

## Potato and Tomato Late Blight Fungicides 2009

Amanda J. Gevens

Extension Plant Pathologist, University of Wisconsin, Madison, WI 53706

Phone: (608) 890-3072, Email: [gevens@wisc.edu](mailto:gevens@wisc.edu),

Website: <http://www.plantpath.wisc.edu/wivegdis/>

It is advisable to select a late blight-specific fungicide and apply in a tank mix with a contact such as chlorothalonil (which itself is good on late blight), mancozeb, or metiram (potato only). As you consider your subsequent applications, remember to rotate modes of action to avoid development of resistance. To make this selection process easier, use the fungicide group or FRAC numbers. For example, if you selected a Group 11 strobilurin this week, choose a fungicide outside of that group for next week. For further information on fungicides, please see the Commercial Vegetable Production in Wisconsin Guide A3422. All products listed here are for both potato and tomato unless specified in the comments column.

Fungicide	Active ingredient	Rate/A	Preharvest interval	Re-entry interval	Manufacturer	Fungicide Group (FRAC)	Comments
Bravo Weather Stik, Echo 720, Equus 720	chlorothalonil	1.5 pt	7 days	12 hours	Syngenta, Sipcam Agro, MANA	M5	Note seasonal limitations on label and WI annual use allowances. Rate can go up to 2.0 pt/A for tomato.
Bravo Ultrex, 82.5WDG, Equus DF	Chlorothalonil	1.4 lb	7 days	12 hours	Syngenta, MANA	M5	Note seasonal limitations on label and WI annual use allowances.
Bravo Zn, Equus 500 Zn	Chlorothalonil	2.125 pt	7 days	12 hours	Syngenta, MANA	M5	Note seasonal limitations on label and WI annual use allowances.
Echo 90DF, Echo Zn	Chlorothalonil	1.2 lb	7 days	12 hours	Sipcam Agro	M5	Note seasonal limitations on label and WI annual use allowances.
Dithane 75DF	Mancozeb	2.0 lb	3 days	24 hours	Dow	Y	EBDC material, do not exceed 11.2 lb a.i./A of EBDCs/ growing season. Rate can go up to 3.0 lb/A for tomato.
Dithane F45 4F	Mancozeb	1.6 qt	3 days	24 hours	Dow	Y	EBDC material, do not exceed 11.2 lb a.i./A of EBDCs per growing season.
Manzate 200 75DF, Penncozeb 80WP, 75DF	mancozeb	2.0 lb	3 days	24 hours	DuPont, Cerexagri	Y	EBDC material, do not exceed 11.2 lab a.i./A of EBDCs per growing season.
Gavel 75DF	zoxamide + mancozeb	2.0 lb	3 days	48 hours	Gowan	22 + M3	Best control when applied before disease onset, contains EBDC material.

Kocide 3000	Copper hydroxide	0.5-1.75 lb	0 days	24 hours	DuPont	M1	Can be tank-mixed with chlorothalonil or mancozeb for broad spectrum disease control.
Kocide 2000 DF	Copper hydroxide	0.75-3.0 lb	0 days	24 hours	DuPont	M1	Can be tank-mixed with chlorothalonil or mancozeb for broad spectrum disease control.
Kocide 4.5 LF	Copper hydroxide	0.67-2.67 pt	0 days	24 hours	DuPont	M1	Can be tank-mixed with chlorothalonil or mancozeb for broad spectrum disease control.
Kocide LF	Copper hydroxide	1.3-5.3 pt	0 days	24 hours	DuPont	M1	Can be tank-mixed with chlorothalonil or mancozeb for broad spectrum disease control.
Kocide 101 DF, Champion 77 WP	Copper hydroxide	1.0-4.0 lb	0 days	24 hours	DuPont, Nufarm	M1	Can be tank-mixed with chlorothalonil or mancozeb for broad spectrum disease control.
Champ Formula 2 4.6F	Copper hydroxide	0.66-2.66 pt	0 days	24 hours	DuPont, Nufarm	M1	Can be tank-mixed with chlorothalonil or mancozeb for broad spectrum disease control.
Maneb 80WP	maneb	2.0 lb	3 days	24 hours	Cerexagri	M3	EBDC material, do not exceed 11.2 lb a.i./A of EBDCs per growing season. For tomato, Manex F4 at 1.2-2.4 qt/A.
Previcur Flex	propamocarb hydrochloride	0.7-1.2 pt	14 days	12 hours	Bayer	U	Best control when applied before disease onset, tank mix with other fungicides such as mancozeb or chlorothalonil. For tomato, rate can go up to 1.5 pt/A.
Evito 480SC	fluoxastrobin	3.8 fl oz	7 days	12 hours	Arysta	11	Follow resistance management guidelines on label.
Gem 500SC	trifloxystrobin	3.8 fl oz	7 days	12 hours	Bayer	11	Tank mix with a registered protectant such as chlorothalonil or mancozeb. For POTATO ONLY.
Headline	pyraclostrobin	6-12.0 fl oz	3 days	12 hours	BASF	11	Follow resistance management guidelines. For POTATO ONLY.
Cabrio EG	pyraclostrobin	8-16.0 oz	0 days	12 hours	BASF	11	Follow resistance management guidelines. For TOMATO ONLY.

Quadris Flowable	azoxystrobin	15.4 fl oz	14 days	4 hours	Syngenta	11	Follow resistance management guidelines. Rate for tomato is 5-6.2 fl oz/A.
Quadris Opti	azoxystrobin + chlorothalonil	1.6 pt	14 days	12 hours	Syngenta	11	Follow resistance management guidelines.
Reason 500SC	fenamidon	8.2 fl oz	14 days	12 hours	Bayer	11	Note new shortened plant back restrictions on label. 30 day plant back restriction to corn/soybeans.
Tanos 50 DF	cymoxanil + famoxadone	8.0 oz	14 days	12 hours	DuPont	11	Must be tank mixed with a registered protectant such as chlorothalonil or mancozeb.
Forum	dimethomorph	6.0 oz	4 days	12 hours	BASF	15	May be used after vine kill for control of LB tuber infection.
Ranman 400SC	cyazofamid	2.75 fl oz	7 days	12 hours	FMC	21	Alternate with fungicides of a different mode of action.
Curzate	cymoxanil	3.2 oz	3 days	12 hours	DuPont	27	Tank-mix with chlorothalonil or mancozeb. Rate can go higher 3.2-5.0 oz/A for tomato.
Omega	fluazinam	5.5 lf oz	14 days	48 hours	Syngenta	29	Best when applied before disease, tank mix with other fungicides such as mancozeb or chlorothalonil. For POTATO ONLY.
Super-Tin 4L	triphenyltin hydroxide or TPTH	4-6.0 fl oz	7 days	48 hours	UPI	30	Combination of TPTH with MH-30 can cause crop injury, high rates may injure sensitive varieties. For POTATO ONLY.
Agri-Tin	triphenyltin hydroxide or TPTH	2.5-3.75 oz	7 days	48 hours	Nufarm	30	Combination of TPTH with MH-30 can cause crop injury, high rates may injure sensitive varieties. For POTATO ONLY.
Revus Top	mandipropamid + difenoconazole	7.0 fl oz	14 days	12 hours	Syngenta	40 + 3	Don't make consecutive applications, apply with a non-ionic surfactant. For both potato and tomato. However, not for use on tomato varieties that have small fruits (<2 in) such as cherry or grape tomatoes.
Presidio	fluopicolide	4.0 fl oz	2 days	12 hours	Valent	43	Labeled for use on TOMATO ONLY.