

Nova Scotia Pathology Pest Priority Worksheet – 2021 - Vegetables

Crop Group	Crop	Target Pest	Priority Rank 2020	Priority Rank 2021	Potential Solution	Comments / Rationale
Crop Group 1: Root and tuber vegetables, (Carrot, potato, radish and sugar beet)						
1	Beet, garden	scab	2			
1	Beet, garden	Cercospora	1			Aprovia Top, reporting phase; Luna Sensation registrant support confirmed. Registrant support for double nickel, phostrol, and milstop. No support for cevya.
1	Carrot	Cavity spot/pythium	4			Ranman 400SC, use accepted by PMRA; Presidio, project complete. Reason (fenamidone) registered for Pythium damping off.
1	Carrot	cercospera	2			XDE-659, data generation; Need replacement for Bravo
1	Carrot	nematodes	1			Fluensulfone, reporting phase; Velum Prime, project complete; 19- Registrant support confirmed for Salibro Nematicide, and Nemastrike.
1	Carrot	sclerotinia	3			Allegro 500F, use accepted by PMRA; Scholar use accepted by PMRA; Registrant would support Fontelis.
1	Carrot	Erwinia carotovora	5			
1	Potato	Late blight	1			Screening for organic production, project complete. Bravo replacement
1	Potato	Pink rot	2			

1	Potato	nematodes	3			Fungicides other than fumigants are needed
1	Radish	scab	1			
1	Rutabaga	Powdery mildew	1			Nova, no US registration. Would require residue, efficacy and crop tolerance data. Pending study outcome registrant would support. Fontelis is labeled for powdery mildew on rutabaga. Diplomat registrant support confirmed
Crop Group 3: Bulb vegetables (Onion, bulb, Onion, green)						
3-07	Onions, bulb	Botrytis leaf blight	5			Pyrimetonil project withdrawn. Switch and Allegro submitted 2012. Replacement for Loss of Bravo!!
3-07	Onions, bulb	Bacterial diseases	3			Screening complete - eligible for AUTOMATIC A priority; Need screening trials, no pest control product registered
3-07	Onions, bulb	Fusarium (basal rot)	2			Registrant supports Miravis Prime for joining IR4. Serifel support contingent on review of value data.
3-07	Onions, bulb	Downy mildew	4			Reason 500SC, project complete; Presidio project complete; Zorvec Enicade, project complete; Picarbutrazox 10SC, data generation. Confine, Rampart, Phostrol not accepted by organic certification and Loveland support confirmed, Belchim would support with efficacy, (suppression on the Phostrol label, additional efficacy required for label of control). Picarbutrazox 10SC and Diplomat registrant support confirmed.
3-07	Onions, bulb	stemphylium	1			Flint, project complete; Fontelis, purple blotch already labelled,

						registrant would support Stemphylium. Diplomat registrant support confirmed. Support for Cevya conditional on review of data. No support for Merivon.
3-07	Onions, green	Downy mildew	2			Reason, use accepted by PMRA; Presidio, project complete; Zorvec Enicade, use accepted by PMRA; Ridomil Gold, reporting phase; Picarbutrazox 10SC, data generation; Confine, Rampart, Phostrol biopesticides not accepted by organic certification - Belchim Crop Protection Canada would support with efficacy; Loveland support confirmed. Use registered for suppression of downy mildew on Bulb Veg crop group. Diplomat, registrant support confirmed.
3-07	Onions, green	stemphylium	1			Aprovia, use accepted by PMRA; Flint, project complete; PHI / Rotation product needed. Fontelis, purple blotch already labelled, registrant would support Stemphylium. Diplomat, registrant support confirmed.
3-07	Garlic	Blue mold	3			Storage
3-07	Garlic	Fusarium basal rot	2			Scholar, project withdrawn as seed treatment. BASF support for Serifel contingent on value data. Syngenta supports Miravis Prime for joint IR4.
3-07	Garlic	Nematodes	1			Agrimek; project withdrawn; Registrant supports Agri-mek SC. Velum Prime, current provincial minor use submission. Movento, registrant support confirmed.

03-07	Leek	Stemphyllium leaf blight	1			
Crop group 4: Leafy vegetables (Celery, head lettuce, leaf lettuce and spinach)						
4	Celery	Celery leaf curl	2			Diplomat, registrant support confirmed. No available Anthracnose / leafy veg. efficacy data. PMRA registration for Anthracnose on other crops
4	Celery	Bacterial soft rot	1			Registrant support confirmed for Tivano
4	Lettuce, Head (field)	Downy mildew	1			Dithane, project withdrawn; Gavel, project complete; Torrent, use accepted by PMRA; Reason, project withdrawn; Zorvec Enicade, use accepted by PMRA; Picarbutrazox 10SC, data generation; Registrant supports Cueva. Downy mildew (suppression) on head lettuce is labelled on Diplomat. Registrant support for Picarbutrazox with efficacy
4	Lettuce, Head (field)	Sclerotinia	2			Allegro, submitted to PMRA; Intuity Fungicide, data generation; Registrant support for Diplomat with efficacy
4	Lettuce, Head (field)	Gray mold	3			
4	Lettuce, leaf (field)	Downy mildew	1			Manufacturer support (Cueva). Registrant support confirmed for Orondis Gold, Picarbutrazox 10 SC, data generation
4	Lettuce, leaf (field)	Sclerotinia	2			Allegro, reporting phase; Intuity Fungicide, data generation. Registrant support for Diplomat with efficacy
4	Lettuce, leaf	Gray mold	3			

	(field)					
4	Parsley	Septoria leaf spot	1			Quadris, use accepted by PMRA; Quadris Top, data generation; Luna Sensation registered on different diseases. Registrant will support Luna Sensation foliar
4	Parsley	alternaria	2			
4	spinach	Anthracnose, Stemphyllium	1			Switch 62.5, project complete; Registrant supports joint project with Quadris Top / Aprovia Top / Inspire Super. Registrant will support Luna Sensation foliar. Fontelis, registrant would likely support. Diplomat, registrant support confirmed. No leafy veg efficacy data for these diseases. Registered for anthracnose on other crops in the US.
4	Spinach	Downy mildew	2			Ridomil Gold 480EC, use accepted by PMRA; Reason 500SC, project complete; Allegro 500F, project withdrawn; Previcur N, project complete; Picarbutrazox 10SC, data generation; Zampro, project complete. Cueva, registrant supports. Confine / Rampart / Phostrol, Loveland support confirmed, Belchim support confirmed. Diplomat, registrant support confirmed.
4	Spinach, baby	Downy mildew	2			

4	Spinach, baby	Anthraco	3			
4	Spinach, baby	Stemphyllium leaf blight	1			
4	Swiss chard	Alternaria	1			Need products for Rotation
4	Swiss chard	Downy mildew	2			
4	cilantro	Bacterial leaf spot	1			
4	cilantro	stemphyllium	2			
Crop Group 5: Cole crops ( Broccoli or cauliflower, cabbage and mustard greens)						
5	Broccoli	Bacterial diseases	1			No registrant support for Actiguard. Cyclone, for bacterial head rot. Kocide 2000-O / Parasol, Nufarm would support on condition of acceptable tolerance and efficacy data.
5	Broccoli	Club root	2			Allegro, use accepted by PMRA
5	Cabbage	Sclerotinia	1			
5	Cabbage	Alternaria	2			Registrant supports Switch or Miravis Duo; Alternaria on Miravis Duo label; ON Submission underway for Alternaria with Switch. Reason, registrant conditional support, pending transfer of ownership from Bayer to Gowan. Velum Prime / Luna Privilege, registrant will support soil application with efficacy data.

						Fontelis is labelled for Alternaria leaf spot on cabbage. Diplomat, registrant support with efficacy.
5	Cabbage	Botrytis	3			Pristine, use accepted by PMRA; Registrant support confirmed
5	Cabbage	Club root	4			Allegro, use accepted by PMRA
5	Cabbage, Chinese	Downy Mildew	1			Presidio submitted on Crop group 5B
5	Cabbage, Chinese	sclerotinia	3			
5	Cabbage, Chinese	Bacterial and common blights	2			
5	Cabbage, Chinese	Club root	4			
5	Cauliflower	Sclerotinia	1			
5	Cauliflower	alternaria	2			Registrant support for Miravis Duo. Short REI needed; Registrant conditional support, pending transfer of ownership from Bayer to Gowan. Velum Prime / Luna Privilege, registrant will support soil application with efficacy data. Fontelis is labelled for Alternaria leaf spot on cauliflower. Diplomat, registrant support confirmed.
5	Cauliflower	Club root	3			
5	Brussels' sprouts	Sclerotinia	1			
5	Brussels'	alternaria	2			

	sprouts					
5	Brussels' sprouts	Club root	3			
5	Collards	Downy Mildew	2			Need short PHI
5	Collards	Alternaria	1			
5	Kale	Downy Mildew	3			
5	Kale	Alternaria	1			
5	Kale	Sclerotinia	2			
Crop Group 6: (Bean, Pea and soybean)						
6	Bean, dry	Sclerotinia	1			Allegro, use accepted by PMRA
6	Bean, dry	pythium	2			
6	Bean, succulent	sclerotinia	1			Allegro, use accepted by PMRA; Acapela, submitted to PMRA.
6	Pea, dry	sclerotinia	1			
6	Pea, succulent	sclerotinia	1			Acapela, submitted to PMRA
6	Pea, succulent	Root rot	2			Registrant supports Maxim Quattro.
6	Soybean	sclerotinia	1			
Crop Group 8: Fruiting vegetables (Tomato, bell pepper and one cultivar of non bell pepper)						
8	Pepper, field	Bacterial spot	2			Kasumin, use accepted by PMRA



8	Pepper, field	Anthracnose	1			
8	Pepper, field	botrytis	3			
8	Tomato	Anthracnose	3			
8	Tomato	Late blight	4			Tattoo, use accepted by PMRA; Revus Top + Endigo, project complete
8	Tomato	Bacterial diseases	1			
8	Tomato	botrytis	2			Switch, use accepted by PMRA, no residue, low PHI
Crop Group 9: Cucurbits, (Cucumber, muskmelon and summer squash)						
9	Cucumber	Powdery mildew	1			Nova, use accepted by PMRA; Diplomat is registered.
9	Cucumber	Angular leafspot	2			
9	GH Cucumber	Downy Mildew	1			Presidio, project withdrawn; Ranman 400SC, use accepted by PMRA; Zorvec Enicade, use accepted by PMRA; Zampro, use accepted by PMRA; Picarbutrazox, data generation; Stargus, establishing data requirement. Regalia MAXX, registrant support confirmed; MBI-110 also a possible solution. Allegro, registrant requests further information.  Confine / Rampart / Phostrol, not accepted for organic certification; Belchim Crop Protection Canada would support with efficacy; Loveland support confirmed. Registered on Phostrol Label.

9	Pumpkin	Powdery mildew	1			
9	Pumpkin	Angular leafspot	2			
9	Squash, summer	Powdery mildew	1			Nova, use accepted by PMRA; Influence, use accepted by PMRA
9	Squash, summer	Angular leafspot	2			
9	Squash, winter	Powdery mildew	1			
9	Squash, winter	Angular leafspot	2			
Not Included in any crop Group						
NC	Asparagus	Purple Spot	1			Fontelis, data generation. Luna Tranquility, registrant would support.
NC	Hops	Powdery mildew	2			Vivando, use accepted by PMRA; Folicur, project withdrawn; Gatten, data generation; Serifel, data generation; Serenade ASO, registrant would support with efficacy data. Registrant would support Fontelis. Diplomat, registrant support confirmed, need efficacy data.
NC	Hops	Downy mildew	1			Presidio, project complete; Ranman 400SC, use accepted by PMRA; Orondis Ultra, project complete; Picarbutrazox 10 SC, establishing data requirements; Phostrol, data generation; Registrant would support Aliette with efficacy data;

						Hops Growers in MB would list Aliette as a top priority to try. Confine / Rampart / Phostrol – Loveland and Belchim support confirmed.
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