In-furrow and seed treatment registrations are omitted. This is not a comprehensive list. Most fungicides listed are for use in conventional production systems. Note where generic fungicide trade names are listed, there may be numerous. List compiled 20 May 2018.

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| Total   |  |        |          |        | vens@wisc.edu  |
|---|--|--------|----------|--------|--|
| Trade Name  | Active   | PHI    | REI      | FRAC#  | Comments   |
| (rate/A)  | Ingredient(s)                                  |        |          |        |  |
| Agri Tin, Super Tin<br>4L, Super Tin 80WP<br>(4-6 fl oz)  | triphenyltin<br>hydroxide                      | 7 days | 48 hours | 30     | Restricted use pesticide. 3 fl oz rate can be used if material is tank-mixed with another fungicide.   |
| Alude (1.25 qt in 90 gal water)  Confine Extra (3-5 qt in 20 gal water/acre)  K-Phite 7LP (1-3 qt in 10 gal water/acre)   | mono and dipotassium salts of phosphorous acid | 0 days | 4 hours  | 33     | Foliar application. Use higher rate when disease pressure is severe. Do not apply at less than 3 day intervals. Do not apply to plants that are dormant or that are heat or moisture stressed.                                       |
| Ariston<br>(2 pt)   | chlorothalonil+<br>cymoxanil                   | 14 day | 12 hours | M5+27  | Additional chlorothalonil may be tank-mixed with this formulation to enhance % active ingredient applied (be sure to include the Ariston component in overall season total). Cymoxanil is same active ingredient in Curzate.         |
| Elixir<br>(1.2-2.0 lb)  | mancozeb+<br>chlorothalonil                    | 7 days | 24 hours | M3+ M5 | Newly registered fungicide for potato only. Use higher rate as vines increase in size.   |
| Fosphite, Rampart<br>(1-4 qt)   | potassium<br>phosphite                         | 0 days | 4 hours  | 33     | Foliar post-emergence spray and post harvest spray for control in storage. Apply in at least 20 gal water/acre solution.   |
| Fungi-Phite (Foliar: 2 qt/A Seed trt: 15% vol to vol-2 ton in 1 gal solution)  Helena Prophyt (4 pt/acre)   | potassium<br>phosphite                         | 0 days | 4 hours  | 33     | Seed piece spray and foliar post-emergence spray. Tank-mix with another effective fungicide is recommended and use high label rate for late blight control.  |
| Badge SC<br>(1-3 pt)  | copper hydroxide,<br>copper oxychloride        | 0 days | 24 hours | M1     | Protectant activity only. Apply at 7 to 10 day interval.   |
| Bravo Ultrex (.7 then .9 to 1.36 lb)  Bravo WeatherStik, Echo 720, Equus 720 SST, Initiate 720, Chlorothalonil 720, SC, Chloronil 720, Praiz (.75 then 1-1.5 pt)  Bravo Zn, Equus 500 Zn, Initiate Zn (1 1/8 then 1.5 to 2.25 pt) | chlorothalonil                                 | 7 days | 12 hours | M5     | 11.25 lb a.i./acre maximum on standard label. However, WI has a special 24(c) registration for long season potatoes extending the max a.i. from 11.25 to 16 lb a.i./acre with Bravo (Syngenta) and Echo (Sipcam Advan) formulations. |

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|--|---|--------|----------|-------|--|--|--|
| Trade Name   | Active                                      | PHI    | REI      | FRAC# | Comments   |  |  |
| (rate/A)   | Ingredient(s)                               |        |          |       |  |  |  |
| Echo Zn<br>(1 to 2.125 pt)<br>Equus DF (.7 then .9 to 1.36 lb)<br>Echo 90DF (5/8 then 7/8 to 1.25 lb)  | chlorothalonil                              | 7 days | 12 hours | M5    | 11.25 lb a.i./acre maximum on standard label. However, WI has a special 24(c) registration for long season potatoes extending the max a.i. from 11.25 to 16 lb a.i./acre with Bravo (Syngenta) and Echo (Sipcam Advan) formulations. |  |  |
| Cabrio Plus (2.9 lb)   | pyraclostrobin+<br>metiram                  | 3 days | 24 hours | 11+M3 | 17.4 lb/acre maximum per season. Do not apply more than 2 sequential applications.   |  |  |
| Champ WG (1 to 1.5 lb 3 to 4 lb in severe areas)  Champ Formula 2 Flowable (2/3 to 2 2/3 pt)  Champ DP Dry Prill (2/3 to 1 lb 2 to 2 2/3 lb when disease is severe)  Kentan DF (1-2.5 lb 4 lb when severe)  Kocide 2000, Kocide 3000 (.73- 3 lb .5-1.75 lb)  Nu-Cop 3L (2/3 to 2 pt 2 to 4 pt if severe)  Nu-Cop 50DF (1-1.5 lb 3-4 lb if severe)  Previsto (1-3 qt) | copper hydroxide                            | 0 days | 24 hours | M1    | Use high label rates for foliar late blight protection.  |  |  |
| <u>C-O-C-S WDG</u> (1.5-4 lb)  | copper oxychloride,<br>basic copper sulfate | 0 days | 24 hours | M1    | Use high label rates for foliar late blight protection.  |  |  |
| Cuprofix-Ultra 40<br>Disperss<br>(0.75-3.0 lb)   |   |        |          |       |  |  |  |
| Mastercop<br>(0.5-1.5 pt)  | copper sulfate<br>pentahydrate              | 0 days | 24 hours | M1    | Use high label rates for foliar late blight protection.  |  |  |

| Trade Name   | Active                        | PHI      | REI      | FRAC#  | Comments  |
|--|-------------------------------|----------|----------|--------|---|
| (rate/A)   | Ingredient(s)                 | PHI      | KEI      | FRAC#  | Comments  |
| Cueva<br>(2 gal in 50-100 gal<br>water/acre)   | copper octanoate              | 0 days   | 24 hours | M1     | Use high label rates for foliar late blight protection.   |
| Curzate 60DF<br>(3.2 oz foliar)  | cymoxanil                     | 14 days  | 12 hours | 27     | Locally-systemic fungicide. Must be tank-mixed with a protectant fungicide. Rainfast within 2 hours.  |
| Dithane F45 Rainshield (.4 to 1.6 qt)  Dithane M45 (.5 to 2 lb)  Koverall, Roper DF Rainshield, Fortuna 75WDG (1-2.0 lb) | mancozeb                      | 24 hours | 3 days   | M3     | Max rate per acre/season is 11.2 lb a.i. Begin use at lower rate and increase as vines increase in size.  |
| Evito 480SC,<br>Aftershock<br>(3.8 fl oz)  | fluoxastrobin                 | 7 days   | 12 hours | 11     | Follow label for resistance management.   |
| Forum<br>(Foliar and tuber<br>control: 6 oz)   | dimethomorph                  | 4 days   | 12 hours | 40     | May be tank-mixed with another effective fungicide for enhanced management – but not required by label. Addition of an adjuvant may enhance management. Can be applied after vine kill.   |
| Gavel 75DF<br>(1.5 to 2 lb)  | zoxamide+<br>mancozeb         | 3 days   | 48 hours | 22+M3  | Do not make >6 applications/crop. Contact fungicide.  |
| Gem 500SC<br>(3.8 fl oz)   | trifloxystrobin               | 7 days   | 12 hours | 11     | Follow label for resistance management.   |
| Headline<br>(6 to 12 fl oz)  | pyraclostrobin                | 3 days   | 12 hours | 11     | Follow label for resistance management.   |
| ManKocide<br>(1.5 to 2 then 4-5<br>lb)   | mancozeb+ copper<br>hydroxide | 3 days   | 24 hours | M3+ M1 | Not labeled as a seed trt for potatoes.   |
| Omega 500F<br>(5.5 fl oz)  | fluazinam                     | 14 days  | 48 hours | 29     | REI is 4 days for high exposure activities. New special local need label 24c in April 2011.   |
| Omega Top MP<br>(5.5 fl oz) –<br>individual label for<br>Omega sold in co-<br>pack with Top MP<br>(difenoconazole)       | fluazinam                     | 14 days  | 48 hours | 29     | Can be applied aerially. REI is 4 days for high exposure activities.  |
| <u>Orondis</u><br>(1.4-4.8 fl oz)  | oxathiapiprolin<br>(OXTP)     | 5 days   | 4 hours  | U15    | Do not exceed 27.2 fl oz/acre/season. Labels can be confusing due to co-packs. Soon products will be released as pre-mixes. Orondis Ultra A is oxathiapiproline (OXTP) at 10.2% active ingredient; co-pack partner is Ordondis Ultra B which is mandipropamid. Orondis Opti A is also OXTP at 10.2%; co-pack partner is Orondis Opti B which is chlorothalonil. Currently there is a potato supplemental label for the pre-mix Orontis Opti (OXTP+chlorothalonil). Orondis Gold 200 is OXTP; Orondis Gold B is co-pack partner mefenoxam. |
| Oxidate<br>(40 to 120 fl oz to<br>100 gal water, 30-<br>100 gal solution per<br>acre                                     | hydrogen dioxide              | 0 days   | 1 hour   | NC     | Foliar spray for late blight. Frequent applications (5-day intervals) can limit sporulation.  |

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|--|--|---------|----------|-------|--|--|--|--|
| Trade Name   | Active   | PHI     | REI      | FRAC# | Comments   |  |  |  |
| (rate/A)   | Ingredient(s)  |         |          |       |  |  |  |  |
| Penncozeb 80WP, Penncozeb 75DF (.5 to 2 lb)  Penncozeb 4FL, Manzate flowable (.4 to 1.6 qt)  Manzate Pro-Stick (1 to 2 lb, seed trt: 1.25 lb/50 gal water) | mancozeb   | 3 days  | 24 hours | M3    | Do not exceed 11.2 lb a.i./acre/year.  |  |  |  |
| Phostrol (2.5 to 10 pt) (Post harvest trt: 1 gal/ton in .5 gal water)  | mono- and di-basic<br>sodium, potassium,<br>and ammonium<br>phosphites | 0 days  | 4 hours  | 33    | Can be applied as a foliar for late blight, pink rot, and Pythium leak. Can be applied post-harvest for storage disease control. |  |  |  |
| Polyram 80DF<br>(1.5 to 2 lb in 15 gal<br>water/acre<br>minimum)   | metiram  | 3 days  | 24 hours | M3    | Metiram is an EBDC, like mancozeb (M3). Total amount of a.i. per year/acre must include all EBDCs.                               |  |  |  |
| Previcur Flex (.7 to 1.2 pt)   | propamocarb<br>hydrochloride   | 14 days | 12 hours | F     | Apply in a tank-mix with effective protectant. Can be applied as a broadcast or banded application over the row, post-emergence. |  |  |  |
| <u>Priaxor</u><br>(4-8 fl oz)  | fluxapyroxad+<br>pyraclostrobin  | 7 days  | 12 hours | 7+11  | Cannot apply more than 3 applications/season. Follow label for resistance management. Xemium and Headline pre-mix.               |  |  |  |
| Quadris, Satori, Willowood Azoxy 2SC, Aframe, Equation SC (6 to 15.5 fl oz)  Trevo, Azoxystrar, Azoxyzone (6-20 fl oz)                                     | azoxystrobin   | 14 days | 4 hours  | 11    | Alternate away from Group 11 fungicides to manage resistance.  |  |  |  |
| Quadris Opti<br>(1.6 pt)   | azoxystrobin+<br>chlorothalonil  | 14 days | 12 hours | 11+M5 | Alternate away from Group 11 fungicides to manage resistance.  |  |  |  |
| Ranman<br>(1.4 to 2.75 fl oz)  | cyazofamid   | 7 days  | 12 hours | 21    | Follow label for resistance management.  |  |  |  |
| Reason<br>(5.5 to 8.2 fl oz)   | fenamidone   | 14 days | 12 hours | 11    | Follow label for resistance management.  |  |  |  |
| Revus Top<br>(5.5 to 7 fl oz)  | mandipropamid+dif enoconazole  | 14 days | 12 hours | 40+3  | Addition of an adjuvant is recommended.  |  |  |  |
| <u>Tanos</u><br>(8 to 10 oz)   | cymoxanil +<br>famoxadone  | 14 days | 12 hours | 27+11 | Must be tank-mixed with an effective protectant fungicide.   |  |  |  |
| Ridomil Gold SL<br>(1 to 2 pt)   | mefenoxam  | 14 days | 48 hours | 4     | Do not apply beyond the at-planting stage.   |  |  |  |
| Ridomil Gold Bravo<br>SC<br>(2.5 pt)   | mefenoxam+<br>chlorothalonil   | 14 days | 48 hours | 4+M5  | Follow label for resistance management.  |  |  |  |
| Ridomil Gold<br>Copper (2 lb)  | mefenoxam+<br>copper hydroxide   | 14 days | 48 hours | 4+M1  | Tank-mix with an effective protectant.   |  |  |  |

| Trade Name<br>(rate/A)            | Active<br>Ingredient(s)       | PHI    | REI      | FRAC# | Comments  |
|-----------------------------------|-------------------------------|--------|----------|-------|---|
| Ridomil Gold MZ<br>WG<br>(2.5 lb) | mefenoxam+<br>mancozeb        | 3 days | 48 hours | 4+M3  | Follow label for resistance management.   |
| Zampro<br>(11-14 fl oz)           | ametoctradin+<br>dimethomorph | 4 days | 12 hours | 45+40 | Do not make more than 2 sequential applications. Follow label for resistance management. Ametoctradin is new a.i.; dimethomorph is Forum (formerly Acrobat).  |
| Zing!<br>(32-34 fl oz)            | zoxamide+<br>chlorothalonil   | 7 days | 12 hours | 22+M5 | Do not make more than 2 sequential applications before alternating with another fungicide of a different mode of action. Do not make >8 applications or apply >1.52 lb of zoxamide and 8.88 lb of chlorothalonil per season per acre. |