passalora) fulva (syn. Cladosporium); **Gray mold** = Botrytis cinerea; **PM** = T Powdery mildew Oidium neolycopersici common in greenhouses; **PM** of T, P & E = Sphaerotheca, and more correctly Leveillula taurica (Oidiopsis taurica) which is rare in NYS; **Phomopsis fruit rot of pepper** = Phomopsis capsici; **Phomopsis Fruit rot of eggplant** (Phomopsis Blt in eggplant) = Phomopsis vexans; **White mold** = Sclerotinia sclerotiorum; **Zonate leaf spot** = Cristulariella moricola (on top foliage can look like LB); **Rhizoctonia diseases** (Damping off, fruit rot, foliar blight) = Rhizoctonia solani; **Buckeye rot**, P. capsici; **Bacterial canker** = Clavibacter michiganensis subsp. michiganensis; **Rhizoctonia stem rot of pepper and eggplant** = Rhizoctonia solani; **Septoria leaf spot**, Septoria lycopersici; **Target spot** (not in NYS). **Corynespora cassiicola;** **Bacterial speck** = Pseudomonas syringae pv. tomato; **Bacterial leaf spot** is caused by 6 Xanthomonas species: **Xanthomonas perforans** (T5); **X. perforans** (T4); X. perforans (T3); Xanthomonas vesicatoria (T2); X. euvesicatoria (1); and X. gardneri. 

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9
Overview of Tomato (T), Eggplant (E) and Pepper (P) Fungicide Roster with *Product Details*

See: [http://vegetablemdonline.ppmt.cornell.edu](http://vegetablemdonline.ppmt.cornell.edu) for more updates (underlined = labeled for NYS) T. A. Zitter, JULY 2014, (fungicide limit given is per season); Systemic fungicides are in BOLD; Fungicides are listed first in upper left corner.

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

- **MS** chlorothalonil
- **T**, E, P Bravo Weather Stik, Bravo Ultra, Equus 720 SST & DF & Echo 720 are complete for all three crops (see limits on label), (others *only* include Bravo Zn, Chlorothalonil 720 SC, Initiate 720SF and Zn, and Echo 90DF (soilborne fungi))
- **TP**
  - **M1** copper, **M2** Basic Copper Sulfate & **M3** Cameto O, **M4** Charg 2F, Dry Prill, WG
  - **M5** Cuprofix Ultra, Ultra-40 Dispers, Kocide (ex 3000), Mastercote, Nordox 75BP, Nu-Cap 50WP, ASO 3L: HB
  - **M6** = Anth, Bac Speck, Spot, EB, Septoria LS, see label
- **TM** ziram = Ziram or Zir. Granulof (An, EB, Septoria) (limit of 24 lbs./sea.)
- **TEP**
  - **M1** copper, **M2** Basic Copper Sulfate & **M3** Cameto O, **M4** Charg 2F, Dry Prill, WG
  - **M5** Cuprofix Ultra

**Multiple Disease Control**

- **TEP**
  - **M1** copper, **M2** Basic Copper Sulfate & **M3** Cameto O, **M4** Charg 2F, Dry Prill, WG
  - **M5** Cuprofix Ultra

**Others (Botrytis Gray Mold, Powdery Mildew, White mold)**

- **TEP**
  - **M1** Copper (copper hydroxide + MZ) (Tomato): Anth, EB, LB, Septoria LS, Gray Mold, Bac Speck, Spots & Spots; **M2** Anth, Bac Speck, Bac Spot, EB, Septoria LS, see label
  - **TM** ziram = Ziram or Zir. Granulof (An, EB, Septoria) (limit of 24 lbs./sea.)

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

- **TEP**
  - **M1** Ridomil Gold Bravo SC (mefenoxam + chlorothalonil) (LB, US-22, 23 only, EB) also **M2** RidGold/Copper
  - **M3** RidGold/Mancozeb (LB)
  - **M4** Previcur Flex (propamocarb) (LB, EB with TMix protectant) (limit 7.5 pts.)
### 2014 Tomato, Eggplant, Pepper Fungicide Roster for NYS

- EP 4 Revus 1 day or longer by mixing partner (mandipropamid)
  (limit 32 fl oz) P = for DM and supp. Phytophthora blight for E & P
- T 50 Rebus Top 1 (mandipropamid + difenoconazole)
  Anth, Blk Mold, EB, LB, leaf mold, PM, Sept (limit 28 fl oz)
- T 32 Curate 3 days or longer by mixing partner (cyoxanil)
  (limit of 30 oz) (LB & EB with TMix protectant)
- T 41 Tano 3 for longer (famoxadone + cyoxanil) needs to be tank-mix with protectant (LB, other diseases) (72 oz)
- * T 22 + M 3 Gavel 1 (zoxyamide + mancozeb) (limit 16 lbs.) (LB, also very good on EB)
- * T 22 Zoxium 1 (zoxyamide) (limit 2 lbs.) (LB and Buckeye rot)
- TEP 32 + M 3 or 3 Ranman 0 or longer if tank-mixed (cyazofamid)
  (limit 16.5 fl oz) (LB, EB with added TMix protectant, Phytophyl blt.)
- ** TEP 1 Reason 1 (fenamidone) (limit 24.6 fl oz)
  (Phytophyl foliar and fruit suppression)
- TEP 3 Forum 4 for 4 days or longer depending on mixing partner; EB plus 3 days or longer as determined by mixing partner; (dimethomorph)
  (30 oz limit) (LB, EB with TMix added protectant)
- T 55s 1 Catamaram 0 (chlorothalonil + phosphorous acid) (limit of 50 pts.) (Fol, EB, LB, Prunus, Anth, Alt., LB, Rhiz.)
- TEP 3 Agri-Fos 0 * Fosphite; Fungi-Phite, ProPhyt, * Kphite 7LP, * Phostrol, Rampart 0, * Resist 57 (phosphorous acid) *(l, b, some suppression of bacteria on labels)

### Oomycetes (Pythium, Phytophth, root rot)

- TEP 3 Ridomil Gold 0 soil, 7 folia, Ultra Flourish, Twist
- TP 4 Kphite, Phostrol, Rampart 0
- T 31 Aliette 14

### Greenhouse Usage (Check label for specifics)

- M TEP 7 Badge X 0 (copper), Badge SC, Champ2F, Champ Dry Prill, Champ WG 0, C-O-C, S WDG, Curve 0 OMRI, Cuprofix Ultra 40 Disperss, Kentan DF, Kocide (all formulations), Nordox 75WB 0 OMRI, Nu-Cop 50WP 0 OMRI (+ other formulations)
  (Bac. and fungi, Gray leaf mold, leaf mold)
- 4 Agri-mycin 17 (or OLP) (Streptomycin) (Seedlings only prior to field) (Bac. Dis.)
- Bio. TEP 9 RootShield Granules & WP OMRI (Trichoderma harzianum); RootShield Plus Gr & WP (T. harzianum and T. virens) (soilborne pathogens)
- M TEP JMS Stylo-Oil 0 OMRI (mineral oil) (EB, PM, insects)
- M TEP Contans 0 OMRI (Coniothyrium mimitans) 0 Mold
- M TEP M-Pede 0 OMRI (K salts of fatty acids) (PM)
- T 34 Kranam 1 (cyoxanilamid) (1 application in Gr. Hs tray for Pythium DO)
- M TEP Regalia OMRI (extract of Reynoutria) (SAR, multiple diseases)
- TP Fontelis 0 (penthiopyrad) (EB, Gray mold, PM, Sept Ls, Anth suppression)
- TEP Decree 1 (fenhexamid) (Gray mold)
- s. 28 TP Previcur Flex 1 (propamocarb) (Gr. Hs, drip sys. or drench for root rot and Damping off) (Pythium, Phytophthora)
- T T Scala 1 (pyrimethanil) (Gr. Hs or high tunnel, well ventilated) (EB, Botrytis Gray mold)
- M TEP Oxidate (hydrogen peroxide) (Oxidizing agent)
- M TEP Armicarb 0, Kaligreen 1 OMRI, MilStop 0 OMRI, (PM)
- Bio. TEP Cease, Sonata 0 (B. subtillis, B. pumilis) (PM) OMRI
- T.P 3 Fontelis 0 (penthiopyrad) (limit 72 fl oz) (Altin, Gray mold, PM, Seortia, Supp. Anth)

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

- M TEP Badge X 0 Basic Copper 53 (Gray leaf mold)
  Camelot Q, Nu-Cop (Bac. and fungi, Gray leaf mold), Champ WG, Curve, Nordox 75WB
- Bio. TEP RootShield Granules & WP 0, (Trichoderma harzianum) (soilborne pathogens), TEP RootShield Plus Granules & WP 0 (T. harzianum and T. virens) (soilborne pathogens)
- SAR TEP Regalia 0 (Reynoutria) (Multiple diseases)
- M TEP Trilox 0 (neem oil) (EB, Anth, (PM)
- Bio. TEP Contans 0 (Coniothyrium) (White mold)
- M TEP Organic JMS Stylo Oil 0 (mineral oil) (PM)
- M TEP SufOil-X 0 (insects only)
- M TEP Kaligreen 1, MilStop 0 (K bicarbonate) (PM)
- Bio. TEP Mycostop 0 (S. griseoviridis) (PM)
- M TEP Oxidate 0 (hydrogen peroxide)
- Bio (OAM) TEP Serenade ASO 0 (PM), Serenade MAX 0 (PM), Cease 0, (PM), Serenade Soil 0 (B. subtillis), Sonata 0 (B. pumilis) (Soilborne diseases)
- M2 TEP Kumulus DF 0, 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.