

2011 Potato Fungicide Roster and Ratings (in order of preference – Best to Poorest) with specific emphasis on the control of late blight (LB)
(*Phytophthora infestans*)

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Potato fungicides	<u>MOA for LB</u> (Protectant/Curative/Antisporulant)/ <u>Mobility</u>	¹ FRAC Group	² Risk mtg	REI (hrs.)	PHI (days)	No. applic./amt/season	³ Usage rate	⁴ Efficacy Foliar/Tuber Blight	⁵ Special comments & Resistance Mtg. measures
Ridomil Bravo (<i>mefenoxam</i> + <i>chlorothalonil</i>)	<u>P, C, A/Systemic</u>	4 + M5	H ¹ for Gp 4; mix = M	48	14	Don't exceed 11.25 lb a.i. /A/S of chloro. products	2.5 pt (rate = 1 lb a.i. chloro.)	Foliar = ++++ US22	<i>mefenoxam</i> is effective for US22 only, but not for most other isolates of LB; <u>Note High</u> fungicide resistance for Gp. 4 used alone; Alternate with different MOA between each spray.
	<i>mefenoxam</i> - effectiveness based upon isolate							TBlit = 0	
*Previcur Flex (<i>propamocarb</i>) add Contact	<u>P, C, A/Systemic</u>	28	L-M	12	14	5 applic./6 pt per season	LB @ 0.7-1.2 pt.	Foliar = ++	TM with contact fungicide; Suggest alternating diff. MOA with each spray.
	Good upper movement to stems and leaves							TBlit = ++	
*Presidio (<i>fluopicolide</i>) (<u>Not registered yet</u> on Potato) add Contact	<u>P, C, A/Translaminar/Sys.</u>	43	H	12	7	4 applic./12 fl oz	LB @ 4 floz	Foliar = +++	TM with contact fungicide; no more than 2 consecutive applic. before alternating to diff. MOA.
	Preventative; some curative reach-back activity							TBlit = ++++	
Revus (<i>mandipropamid</i>) add Contact	<u>P, c, a/Translaminar</u>	40	L-M	12	14	4 applic./32 fl oz	LB @ 5.5-8 floz	Foliar = ++	TM with contact fungicide; no more than 2 consecutive applic. before alternating to diff. MOA; addition of surfactant recomb.
	Locks into waxy layer (rainfast), then moves through leaf							TBlit = 0 (+)	
Revus Top (<i>mandipropamid</i> + <i>difenoconazole</i>)	<u>P, c, a/Translaminar</u>	40 + 3	L-M	12	14	4 applic./28 fl oz	LB + other @ 5.5-7 floz	Foliar = ++	No more than 2 consecutive applic. before alternating to diff. MOA; addition of surfactant rec.
	Added broad spectrum component							TBlit = 0 (+)	
Ranman 400SC (<i>cyazofamid</i>) add Contact	<u>P, -, -/Contact</u>	21	H	12	7	10 applic./27.5 fl oz	LB @ 1.4-2.75 floz	Foliar = ++;	TM suggestion; No more than 3 consecutive applic., then switch to 3 sprays of diff. MOA; TBlit use 2-3 sprays before vine kill.
	Limited systemic activity							TBlit = ++(+)	
*Gavel 75DF (<i>zoxamide</i> + <i>mancozeb</i>)	<u>P, -, -/Contact</u>	22 + M3	L-M	48	3	6 applic. or 12 lb/sea.	LB, EB @ 1.5-2 lb	Foliar = +	Suggest alternating diff. MOA with each spray.
	Not systemic, some vapor activity reported							TBlit = ++	
*Zoxium 80WSP (<i>zoxamide</i>) add Contact	<u>P, -, -/Contact</u>	22	L-M	48	3	8 applic. or 2 lb/sea.	LB @ 2.5-4.0 oz/A	Foliar = +	Product will only control LB; Do not make more than 2 consecutive applic.
	Same as above w/o mancozeb							TBlit = ++	

Forum (<i>dimethomorph</i>) add Contact	<u>P, c, A/Translaminar</u>	40	L-M	12	4	30 oz/season	LB @ 6 oz/A	Foliage = ++	TM suggestion and addition of spreading/penetrating adjuvant; alternate with diff. MOA.
	Use as preventative							TBlIt = ++	
Curzate 60DF (<i>cymoxanil</i>) add Contact	<u>P, C, a/Translaminar</u>	27	L-M	12	14	No more than 7 applic./sea.	LB @ 3.2 oz/A	Foliage = ++	TM required; Alternate sprays with fungicide with diff. MOA; Kick back activity is only 2 days if cool and zero if above 80F;
	Short residual, stronger curative properties							TBlIt = 0	
Tanos 50DF (<i>famoxadone</i> + <i>cymoxanil</i>) + Contact per label	<u>P, C, a/Translaminar</u>	11 + 27	M-H	12	14	48 oz/season	LB @ 6-8 oz	Foliage = ++	See the limitations above for Curzate ; treat essentially like a preventative spray.
	Two modes of activity; but mixture needs to be applied before infection occurs							TBlIt = 0	
Strobilurin Fungicides (ex. Quadris F, Gem, Headline, †Reason, Quadris Opti, Quadris Top)	<u>P, -, a/Translaminar</u>	11 alone or with additio nal Group Nos.	H if used alone	4	14	Limit of 123 fl oz/season	LB rate @ 12.0 fl oz/A	Foliage = +	Specifics are for Quadris F , no more than 1 application before switching to a fungicides with diff. MOA; See labels for other strobilurins for rates, etc.
	Products do have activity for LB, but should not be relied upon as first line of defense. (Preventative only)							TBlIt = 0	
chlorothalonil (ex. Bravo Weather Stik)	<u>P, -, -/Contact</u>	M5	L	12	7	15 pt (11.25 lb a.i.) /season	LB @ 0.75- 1.5 pt; other dis.	Foliar = ++	Good TM partner; Many other formulations and generics exist – see specific label
	Broad spectrum							TBlIt = 0	
mancozeb (ex. *Dithane DF Rain Shield)	<u>P, -, -/Contact</u>	M3	L	24	3	Limit 15 lb (11.2 lb a.i./season)	LB @ 1-2 lb/A	Foliar = ++	Good TM partner; rate can be adjusted depending on plant size – see label
	Broad spectrum – for LB and EB							TBlIt = 0	
Polyram 80DF (<i>metiram</i>)	<u>P, -, -/Contact</u>	M3	L	24	3	14 lb/season	1.5-2 lb/A	Foliage = ++	Use as a TM partner
	Broad spectrum - LB and EB							TBlIt = 0	
*Agri Tin (<i>triphenyltin hydroxide</i>)	<u>P, -, -/Contact</u>	30	L-M	48	7	Limit of 11.25 oz/season	LB @ 2.5- 3.75 oz/A	Foliage = ++	* Super Tin for LB @ 4-6 fl oz/A, limit 18 fl oz/season.
	Often used as TM partner							TBlIt = 0	
copper (ex. Champ WG, since OMRI) (<i>copper hydroxide</i>)	<u>P, -, -Contact</u>	M1	L	24	0	No limits listed	LB @1-1.5 lb to 3- 4lb/A	Foliage = +	<u>Other OMRI coppers: Basic copper 53; Cueva; Nu-Cop 50WP</u> ; Many other <u>Conventional coppers</u> avail.
	Broad spectrum – EB and LB							TBlIt = +	

^{1,2} FRAC = Fungicide Resistance Action Committee Group No. and Risk for fungicide resistance development; ³ Usage rate for LB as range or highest value; ⁴ Foliar and Tuber Blight ratings where 0 = no effect or not labeled; 0(+) = some effect; + = poor; ++ = OK-good; +++ = very good; ++++ = excellent. ⁵ Special comments: **TM** = tank mix with another fungicide for resistance management and control of other diseases like early blight; **MOA** = mode of action means selecting a fungicide from a different Fungicide Group * = Restricted applicator use in NYS per DEC requirements; † = Not for use on Long Island.