Alphabetical Fungicide List for Potato

- **Acrobat** 50 WP (EPA 73314-1) REI 1 hr or till dry as foliar application. 
- **Actinovate AG** (EPA 73314-2) REI 4 hrs. (Streptomyces lyicus WYEC 108, biological) (Natural Industries) AG as in-furrow and soil drench at planting for Fusarium, Rhizoctonia, Pythium, Phytophthora, 3-12 oz/A in sufficient water; Foliar treatment for Botrytis, Alternaria, 3-12 oz/20-150 gal/A. **0 DTH.**
- **Actino-Iron** (EPA 73314-2) REI 4 hrs. (Streptomyces lyicus WYEC 108, biological) (Natural Industries); for Fusarium, Rhizoctonia, Pythium, Phytophthora; In-furrow application, 10-15 lb/A; also used as a side-dress followed by watering in. **0 DTH.**
- **AgClor 310** (EPA 2792-62) REI 4 hrs (sodium hypochlorite, 12.5%) (Decco Postharvest) Postharvest: 65-125 ppm of chlorine, with conc. given for use in flow through washer systems only; for treating potatoes in a pit system use 100-150 ppm Cl₂ **0 DTH.**
- **Agri-Fos** (EPA 71962-1) REI 4 hrs (phosphorous acid) (Liquid Fertilizer); in-furrow Pink rot & leak 2-5 qt/10 gal; Foliar LB, PR, Leak, 1.25 qt/A; Postharvest: For use on russet potatoes (processing) for LB and Pink rot, 16.5 fl oz/1 gal for ton of tubers. **0 DTH.**
- **Agri-mycin 17** (EPA 55146-96) REI 12 hrs (Streptomycin sulfate) (Nufarm); Soft rot and blackleg, 100 ppm (4 oz/50 gallons water) for treatment of cut seed before planting; inclusion of fungicides is recommended. **0 DTH.**
- **AG Streptomyces** (EPA 66222-121) REI 12 hrs (Streptomycin sulfate) (MANA/Farm Saver); see Agri-mycin 17 above. **0 DTH.**
- **Agri Tin** (EPA 55146-72) REI 48 hrs, (*Restricted applicator use) (triphenyltin hydroxide) (limit of 11.25 oz/season) (Nufarm); EBOK, LB, suppression of CPB, 2.5-3.75 dry oz pack/A. **7 DTH.**
- **Badge SC** (EPA 80289-3) (limit 88.15 pts.) or **Badge X₂** (EPA 80289-12) (limit 25 lbs.) REI 48 hrs (copper oxychloride + copper hydroxide, 20 or 28% metallic equiv. w/w) (Isagro). EBOK, LB, 0.9-3.7 pt/A. **0 DTH.** (Greenhouse and shadehouse use for crops on label).
**Basic Copper** 53\(^0\), OMRI (EPA 45002-8) REI 24 hrs (basic copper sulfate, 53% metallic equiv.) (Albaugh). EB\(^{OK}\), LB, 3-6 lb/A. 0 DTH.

**Basic Copper Sulfate** 0 (EPA 46923-9) REI 24 hrs (basic copper sulfate, 53% metallic equiv.) (Old Bridge); EB\(^{OK}\), LB, 3-6 lb/A. 0 DTH.

**Bio Save 10 LB** 0, OMRI (EPA 81803-5) REI 4 hrs? (Pseudomonas syringae strain ESC-10, biological) (JET Harvest Solutions); A postharvest biological disease prevention treatment, aids in the control of dry rot and silver scurf; for overhead spray application, add 500 g to 30 gallon of water and agitate to achieve uniform coverage to 3,000 cwt of potatoes. DTH does not apply.

**Blocker** 4F (EPA 5481-472) REI 12 hrs (quintozeine, PCNB) (limit 20 lbs. actual) (Amvac); In-furrow Rhizoc stem canker and Blk scurf, 5-10 pt (34-in row spacing; 5-2.10.4 fl oz/1,000 row ft. 0 DTH. (NOTE: product has a 24c in western states for chemigation method of application for WM and Black Dot control)

**Bravo Weather Stik** 6SC (EPA 50534-188-100) REI 12 hrs (54% chlorothalonil) (limit of 15 pts./A or 11.25 lbs. a.i./A/season) (Syngenta); EB\(^ {OK}\), rotate, LB, Botrytis vine rot, Black Dot, ¾ pt. then 1 - 1 ½ pt/A. 7 DTH. (Do not use on greenhouse-grown crops)

**Bravo Ultrex** 82.5 WDG (EPA 50534-201-100) REI 12 hrs (chlorothalonil) (limit 13.6 lbs.) (Syngenta); EB\(^ {OK}\), rotate, LB, Botrytis vine rot, 0.7 lb then 0.9-1.4 lb. then 0.75-1.1 lbs/A. 7 DTH. (Do not use on greenhouse-grown crops).

**Cabrio Plus** 3 (EPA 7969-321) REI 24hrs. (pyraclostrobin + metiram) (limit of 17.4lb/A or 6 applic/ season) (BASF); 2-2.9 lb/A for Black Dot and EB\(^ {OK}\); LB and PM use 2.9 lb/A; suppression of white mold; (max. sequential applications is 2; No aerial application in NYS). 3 DTH.

**Camelot 0** 0, OMRI (EPA 67702-2-67690) REI 4 hrs. (10% octanoic acid, copper salt) (W. Neudorff) 0 DTH.

**Catamaran** 7 (EPA 42519-31) REI 12h (chlorothalonil, 16.7% + potassium phosphite, 38.9%) (limit of 40 pt./A/season). (Luxembourg-Pamol); Late Blight, EB\(^ {OK}\), Botrytis vine rot, Black Dot, 4-5.5 pt/A. 7 DTH.

**Champion** Formula 2 0 (EPA 55146-64), REI 24 hrs (copper hydroxide 37.5%) (Nufarm); EB\(^ {OK}\), LB, 2/3 – 1 pt/A then 2 - 2/3 pt/A; only suppression of CPB. 0 DTH.

**Chlorothalonil SC** 720 SC 7 (EPA 66330-362) REI 12 hrs. with PPE. (54% chlorothalonil) (limit 15 pts.) (Arista); Foliage: EB\(^ {OK}\), rotate, LB, Botrytis vine rot, Black Dot ¾ then 1-1/2 pt. 7 DTH.

**Contans WG** 0, OMRI (EPA 72444-1), REI 4 hrs (Coniothyrium minitans, biological) (Sylvan Bioproducts/Prophyta); WM in agricultural and greenhouse soils, 1-4 lbs. /A, or 0.75-1.5 oz per 1000 sq ft. 0 DTH.

**C-O-C-S SC** WDG 0 (EPA 34704-326) REI 24 hrs. (74.8% copper oxychloride + 14.2% basic copper sulfate, 50% metallic equiv.) (limit 48.8 lbs.) (Loveland). EB\(^ {OK}\), LB, 1 ½-4 lb/A. 0 DTH.
2014 Potato Fungicides NYS

- 1150 ZN - liquid seed treatment (EPA 100-1248) REI 12 hrs. (thiamethoxam 28% + fludioxonil 7%) (Syngenta); See label for rates used on 2.5 oz seed pieces per 100 lb seed; apply over cut or whole seed tubers first before adding any inert dust (fire bark, talc, etc.); apply liquid only with Syngenta approved equipment; use thiamethoxam against certain chewing and sucking insects (aphids, CPB, flea beetles, LH, LM, psyllids and WF); use fludioxonil for Fusarium dry rot, seedborne Rhizoc. and silver scurf. (↑ Not for use on L. l.) 0 DTH.

- M5 Cuprofix Ultra 40 Dispers (EPA 70506-201) REI 48 hrs (40% basic copper sulfate) (limit 62.5 lbs.) (UPI) EB, LB, 0.75-3 lb. (Label allows greenhouse [hoop] and field applications) 0 DTH. Also Cuprofix Dispers DF (20% metallic copper).

- M5 Cueva 0, OMRI Fungicide Concentrate (EPA 67702-70051) REI 4 hrs. (10% copper octanoate) (Neudorff/Certis); EB, LB as generic label 0.5-2 gal/100 gal. 0 DTH.

- 72 Curzate 60 DF (EPA 352-592) REI 12 hrs (cymoxanil) (limit of 7 applications per season) (DuPont) LB, 3.2 oz (Must be tank-mixed with a protectant fungicide); seed treatment for LB, 0.25-1.0 oz/cwt. of cut seed. 14 DTH.

- 16 Decco Salt No. 19 (EPA 2792-50) REI 12 hrs (thiabendazole, 99.5%, resistance common) (Decco US Postharvest); Post harvest treatment Fusarium dry rot of unwashed tubers using 5.67 gm/2000 lbs potato, and may be used as additional treatment before shipping using the same rate or dip the tubers for 20 sec in a solution containing 5.67 gm per gallon of water. Up to half of the fungus population may be resistant* to this fungicide. DTH does not apply.

- M3 Dithane DF Rain Shield (EPA 62719-402) REI 24 hrs (75% mancozeb) (limit of 15 lbs. or 11.2 lbs. a.i./season). (Dow); Seed treatment for Fus. Decay, LB, Com scab, Rhiz, SS 1.25 lb/50 gal; Foliage, EB OK, LB, 0.5-2 lb/A. 3 DTH (* Restricted applicator use). 3 DTH. Also Dithane M-45 (EPA 62719-387) or Dithane F-45 (EPA 70506-183)

- 11 Dynasty (EPA 100-1159) REI 4hrs. (azoxystrobin) (Syngenta); Seed treatment for Rhizoc, Black Dot and Silver Scurf, 0.10-3.75 fl oz/100 lb seed. 0 DTH.

- M3 Echo 720 (EPA 60063-7) REI 12 hrs (chlorothalonil) (limit 11.25 labs. ai) (Sipcam); LB, EB OK, rotate, Botrytis vine rot 0.68 lb then 0.91-1.36 lb. 7 DTH (OLF Echo 90DF) (Do not use on greenhouse-grown crops).

- 743 Emesto Silver (EPA 264-1123) REI 12hrs (penflufen 9.35% + prothioconazole 1.68%) (Bayer) Potato seed piece application. Rhizoc (suppression), Silver scurf. Fusarium seed piece rot (suppression), 0.31 fl oz/100 lb seed pieces (2.5 fl oz of slurry/100 lbs); can add mancozeb for added Fusarium protection; ensure uniform coverage. 0 DTH.

- 7 Endura 70 WG (EPA 7969-197) REI 12 hrs (bosalid) (limit 18 or 20 oz by rate used) (BASF); EB OK, 2.5-4.5 oz; White mold (limit of 2 applications at high rate). Suppression only for Botrytis gray mold. 5.5-10 oz; (Do not make more than 2 sequential applications before switching to a diff. MOA fungicide). 10 DTH.

- M3 Equus 720 SST (EPA 66222-154) REI 12 hrs (54% chlorothalonil) (limit 15 pts.) (MANA); LB, EB OK, rotate Botrytis vine rot 0.75 then 1-1.5 pts/A. 7 DTH. (OLF are Equus 500 ZN Equus DF) (Do not use on greenhouse-grown food crops).

- 11 Evito 480 SC (EPA 62171-MS-001) NOT YET REGISTERED in NYS. REI 12 hrs. (fluoxastrobin) (limit of 22.8 fl oz/season) (Arysta). Primarily for EB* (3.8 fl oz/A) and suppression of LB (3.8 fl oz/A). (Do not use alone for EB* control; 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.  

- **Evolve Potato S-P Treatment** (EPA 264-973) REI 24 hrs (thiophanate-methyl, mancozeb, cymoxanil) (Bayer); Seed treatment to prevent spread of LB, Fusarium dry rot, Rhizoc. Stem canker and Blk scurf, and Silver scurf, 0.75 per 100 lbs cut seed pieces. 0 DTH.

- **Firewall 17WP** (EPA 80990-4) REI 12 hrs (Streptomyces sulf ate) (Agrosource); Bac. soft rot and Blackleg, 100ppm, soak cut seeds in solution and add fungicide for fungal dis.

- **Forum 4.18 SC** (EPA 241-427) REI 12 hrs (43.1% dimethomorph) (Do not exceed 30 oz/A/growing season), replaces Acrobat 50WP (BASF); LB 6 oz/A; Tuber blight suppression 6 oz/A. (Must be tanked mixed with protectant; do not make more than 2 sequential applications before alternating with another material for specific control of LB for at least one application; may be applied after vine killing; addition of spreading/penetrating adjuvant is recommended). 4 DTH.

- **Fosphte** (EPA 68573-2) REI 4 hrs (53% mono- and dipotassium salts of Phosphorous Acid) (JH Biotech); Foliar, Pink rot, Late blight, 3-5 qts/min. 20 gal/A; Postharvest: LB and Pink Rot, 6.4-12.8 fl oz/0.5 gal water/tom of tubers. Do not use at intervals of less than 3 days; do not apply Fosphite foliarly to plants treated with copper at less than 20 day interval. 0 DTH.

- **Fungi-Phite** (EPA 83472-1) REI 4 hrs (45.5% mono- and di-potassium salts of phosphorous acid) (limit of 6 applications) (Plant Protectant); suppression of LB foliar spray 1-2 qt/A in a minimum of 20 gal; Seed piece spray, LB, mix 0.4 quart/2 qt water to treat 2 tons of potato with 1 gal solution; Postharvest: Suppression of LB and pink rot, use 1-1.5 pts/0.5-1 gal water as spray/ ton of tubers. (Suppression means Fungi-Phite needs to be applied with another effective product) 0 DTH.

- **Gaucho-MZ Potato S-P Treatment** (EPA 264-978) REI 24 hrs (1.25% imidacloprid + 6% mancozeb) (Gustafson/Bayer); Seed piece treatment Fusarium dry rot and insect control, 0.5-0.75 lb per 100 pounds of cut seed pieces. 0 DTH.

- **Gavel 75 DF** (EPA 10163-6414) REI 48 hrs, (*Restricted use, toxic to fish); (zoxamide 8.3%, and mancozeb 66.7%) (No more than 6 applications or 15 lbs./season) (Gowan); LB, EB OK, 1.5-2 lbs. 3 DTH.

- **Gem 500 SC** (EPA 264-826) REI 12 hrs (42.6% trifloxystrobin) (limit 23 fl oz/A/season) (Bayer) (No aerial application in NYS) EB*, 2.9-3.8 fl oz; LB 3.8 fl oz in a tank mixed with 75% of a protectant fungicide; (Do not use alone for EB* control; Do not make more than 1 foliar application before switching to fungicides with diff. MOA, other than Group 11. 7 DTH.

- **Headline 3 SC** (2.09 lb ai/gal) (EPA 7969-289) and **Headline 3** (EPA 7969-186) REI 12 hrs (23.6% pyraclostrobin) (limit of 72 fl oz/A/season) (BASF) Black Dot, EB*, 6-9 fl oz; LB = 6-12 fl oz; Suppr only for WM @ 6-12fl oz. (aerial application of SC on Supplemental label till Dec. 2014 in NYS) (Do not use alone for EB* control; Do not make more than 1 application before alternating with a fungicide with a diff. MOA); In-furrow application for the control of soilborne Rhizoctonia 0.4-0.8 fl oz/1000 row feet (0 DTH). Foliar, 3 DTH.

- **Helena ProPhyt** (EPA 42519-22-5905) REI 4 hrs (potassium phosphite) (Helena); Foliar LB, 4 pt/A plus protectants like mancozeb (3 DTH); In-Furrow Storage rots (pink rot, leak), 4-10 pt + mefenoxam 11.6-13 fl oz (14 DTH); Postharvest (LB and Pink rot) 13 fl oz.
to ½ gal water sprayed to ton of potatoes. (see comments under use of Phostrol for postharvest use). 0 DTH. (Do not apply to plants under water stress). 0/3/14 DTH.

- M5 Initiate7 720F (EPA 34704-881) REI 12 hrs, (54% chlorothalonil) (limit 15 pts.) (Loveland); EB OK, rotate, LB, Botrytis vine rot, 5/8-1 ¼ lb/A. 7 DTH.
- M5 JMS Stylet-Oil0. OMRI (EPA 65564-1) REI 4 hr (paraffinic oil, Not classified) (JMS Flower Farms); Alternaria blight, PM, mites, whiteflies, 3-6 qt/A. 0 DTH. (may be used in GH; see label for compatibility information)
- M1 Kentan0 DF (EPA 80289-2) REI 48 hr. (copper hydroxide 61.3% = 40% metallic cu) (limit 25 lbs.) (Isagro). EB, LB, 1-4 lb/A. 0 DTH. May be used for greenhouse crops on label.
- *33 Kphite 7LP0 (EPA 73806-1) REI 4 hrs. (53% Mono & di-potassium salts of phosphorous acid) (Plant Food Systems); Foliar LB and Pink Rot, 1-3 qt in 20 gal water; Commercial applicators only. 0 DTH.
- M1 Kocide0 3000 Dry Flowable (EPA 352-662) REI 48 hr, (copper hydroxide 46.1% = 30% metallic copper equiv.) (limit of 83.3 lbs.) (DuPont). EB OK, LB, 0.5-1.75 lbs. 0 DTH. (May be used for greenhouse crops on label; 1 level TBS per 1000 sq. ft. is equivalent to 0.5 lb per A). See also M1 Kocide 1010 and M1 Kocide 20000.
- M2 Kumulus DF0 OMRI (EPA 51036-352) REI 24 hrs. (80% sulfur) (Microflo). PM, red spider mite, 3-10 lb. 0 DTH.
- 7 Luna Privilege7 (EPA 264-1078) REI 12hrs (fluopyram, 41.5%) (limit of 10.95 fl oz/season, less if aerial) (Bayer); Rates are for ground application for EB OK, 4-0.5,4 fl oz; WM, Botrytis LS, 5.47 fl oz and suppression of SS. (Do not make more than 2 sequential applications of any group7 fungicide before rotating to a fungicide with a different MOA). 7 DTH.
- 7 M-Pede0 OMRI (EPA 10163-324) REI 12 hrs (potassium salts of fatty acids) (Gowan); Insect, Foliar LB and Pink Rot, 1-3 qt in 20 gal water; Commercial applicators only. 0 DTH.
- M1+M3 ManKocide3 (EPA 352-690) REI 48 hrs (mancozeb 15% + copper hydroxide 30% equivalent) (limit 74.66 lbs.) (DuPont) EB OK, LB, 1.5-5 lb/A. (limit to 74.66 lb/season). 3 DTH.
- M3 Manzate Pro-Stick3 (EPA 70506-234) REI 24 hrs (75%, mancozeb) (limit 15 lbs.) (UPI) Seed Treatment for Fus. Decay, seedborne Com Scab, 1 ¼ lb/50 gal; Foliage EB OK, LB, and Black Dot, 1-2 lb/A. See for suppression of Botrytis vine rot. 3 DTH. Also Manzate Flammable (EPA 70506-236).
- M1 Mastercop0 (EPA 55272-18-66222) REI 48 hrs. (copper sulfate pentahydrate, 21.5%) (limit 6 pts.) (MANA) EB OK, LB at 0.5-1.5 pts./A. 0 DTH.
- Maxim 4FS (EPA 100-758) (Syngenta) (fluoxonil 40.3 %). For protection against seed-borne and soil-borne fungi which cause decay, damping-off, and seedling blight, apply 0.08-0.16 fl. oz. of Maxim 4FS per 100 lb. of seed. Maxim 4FS applications to potato seed pieces must be made only through specific types of equipment. Contact a Syngenta seed treatment rep) ; Potatoes Intended for Seed Production: As a resistance management strategy, if Maxim 4FS is used on potatoes intended for seed production, a labeled rate of mancozeb seed treatment dust must be applied to seed tubers after the Maxim 4FS treatment. If the
mancozeb dust is not used, an in-furrow application of Quadris® at 0.4 fl. oz. /1000 ft. of row must be applied over the Maxim 4FS treated seed tubers.

- **12 Maxim 0 Potato Seed Protectant** Also Maxim PSP (EPA 100-821) REI 12 hrs. (0.5% fludioxonil) (Syngenta); for the control of seedborne Fus Dry Rot, Rhizoctonia and Helminthosporium SS, 0.50 lb/100 lb seed. Not for use on seed planted for seed production. 0 DTH.

- **12M3 Maxim MZ Potato Seed Protectant 0** (EPA 100-1158) REI 24 hrs (0.5% fludioxonil + 5.7% mancozeb) (Syngenta); Seed piece treatment for Fusarium dry rot, seedborne Rhizoc, and seed piece borne Silver scurf; 0.5 lb per 100 lbs of seed pieces. DTH does not apply.

- **1†M3 Mertect 340-F** (EPA 100-889) REI 12 hrs (42.3% thiabendazole, resistance common) (Syngenta); Post harvest treatment Fusarium tuber rot*, monitor resistance of fungus population; 0.42 fl oz to 2,000 tubers on a conveyor line with tumbling action. If additional treatment is need before shipping, mist the tubers at the same rate or dip tubers for 20 sec. in a solution containing 0.42 fl oz per gallon of water. DTH does not apply.

- **12Microfine Sulfur 0** (EPA 6325-13-34704) REI 24 hrs (90% sulfur) (Georgia Gulf and Loveland); PM, 4-12.5 lb/A; two-spotted mites 4 – 12.5 lb/A. 0 DTH.

- **12Micro Sulf 0 OMRI** (EPA 55146-75) REI 24 hrs (Sulfur) (Nufarm). PM, red spider mite, 5 lb/A. 0 DTH.

- **12Microthiol Disperss 0 OMRI** (EPA 70506-187) REI 24 hrs (80% sulfur) (UPI); PM, red spider mite, 5 lb/A. 0 DTH.

- **0*†Nem Mocap EC 0** (EPA 264-458) REI 48 hrs (69.6% ethoprop) (Amvac) († Not for use in Nassau or Suffolk Counties due to leaching into sandy soils); For control of symphylans, wireworms and nematodes (Suppr. of stubby root); see label of details. 0 DTH.

- **7†M3 Moncoat MZ Potato S-P Treatment 0** (EPA 10163-320) REI 24 hrs (1.5% flutolanil + 6% mancozeb, in tree bark formulation) (Gowan); Seed piece treatment for suppression of Fusarium dry rot, Silver scurf, and Rhizoc. Stem canker. 0.75-1 lb per 100 lb cut seed. 0 DTH.

- **1†† Moncut 70-DF 2** (EPA 10163-301) REI 12 hrs (flutolanil 70%) (Gowan); In-furrow treatment Rhizoc. Stem canker and suppression of Powdery Scab. 0.71-1.1 lb/ 1000 row feet. († Not for use in Nassau or Suffolk Counties due to leaching into sandy soils). 0 DTH.

- **1Bio Mycostop 0 OMRI** (EPA 64137-5) REI 4 hrs (Streptomyces sp.30%, biological) (Verdera Oy) Product may be used in a variety of application methods per label; for a variety of root pathogens; 0.05-0.08 oz/1 lb seed piece treatment. 0 DTH.

- **1M Nordox75 WG 0 OMRI** (EPA 48142-4) REI 12 hrs. (cuprous oxide 83.9%) (limit not given) (Nordox) EB and LB, see label for rates. 0 DTH.

- **1M Nu-Cop 50 WP 0 OMRI** (EPA 45002-7) REI 24 hrs (77 % cupric hydroxide, equiv. 50%) (Albaugh). EB0K, LB, 1-4 lb/A. Approved for greenhouse and shadehouse crops on label. 0 DTH. See also Nu-Cop 3L (37.5%) and Nu-Cop HB (77%).

- **29Omega 14 500F (fluazinam) NOT REGISTERED in NYS. (LB, WM, some suppression of Powdery Scab but not on label).**

- **1M Oxidate 0 OMRI** (EPA 70299-2) REI 1 hr (hydrogen peroxide, 27%) (BioSafe Systems); Fus. Dry rot (seed), 2 ½ fl oz/gal; EB, LB, 40-128 fl oz/100 gal. 0 DTH.
MOA
furrow
DTH
switching to a fungicide with a diff. MOA
EB
oz/A/season)
11
33
alternating
1,000 row ft. with 32
suppression of White mold
(BASF);
11+7
(9)
M
prior to furrow closure. A side
with a different MOA; for Pink rot apply using a 6
schedule, but prior to disease developm
oz/season).

* control;
Priaxor
7969
7
EPA 7969-123) REI 12 hrs (flupyradifurone) (limit to 5 applications or 12 fl
oz/season). (Valent); LB, Pink rot; 4 fl oz/A, for LB make foliar applications on a 7-10
schedule, but prior to disease development, and apply as a tank mix with another fungicide
with a different MOA; for Pink rot apply using a 6-8 in. band directly over the seed piece
prior to furrow closure. A side dress application should also be made between hilling and
tuber initiation. (* Restricted applicator use) 7 DTH.

– Previcur Flex 14 500 SC (EPA 264-678) REI 12 hrs, (propamocarb, plus protectant)
(limit to 5 applications or 6 pts./season) (Bayer); LB, EB, 0.7-1.2 pts. plus protectant such as
chlorothalonil or mancozeb. 14 DTH.

+ Priaxor 7 (EPA 7969-311) REI 12 hrs (fluxapyroxad + pyraclostrobin) (limit 24 fl oz)
(BASF); EB OK, Brown Spt., Black Dot, Suppression of Gray mold, LB, 4-8 fl oz; PM and
suppression of White mold, 6-8 fl oz; In-furrow use for Rhizoctonia control, 0.6 fl oz per
1,000 row ft. with 32-34in. rows. Do not make more than 2 consecutive applications before
alternating to a fungicide with a different MOA. 7 DTH.

33 ProPhyt 0 see Helena ProPhyt

4 Quadris 14 or 9 days Flowable (EPA 100-1098) REI 4 hrs (azoxystrobin 22.9%) (limit 123 fl
oz/A/season) (Syngenta); Foliar EB, LB, Black Dot, 6.2-15.4 fl oz (Do not use alone for
EB* control; Do not apply near apple trees; Do not make more than 1 application before
switching to a fungicide with a diff. MOA, and no more than 6 applications per season) (14
DTH); In-furrow, Rhizoc., Silver scurf, 0.40-0.80 fl oz/1000 row feet (If Quadris is used in:
furrow, the first foliar application for the season should be with a fungicide with a diff.
MOA. 0 DTH for IF.

Protein PM226 0 (GRAS, exempt from EPA registration, therefore not in PIMS (3% protein-
polysaccharide complex with fir bark) REI none (Global Protein Products); potato seed piece
treatment, apply to cut seed @ 0.4 lb/cwt. A corn protein used to suberize and dry cut tuber
surfaces. 0 DTH. (not listed on PIMS)

3 Polyram 80DF 3 (EPA 7969-105-34704) REI 24 hrs (metiram) (limit to 6 applications or 12
lbs./season) (Loveland, BASF); EB OK, LB, 1.5-2 lb/A. 3 DTH.

+ Potato Seed Treater PS (EPA 59639-140) REI 12 hrs (fluopicolide) (limit to 4 applications or 12 fl
oz/season). (Valent); LB, Pink rot; 4 fl oz/A, for LB make foliar applications on a 7-10
schedule, but prior to disease development, and apply as a tank mix with another fungicide
with a different MOA; for Pink rot apply using a 6-8 in. band directly over the seed piece
prior to furrow closure. A side dress application should also be made between hilling and
tuber initiation. (* Restricted applicator use) 7 DTH.

– Previcur Flex 14 500 SC (EPA 264-678) REI 12 hrs, (propamocarb, plus protectant)
(limit to 5 applications or 6 pts./season) (Bayer); LB, EB, 0.7-1.2 pts. plus protectant such as
chlorothalonil or mancozeb. 14 DTH.

11+7 Priaxor 7 (EPA 7969-311) REI 12 hrs (fluxapyroxad + pyraclostrobin) (limit 24 fl oz)
(BASF); EB OK, Brown Spt., Black Dot, Suppression of Gray mold, LB, 4-8 fl oz; PM and
suppression of White mold, 6-8 fl oz; In-furrow use for Rhizoctonia control, 0.6 fl oz per
1,000 row ft. with 32-34in. rows. Do not make more than 2 consecutive applications before
alternating to a fungicide with a different MOA. 7 DTH.

PCNB 0 (pentachloronitrobenzene) See Blocker

M Penkozeb 75 DF 3 (EPA 70506-185) REI 24 hrs (75%, mancozeb) (limit 15 lbs.) (UPI)
Seed Treatment for Fus decay, seedborne Com Scab, 1 ½ lb/50 gal; Foliage EB OK, LB, 0.5-2
lb. 3 DTH. Also Penkozeb 4FL (EPA 70506-194) and Penkozeb 80WP (EPA 70506-183).

33 Phostroil 95.3 SC (EPA 55146-83) REI 4 hrs (Na, K, NH₄phosphorous acid) (Nufarm);
in-furrow suppression of Pink rot and Pythium leak use 3.75-10 pt plus 11.6-13 fl oz of
mefenoxam; additional applications of this mixture may be necessary under severe disease
conditions; Foliar applications for LB (may be mixed with LB products), and suppression of
storage rot such as Pink rot and Pythium leak, 2.5-10 pt in minimum of 20 gal water/A; Post
harvest treatment for Pink rot and late blight, 0.1 gal (12.8 fl oz) in 0.5 gal. of water per
2,000 lbs of potato as a spray, with complete coverage. 0 DTH.
**Quadris Opti**† F 5.5SC (EPA 100-1171) REI 12 hrs (azoxystrobin 4.6% + chlorothalonil 46%) (limit 1.5 lbs. ai for azoxystrobin and 11.25 lbs. ai of chlorothalonil) (Syngenta); EB ok because used as a mixture, LB, **Black Dot**, 1.6 pt; (Do not apply near apple trees; Do not make more than one foliar application before switching to a fungicide with a diff. MOA, and do not make more that 6 foliar applications per season). 14 DTH.

**Quadris Top**† (EPA 100-1313) REI 12 hrs (azoxystrobin 18.2% + difenoconazole 11.4%) (limit of 55.3 fl oz/A/season) (Syngenta); **Black Dot**, Alternaria Brown Spot, EB0K, PM, 8.0-14.0. 14 DTH.

**Quash**† (EPA 59639-147) REI 12 hrs (metconazole, 50%) (limit 4 applic/season and no more than 16 oz/season) (Valent); 2.5-4.0 oz/A for **Black Dot**, Alt. Brown Spot, EB0K, Suppression of Gray mold, PM (Erysiphe); 4.0 oz for White Mold. (Not more than do not make more than 2 sequential applications before rotating any MOA). 1 DTH.

**Rampart**0 (EPA 34704-924) REI 4 hrs (Mono- and dipotassium salts of phosphorous acid, 53%) (Loveland); Foliar Generic label for late blight and Pink Rot. 1-4 quarts in a minimum of 20 gal water/A; do not apply at intervals less than 3 days; **Postharvest** use 6.4-12.8 fl oz/0.5 gal water/ton of tubers, spray, rinse or inject into humidification water. 0 DTH.

**Ranman** 400 SC7, (EPA 71512-3) REI 12 hrs (cyazofamid, 34.5%) (limit 27.5 fl oz) (ISK, FMC); Foliar, LB, 1.4-2.75 fl oz/A; **Tuber blight**, 2.75 fl oz/A, make last 2-3 applications applied weekly prior to desiccation. (Alternate Ranman with of fungicide with a different MOA; tank mix with an organosilicone surfactant when water volumes are up to 60 gal/A). 7 DTH. For **in-furrow** pink rot (note: not on PIMS old label), apply 0.42 fl oz per 1,000 linear ft of row in a minimum of 5 gal water per acre. Apply using a 6 to 8-inch ban directly over the seed piece prior to furrow closure; a side dress application of Ranman in combination with a phosphoric acid product like Phostrol may be applied for additional control; may also be applied with mefenoxam product if mefenoxam-resistant* strains of P. e. are not present.

**Reason** 500 SC14 (EPA 264-695) REI 12 hrs (fenamidone, 44.4%) (Limit of 24.6 fl oz [0.80 lbs. a.i.]/A/season) († Restricted application, not for sale or use in Nassau or Suffolk Co.) (Bayer); EB*, LB and suppression only for **Black Dot**, 5.5-8.2 fl oz. (Do not make more than one application of product before switching to a fungicide with a diff. MOA). 14 DTH.

**Bio SAR** Regalia Biofung. Conc. 0, OMRI (EPA 84059-3) REI 4h, (Reynoutria sachalinensis 5%, extract, biological SAR) (Marrone); Multiple diseases, 2-4 qt/50-100gal or 1-4 qts/A when mixed with another registered fungicide. 0 DTH.

**Resist 57**0 (EPA 82940-1) REI 4 h. (mono- and dipotassium salts of phosphorous acid, 57%) (Actagro); Foliar Generic label for late blight, Pink Rot and mention of Silver scurf, 3-5 quarts in a minimum of 20 gal water/A; do not apply at intervals less than 3 days; **Postharvest** use 0.1 gal/0.5 gal water/ton of tubers, spray, rinse or inject into humidification water. 0 DTH.

**Revus Top**† (EPA 100-1278) REI 12 hrs (mandipropamid, 21.9% + difenoconazole, 21.9%) (limit to 4 applications or 28 fl oz/season) (Syngenta); **Black Dot**, Brown Spot,
EB<sup>OK</sup>, LB, PM (<i>Erysiphe</i>), Septoria L S., 5.5-7 fl oz/A (The addition of a non-ionic surfactant is recommended; do not make more than 2 consecutive applications before switching to an effective fungicide with a different MOA) 14 DTH.

- **Ridomil Gold SL<sup>0</sup>** (EPA 100-1202) REI 48 hrs (45.3% mfenoxam) (Syngenta); see also Ultra Flourish (Nufarm); (Only for use at-plant-stage to prevent resistance development). Preplant incorporated and surface application: Pythium leak*, Pink rot* (only effective if sensitive isolates of these fungi are present), 0.42 oz/1,000 linear row ft in 6-8 in. band. A Foliar application of Ridomil Gold Bravo at tuber initiation may be necessary. 0 DTH.

- **Ridomil Gold Bravo SC<sup>4</sup>** (EPA 100-1221) REI 48 hrs (mfenoxam + chlorothalonil) Foliar application (limit of 11.25 lbs. a. i./A/season of chlorothalonil containing products; see limits on mfenoxam) (Syngenta); EB<sup>OK</sup> and LB (US22<sup>P&T</sup>, US23<sup>P&T</sup>, US24<sup>0</sup> only), 2.5 pt/A; Storage rots, Pythium leak*, Pink rot* (only effective if sensitive isolates of these fungi are present), 2 lb at flowering and another 2 wks. later. 14 DTH. Also **4+M** **Ridomil Gold Copper**<sup>14</sup> (EPA 100-804), Foliar application for LB (US22, 23, 24 only) tank mix with mancozeb (see limits on label), EB, Pythium leak*, Pink rot*, 4+M **Ridomil Gold Mancozeb**<sup>3</sup> (EPA 100-1269), Foliar application for LB (US22, 23, 24 only), EB, Pythium leak*, Pink rot* (see limits on label).

- **BioRootShield WP**<sup>0</sup> OMRI (EPA 68539-7) REI 0 hrs or until dry (1.15% Trichoderma harzianum Rifai strain KRL-AG2) (BioWorks); Gr Hs soil drench. Tsp. starter solution, Chemigation (Gr Hs or Field), rates vary; provides protection against plant root pathogens such as <i>Pythium</i>, <i>Rhizoctonia</i>, <i>Fusarium</i>, <i>Cylindrocladium</i> and <i>Thielaviopsis</i>. 0 DTH.

- **BioRootShield Granules**<sup>0</sup> OMRI (EPA 68539-3) 0 REI if soil incorporated (Trichoderma harzianum Rifai strain T-22, 1.15%) (BioWorks); in-furrow 2.5-6.0 lbs/1/2 A

- **BioRootShield Plus WP**<sup>0</sup> OMRI (EPA 68539-9) REI 4hrs. (Trichoderma harzianum + T. virens) (BioWorks); for use on Whole or cut seed as a Dip or Dust, or IF spray, provides root protection against Rhizoctonia and Fusarium. 0 DTH. Also: **BioRootShield Plus Granules**<sup>0</sup> OMRI (EPA 68539-10) not registered for use on potatoes, but on many other vegetables and most root crops.

- **M3 Roper DF**<sup>5</sup> Rainshield (EPA 34704-1063) REI 24 hrs. (58.1%, mancozeb) (Loveland); EB<sup>OK</sup>, LB, 1-2 lb; Potato Seed Piece for Fus. Dry rot, LB, SB common scab, Rhiz Canker, Silver Scurf. 1.25 lb/50 gal water for whole or cut seed. Foliar 5 DTH. Seed 0 DTH.

- **2Rovral 4F**<sup>14</sup> (EPA 264-482) REI 24 hrs, also Rovral 50W (EPA 264-453); Rovral 75WG (EPA 264-689) (1-2 lbs/A) (iprodione) (limit of 4 applications/season) (Bayer); EB<sup>OK</sup>, 1-2 pt; WM, 2 pt. 14 DTH.

- **9Scala**<sup>7</sup> 400SC (EPA 264-788) REI 12 hrs (See <i>Personal Protective Equipment Comments for NY</i>) (pyrimethanil) (limit of 35 fl oz/season [1.4 lb a.i./A]) (Bayer); EB<sup>OK</sup>, 7 fl oz. (Use only in a tank mix with another fungicide effective for early blight control). 7 DTH.

- **^Nem. Sectorgon 42** (EPA 61842-6) REI Varies (* Restricted applicator use) (sodium methylidithiocarbamate, 42.2%) for soil applications (fumigant for suppression of Root knot nematodes, fungi (<i>Verticillium dahliae</i>), weeds and weed seeds and volunteer seeds) (Tessenderlo Kerley); apply 30-75 gal/A using injectors. See label for specifics.

- **Bio Serenade ASO<sup>0</sup>**<sup>OMRI</sup> (EPA 264-1152) (Bacillus subtilis), REI 4 hrs (Bayer); Field, EB<sup>OK</sup>, LB, 6 qts/A. 0 DTH.

- **Bio Serenade MAX WP<sup>0</sup>** OMRI (EPA 264-1151) REI 4 hrs (Bacillus subtilis) (Bayer); Field and Greenhouse PM, WM, Gray mold, EB, LB 1-3 lb/A/100gal. 0 DTH. Post harvest Silver Scurf 1-3 oz/ton of tubers.
2014 Potato Fungicides NYS

- **Bio (4)**
  - Serenade Soil 0 OMRI (EPA 264-1152) REI 4 hrs. (Bacillus subtilis) (Bayer); Soil drench, 2-6 qt/A; Furrow, 2.2-13.2 fl oz/1000 row feet; Use primarily for Rhiz., but other diseases are listed. 0 DTH.

- **Bio (1)**
  - Sonata 0 OMRI (EPA 264-1153) REI 4 hrs (Bacillus pumilus) (Bayer); Field and Greenhouse EB OR, LB, PM, WM, Gray mold, 2-4qt/A/100gal. 0 DTH.

- **Stadium**
  - (EPA 100-1453) REI 4 hrs (fludioxonil 12.51% + difenoconazole 9.76%) (Syngenta); Post-harvest use for Silver Scurf and Fusarium Dry Rot, 1.0 fl oz/2,000lb of tubers, as in-line aqueous spray; Only 1 PH application; Not for use on seed potatoes or seed pieces. 0 DTH.

- **StorOx**
  - 2.0 (EPA 70299-7) REI 1 hr (hydrogen peroxide, 27 + 2%) (BioSafe Systems); Post harvest for Bac. Soft rot, EB, LB, Fusarium and SS, 1:25 (5 fl oz/gal), 1:50 (2 ½ fl oz./gal) to 1:100 (1 ¼ fl oz/gal), used in 1-2 gal of water per ton of tubers. 0 DTH.

- **Super Tin**
  - 7L (EPA 70506-212) REI 48 hrs (* Restricted applicator use) (fentin hydroxide) (limit of 18.0 fl oz/season) (UPI); EB, LB suppression of CPB, 4-6 fl oz. 7 DTH.

- **HC Biological Fungicide**
  - (EPA 68539-4) REI 0 hrs (Trichoderma harzianum) (also Plant Shield); Seed treatment for Rhizoe. Stem canker and Blk scurf, 0.5-2 oz/ewt cut or whole seed, applied as a dust or aqueous solution. 0 DTH.

- **Tanos**
  - 14 DF (EPA 352-604) REI 12 hrs (famoxadone 25% + cymoxanil 25%, must be tank mixed with a protectant) (limit of 6 applications per season, 48 oz) (DuPont); 2ee for Brown Spot (Alternaria alternata), 6 oz; EB ok because used as a mixture, suppression only for Black Dot, 6 oz; LB, 6-8 oz (protectant can be mancozeb, chlorothalonil, metiram, etc.). (Do not apply more than 1 application before switching to a fungicide with a different MOA). 14 DTH.

- **That Flowable Sulfur**
  - (EPA 57538-5) REI 24 hrs. (Sulfur) (Stoller); PM, 3-5 pts/A. 0 DTH.

- **Thiophanate Methyl 85 WDG**
  - (EPA 66222-145) REI 2 days (thiophanate-methyl) (limit 3.2 lbs.(MANA); Wh. Mold, 0.8-1.2 lb/A. 21 DTH.

- **Tops MZ**
  - 8.5G 0 Potato S-P Treatment (EPA 264-958) REI 24 hrs (2.5% thiophanate-methyl) + 6% mancozeb) (Gustafson/Bayer); Seed piece treatment for Fusarium dry rot, Rhizoe. Stem canker and Blk scurf, and Silver scurf. 0.75 lb/100 lb cut seed pieces. 0 DTH.

- **Tops-MZ-Gaucho**
  - Potato S-P treatment (EPA 264-977) REI 24 hrs (1.25% imidacloprid Insecticide, 2.5% thiophanate-methyl, 6% mancozeb) (Gustafson/Bayer); for insect control and Fusarium dry rot, Rhiz, silver scurf and reduce spread of LB while cutting seed, 0.75 lb/100 lb applied to cut seed pieces. 0 DTH.

- **Topsin M 70WSBags**
  - (EPA 73545-16) REI 3 days (thiophanate-methyl) (limit 4 lbs.) (UPI); Wh. Mold 1-1 ½ lb/A (may be mixed with other fungicides for EB and LB). 21 DTH. Also Topsin M 70 WP (EPA 73545-11)

- **Trilogy**
  - 0 OMRI (EPA 70051-2) REI 4 hrs (70% clarified hydrophobic extract of Neem oil, biological) (Certis); Listed for multiple diseases including EB, Anthracnose, Botrytis and PM and various insects, 0.5-1% in 25-100 gal/A. 0 DTH.

- **Ultra Flourish**
  - 2EC (EPA 55146-73) REI 48 hrs (mefenoxam) (limits of 0.75 pts. in soil and 1.6 pts. Foliar) (Nufarm); (Should consider only for use at-plant-stage to prevent resistance development). Preplant incorporated and surface application; Pythium leak*, Pink rot*, (only effective if sensitive isolates of these fungi are present), 0.84 oz/1,000 linear row ft in 6-8 in. band (0 DTH); Foliar rate 6.4 fl oz/A, beginning at flowering and repeat after 14 days (14 DTH).
Potato Fungicides NYS

*Vapam* HL (EPA 5481-468) REI 5 days (sodium methyldithiocarbamate, 42%) (Amvac); (* Restricted applicator use) a soil fumigant (liquid converted into a volatile fumigant) for weeds, nematodes i.e. Root Knot (suppression only), Symphylids (garden centipede) and soilborne diseases including Rhizoctonia, Pythium, Phytophthora, Verticillium, Sclerotinia. Vapam is phytotoxic, so protect non-target plants. See label for specifics.

- **Vertisan** (EPA 352-836) REI 12 hrs (penthiopyrad, 20.6%) (limit 72 fl oz) (DuPont); EBOK, Brown Spot, Gray mold, PM, 10-24 fl oz; **Black Dot**, 14-24 fl oz; Suppression White mold, 14-24 fl oz; Soilborne Rhizoctonia, IF treatment 0.7-1.6 fl oz/1,000 row ft. (No more than 2 sequential applications before switching to a fungicide with a different MOA). 7 DTH.

- **Vydate** C-LV † (EPA 352-532) REI 48 hrs (oxamyl, insecticide/nematicide) (DuPont); 24(c) label for In-furrow application of Vydate C-LV for suppression of Lesion, Stubby Root and Root Knot Nematodes of Potato († Restricted; not for use in Suffolk or Nassau Co); also foliar application for insect control. (Not for use on Long Island). 7 DTH.

- **Zampro** (EPA) (BASF) LB and Tuber Blight.

- **Zoxium** 80WSP³ (EPA 10163-6413) REI 48 hrs (zoxamide) (limit of 8 applications or no more than 2.0 lbs. [1.6 lbs. a.i/A/season]) (Gowan); LB, 2.5-4.0 oz/A; tank-mix with other fungicides for other disease control; (Do not make more than 2 sequential applications before alternating to a fungicide with a different MOA). 3 DTH.

This summary is provided as a helpful guide to some of the products that are available for Potato 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 use pesticide** (see label); * = **Restricted applicator use**; MOA = Mode of action; M = Multi-site activity; OLF = Other labeled formulation; *EB= **Fungicide resistance concern with product for this particular disease pathogen.**


11
Overview of Potato Fungicide Roster

See: http://vegetablemdonline.ppath.cornell.edu for more updates. NYS (underlined = currently registered); [FRAC No. Product DTH]

Systemic fungicides in BOLD: Protectants are listed first in upper left corner.

T. A. Zitter, JULY 2014

Protectants/Mixing Partners (Field diseases listed)

- \textit{M} \textit{5} chlorothalonil \textsuperscript{7} = Bravo WS (limit of 15 pts/A), Echo, Equus, Chlorothalonil 720, Initiate 720 & Zn (EB, LB, BD, Botrytis vine rot)
- \textit{M} \textit{3} mancozeb \textsuperscript{3} = Dithane, Manzate, Pencozeb, Rover DF (EB, LB, BD on some) (all as Seedpiece trat.) (15 lb/crop)
- \textit{M} \textit{3} metiram = Polyram (EB, LB) (sgl Seed Trt. allowed) (12 lb/crop)
- \textit{3} tin hydroxide \textsuperscript{3} = Super Tin, Agri Tin (EB, LB) (restricted use) (limit of 18 fl oz or 11.25 oz/sea., respect.)
- \textit{M} \textit{1} \textit{0} fixed copper \textsuperscript{0} = Badge SC, Badge X, OMRI Basic Copper Sulfate & 53 OMRI Camelot O OMRI Champ Formula 2, Cueva, Kentan DF, Kocide, Cuprofix, Mastercop, Nordox 75WG OMRI, Nu-Cop 50WP OMRI (EB, LB) (Also \textit{M} \textit{3} \textit{3} = ManKocide \textsuperscript{3} of limit of 74.7 lb/A)
- \textit{Bio} \textit{0} Bacillus subtilis \textsuperscript{0} = Serenade ASO OMRI, (EB, LB), Serenade MAX OMRI, and Sonata \textit{Bio} Bacillus pumilus \textsuperscript{0} OMRI (PM, WM, Gy Mold, EB, LB) (Seed, SS)
- \textit{Bio} RootShield Plus WP \textsuperscript{0} OMRI (T. harzianum + T. virens) (root pathogens) (Whole or Cut Tuber Dip, Dust, LB) also RootShield WP & GR Mulit Oxidate \textsuperscript{0} (hydrogen peroxide) OMRI (Seed, Fung.) (EB, LB)
- \textit{M} \textit{2} Sulfur \textsuperscript{0} = Kumulus OMRI, Microfine, Micro Sulf OMRI, Microthio OMRI, Sulfur 6L, That (PM)

Group 11 Strobilurins (Qol) and “others” (EB\textsuperscript{4}, LB, BD) (Strobilurins are no longer effective for *EB* unless tank-mixed with another MOA)

- \textit{11\textsuperscript{1}} \textit{M} \textit{3} Cabrio Plus \textsuperscript{3} (pyraclostrobin + metiram) (EB\textsuperscript{3}, LB, BD, PM, Suppr, WM) (limit to 17.4 lbs. /A/sea.)
- \textit{11\textsuperscript{2}} \textit{Quadris} \textsuperscript{2} (azoxystrobin, EB\textsuperscript{2}, LB, BD) (123 fl oz/sea)
- \textit{11\textsuperscript{2}} \textit{Quadris Opti} \textsuperscript{2} (azoxystrobin + chlorothalonil) (EB ok with mixture, LB, BD) (6 applic or 1.5ib a.i./season)
- \textit{11\textsuperscript{2}} \textit{Quadris Top} \textsuperscript{2} (azoxystrobin + difenoconazole) (EB\textsuperscript{2}, BD, Brown Spot, PM) (limit 55.3 fl oz/A)
- \textit{11\textsuperscript{3}} \textit{Quadris} \textsuperscript{3} (trifloxystrobin (EB\textsuperscript{1}, LB), (No aerial application in NYS) (23 fl oz/season)
- \textit{11\textsuperscript{3}} Headline \textsuperscript{3} (pyraclostrobin) (EB\textsuperscript{1}, LB, BD, WM suppr) (72 fl oz/season) (aerial application allowed, not w/in 100ft water)
- \textit{11\textsuperscript{3}} Reason \textsuperscript{3} (fenamidone) (EB\textsuperscript{1}, LB, BD) (limit to 24.6 fl oz/season)
- \textit{11\textsuperscript{3}} Tanos \textsuperscript{3} (fenoxadone + cyxomunol) (EB ok when with protectant, LB) (6 applications/season or 48 oz.)
- \textit{11\textsuperscript{3}} Evito \textsuperscript{3} (fluoxastrobin) NOT NYS (EB\textsuperscript{2}, Supp. of LB) (22.8 fl oz/sea.)

Others (Primarily White Mold or Early Blight, but also Black Dot, or Gray Mold)

- \textit{Endura} \textsuperscript{10} (boscalid) (EB) (4 applic./season, 18 or 20 oz by rate) (2 applic @ hi rate)
- \textit{11\textsuperscript{3}} Headline \textsuperscript{3} (pyraclostrobin) (Suppr. WM) (72 fl oz/season)
- \textit{2Ovral} \textsuperscript{14} (iprodione) (EB, W Mold) (4 applic/sea.)
- \textit{Scala} \textsuperscript{7} (pyrimethanil) (EB) (tank mix; 35 fl oz/sea.)
- \textit{Quash} \textsuperscript{1} (metconazole) (BD, Br Spot, EB, GM, WM) (4 applic/sea. or 16oz)
- \textit{1} \textit{Topsin} \textsuperscript{20} (thiophanate methyl) (WM) (4 lb/season limit)
- \textit{Bio} Contans \textsuperscript{5} (C. mimitans) (WM)
- \textit{7} Luna Privilege \textsuperscript{7} (fluopyram) (limit 10.95 fl oz) (EB, WM, Gray Mold, suppression BD)
- \textit{7} Luna Tranquility \textsuperscript{7} (fluopyram + pyrimethanil) (limit 43.6 fl oz) (EB, PM, suppression of Botrytis, WM, BD)
- \textit{11\textsuperscript{3}} Priaxor \textsuperscript{1} (flusapyroxad + pyraclostrobin) (limit 24 ft oz) EB, Br, Spt, BD, Supp. Gray mold and LB, PM, Suppression for WM, PM/WM
- \textit{Vertisan} \textsuperscript{7} (penthiopyrad) (limit 72 fl oz total) (EB, Br, Spt, GM, BD, BRER, BRER)
- \textit{OMRI} Omega \textsuperscript{7} (fluazinam) (NOT registered)

Late Blight (tank mix [TMix] and alt. with protectant or other MOA) Pythium Leak as noted

- \textit{4\textsuperscript{1}} \textit{M} \textit{5} Ridomil Gold Bravo \textsuperscript{14} (LB, US 22, 23, 24 only, EB, Storage Rot (Pink rot & Leak) also \textit{4\textsuperscript{1}} \textit{M} \textit{5} RidGold/Cu \textsuperscript{14} and \textit{4\textsuperscript{1}} \textit{M} \textit{5} RidGold/MZ \textsuperscript{3} (see label for limits)
- \textit{4\textsuperscript{1}} Presidio \textsuperscript{7} (fluopicoline) (LB, PR) Tuber blight (limit of 4 applic./season or 12 fl oz)
- \textit{4\textsuperscript{2}} \textit{Previcur Flex} \textsuperscript{14} (propamocarb) TMix, LB (limit to 5 applic.)
- \textit{2\textsuperscript{1}} Ramman \textsuperscript{7} (cyazofamid) (LB, Tuber blight) (TM, limit of 27.5 fl oz/sea. or 10 applic.)
- \textit{2\textsuperscript{2}} \textit{Gavel} \textsuperscript{1} (oxamide + mancozeb) (also EB) (6 applic. limit or 6 pts.)
- \textit{2\textsuperscript{2}} \textit{Zoxium} \textsuperscript{1} (oxamide) (LB) (TM, limit of 8 applic. or 2 lbs.)
- \textit{4\textsuperscript{0}} \textit{Forum} \textsuperscript{4} (dimethomorph) (TMix, LB, suppression of Tuber blight) (limit 30 oz/season)
Seed Piece Treatments (liquids and dusts; some combinations for insects and diseases)

- **Agri-mycin 1**
- **Fungicide , Fungi-Phite, ProPhyt, Khphite, Phostrol, Rampart, Resist 57 (phosphorous acid)**
- **M5** for LB = Agri-Fos, Fosphite, Fungi-Phite, ProPhyt, Khphite, Phostrol, Rampart, Resist 57 (phosphorous acid)
- **M3** for LB = Agri-Fos, Fosphite, Fungi-Phite, ProPhyt, Khphite, Phostrol, Rampart, Resist 57 (phosphorous acid)
- **PM223** (protein) (seed suberization)
- **Evolve** (thiophanate-methyl + mefenoxam + mancozeb) liquid seed treatment (chewing and sucking insects and Fusarium dry rot, seedborne Rhiz. & SS) (Not LI)
- **Dynasty** (azoxystrobin) liquid seed treatment (Rhiz, B.D. Silver Scurf)
- **Potato Seed Treate** (PS 8% or 6% (mancozeb) (Fus. Rot)
- **PM223** (protein) (seed suberization)
- **Exempt, not listed in PIMS registry.
- **1 + M3**
- **Moncoat MZ** (fludioxonil + mancozeb) (Fus Rot, SS)
- **1 + M3** for LB = Agri-Fos, Fosphite, Fungi-Phite, ProPhyt, Khphite, Phostrol, Rampart, Resist 57 (phosphorous acid)
- **Curzytate** (fludioxonil) Tmix (limit of 7 applic./yr).
- **OMRI** Listed Products (Multi-site)
- **Actinovate AG**
- **Bio-Save 10LP (P. syringae) (Fus. Rot, SS)
- **RootShield Plus** WFP (T. harzianum + T. virens) (Root rot pathogens like Fusarium and Rhizoctonia) Whole or cut Tubers as dip, dust or foliar
- **Regalia EC (Reynoutria), (see label)
- **Lycozyme** (S. griseoviridis) (see label)
- **Banex X** (Cortical G. Cueva, Nordest 75WG, No. Con p 20W, EB, LB)
- **Sulfur** (Kumulus, Micro Sulfo) (PM)
- **Organic JMS Syket-off (EB, PM, Insects)
- **Conte** (Conosbyrium) (White Molds)
- **Dolomite** (lime) (EB, PM, Insects)
- **Serenade Soil** (B. subtilis) (EB, SS)
- **Dolomite** (hydrogen peroxide) (EB, LB)

Post-harvest Treatments

- **Agri-Fos**, Fosphite, Fungi-Phite, ProPhyt, Phostrol, Rampart, Resist 57 (Li, Pink Rot), (Recommended for processing only)
- **Bio-Save** (Fus. Rot, SS)
- **Merted** (thiophanate-methyl) (Fus. Dry rot, Resistance is a concern)
- **Serenade MAX** (SS)
- **Stadium** (azoxystrobin + fludioxonil + difenoxonole) Not for use on seed potatoes or seed pieces (Silver Scurf & Fusarium Dry Rot)

OMRI Listed Products (Most multi-site)

- **Actinovate AG**
- **Bio-Save 10LP (P. syringae) (Fus. Rot, SS)
- **RootShield Plus** WFP (T. harzianum + T. virens) (Root rot pathogens like Fusarium and Rhizoctonia) Whole or cut Tubers as dip, dust or foliar
- **Regalia EC (Reynoutria), (see label)
- **Lycozyme** (S. griseoviridis) (see label)
- **Banex X** (Cortical G. Cueva, Nordest 75WG, No. Con p 20W, EB, LB)
- **Sulfur** (Kumulus, Micro Sulfo) (PM)
- **Organic JMS Syket-off (EB, PM, Insects)
- **Conte** (Conosbyrium) (White Molds)
- **Dolomite** (lime) (EB, PM, Insects)
- **Serenade Soil** (B. subtilis) (EB, SS)
- **Dolomite** (hydrogen peroxide) (EB, LB)

* Restricted to registered applicators; Not for use on Long Island; TM = tank-mix. Every effort has been made to provide correct and up-to-date information at the time of this 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.