

2006 PATHOLOGY Minor Use National Priority Listing

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other	
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
3	<b>Crop Group # 1 (Carrot, potato, radish and sugar beet)</b>																			
4	Beets, sugar	<i>Rhizoctonia</i>					1							pyraclostrobin	Headline	BASF	URMULE			
5														fludioxonil	Scholar	Syngenta	Pending URMUR			
6														flutolanil	Moncut	Gowan	Cat. A			
7														fluazinam	Allegro	ISK	URMULE			
8	Beets, sugar	Leaf blight					2							trifloxystrobin	Flint	Bayer	URMULE			
9	Beets, sugar	Powdery mildew					3							pyraclostrobin + boscalid	Pristine	BASF	URMULE			
10														sulfur	Microscopic sulfur	UAP	URMULE			
11	Beets, sugar	<i>Aphanomyces</i>		2										hymexazol	Tachigaren	Sankyo	URMUR			
12	Beets, red	<i>Cercospora</i>					1							pyraclostrobin + boscalid	Pristine	BASF	URMULE	07926		
13														thiophanate-methyl	Senator	Engage Agro	URMULE		Based on sugar beet use	
14	Carrot	<i>Sclerotinia</i> white mold & <i>Botrytis</i>	3			2	1	1						fluazinam	Allegro	ISK	URMULE	07094	D 3.1 2004-4212 joint project	
15														boscalid	Lance	BASF	URMULE		Is there efficacy data?	
16														fludioxonil	Scholar	Syngenta	Cat. A			
17														<i>Coniothyrium minitans</i>	Contans WG	Encore Technologies	URMUR		No company support 2004. Significantly effective on sclerote delene	
18	Carrot	<i>Pythium</i> (carrot root dieback)	2				2													
19														cyazofamid	Ranman	ISK	Cat. A	08523		
20														fenamidone	Reason	Bayer	URMULE	08524	Joint with IR-4	
21	Carrot	Leaf blights especially <i>Alternaria</i>	1			3	3							pyraclostrobin + boscalid	Pristine	BASF	URMULE	07925	Cabrio and Lance are reg. now	
22														cyprodinil + fludioxonil	Switch	Syngenta	URMULE			
23														tebuconazole	Folicur	Bayer	URMULE	07616	Cabrio and Lance are reg. now	
24														pyraclostrobin	Cabrio	BASF	URMULE			

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2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
25														<i>Bacillus subtilis</i>	Serenade	AgraQuest	URMUR		
26	Carrot	<i>Rhizoctonia</i>					4					2		azoxystrobin	Quadris	Syngenta	URMULE	D.3.2. 2005-1796	Reg. for use by air
27	Carrot	labelled diseases ?				1								pyraclostrobin	Cabrio	BASF	URMULE		Reg. for use by air
28	Celeriac	Late blight ( <i>Septoria apii</i> , <i>Cercospora</i> )						1						azoxystrobin	Quadris	Syngenta	URMULE		
29														pyraclostrobin + boscalid	Pristine	BASF	URMULE	08362	
30	Chicory/ Belgian Endive	<i>Sclerotinia</i> on B. endive					1							boscalid	Lance	BASF	URMULE		
31	Chicory/ Belgian Endive	<i>Pseudomonas chicorii</i>					2							copper	Kocide 2000	DuPont	URMULE		
32	Ginseng	<i>Phytophthora</i>					1							propamocarb	Previcur	Bayer	URMULE		
33														dimethomorph	Acrobat	BASF	URMULE	08958	
34														famoxadone + cymoxanil	Tanos	DuPont	URMULE		
35														fluazinam	Allegro	ISK	URMULE	08791	
36														fenamidone	Reason	Bayer	URMULE		
37	Ginseng	Rust ( <i>Cylindrocarpon</i> , <i>Fusarium</i> , <i>Rhexocercosporidium</i> , <i>Rhizoctonia</i> )	1				2							fenamidone	Reason	Bayer	URMULE		
38														thiophanate-methyl	Senator	Engage Agro	URMULE		
39														propiconazole	Tilt	Syngenta	URMULE		Senator, captan, fludioxonil for root diseases underway w/AAFC IR-4 joint project
40														tebuconazole	Folicur	Bayer	URMULE		
41														pyraclostrobin	Cabrio	BASF	URMULE		Senator, captan, fludioxonil for root diseases underway w/AAFC IR-4 joint project

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
42														pyraclostrobin + boscalid	Pristine	BASF	URMULE		Senator, captan, fludioxonil for root diseases underway w/AAFC IR-4 joint project
43														iodomethane		Arysta	Urmur/Cat. A		Pre-plant fumigant
44														<i>Gliocladium catenulatum</i>	Prestop	Verdera Oy	URMUR		
45	Ginseng	Rhizoctonia	2																Need rotational products w/ Quadris; AAFC doing Senator URMULE
46	Ginseng	Alternaria	3			3								fenamidone	Reason	Bayer	URMULE		
47														pyraclostrobin	Cabrio	BASF	URMULE		
48														azoxystrobin	Quadris	Syngenta	URMULE		
49														famoxadone + cymoxanil	Tanos	DuPont	URMULE		
50														pyraclostrobin + boscalid	Pristine	BASF	URMULE		Leaf and seed disease
51		Pythium				4								fenamidone	Reason	Bayer	URMULE		
52	Ginseng	Seedling diseases	1			5								difenoconazole	Dividend	Syngenta	URMULE		Seed treatment
53														fludioxonil	Scholar	Syngenta	URMULE		Seed treatment
54	Ginseng	Botrytis	4																Not a big concern in BC; Elevate registered now
55	Potato	Verticillium wilt		1		4		3				1							
56	Potato	Powdery scab		2								6							
57	Potato	Common scab					1	1				2	1	<i>Streptomyces melanosporo-faciens</i>	EF-76	HMH Therafect	Cat. A		

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
1																				
2																				
58														fluazinam	Allegro	ISK	URMUR	07094		
59	Potato	Rhizoctonia	2	2	1	2								flutolanil + mancozeb	Moncut MZ	Gowan	URMUR		Need rotational product for Maxim	
60														flutolanil	Moncut / Moncoat	Gowan/UAP	URMUR			
61														Streptomyces melanosporo-faciens	EF-76	HMH Therafect	Cat. A			
62														thiophanate-methyl + mancozeb	Tops MZ	Bayer	URMUR		Individual products w/these ai are reg. in Canada	
63														azoxystrobin	Quadris	Syngenta	URMULE		In furrow regist., seed treatment	
64														metalaxyl-m	Ridomil Gold	Syngenta	URMULE		Seed treatment	
65	Potato	Early blight																		
66	Potato	Late blight in storage (Phytophthora infestans)	2		4		3	2						phosphite	Phostrol	NuFarm	URMUR		Incl. late blight in storage	
67														thiophanate-methyl + mancozeb + cymoxanil	Evolve	Bayer	Cat. A		Seed trt, EU granted in 2005 for processing potatoes	
68														famoxadone + cymoxanil	Tanos	DuPont	Registered			
69														fluazinam	Allegro	Syngenta	URMULE			
70														Bacillus subtilis strain QST 713	Serenade	AgraQuest	URMUR			
71	Potato	White mold (Sclerotinia)					5							iprodione	Rovral	Bayer	URMULE			
72	Potato	Seed borne late blight	2				2							thiophanate-methyl + mancozeb +cymoxanil	Evolve	Bayer	Cat. B		Seed piece treatment	
73														thiophanate-methyl + mancozeb	Tops MZ	Bayer	URMUR		Individual products with these ai's are registered in Canada	
74	Potato	Storage rots including P. infestans, Pythium, Erwinia)		1	2	1		4	1					phosphite	Phostrol	NuFarm	URMUR		No ST reg. for these rots in canada. USA registered for this use	

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2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
75	Potato	Silver Scurf, black dot ( <i>Colletotrichum</i> )	1	2	3	3						4								Storage treatment
76														"PWS"? Some being investigated in BC, 2006						Spray going into storage &/or fogging in storage
77														azoxystrobin	Quadris	Syngenta	URMULE			Seed treatment
78														metalaxyl-m	Ridomil Gold	Syngenta	URMULE			Seed treatment
79	Potato	Seed borne diseases and CPB					4							imidacloprid + mancozeb	Gaucha MZ	Bayer	Pending Cat. A			Seed piece treatment
80	Potato, sweet	PH storage diseases					1							hydrogen peroxide	Storox	BioSafe Systems Inc.	URMULE			
81	Radish	<i>Rhizoctonia</i>					2							azoxystrobin	Quadris	Syngenta	URMULE	D.3.2. 2005-1796		
82	Radish	Downy mildew & white rust	1				1							pyraclostrobin + boscalid	Pristine	BASF	URMULE	07928		Cabrio reg. on this crop group for other diseases
83														trifloxystrobin	Flint	Bayer	URMULE	08363		
84														famoxadone + cymoxanil	Tanos	DuPont	URMULE	08757		
85														dimethomorph	Acrobat	BASF	URMULE			
86														zoxamide	Gavel	Dow Agro	URMULE			
87														pyraclostrobin	Cabrio	BASF	URMULE			Cabrio reg. on this crop group for other diseases
88	Radish	Black root rot ( <i>Aphanomyces</i> )	2																	
89	Rutabaga	Powdery mildew	2				1							pyraclostrobin + boscalid	Pristine	BASF	URMULE	07927		Cabrio is reg. for this use
90														myclobutanil	Nova	Dow Agro	URMULE			Cabrio is reg. for this use
91	Rutabaga	<i>Rhizoctonia</i> (crater rot)	1									1								
92														azoxystrobin	Quadris	Syngenta	URMULE			
93														boscalid	Lance	BASF	URMULE			
94	Rutabaga	Downy mildew										2		zoxamide	Gavel	Dow Agro	URMULE			
95														boscalid	Lance	BASF	URMULE			
96	<b>Crop Group # 3 (Green onion, dry bulb onion)</b>																			

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2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
97	Crop Group 3	White rot					1								diallyl disulphide	DADS	UAP	Cat. A	
98															boscalid	Lance	BASF	URMULE	
99	Crop Group 3	Downy mildew					2								zoxamide	Gavel	Dow Agro	URMULE	
100															famoxadone + cymoxanil	Tanos	DuPont	URMULE	08303
101	Crop Group 3	Botrytis neck rot				1	3								fenhexamid	Elevate	Arysta	URMULE	07149
102															boscalid	Lance	BASF	URMULE	
103															Bacillus subtilis	Serenade	AgraQuest	URMULE	
104	Crop Group 3	Smut					4								tebuconazole	Raxil	Bayer	URMULE	Seed treatment
105	Crop Group 3	Bulb & Stem nematode					5								Chloropicrin	Chloropicrin 100	Hendrix and Dail	URMULE	Other priority group
106	Garlic	White rot	1												diallyl disulphide	DADS	UAP	Cat. A	
107															boscalid	Lance	BASF	URMULE	Lance is reg. on Garlic and for Sclerotinia on other crops
108	Garlic	Fusarium					1								tebuconazole	Folicur	Bayer	URMULE	07197 Current Urmule is for white rot only
109															fludioxonil	Scholar	Syngenta	URMUR	
110	Onions, dry bulb	Downy mildew	1								1				zoxamide	Gavel	Dow Agro	URMULE	Cabrio registered for this use
111															fenamidone	Reason	Bayer	URMULE	Cabrio registered for this use
112															dimethomorph	Acrobat	BASF	URMULE	Cabrio registered for this use
113															famoxadone + cymoxanil	Tanos	DuPont	URMULE	Cabrio registered for this use
114															pyraclostrobin + boscalid	Pristine	BASF	URMULE	
115	Onions, dry bulb	Botrytis	3								1				Fenhexamid	Elevate	Arvesta	URMULE	07149 Lance registered
116	Onions, dry bulb	Slippery skin (Pseudomonas gladioli pv. allicola)									4				?				

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
117	Onions, dry bulb	Rhizoctonia										3		azoxystrobin	Quadris	Syngenta	URMULE		
118														pyraclostrobin	Cabrio	BASF	URMULE		
119	Onions, dry bulb	White rot	2					1											
120														diallyl disulphide	DADS	UAP	Cat. A		
121														boscalid	Lance	BASF	URMULE		Need to confirm efficacy
122	Onions, dry bulb	Bacterial rots (in storage)						3											
123	Onions, dry bulb	Leaf blight ( <i>Botrytis squamosa</i> )						4											
124	Onions, dry bulb	labelled diseases				2								boscalid	Lance	BASF	URMULE		Reg. for use by air
125	Onions, dry bulb incl. Spanish onion	Black leaf mold ( <i>Stemphyllium botryosum</i> )						2						mancozeb	Dithane	Dow Agro	URMULE		
126														iprodione	Rovral	Dow Agro	URMULE		
127	Onions, green	Rust	1											myclobutanil	Nova	Dow Agro	URMULE		Cabrio & Headline reg. on rust
128														pyraclostrobin	Cabrio	BASF	URMULE		
129	<b>Crop Group # 4 (Celery, head lettuce, leaf lettuce, and spinach)</b>																		
130	Celery	Leaf blight ( <i>Septoria</i> )					1	1						pyraclostrobin + boscalid	Pristine	BASF	URMULE		Current URMULE is for <i>Sclerotinia</i> only
131														azoxystrobin	Quadris	Syngenta	URMULE		
132														trifloxystrobin	Flint	Bayer	URMULE	07046	
133														fluazinam	Allegro	ISK	URMULE		
134	Lettuce, field	<i>Pythium</i>	4				1							fenamidone	Reason	Bayer	URMULE		
135	Lettuce, field	Downy mildew	2				2	1				3		famoxadone + cymoxanil	Tanos	DuPont	URMULE	08499	

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2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
136														metalaxyl-m	Ridomil Gold	Syngenta	URMULE		Objective: CG 4 including chicory and escarole/reg. in head lettuce
137														zoxamide	Gavel	Dow Agro	URMULE	D 3.1 - 2003-0107	
138														pyraclostrobin	Cabrio	BASF	URMULE		Registered for Downy mildew on other crops
139														dimethomorph	Acrobat	BASF	URMULE		
140														fenamidone	Reason	Bayer	URMULE		
141	Lettuce, field	Sclerotinia	6			1	3							fluazinam	Allegro	ISK	URMULE	06892	
142														Coniothyrium minitans	Contans WG	Encore Technologies	URMUR		No company support in 2004
143														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
144	Lettuce, field	Bacterial leaf spot (Xanthomonas campestris cv vitians)					4	2						famoxadone + cymoxanil + copper	Tanos + copper	DuPont	URMULE	09306	
145	Lettuce, field	Anthracoise (Mycodochium)	1																
146	Lettuce, field	Rhizoctonia					5							azoxystrobin	Quadris	Syngenta	URMULE		
147	Lettuce, field	Botrytis	5											fenhexamid	Elevate	Arysta	URMULE		Lance registered
148	Spinach	Downy mildew	1				1							famoxadone + cymoxanil	Tanos	DuPont	URMULE	08308	
149														zoxamide	Gavel	Dow Agro	URMULE	07485	
150														fenamidone	Reason	Bayer	URMULE		
151														fosetyl-al	Aliette	Bayer	URMULE	05166	
152														pyraclostrobin	Cabrio	BASF	URMULE		Reg. on downy mildew on other crops
153	Spinach	White rust					2							pyraclostrobin	Cabrio	BASF	URMULE		
154														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
155														azoxystrobin	Quadris	Syngenta	URMULE		



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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
156														famoxadone + cymoxanil	Tanos	DuPont	URMULE		
157	Rhubarb	Ramularia leaf and stalk spot	x											chlorothalonil	Bravo	Syngenta	URMULE	05410	No new uses
158	Parsley	Septoria blight					1	1											
159														azoxystrobin	Quadris	Syngenta	URMULE	2003-1583	AAFC project
160	Parsley	Seedling decay					2												See 2003-1115 below
161	Parsley	Bacterial blights					3							famoxadone + cymoxanil + copper	Tanos+Kocide	DuPont	URMULE		
162	Radicchio	Rhizoctonia						1											
163	Lettuce, greenhouse	Botrytis	2											pyrimethanil	Scala	Bayer	Cat. A		Top disease. Only Decree (ER) available in BC
164	Lettuce, greenhouse	Powdery mildew	3					1						myclobutanil	Nova	DowAgro	Urmule		
165														sodium tetraborohydrate decahydrate	Pre AM	Oro Agri	URMUR		
166														sulfur 99% vaporizing devices					No product reg.
167														cyflufenamid	Pancho, NF-149	Nisso America Inc.	URMUR		No product reg.
168														chitosan	Chitosan Plus	Vision Envirotech	Cat. A		No product reg.
169														mepanipyrim	Frupica, Cockpit, Japica	Sipcam	Cat. A		No product reg.
170														spiroxamine	Impulse, Prosper, Hogger	Bayer	URMUR		No product reg.
171														triflumizole	Procure, Terrguard	Crompton	Cat. A		No product reg.
172														Bacillus subtilis	Serenade	AgraQuest	URMUR		No product reg.
173														Jojoba Oil	Detur/E-rase	IJO Products	Cat. A		No product reg.

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
174	Lettuce, greenhouse	Downy mildew	1											propamocarb	Previcur	Bayer	URMUR	2000-0380	Only Aliette is reg. need alternatives. AAFC project subm. Jan 2006 for Acrobat (dimethomorph)
175	Lettuce, greenhouse	Pythium root rot	4					2						hydrogen peroxide	Oxidate	BioSafe Systems Inc.	URMULE		
176														Bacillus subtilis	Serenade	AgraQuest	URMUR		
177														cyazofamid	Ranman	ISK	Cat. A		
178														flutolanil	Contrast	Nihon Nohwaku	URMUR		
179														Pseudomonas chloroaphis	AtEze	EcoSoil Systems	URMUR		
180														propamocarb	Previcur	Bayer	URMULE		
181														dimethomorph	Acrobat	BASF	URMULE		AAFC project submitted Jan 2006 Acrobat downy mildew
182														metalaxyl-m	Ridomil	Syngenta	URMULE		Syngenta previously would not support, ask again
183	<b>Crop Group # 5 (Broccoli or cauliflower, cabbage, mustard greens)</b>																		
184	Crop Group 5	Downy mildew	4				1					3		zoxamide	Gavel	Dow Agro	URMULE	07591, 07982	
185														pyraclostrobin + boscalid	Pristine	BASF	URMULE	08092, 08093	
186														pyraclostrobin	Cabrio	BASF	URMULE		
187														azoxystrobin	Quadris	Syngenta	URMULE	06813, 07095 2001-3670	
188														dimethomorph	Acrobat	BASF	URMULE	07247, 07248; 2002-0601	
189														famoxadone + cymoxanil	Tanos	DuPont	URMULE	07976, 07977	
190														fenamidone	Reason	Bayer	URMULE	07977, 07845	

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
191	Crop Group 5	Club root ( <i>Plasmodiophora brassicae</i> )	1				2					4	1		cyazofamid	Ranman	ISK	URMUR	09082,09083, 09717	Allegro URMULE underway w/AAFC
192															flusulfamide	Nebijin	Mitsui	Cat. A		
193	Crop Group 5	<i>Alternaria / Cladosporium</i>	2				3	1					2	2	fenamidone	Reason	Bayer	URMULE	07976, 07977, 07845	
194															pyraclostrobin + boscalid	Pristine	BASF	URMULE	08092, 08093, 08094	
195															Organic product?	?				
196															boscalid	Lance	BASF	URMULE		
197															azoxystrobin	Quadris	Syngenta	URMULE	07096	D.3.1. 2001-3669 Quadris/downy mildew in CG5. adding a pest to a label Pristine/Alternaria et al , AAFC project.
198	Crop Group 5	Bacterial Diseases	3				4						3							
199	Crop Group 5	Powdery Mildew					5								myclobutanil	Nova	Dow Agro	URMULE	07876, 07877, 07879, 08093	
200															pyraclostrobin + boscalid	Pristine	BASF	URMULE	08092, 08093, 08094	
201	Crop Group 5	Head rot									1	1			bactericides ?					
202	Crop Group 5	<i>Sclerotinia</i>									1				boscalid	Lance	BASF	URMULE		
203															fluazinam	Allegro	ISK	URMULE		
204	Cauliflower	<i>Xanthomonas leaf spot (Xanthomonas campestris pv armoraciae), Black rot (Xanthomonas campestris pv campestris)</i>							1						famoxadone + cymoxanil + copper	Tanos+Kocide	DuPont	URMULE		

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other	
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
205	<b>Crop Group # 6 (Bean, pea and soybean)</b>																			
206	Beans, snap, lima	White mold, grey mold	1				1							fluazinam	Allegro	ISK	URMULE		Lance is reg. on downy mildew. ** Ronalin will lose US res tolerance soon	
207	Beans, snap, lima	Soybean rust					3							azoxystrobin	Quadris	Syngenta	URMULE			
208														azoxystrobin + propiconazole	Quilt	Syngenta	Cat. B			
209														propiconazole	Tilt	Syngenta	URMULE			
210														tebuconazole	Folicur	Bayer	URMULE			
211														myclobutanil	Nova	Dow Agro	URMULE			
212														metconazole	V-10116	Valent	Cat. A			
213	Beans, snap, lima	Downy mildew					2							zoxamide	Gavel	Dow Agro	URMULE			
214														famoxadone + cymoxanil	Tanos	DuPont	URMULE	07262		
215														fenamidone	Reason	Bayer	URMULE			
216	Beans, snap, lima	Angular leaf spot					4													
217	Beans, snap, lima	Botrytis					5							fenhexamid	Elevate	Arysta	URMULE		Botrytis only	
218	Beans, snap, lima	Anthrachnose						2												
219	Fababean	Seed-borne fungal diseases		1										carbathiin + thiram	VitaFlo 280	Bayer	URMULE			
220														fludioxonil + metalaxyl	Apron Maxx	Syngenta	URMULE			
221	Fababean	Ascochyta		2										chlorothalonil	Bravo 500	Syngenta	URMULE			
222	Lupins	Seed-borne fungal diseases		1										carbathiin + thiram	VitaFlo 280	Crompton	URMULE			
223														fludioxonil + metalaxyl	Apron Maxx	Syngenta	URMULE			
224	Lupins	Ascochyta		2										chlorothalonil	Bravo 500	Syngenta	URMULE			

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1	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
225	All dry edible beans	Soybean rust					1							propiconazole	Tilt	Syngenta	Cat. B		2006 co-submission
226														azoxystrobin	Quadris	Syngenta	Cat. B		2006 co-submission
227														pyraclostrobin	Headline	BASF	URMULE	Co-submission 2005-2042	Soybean rust must still be added
228														flusilazole	NuStar	DuPont	Cat. B		
229														azoxystrobin + propiconazole	Quilt	Syngenta	Cat. B		
230																			
231	All dry edible beans	Bacterial blight					2							copper	Kocide 2000	DuPont	URMULE		Current URMULE is for seed only
232	All dry edible beans	White mold		1		1	3							fluazinam	Allegro	ISK	URMULE	06369	Ronilan replacement; ON to submit pending new IR-4 data
233														<i>Coniothyrium minitans</i>	Contans WG	Encore Technologies / Prophyta	URMUR		Prophyta support
234														Other biologicals	Other biologicals	Various	URMULE / URMUR		
235														thiophanate-methyl	Senator	Engage Agro	URMULE		
236														iprodione	Rovral Flo	Bayer	URMULE		
237	Soybeans	Soybean rust					1							tebuconazole	Folicur	Bayer	Cat. B		2006 co-submission
238														propiconazole	Tilt	Syngenta	Cat. B		2006 co-submission
239														azoxystrobin	Quadris	Syngenta	Cat. B		2006 co-submission
240														pyraclostrobin	Cabrio	BASF	URMULE	2004-0981	Soybean rust must still be added
241														myclobutanil	Nova	Dow Agro	Cat. B		
242														flusilazole	NuStar	DuPont	Cat. B		

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other	
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
1																				
2																				
243														azoxystrobin + propiconazole	Quilt	Syngenta	Cat. B		2006 co-submission	
244														trifloxystrobin + propiconazole	Stratego	Bayer	Cat. B		2006 co-submission	
245														metconazole	V-10116	Valent	Cat. A			
246	Soybeans	Soybean cyst nematode					2													
247	Peas	Ascochyta					3													
248	Peas	Downy mildew	1				1	2						pyraclostrobin	Cabrio	BASF	URMULE		Headline Em. Reg. in ON for blight, 2004	
249														pyraclostrobin + boscalid	Pristine	BASF	URMULE		Headline Em. Reg. in ON for blight, 2005	
250														azoxystrobin + propiconazole	Quilt	Syngenta	Cat. B			
251														trifloxystrobin	Flint	Bayer	URMULE			
252														boscalid	Lance	BASF	URMULE			
253														fenamidone	Reason	Bayer	URMULE			
254	Peas	White mold						3						pyraclostrobin + boscalid	Pristine	BASF	URMULE			
255														azoxystrobin + propiconazole	Quilt	Syngenta	Cat. B			
256														trifloxystrobin	Flint	Bayer	URMULE			
257	Peas	Soybean rust					2							azoxystrobin	Quadris	Syngenta	URMULE			
258														azoxystrobin + propiconazole	Quilt	Syngenta	Cat. B			
259														propiconazole	Tilt	Syngenta	URMULE			
260														myclobutanil	Nova	Dow Agro	URMULE			
261														metconazole	V-10116	Valent	Cat. A			
262	Peas	Root rot	2																	
263	Peas	Fusarium wilt	3																	
264	Peas	Powdery mildew					4	1						pyraclostrobin + boscalid	Pristine	BASF	URMULE			
265														azoxystrobin + propiconazole	Quilt	Syngenta	Cat. B			

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
266														trifloxystrobin	Flint	Bayer	URMULE		
267	<b>Crop Group # 8 (Tomato, bell pepper, one cultivar of non-bell pepper)</b>																		
268	Eggplant	<i>Verticillium wilt</i>	1																
269	Eggplant	<i>Phytophthora</i>					1							dimethomorph	Acrobat	BASF	URMULE		
270														fenamidone	Reason	Bayer	URMULE		
271														famoxadone + cymoxanil	Tanos	DuPont	URMULE		
272	Pepper	<i>Phytophthora</i>	1				1							fenamidone	Reason	Bayer	URMULE	07623	New disease in zone 11
273														famoxadone + cymoxanil	Tanos	DuPont	URMULE	08372	
274														metalaxyl-m	Ridomil Gold	Syngenta	URMULE		
275	Pepper	<i>Sclerotinia</i>				1		2						<i>Coniothyrium minitans</i>	Contans WG	Encore Technologies	Cat. A		No company support
276														boscalid	Lance	BASF	URMULE		Higher rate needed 560-770 g/ha
277	Pepper	Bacterial disease					2	1						famoxadone + cymoxanil + copper	Tanos + Kocide 2000	DuPont	URMULE	08372	
278														copper	Kocide 2000	DuPont	URMULE		
279	Pepper	Anthracoese					3												Strobiluron alternative
280	Pepper	<i>Alternaria</i>					4												Strobiluron alternative
281	Pepper	Powdery mildew					5							potassium bicarbonae	MiStop	BioWorks	URMULE		Bridge from GH uses
282														sulfur	Microscopic sulfur	UAP	URMULE		Bridge from GH uses
283	Pepper, Greenhouse	<i>Fusarium root rot</i>	2	2			2							carbendazim	Eertavas	St. James Tree Service	URMULE		
284														polyoxin D	Endorse	Cleary	Cat. A		
285														hymexazol	Tachigaren	Sankyo Agro	URMUR		

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1	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
286														fludioxonil	Scholar	Syngenta	Pending URMUR		
287	Pepper, Greenhouse	Powdery mildew	1				3							potassium bicarbonate	MilStop	BioWorks	URMULE		
288														sulphur 99% vaporizing device	Microscopic sulfur	UAP	URMULE		
289														cyflufenamid	Pancho	Nisso America Inc.	Cat. A		
290														chitosan	Chitosan Plus	Vision Envirotech	Cat. A		
291														mepanipyrim	Frupica, Cockpit, Japica	Sipcam	Cat. A		
292														spiroxamine	Impulse, Prosper, Hogger	Bayer	URMUR		
293														triflumizole	Procure, Terrguard	Chemtura	Cat. A		
294														<i>Bacillus subtilis</i>	Serenade	AgraQuest	Cat. A		
295														Jobba Oil	Detur/E-rase	IJO Products	Cat. A		
296														<i>Pseudomonas chloroaphis</i> strain 63-28	AtEze	EcoSoil Systems	URMUR		
297														oil	Stylet Oil	JMS Farms	URMUR		
298														N/A	V10118	Valent	URMUR		
299														citrus oil	Prev AM	Oro-Agri	URMUR		
300														metrafenome	Flexity	BASF	URMUR		
301														silicate	Siliforce	N/A	URMUR		
302														dairy ingredients	Lacto-San	Lacto-Protech	URMUR		



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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
303														Reynoutria sachalinensis	Milsana	KHH BioScience	URMUR		
304	Pepper, Greenhouse	Pythium root rot	3				1							hydrogen peroxide	Oxidate	BioSafe Systems Inc.	URMULE		
305														Bacillus subtilis - strain QST 713	Serenade	AgraQuest	pending URMUR		
306														cyazofamid	Ranman	ISK	Cat. A		
307														flutolanil	Contrast	Nihon Nohwaku	URMUR		
308														Pseudomonas chloroaphis	AtEze	EcoSoil Systems	Cat. A		
309														dimethomorph	Acrobat	BASF	URMULE		
310														hymexazol	Tachigaren	Sankyo Agro	URMUR		
311														propamocarb	Previcur	Bayer	Cat. B		
312														fluazinam	Allegro	ISK	URMULE		
313														fluopicolide	V-10161	Valent	Cat. A or URMUR		
314	Pepper, Greenhouse	Fusarium inner rot	5	1															Becoming more of a problem; mostly managed by cultivar choice and climate
315	Pepper, Greenhouse	Bacterial diseases e.g. Erwinia					4												
316	Pepper, Greenhouse	Botrytis	4				5							pyrimethanil	Scala	Bayer	URMUR		
317														n/a	V-10135	Valent	Cat. A		
318														fenhexamid	Decree	Arysta	URMULE	2003-1347	Canadian residue trials outstandings. Need residue trials or rationale
319	Tomato, Field	Bacterial diseases					1	1						famoxadone + cymoxanil + copper	Tanos+Kocide	DuPont	URMULE		Tanos seems inconsistent and little convincing (QC field specialist). For GH transplants production

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
320														copper	Kocide 2000	DuPont	Pending bridging submission from 101		
321	Tomato, Field	<i>Botrytis</i>	1											fenhexamid	Elevate	Arysta	URMULE		
322	Tomato, Field	Early blight, Anthracnose, <i>Septoria</i>					2							pyraclostrobin + boscalid	Pristine	BASF	URMULE		
323	Tomato, Field	<i>Phytophthora capsici</i> (root rot)					3							dimethomorph	Acrobat	BASF	URMULE		
324														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
325	Tomato, Field	Anthracnose	3											famoxadone + cymoxanil	Tanos	DuPont	URMULE		
326	Tomato, Field	Early blight	4											pyraclostrobin + boscalid	Pristine	BASF	URMULE		
327	Tomato, Field	Late blight	5				4							pyraclostrobin + boscalid	Pristine	BASF	URMULE		
328														dimethomorph	Acrobat	BASF	URMULE		
329	Tomato, Field	<i>Sclerotinia</i>	2																
330	Tomato, greenhouse	<i>Botrytis</i>	1	1			2	1						fluazinam	Allegro	ISK	URMULE		Stem infection in pruning wounds
331														pyrimethanil	Scala	Bayer	Cat. A	08403	Pristine D3.1 2003-0175. Stem infection in pruning wounds
332														n/a	V-10135	Valent	Cat. A		
333														<i>Bacillus subtilis</i> - strain QST 713	Serenade	AgraQuest	URMUR		
334														<i>Gliocladium catenulatum</i>	Prestop	Kemira Agro	URMUR		
335														fenhexamid	Elevate	Arysta	URMULE		
336	Tomato, greenhouse	<i>Pythium</i> root rot	4	3			1							hydrogen peroxide	Oxidate	BioSafe Systems Inc.	URMULE		

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2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
337														<i>Bacillus subtilis</i> strain QST 713	Serenade	AgraQuest	Pending URMUR		
338														propamocarb	Previcur	Bayer	URMULE		
339														cyazofamid	Ranman	ISK	Cat. A		
340														flutolanil	Contrast	Nihon Nohwaku	URMUR		
341														<i>Pseudomonas chloroaphis</i>	AtEze	EcoSoil Systems	Cat. A	08228	Withdrawn in US
342														dimethomorph	Acrobat	BASF	URMULE		
343														hymexazol	Tachigaren	Sankyo Agro	URMUR		
344														propamocarb HCl	Previcur	Bayer	Cat B		
345														mefenoxam	Ridomil Gold	Syngenta	URMULE		
346														fluazinam	Allegro	ISK	URMULE		
347														fluopicolide	V-10161	Valent	Cat. A or URMUR		
348	Tomato, greenhouse	Powdery mildew	3	2			3	3						sulphur 99%, vaporizing device					
349														<i>Bacillus subtilis</i>	Serenade	AgraQuest	URMUR	08204	
350														Sodium tetraborohydrate decahydrate	Prev AM	Oro Agri	URMUR		
351														Lacto-fermented liquid fertiliser	Lacto-San	Lacto-Protech	Cat. A		
352														cyflufenamid	Pancho	Nisso America Inc.	Cat A		
353														<i>Pseudomonas chloroaphis</i> strain 63-28	Yield, Shield	AgraQuest	URMUR		
354														chitosan	Chitosan Plus	Vision Envirotech	URMUR		
355														n/a	KBV 99-01	Koppert	Cat. A		
356														n/a	V-10118	Valent	Cat. A or URMUR		
357														mepanipyrim	Frupica, Cockpit, Japica	Sipcam	Cat A		

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
358														spiroxamine	Impulse, Prosper, Hogger	Bayer	Cat A		
359														triflumizole	Procure, Terrguard	Crompton	Cat. A		
360														Jojoba Oil	Detur/E-rase	IJO Products	Cat A		
361														Stylet Oil	JMS Stylet Oil	JMS flower	URMUR		
362														metrafenome	Flexity	BASF	URMUR		
363														Silicate	Siliforce	N/A	URMUR		
364														dairy ingredients	Lacto-San	Lacto-Protech	URMUR		
365														<i>Reynoutria sacchalinensis</i>	Milsana	KHH Bio Sciences	URMUR		
366														Citrus oil	Prev AM	Oro-Agri	URMUR		
367	Tomato, greenhouse	Bacterial stem canker ( <i>Clavibacter michiganensis</i> )	2			4	2							copper	Phyton 27	Plant Products	URMULE		
368														physpe	Vacciplant	Agrimar	URMUR		
369														????	PWS (projects without solution)				Tanos support wuthdrawn in 2005
370	Tomato, greenhouse	Pepino mosaic virus	5			5													New more virulent strain, pre-dispose plants to other diseases
371	Tomato, greenhouse	<i>Fusarium</i>	6																
372	Tomato, greenhouse	<i>Verticillium</i>	7																
373	<b>Crop Group # 9 (Cucumber, muskmelon, summer squash)</b>																		
374	Cucumber, greenhouse	Powdery mildew	2	1		1	1							oil	JMS Stylet oil	JMS farms	Cat. A		AAFC projects underway; Pristine & Switch
375														<i>Bacillus subtilis</i> - strain QST 713	Serenade	AgraQuest	URMUR		Pristine D3.1 2004-2494 / Switch D3.1 2004-1655

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1	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
376														triflumizole	procure, Terrguard	Bayer	Cat. A		AAFC projects underway; Pristine & Switch
377														<i>Sodium Tetraborohydrate decahydrate</i>	Prev-AM	Oro Agri	URMUR		
378														Lacto-fermented liquid fertiliser	Lacto-San	Lacto Pro-Tech	Cat. A		
379														<i>Pseudomonas chloroaphis</i> - Strain 6328	AtEze	EcoSoil Systems	URMUR		
380														Oil	Stylet oil	EcoSoil Systems	URMUR		
381														cyflufenamid	Pancho	Nisso America Inc.	Cat. A		AAFC projects underway; Pristine & Switch
382														n/a	V-10118	Valent	Cat. A or URMUR		
383														citrus oil	Prev AM	Oro-Agri	URMUR		
384														metrafenome	Flexity	BASF	URMUR		
385														silicate	Siliforce	N/A	URMUR		
386														dairy ingredients	Lacto-San	Lacto-Protech	URMUR		
387														Reynoutria sachalinensis	Milsana	KHH BioScience	URMUR		
388														chitosan	Chitosan Plus	Vision Envirotech	Cat. A		AAFC projects underway; Pristine & Switch
389														mepanipyrim	Frupica, Cockpit, Japica	Sipcam	Cat. A		AAFC projects underway; Pristine & Switch
390														spiroxamine	Impulse, Prosper, Hogger	Bayer	URMUR		AAFC projects underway; Pristine & Switch

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2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
391														triflumizole	Procure, Terrguard	Crompton	Cat. A		
392														Jojoba Oil	Detur/E-rase	IJO Products	Cat. A		AAFC projects underway; Pristine & Switch
393	Cucumber, greenhouse	<i>Fusarium</i> crown and root rot	3	2			2							carbendazim	Eertavas	St. James Tree Service	URMULE		
394														polyoxin D	Endorse	Cleary	Cat. A		
395														fludioxonil	Scholar	Syngenta	pending URMUR		
396														hymexazol	Tachigaren	Sankyo Agro	URMUR		
397	Cucumber, greenhouse	<i>Botrytis</i>	5				4							fluopicolide	V-10161	Valent	Cat. A or URMUR		
398														n/a	V-10135	Valent	Cat. A		
399														pyrimethanil	Scala	Bayer	Cat. A		
400														<i>Bacillus subtilis</i> - strain QST 713	Serenade	AgraQuest	URMUR		
401														fenhexamid	Decree	Arysta	URMULE	2003-1345	residue trials required or rationale to accept EU data
402	Cucumber, greenhouse	Gummy stem blight	1	3			5	3						fenamidone	Reason	Bayer	URMULE		Need alternatives, Rovral not exportable
403														quaternary ammonium	Chemoprocide	Pace Chemical	URMUR		
404														famoxadone + cymoxanil	Tanos	DuPont	URMULE		Need alternatives, Rovral not exportable
405	Cucumber, greenhouse	<i>Pythium</i> root rot	4				3	2						hydrogen peroxide	Storox	BioSafe Systems Inc.	URMULE		
406														fluazinam	Allegro	ISK	URMULE		
407														cyazofamid	Ranman	ISK	Cat. A		

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
408														flutolanil	Contrast	Nihon Nohwaku	URMUR		
409														<i>Pseudomonas chloroaphis</i>	AtEze	EcoSoil Systems	URMUR		
410														dimethomorph	Acrobat	BASF	URMULE		
411														hymexazol	Tachigaren	Sankyo Agro	URMUR		
412														fluopicolide	V-10161	Valent	Cat. A or URMUR	09693	
413	Cucumber, GH transplants	Damping off						1						fosetyl-Al	Aliette	Bayer	URMULE		Apron XL SL vs Pythium in CG 9 (D3.1 2005-1234) need foliar treatment vs Pythium later in the season
414	Cucurbit crop group	Downy mildew					1							famoxadone + cymoxanil	Tanos	DuPont	URMULE	08306	
415														zoxamide + mancozeb	Gavel	Dow Agro	URMULE		
416	Cucurbit crop group	<i>Phytophthora capsici</i>	1				2							fenamidone	Reason	Bayer	URMULE	07628, 07629, 07630	new disease identified in zone 11
417														famoxadone + cymoxanil	Tanos	DuPont	URMULE		Priority A selected in 2005 for cucumber
418														metalaxyl-m	Ridomil Gold	Syngenta	URMULE		New disease in BC (zone 11) in 2004, not seen in 2005. In USA, crop rotation, water management are main methods for control + some fungicide use
419														fluazinam	Allegro	ISK	URMULE		IR-4 has a screening project
420	Cucurbit crop group	Anthracnose					4							fluazinam	Allegro	ISK	URMULE		

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
421														pyrimethanil	Scala	Bayer	URMULE		
422	Cucurbit crop group	Powdery mildew	1				3							pyraclostrobin + boscalid	Pristine	BASF	URMULE	08835	Cabrio is reg.
423														trifloxystrobin	Flint	Bayer	URMULE	07048	Cabrio is reg.
424														triflumizole	Procure	Chemtura	CAT. A	07958	Cabrio is reg.
425	Cucurbit crop group	Bacterial diseases					5					1		acibenzolar	Actigard	Syngenta	URMUR		
426														famoxadone + cymoxanil + copper	Tanos + Kocide 2000	DuPont	URMULE		
427	Cucurbit crop group	Scab					6												
428	Cucurbit crop group	<i>Alternaria</i>	2										2	pyraclostrobin	Cabrio	BASF	Registered		Cabrio is reg.
429																			Cabrio is reg.
430	Cucurbit crop group	Angular leaf spot (bacterial)	3																
431	Cucurbit crop group	<i>Cladosporium</i> scab	4																
432	Cucurbit crop group	<i>Fusarium</i> root rot, wilt-Seed treatment	5																
433	Cucurbit crop group	<i>Verticillium</i> wilt	6																
434	Cucurbit crop group	White mold	7				7							pyraclostrobin + boscalid	Pristine	BASF	URMULE		New disease identified in BC (zone 11) in 2004, not seen in 2005
435														fluazinam	Allegro	ISK	URMULE		
436	Squash	White mold ( <i>Sclerotinia sclerotiorum</i> )						1						<i>Coniothyrium minitans</i>	Contans WG	Encore Technologies	URMUR		
437														boscalid	lance	BASF	URMULE		Adding a pest to the label



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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
438	<b>Crop Group # 11 (Apple and pear)</b>																		
439	Pome fruit	Fire blight	2		1		1	1			2			fluazinam	Allegro	ISK	URMULE		
440														Pantoea agglomerans C91	Blightban C9-1	Nufarm	URMUR		
441														Pantoea agglomerans E 325	Bloomtime	NAP	URMUR		
442														famoxadone + cymoxanil	Tanis	DuPont	URMULE		
443														Bacillus subtilis	Serenade	AgraQuest	URMUR		
444														Acibenzolar	Actigard	Syngenta	URMUR		
445														Pseudomonas fluorescens	Blight Ban	Plant Health Tech.			
446														antibiotic-like product, not reg. in canada		Arysta			Mentioned in 2005 March meeting, trials in USA
447	Pome fruit	Post harvest diseases	1											pyrimethanil	Penbotec	Janssen	Cat. B		Scala labelled on apple at 14 day PHI
448														pyrimethanil	Scala	Bayer	URMULE		Reg. for Botrytis in East, but not in BC
449														fenhexamid	Elevate	Arysta	URMULE	2004-0475	Major data requirements, cattle feeding, efficacy residues and Occ. Exp
450														Pseudomonas syringae	Biosave	JET Harvest solutions	URMUR		
451														fludioxonil	Scholar	Syngenta	Pending URMUR		Calyx end rot in storage caused by Botrytis
452														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		Reg. in Canada in 2005 (not for this use)
453														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
454														diphenylamine	DPA thermo fogging	Pace	URMUR		
455	Pome fruit	Powdery mildew	3											quinoxifen	Quintec	Dow Agro	URMUR		

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1	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
456	Apple	Replant disease									1			dimethyl disulfide	DMDS	Atochem	URMUR		Replacement for Telone
457														muscodor albus	Arabesque	AgraQuest	URMUR		Replacement for Telone
458														iodomethane		Arysta	URMUR		Replacement for Telone
459														sodium tetrathiocarbonate	Enzone	Entek Corp. Helena	URMUR		Replacement for Telone
460	Apple	Post harvest diseases					2							pyrimethanil	Penbotec	Janssen	Cat. B		Scala labelled on apple at 14 day PHI
461														trifloxystrobin	Flint	Bayer	URMULE		
462														triflumizole	Procure	Crompton	Cat. A		
463	Apple	Black rot					4							thiophanate-methyl	Senator	Engage Agro	URMULE		
464	Apple	Frogeye spot									2			?					
465	Apple	Apple scab and cankers					3	2			1			copper hydroxide	Kocide	DuPont	URMULE		
466	Apple	Powdery mildew	3								4			<i>Bacillus subtilis</i>	Serenade	AgraQuest	URMUR		
467	Apple	<i>Gleosporium</i>									3			cyprodinil	Vanguard	Syngenta	URMULE		
468	Apple	Replant disease									1			<i>Muscodor albus</i>	Andante	AgraQuest	URMUR		
469	Pear	Sooty blotch					3					4		trifloxystrobin	Flint	Bayer	URMULE		
470														myclobutanil	Nova	Dow Agro	URMULE		
471	Pear	Powdery Mildew	3									3		myclobutanil	Nova	Dow Agro	URMULE		
472														fluazonil	Nustar	DuPont	URMULE		
473	Pear	Rust										2		myclobutanil	Nova	Dow Agro	URMULE		
474	Pear	Fireblight					1							Pantoea agglomerans C9-1	Blight Ban	Nufarm	URMUR		
475														<i>Pseudomonas fluorescens</i>	Blightban A506	Nufarm	URMUR		

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
476	Pear	Scab					2							myclobutanil	Nova	Dow Agro	URMULE	2003-0247	AAFC 2005
477	<b>Crop Group # 12 (Sweet or tart cherry, peach, plum or prune)</b>																		
478	Stone Fruit group	Post harvest rots including brown rot	1											fludioxonil	Scholar	Syngenta	Pending URMUR		
479														tebuconazole	Folicur	Bayer	URMULE		Pre harvest
480														tebuconazole	Elite	Bayer	URMULE		Pre harvest
481														fenhexamid	Elevate	Arysta	URMULE		Registered pre harvest for brown rot
482														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
483	Stone Fruit group	Powdery Mildew	2											pyraclostrobin + boscalid	Pristine	BASF	URMULE		
484														trifloxystrobin	Flint	Bayer	URMULE		Reg. on pome fruits
485	Stone Fruit group	Bacterial Canker	3											copper hydroxide	Kocide	Griffin	URMULE		
486														famoxadone + cymoxanil	Tanos	DuPont	URMULE		
487	Apricot, Plum	Powdery Mildew	x											myclobutanil	Nova	Dow Agro	URMULE		
488	Cherries	<i>Botrytis</i>	1											fenhexamid	Elevate	Arysta	URMULE		Reg. for Monilia (brown rot)
489														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
490														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		Phyto to cherries?
491	Cherries	Post harvest rots including brown rot	3											fludioxonil	Scholar	Syngenta	Pending URMUR		Post harvest
492														tebuconazole	Folicur	Bayer	URMULE		Preharvest
493														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
494	Cherries	Powdery mildew	2											trifloxystrobin	Flint	Bayer	URMULE		Reg on pome fruit and grapes; Bayer is pursuing?
495														potassium bicarbonate	MilStop	BioWorks	URMULE		registered on grapes
496														quinoxifen	Quintec	Dow Agro	URMUR		Dow has no plans to bring to Canada at this time
497														Summer oil	Petro Oil Superior oil				Peter Scholberg AAFC has done trials
498	Cherries	Bacterial Canker	4											copper hydroxide	Kocide	Griffin	URMULE		BC submission Jan 2006
499														famoxadone + cymoxanil	Tanos	DuPont	URMULE		
500	Sour cherry	Powdery mildew				1								tebuconazole	Folicur	Bayer	Pending Cat. A on wheat		
501	Cherry & Peach	Bacterial spot				2													
502	Chokecherry	Brown rot			2									myclobutanil	Nova	Dow Agro	URMULE		
503														propiconazole	Topas	Syngenta	URMULE		
504	Chokecherry	Black knot			1									fenbuconazole	Indar	DowAgro	URMULE		
505														chlorothalonil	Bravo	Syngenta	URMULE		No new uses
506	<b>Crop Group # 13 (Any blackberry or any raspberry, blueberry)</b>																		
507	Highbush blueberry	Root rot	1											fosetyl-al	Aliette	Bayer	URMULE		
508	Highbush blueberry	<i>Fusicoccum</i> (Godronia canker) <i>Fusicoccum putrefaciens</i>					1							pyraclostrobin + boscalid	Pristine	BASF	URMULE		
509														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
510														pyraclostrobin	Cabrio	BASF	URMULE		Adding a pest to the label

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
511														<i>Bacillus pumilus</i>	Sonata	AgraQuest	URMUR	08769	
512														famoxadone + cymoxanil	Tanos	DuPont	URMULE	08769	
513	Blueberry (Lowbush)	Monilinia blight												pyraclostrobin + boscalid	Pristine	BASF	URMULE		Reg. in US on highbush for <i>Botrytis</i>
514														fluazinam	Allegro	ISK	URMULE		
515	Blueberry (Lowbush)	Leaf diseases									1	1		pyraclostrobin + boscalid	Pristine	BASF	URMULE		
516														azoxystrobin	Quadris	Syngenta	URMULE		
517														Sulfur	Kumulus	BASF	URMULE		IR-4 for mummy berry on highbush
518														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
519	Blueberry (Lowbush)	Botrytis											2	cyprodinil + fludioxonil	Switch	Syngenta	URMULE	06724	
520														iprodione	Rovral	Bayer	URMULE	03433	Botrytis & other disease on highbush in US
521	Bushberry subgroup	Phytophthora root rot	1										1	fosetyl-Al	Aliette	Bayer	URMULE		Need ridomil alternative; would this control root rots?
522														fenamidone	Reason	Bayer			Need ridomil alternative
523	Bushberry subgroup	Mummy berry	3											thiophanate-methyl	Senator	Engage Agro	URMULE		Main product used is in short supply & old need alts.
524														tebuconazole	Indar	Dow Agro	URMULE		Main product used is in short supply & old need alts.
525														<i>Bacillus subtilis</i>	Serenade	AgraQuest	URMUR		
526	Bushberry subgroup	Bacterial blight ( <i>Pseudomonas</i> )	2											<i>Bacillus subtilis</i>	Serenade	AgraQuest	URMUR		

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2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
527	Bushberry subgroup	<i>Fusicoccum</i> (Godronia canker)	5				3							pyraclostrobin + boscalid	Pristine	BASF	URMULE		Need screening ;No product reg.
528														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		Need screening ;No product reg.
529	Bushberry subgroup	Fruit rot- Anthracnose/ <i>Botrytis</i>	4				1							cyprodinil + fludioxonil	Switch	Syngenta	URMULE	06724	
530														<i>Pseudomonas fluorescens</i>	BlightBan C91	Plant Health Technologies	PHULDU		BC research indicates biofungicides can manage anthracnose
531														Other biofungicides					BC research indicates biofungicides can manage anthracnose
532	Bushberry subgroup	Blister rust and mildew of currant					2							cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
533														myclobutanil	Nova	Dow Agro	URMULE		
534														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
535	Bushberry subgroup	<i>Fusicoccum</i>					3							pyraclostrobin + boscalid	Pristine	BASF	URMULE		
536	Bushberry subgroup	<i>Botrytis</i>					4							cyprodinil + fludioxonil	Switch	Syngenta	URMULE		Conditionnalyy labelled
537	Bushberry subgroup	<i>Alternaria</i>					5							fenamidone	Reason	Bayer	URMULE	08163	
538														pyrimethanil	Scala	Bayer	Cat. A	07949	
539	Gooseberries	Powdery mildew	1								1			propiconazole	Topas	Engage Agro	URMULE		AAFC 2005-1021 Pristine, & AAFC 2003-0106 Nova on CG 13 for P. mildew
540														myclobutanil	Nova	Dow Agro	URMULE		Priority A selected in 2005
541	Gooseberries	White pine blister rust/Septoria leaf spot									2			propiconazole	Topas	Engage Agro	URMULE		
542	Gooseberries	Anthracnose, rust									3			pyraclostrobin	Cabrio	BASF	URMULE		
543	Currants	Powdery mildew									1			myclobutanil	Nova	Dow Agro	URMULE		

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
544	Currants	White pine blister rust/ <i>Septoria</i> leaf spot									2				propiconazole	Topas	Engage Agro	URMULE	
545	Currants	Anthracoese, rust	2								3			propiconazole	Topas	Engage Agro	URMULE		
546														myclobutanil	Nova	Dow Agro	URMULE		AAFC 2003-0106 for P. mildew only. Please collect data on rust when running these trials
547														pyraclostrobin	Cabrio	BASF	URMULE		
548	Caneberry subgroup	Cane blight					2					2		cyprodinil + fludioxonil	Switch	Syngenta	URMULE	06838, 06839	
549	Caneberry subgroup	Spur blight, anthracnose, cane diseases	2				1			1	1			cyprodinil + fludioxonil	Switch	Syngenta	URMULE		Reg. for Botrytis in berries, trials show efficacy on cane diseases
550														pyrimethanil	Scala	Bayer	Cat. A		Reg. on apples for Scab and Botrytis. No US tolerance yet.
551														pyraclostrobin	Cabrio	BASF	URMULE		
552														pyraclostrobin + boscalid	Pristine	BASF	URMULE	07930	expected reg. on berries group for Botrytis
553														famoxadone + cymoxanil	Tanos	DuPont	URMULE		
554														propiconazole	Topas	Engage Agro	URMULE		
555	Caneberry subgroup	<i>Botrytis</i>	4				3			2	3			cyprodinil + fludioxonil	Switch	Syngenta	URMULE	06838, 06839	Conditionally labeled
556														pyrimethanil	Scala	Bayer	Cat. A		
557														fenhexamid	Elevate	Arysta	Registered		
558														propiconazole	Topas	Engage Agro	URMULE		
559	Caneberry subgroup	Late leaf Rust	3				4	1		3	4			propiconazole	Topas	Engage Agro	URMULE		Yellow rust registered
560														pyraclostrobin + boscalid	Pristine	BASF	URMULE		

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
561														myclobutanil	Nova	Dow Agro	URMULE		
562	Caneberry subgroup	Nematodes					5							fosthiazate	Nemathorin	Syngenta/ISK	URMUR	09644	
563	Caneberry subgroup	Phytophthora root rot	1											fluazinam	Allegro	Syngenta	URMULE		Need Ridomil alternative
564														metalaxyl-m	Ridomil Gold	Syngenta	URMULE		More efficient application method (Ridomil already reg. as a drench, through drip irrigation)
565														fenamidone	Reason	Bayer	URMULE		Need Ridomil alternative
566	Caneberry subgroup	Powdery mildew								2				myclobutanil	Nova	Dow Agro	URMULE		
567														propiconazole	Topas	Engage Agro	URMULE		
568	Saskatoon berry	Entomosporium leaf spot & saskatoon juniper rust		1	1		1	1						propiconazole	Topas	Engage Agro	URMULE		Amend PHI to 3 days
569														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
570														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
571														pyraclostrobin + boscalid	Pristine	BASF	URMULE		Current URMULE is for gymnosporangium
572	Saskatoon berry	Cytospora dieback & canker			3									propiconazole	Topas	Engage Agro	URMULE		
573														chlorothalonil	Bravo	Syngenta	URMULE		No new uses
574	Saskatoon berry	Brown rot		3	4									propiconazole	Topas	Engage Agro	URMULE		
575	Saskatoon berry	Fire blight		2	2	1								copper oxychloride	Copper Spray	UAP	URMULE		
576														Pseudomonas fluorescens	BlightBan C91	Plant Health Technologies	URMUR		
577														Bacillus subtilis QST 713	Serenade	AgraQuest	URMUR		Can be used in organic systems as well
578	Not included in crop group																		



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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
579	Strawberry	Anthracoese		1		1	1				1		2		cyprodinil + fludioxonil	Switch	Syngenta	URMULE	06790	
580															pyraclostrobin + boscalid	Pristine	BASF	URMULE	07929	
581															pyraclostrobin	Cabrio	BASF	URMULE		
582															Bacillus subtilis	Serenade	AgraQuest	URMUR		
583	Strawberry	Phytophthora root rot (red stele)	1												fluazinam	Allegro	ISK	URMULE		
584															fenamidone	Reason	Bayer	URMULE		
585	Strawberry	Botrytis fruit rot		1		1	4				2	3	1		cyprodinil + fludioxonil	Switch	Syngenta	URMULE	06790	eff. data may still be required
586															Trichoderma harzianum	Rootshield	Plant Products	URMULE		
587															Bacillus subtilis	Serenade	AgraQuest	URMUR		
588	Strawberry	Powdery Mildew	2	1		1	2	1			1	4	3		pyraclostrobin + boscalid	pristine	BASF	URMULE	06790	
589															myclobutanil	Nova	Dow Agro	URMULE	04015 + 2002-0237	5B residue required
590															triflumizole	Procure	Crompton	Cat. A		Nova approved fall 2005
591															quinoxifen	Quintec	Dow Agro	URMUR	08382 B	New chemistry/ Eff. Data from Ir-4
592															Sodium Tetraborohydrate Decahydrate	Prev AM	Oro Agri	URMUR		
593															n/a	V-10118	Valent	Cat. A or URMUR	09188	
594															pyrimethanil	Scala	Bayer	Cat. A		
595															Bacillus subtilis	Serenade	AgraQuest	URMUR		Can be used in organic systems as well
596															cyprodinil + fludioxonil	Switch	Syngenta	URMULE	06790	
597	Strawberry	Leaf scorch, leaf spot, Phomopsis					3	2			3	1	4		pyraclostrobin + boscalid	Pristine	BASF	URMULE	07929	

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
598														propiconazole	Topas	Syngenta	URMULE		
599														pyraclostrobin	Cabrio	BASF	URMULE		
600														hydrogen peroxide	Storox	BioSafe Systems Inc.	URMULE		
601	Strawberry	Nematodes				5					1			fosthiazate	nemathorin	Syngenta/ISK	URMUR	08966	
602														idomethane	Midas	Arysta	URMUR		
603	Strawberry	Leather rot									2								
604	Strawberry - Nursery stock	Phytophthora root rot									2			idomethane	Midas	Arysta	URMUR		
605	Strawberry - Nursery stock	Verticillium								1				idomethane	Midas	Arysta	URMUR		Replacement of telone
606	Cranberry	Upright die-back (phomopsis vaccinii)	1											pyraclostrobin + boscalid	Pristine	BASF	URMULE		Need Bravo alternatives
607														cyprodinil	Vanguard	Syngenta	URMULE		Need Bravo alternatives
608	Cranberry	Fruit rot									1			copper hydroxide	Kocide	Griffin	URMULE		
609														azoxystrobin	Quadris	Syngenta	URMULE		
610	Cranberry	Phytophthora root rot							1		2			metalaxyl-m	Ridomil Gold	Syngenta	URMULE		
611														fosetyl-al	Alliette	Bayer	URMULE		
612	Grapes	Powdery mildew	2			1								hydrogen peroxide	Storox	BioSafe Systems Inc. Systems Inc.	URMULE		
613														Bacillus subtilis	Serenade	AgraQuest	URMUR		
614														potassium silicate	Kasil / AgSil	National Silicates / PQ Corp.	Cat. A		
615														monopotassium phosphate	Nutrol	Lido Chemical	Cat. A		
616														tea tree oil	Timor	Biomor	URMUR		
617														citrus oil	Prev Am	Oro-Agri	URMUR		

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
618														potassium bicarbonate	Armcarb/ Kaligreen/ Milstop (US)	Helena Chemical / Monterey AgResources / Bioworks	Cat. A		D.3.2 categorie
619														foliar oil sprays, mineral oil	Superior 70 oil	UAP	URMULE		
620														foliar oil sprays, mineral oil	Petro Canada oil	Petro canada	URMULE		
621	Grapes	Botrytis	3			4								boscalid + pyraclostrobin	Pristine	BASF	URMULE		
622														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
623														hydrogen peroxide	Storox	BioSafe Systems Inc. Systems Inc.	URMULE		
624	Grapes	Downy mildew				2	2							pyraclostrobin + boscalid	Pristine	BASF	URMULE		
625														<i>Bacillus pumilus</i>	Sonta	AgraQuest	URMUR	08772	
626														phosphorus acid	Prophyte, Agriphos, Uptake Plus	Fluence / Agrichem OMEX	Cat. A		
627														metalaxyl + mancozeb	Ridomil Gold MZ	Syngenta	URMULE		Need expansion of label to full season for wine grapes
628														dimethomorph	Acrobat	BASF	URMULE		
629														fenamidone	Reason	Bayer	URMULE		
630														tea tree oil	Timor	Biomor	URMUR		
631														Sodium Tetraborohydrate Decahydrate	Prev AM	Oro Agri	URMUR		

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
632	Grapes	Sour rot ( <i>Acetobacter</i> , <i>Penicillium</i> , <i>Aspergillus</i> spp)	1				3							boscalid + pyraclostrobin	Pristine	BASF	URMULE		Pristine for <i>Penicillium</i> and/or <i>Aspergillus</i> only
633																			Need a better understanding of disease
634	Grapes	Anthracnose ( <i>Elsinoe ampelina</i> )						1						myclobutanil	Nova	Dow Agro	URMULE		Adding a pest to the label
635														pyraclostrobin + boscalid	Pristine	BASF	URMULE		Will Pristine label includes Anthracnose ?
636	Grapes	Black rot ( <i>Phomopsis</i> )	5				3												New emerging disease
637	Grapes	Crown gall	4							1				<i>Agrobacterium fadiobacter</i>	Dygall	AgBioresearch Ltd.	URMULE		
638	<b>Crop Group # 14 (Almond and pecan)</b>																		
639	Hazelnuts	Eastern filbert blight	1				1							trifloxystrobin	Flint	Bayer	URMULE		Good efficacy at low rate in Oregon
640														propiconazole	Topas	Engage Agro	URMULE		Not registered on bearing trees in the USA
641														chlorothalonil	Bravo	Syngenta	URMULE		No new uses
642	<b>Crop Group # 15 (Corn (fresh sweet, dried field), barley, wheat)</b>																		
643	Corn, Field	Leaf diseases (including gray leaf spot)					2							propiconazole	Tilt	Syngenta	URMULE		
644	Corn, Field	Northern corn leaf blight					1							azoxystrobin	Quadris	Syngenta	URMULE		Labeled for rust only
645	Seed Corn	Northern corn leaf blight					1							azoxystrobin	Quadris	Syngenta	URMULE		Labeled for rust only
646	Sweet corn	Damping off	1																
647	Sweet corn	Head smut	2																
648	Sweet corn	Common smut	3																
649	Sweet corn	Rust					1							tebuconazole	Folicur	Bayer	URMULE		

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1	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other	
2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
650	Sweet corn	Northern corn leaf blight					2								azoxystrobin	Quadris	Syngenta	URMULE		Labeled for rust only
651	Winter Wheat	<i>Fusarium</i>					1											major use if all Canada		Alternative to tebuconazole needed
652	Sorghum, Millet	<i>Pythium</i> seed rots					1								metalaxyl-m	Allegiance	Bayer	URMULE		
653														metalaxyl-m	Apron	Syngenta	URMULE			
654	<b>Crop Group # 17 (Bernuda grass, bluegrass, bromegrass or fescue)</b>																			
655	Creeping red fescue - seed production	Stem / leaf spot complex			1										pyraclostrobin	Headline	BASF	URMULE		
656														mancozeb	various	various	URMULE		No new uses	
657														propiconazole	Tilt	Syngenta	URMULE			
658														propiconazole / trifloxystrobin	Stratego	Bayer	URMULE			
659	Perennial ryegrass, annual ryegrass, tall fescue, thymothy - seed production	Stem / leaf spot complex			1									propiconazole	Tilt	Syngenta	URMULE			
660														pyraclostrobin	Headline	BASF	URMULE			
661														mancozeb	various	various	URMULE			
662														propiconazole / trifloxystrobin	Stratego	Bayer	URMULE			
663	Timothy - hay production	Stem / leaf spot complex			2									propiconazole / trifloxystrobin	Stratego	Bayer	URMULE			
664	Timothy - hay production	Brown leaf		1	1									mancozeb	various	various	URMULE			
665														propiconazole	Tilt	Syngenta	URMULE			
666														pyraclostrobin	Headline	BASF	URMULE			
667	<b>Crop Group # 18 (alfalfa, clover)</b>																			
668	Alfalfa for seed	Alfalfa blossom blight ( <i>Sclerotinia</i> )			1	1								iprodione	Rovral Flo	Bayer	URMULE			

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
669	<b>Crop Group # 19 (Basil (fresh and dried), black pepper, chive, celery seed or dill seed)</b>																		
670	Culinary herb group	Bacterial blights on cilantro and parsley				1								famoxadone + cymoxanil + copper	Tanos + Kocide	DuPont	URMULE		
671	Culinary herb group	Fungal blights on cilantro and parsley				2								famoxadone + cymoxanil	Tanos	DuPont	URMULE		
672	Culinary herb group	Powdery mildew				3								Bacillus subtilis	Serenade	AgraQuest	Cat. A		
673														potassium bicarbonate	MiStop	BioWorks	URMULE		
674	Culinary herb group	<i>Pythium</i>				4													Apron ST not supported by registrant
675	Culinary herb group	Downy mildew				5								famoxadone + cymoxanil	Tanos	DuPont	URMULE		
676	Caraway	Blossom blight		1	1									boscalid	Lance	BASF	URMULE		
677														pyraclostrobin	Headline	BASF	URMULE		
678	Coriander	Blossom blight		1	1									boscalid	LAnce	BASF	URMULE		
679														pyraclostrobin	Cabrio	BASF	URMULE		
680	Coriander	Leaf blights					1							azoxystrobin	Quadris	BASF	URMULE		
681	Cumin	Blossom blight			1									boscalid	Lance	BASF	URMULE		
682														pyraclostrobin	Headline	BASF	URMULE		
683	Cumin	Seedling blight			2									fludioxonil + metalaxyl	Apron Maxx	Syngenta	URMULE		
684														carbathiin + thiram	Vitaflo 280	Bayer	URMULE		
685														carbathiin + thiabendazole	Crown	Bayer	URMULE		
686	Basil	Rust					2							myclobutanil	Nova	DowAgro	URMULE		
687														azoxystrobin	Quadris	Syngenta	URMULE		

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other	
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
688	Basil & Salvia	<i>Pythium</i> and <i>Fusarium oxysporum</i>						1							fludioxonil + metalaxyl	Maxim	Syngenta	URMULE		
689	Dill	<i>Phoma</i> blight		1	1										azoxystrobin	Quadris	Syngenta	URMULE		
690															pyraclostrobin	Headline	BASF	URMULE		
691	<b>Crop Group # 20 (Rape seed, sunflower)</b>																			
692	Yellow mustard seed	White mold					1								boscalid	Lance	BASF	URMULE	2004-0519	
693	Sunflower	Rust		1		1									tebuconazole	Folicur	Bayer	URMULE		
694															pyraclostrobin	Headline	BASF	URMULE		
695	Sunflower	Downy mildew		2		2									azoxystrobin	Quadris	Syngenta	URMULE		Pre-treated seeds imported from US
696	Sunflower	<i>Sclerotinia</i> head rot		3		3									<i>Coniothyrium minitans</i>	Contans WG	Sylvan Bioproducts Inc.	URMUR		
697	<b>Not included in crop group</b>																			
698	Asparagus	Viral disease	2																	Vector control or seed or crown treatment
699	Asparagus	Purple spot	3			1									trifloxystrobin	Flint	Bayer	URMULE	08212	
700															pyraclostrobin	Cabrio	BASF	URMULE	08157	
701																				Quadris just reg. Not a common disease in BC
702	Asparagus	<i>Fusarium</i>	1					1							fludioxonil	Scholar	Syngenta	URMUR	07257	Need screening

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
703	Mushrooms	Green mould ( <i>Trichoderma aggressivum</i> f. <i>aggressivum</i> syn. <i>T. harzianum</i> biotype Th4)	1	1			1				1			thiophanate-methyl	Senator	Engage Agro	URMULE	08289; IR-4 is pursuing imazalil	EU: 2004-2006; national emergency reg. Few alternatives
704														prochloraz	Sporgon	Sylvan (EU)	Cat. A		
705	Mushrooms	Dry Bubble ( <i>Verticillium fungicola</i> )	2				2					1		thiabendazole	Mertec	Syngenta	URMULE		
706														thiophanate-methyl	Senator	Engage Agro	URMULE	08289	Casing drench
707														prochloraz	Sporgon	Sylvan (EU)	Cat. A	08824	
708	Mushrooms	<i>Trichoderma</i> spp., <i>Cladobotryum dendroides</i> , <i>Mycogone pemiciosa</i> , <i>Verticillium fungicola</i>	3				3			1	2			thiophanate-methyl	Senator	Engage Agro	URMULE	08289	Under reevaluation
709														thiabendazole	Mertec	Engage Agro	URMULE		
710	Ornamentals, greenhouse	Bacterial diseases ( <i>Xanthomonas</i> & <i>Erwinia</i> sp.)						3						quaternary ammonium	Chemoprocide	Pace Chemical	URMUR		
711	Ornamentals, greenhouse	Powdery mildew	4				1	1						azoxystrobin	Heritage	Syngenta	URMULE	2003-0352	OE data requirement
712														<i>Bacillus subtilis</i>	Rhapsody	AgraQuest	URMUR		Pristine D3.1 2004-2334
713														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
714														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
715														Extract of <i>Chenopodium ambrosoides</i>	Facin	Codena	Cat. A		
716														triadimefon	Strike	Olympic	cat. A		



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2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL								
717	Ornamentals, greenhouse	<i>Fusarium</i>					2	3							cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
718														<i>Gliocladium catenulatum</i>	Prestop	Verdera Oy	Cat. A			
719	Ornamentals, greenhouse	Downy mildew	2				3							propamocarb	Previcur	Bayer	URMULE	2000-1835	(OE data requirement) Priority A selected in 2005	
720														azoxystrobin	Heritage	Syngenta	URMULE	2003-0352	OE data requirement	
721														trifloxystrobin	Flint	Bayer	URMULE			
722														pyraclostrobin + boscalid	Pristine	BASF	URMULE			
723														dimethomorph	Acrobat	BASF	URMULE		Priority A selected in 2005	
724														cyazofamid	Ranman	ISK	Cat A			
725														fenamidone	Reason	Bayer	URMULE			
726	Ornamentals, greenhouse	<i>Botrytis</i>	5					2						<i>Bacillus subtilis</i>	Rhapsody	AgraQuest	URMUR			
727														fludioxonil	Medallion	Syngenta	URMUR			
728																				Always can use more rotational products
729	Ornamentals, greenhouse	Root rots (incl. <i>Rhizoctonia</i> and <i>Pythium</i> )	1				4	3						propamocarb	Previcur	Bayer	URMULE	2000-1835	OE data requirement	
730														<i>Gliocladium catenulatum</i>	PreStop	Verdera Oy	Cat. A			
731														fludioxonil	Medallion	Syngenta	URMUR			
732														flutolanil	Contrast	Bayer	URMUR			
733														dimethomorph	Acrobat	BASF	URMULE	2003-0352	OE requirements	
734														<i>Bacillus subtilis</i>	Rhapsody	AgraQuest	URMUR			
735														cyazofamid	Ranman	ISK	Cat A			
736														fenamidone	Reason	Bayer	URMULE			
737														hydrogen peroxide	Oxidate	BioSafe Systems Inc.	URMULE			

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2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
738	Ornamentals, greenhouse	Fungal leaf spots					5								trifloxystrobin	Compass	Bayer	URMULE	
739														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
740														cyprodinil + fludioxonil	Switch	Syngenta	URMULE		
741														<i>Bacillus subtilis</i>	Rhapsody	AgraQuest	Cat. A		
742	Ornamentals, greenhouse	Rust	3											azoxystrobin	Heritage	Syngenta	URMULE		
743														flutolanil	Contrast	Nihon Nohwaku	URMUR		
744														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
745	Turf (golf course)	Take-all patch					1							myclobutanil	Eagle	Dow Agro	URMULE		
746														azoxystrobin	Heritage	Syngenta	URMULE		
747														propiconazole	Banner Maxx	Syngenta	URMULE		
748	Turf (golf course)	Bentgrass dead spot					2							myclobutanil	Eagle	DowAgro	URMULE		
749														boscalid	Cadence	BASF	URMULE		
750														thiophanate-methyl	Senator	Engage Agro	URMULE		
751	Turf (golf course)	Gray leaf spot					3							trifloxystrobin	Flint	Bayer	URMULE		
752														propiconazole	Banner Maxx	Syngenta	URMULE		
753														azoxystrobin	Heritage	Syngenta	URMULE		
754	Turf (home lawn, sod and golf course)	Necrotic ring spot	4											trifloxystrobin	Compass	Bayer	URMULE		
755														myclobutanil	Eagle	Dow Agro	URMULE	Eagle reg. on other turf diseases	
756	Turf	Downy mildew	1											metalaxyl-m	Subdue Maxx	Syngenta	URMULE		
757	Turf	Take-all patch	2											azoxystrobin	Heritage	Syngenta	URMULE		
758														propiconazole	Banner MAXX	Syngenta	URMULE		

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
759	Turf	<i>Rhizoctonia zeae</i>	3											flutolanil	Prostar	Bayer	URMUR		
760	Ornamentals, outdoor (conifers)	needle cast				1		1						mancozeb	various	various	URMULE		Reg. on D. fir, cedar, juniper only
761														chlorothalonil	Bravo	Syngenta	URMULE		Reg. on D. fir only
762														copper	various	various	URMULE		Reg. on Spruce only
763	Ornamentals, outdoor (field and container)	<i>Phytophthora ramorum</i>	1				1	1						fosetyl-al	Aliette	Bayer	URMULE		Quarantine pathogen in Canada
764														dimethomorph	Acrobat	BASF	URMULE		
765														metalaxyl-m	Subdue MAXX	Syngenta	URMULE		Emergency reg. in BC in 2005/06
766														famoxadone + cymoxanil	Tanos	DuPont	URMULE		
767														fenamidone	Reason	Bayer	URMULE		
768														propamocarb	Previcur	Bayer	URMULE		Will Bayer be pursuing ornamentals in canada
769														zoxamide	Gavel	Dow Agro	URMULE		
770	Ornamentals, outdoor (field and container)	Anthracoze on <i>Euonymus, Acer, Fraxinus, Quercus</i>	5				2							pyraclostrobin + boscalid	Pristine	BASF	URMULE		No reg. product; increasing in B.C.
771														azoxystrobin	Heritage	Syngenta	URMULE		
772														thiophanate-methyl	Senator	Engage Agro	URMULE		
773														chlorothalonil	Daconil	Syngenta	URMULE		

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			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
774	Ornamentals, outdoor (field and container)	Bacterial Blight ( <i>Pseudomonas syringae</i> ) and Fireblight ( <i>Erwinia amylovora</i> ) on pome fruit trees, <i>Cotoneaster</i> , <i>Sorbus</i> )	3					5						acibenzolar	Actigard	Syngenta	Cat. A		
775														prohexidione Calcium	Apogee	BASF	Pending URMUR		Reg. on pome fruits for fireblight
776														<i>Bacillus subtilis</i>	Rhapsody	AgraQuest	URMUR		
777														copper	Phyton 27	Source Tech Biologicals	URMULE		
778	Ornamentals, outdoor (field and container)	<i>Gymnosporangium</i> rust	6				3	3						propiconazole	Banner Maxx	Syngenta	URMULE		
779														azoxystrobin	Heritage	Syngenta	URMULE		Pristine D3.1 2004-2334
780														tebuconazole	Folicur	Bayer	Cat. A		Pristine D3.1 2004-2335
781	Ornamentals, outdoor (field and container)	Powdery mildew	4				4	2						pyraclostrobin	Insignia	BASF	URMULE		
782														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
783														cyprodinil	Vanguard	Syngenta	URMULE		
784														azoxystrobin	Heritage	Syngenta	URMULE		
785														trifloxystrobin	Compass	Bayer	URMULE		
786														propiconazole	Banner Maxx	Syngenta	URMULE		
787														myclobutanil	Nova	DowAgro	URMULE		

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
788														potassium bicarbonate	Milstop	Bioworks	URMULE		
789														<i>Bacillus subtilis</i>	Senator	AgraQuest	URMUR		
790														tebuconazole	Folicur	Bayer	Cat. A		
791														fenbuconazole	Indar	Dow Agro	URMULE		
792	Ornamentals, outdoor (field and container)	Downy mildew (on <i>Cornus</i> , <i>Prunus</i> , <i>Rosa</i> , <i>Viburnum</i> )	2					4						famoxadone + cymoxanil	Tanos	DuPont	URMULE		
793														dimethomorph	Stature	BASF	URMULE		Priority A selected in 2005
794														fenamidone	reason	Bayer	URMULE		
795														zoxamide	Gavel	Dow Agro	URMULE		
796														pyraclostrobin + boscalid	Pristine	BASF	URMULE		
797														metalaxyl-m	Subdue MAXX	Syngenta	URMULE		
798	Ornamentals, outdoor (field)	Apple scab					5							propiconazole	Banner Maxx	Syngenta	URMULE		
799	Hybrid poplar	Rust						1						tebuconazole	Folicur	Bayer	Cat. A		forestry request
800	Jack pine & spruce	Dwarf mistletoe				1								MSMA replacement					forestry request
801	Hemp	White mold					1							boscalid	Lance	BASF	URMULE		
802	Hemp	<i>Botrytis</i> head blight					2							boscalid	Lance	BASF	URMULE		
803	Tobacco	<i>Rhizoctonia</i> (Damping-off and Target Spot)					1							azoxystrobin	Quadris	Syngenta	URMULE	08118	GH transplant use

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
804														trifloxystrobin	Flint	Bayer	URMUR		GH transplant use
805														pyraclostrobin	Cabrio	BASF	URMULE	08117	GH transplant use
806														thiophanate-methyl	Senator	Engage Agro	URMULE		GH transplant use
807														<i>Trichoderma harzianum</i>	Rootshield	Plant Products	URMULE		GH transplant use
808														pyraclostrobin + boscalid	Pristine	BASF	URMULE		GH transplant use
809														boscalid	Lance	BASF	URMULE		GH transplant use
810	Tobacco	Blue Mold					2							azoxystrobin	Quadris	Syngenta	URMULE		
811														dimethomorph	Acrobat	BASF	URMULE		
812														mancozeb	Dithane	DowAgro	URMULE		Tan-mix with Acrobat
813														famoxadone + cymoxanil	Tanos	DuPont	URMULE		
814														pyraclostrobin	Headline	BASF	URMULE		
815														acibenzolar	Actigard	Syngenta	URMUR		
816														fenamidone	Reason	Bayer	URMULE		Not supported by registrant
817	Tobacco	<i>Pythium</i>					5							etridiazole	Truban	Scotts Sierra Crop Protection	URMULE		GH transplant use
818														metalaxyl-m	Ridomil-Gold	Syngenta	URMULE		For post emergent treatment (currently labelled for PRE)
819	Tobacco	Bacterial Soft Rot					3							fosetyl-al	Aliette	Bayer	URMULE		
820														potassium bicarbonate	Milstop	Bioworks	URMULE		
821														acibenzolar	Actigard	Syngenta	Cat. A		Not supported by registrant
822														trisodium bicarbonate	TSP	N/A	N/A		

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
823	Tobacco	Target spot ( <i>Rhizoctonia</i> )					4							azoxystrobin	Quadris	Syngenta	URMULE		
824														pyraclostrobin	Headline	BASF	URMULE		
825														acibenzolar	Actigard	Syngenta	URMULE		
826	Tobacco	Pole Rot ( <i>Rhizopus</i> )					6							pyraclostrobin + boscalid	Pristine	BASF	URMULE		
827	Tobacco	Aspergillus					7							pyraclostrobin + boscalid	Pristine	BASF	URMULE		
828	Artichoke	Powdery mildew					1							myclobutanil	Nova	Dow Agro	URMULE	07020	
829	Sea buckthorn	<i>Monilia</i> sp						1						propiconazole	Topas	Dow Agro	URMULE		
830														triforine	Funginex	BASF	URMULE		
831	Sea buckthorn	Anthracoese						2						pyraclostrobin	Cabrio	BASF	URMULE		
832	Sea buckthorn	<i>Botrytis</i>						3						iprodione	Rovral	Bayer	URMULE		
833	<b>Organic Production</b>																		
834	Apple	Scab, powdery mildew					1							hydrogen peroxide	Storox	BioSafe Systems Inc. systems	URMULE		
835														<i>Bacillus subtilis</i>	Serenade	AgraQuest	URMUR		
836														<i>Bacillus pumilus</i>	Sonata	AgraQuest	URMUR		
837	Apple	Replant disease								1				<i>Bacillus subtilis</i>	Serenade	AgraQuest	URMUR		
838														<i>Muscodor albus</i>	Andante	AgraQuest	URMUR		

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1	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
2			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
839	Potato	Late blight						1				1		<i>Bacillus subtilis</i>	Serenade	AgraQuest	URMUR		
840	Potato	Common scab						2				2		<i>Streptomyces</i> sp.	EF-76	HMH Therafect	Cat. A		
841	Potato	Sprout inhibitors										1		Plant extracts (Mint or Clove oil)					
842	Cucurbits	Powdery mildew ( <i>Podosphaera xanthii</i> )						1						<i>Bacillus subtilis</i>	Serenade	AgraQuest	URMUR		
843														potassium bicarbonate	MiStop	BioWorks	URMULE		
844														<i>Pseudosyma flocculosa</i>	Sporodex	Plant Products	URMULE		
845	Sea buckthorn	<i>Monilia</i> sp						1						sulfur	Microscopic sulphur	UAP	URMULE		
846														Copper (tribasiccopper sulfate) 53%	Copper 53 W	UAP	URMULE		
847	Sea buckthorn	Anthracoese						2						Copper (tribasiccopper sulfate) 53%	Copper 53 W	UAP	URMULE		
848	Raspberry	<i>Phytophthora</i> spp						1						<i>Streptomyces</i> sp	EF-76	HMH Therafect	Cat. A		
849	Strawberry	Powdery mildew						2											
850	Strawberry	Leaf spot						3											
851	Strawberry	<i>Botrytis</i>						4											
852	Christmas trees	<i>Phytophthora</i> sp						1						<i>Streptomyces</i> sp	EF-76	HMH Therafect	Cat. A		
853	Grapes	Powdery mildew	1											mineral oil	Superior 70 Oil	UAP	URMULE		
854	Grapes	<i>Botrytis</i>	2											<i>Trichoderma harzianum</i>	Fungineem	Pronatex	Cat. A		
855																			
856																			
857	* URMULE = User Requested Minor Use Label Expansion; product already available in Canada on other commodities																		
858	URMUR = User Requested Minor Use Registration; product not registered in Canada yet, but available for same use in USA or EU.																		
859	Other = Is not eligible for either of the above																		
860	Cat. A = Registrant submission																		



2006 PATHOLOGY Minor Use National Priority Listing

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	Crop(s)	Target Pest	Provincial Pest Ranking										National Pest Priority Rank	Potential Solutions (Active Ingredient)	Potential Solutions (Product)	Registrant	Eligibility*	URMULE and/or IR-4 #	Other
			BC	AB	SK	MB	ON	QC	NB	NS	PE	NFL							
1																			
2																			
861																			
862	** If an URMULE # is already assigned and outstanding data is required, list the D.3.1 and D.3.2 number AND data requirement. Fill in the IR-4 project (PR) number if applicable.																		
863																			
864	NB Shading area corresponds to Priority B selected in 2005																		