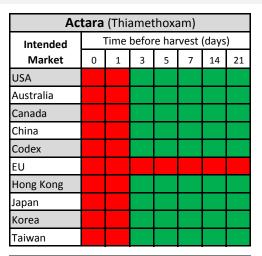
Pre-Harvest Intervals to Comply with the Maximum Residue Limits (MRLs) of Selected Export Markets for Fifteen Insecticides Registered for Use in Raspberries for the 2020 Growing Season - February 29, 2020

A	cran	nite	(Bife	nazat	te)							
Intended	Time before harvest (days)											
Market	0	1	3	5	7	14	21					
USA												
Australia												
Canada												
China												
Codex												
EU												
Hong Kong												
Japan												
Korea												
Taiwan												

		Brigade (Bifenthrin)											
	Briga	de (Bifer	nthrir	ו)								
Intended	Time before harvest (days)												
Market	0	1	3	5	7	14	21						
USA													
Australia													
Canada													
China													
Codex													
EU													
Hong Kong													
Japan													
Korea													
Taiwan													

Ex	irel (Cyar	ntran	ilipro	ole)		
Intended		Time	befor	e har	vest	(days)
Market	0	1	3	5	7	14	21
USA							
Australia							
Canada							
China							
Codex							
EU							
Hong Kong							
Japan							
Korea							
Taiwan							



Da	nito	l (Fe	npro	path	rin)					
Intended	•	Time	e before harvest (days)							
Market	0	1	3	5	7	14	21			
USA										
Australia										
Canada										
China										
Codex										
EU										
Hong Kong										
Japan										
Korea										
Taiwan										

Intre	epid	(Met	thoxy	/fend	ozide)	
Intended	•	Time	befor	e har	vest	(days)
Market	0	0 1		5	7	14	21
USA							
Australia							
Canada							
China							
Codex							
EU							
Hong Kong							
Japan							
Korea							
Taiwan							

Adr	nire	Pro	(Imic	laclo	prid)								
Intended		Time before harvest (days)											
Market	0	0 1		5	7	14	21						
USA													
Australia													
Canada													
China													
Codex													
EU													
Hong Kong													
Japan													
Korea													
Taiwan													

De	elega	ate (Spine	etora	ım)		
Intended	-	Time	befor	e har	vest	(days)
Market	0	1	3	5	7	14	21
USA							
Australia							
Canada							
China							
Codex							
EU							
Hong Kong							
Japan							
Korea							
Taiwan							

Ka	nem	ite (Aceq	luino	cyl)		
Intended	-	Time	befor	e har	vest	(days)
Market	0	1	3	5	7	14	21
USA							
Australia							
Canada							
China							
Codex							
EU							
Hong Kong							
Japan							
Korea							
Taiwan							

Key to colors used in charts:

RED means that the product should not be used during this time either because of EPA label restrictions or due to a high risk of exceeding MRLs for a given market.



YELLOW means that the product should be used with caution during this time given all the variables (e.g. tank mixes, application method and calibration, use of adjuvants, environmental conditions, and post-harvest handling) that can impact the time it takes for a residue to degrade in order to meet the MRL for a given market.

GREEN means that the product is likely to be safe for use at this time with low risk of residue remaining at harvest that would exceed MRLs for a given market.

Pre-Harvest Intervals to Comply with the Maximum Residue Limits (MRLs) of Selected Export Markets for Fifteen Insecticides Registered for Use in Raspberries for the 2020 Growing Season - February 29, 2020

	ſ	Mala	thio	n				Mustang	g Ma	XX (2	eta -	Суре	erme	thrir	ı)	0	nag	er (⊦	lexyt	hiazo	ox)		
Intended	· ·	Time	befor	re hai	rvest	(days	5)	Intended	-	Time	befor	re har	rvest	(days)	Intended	· ·	Time	befo	re hai	rvest	(days	5)
Market	0	1	3	5	7	14	21	Market	0	1	3	5	7	14	21	Market	0	1	3	5	7	14	21
USA								USA								USA							
Australia								Australia								Australia							
Canada								Canada								Canada							
China								China								China							
Codex								Codex								Codex							
EU								EU								EU							
Hong Kong								Hong Kong								Hong Kong							
Japan								Japan								Japan							
Korea								Korea								Korea							
Taiwan								Taiwan								Taiwan							
Civeret									Success (Spinosad)				Vendex (Fenbutatin oxide)										
Sivant	o Pri	me	(Flup	yrad	lifuro	one)			Succ	ess	(Spin	osad	I)			Ven	dex	(Fen	buta	tin o	xide))	
Intended			(Flup befoi				5)	Intended	1		(Spin befor			(days)	Ven	1	•	ibuta befoi				;)
							5) 21		1		• •			(days) 21		1	•					5) 21
Intended	· ·	Time	befor	re hai	rvest	(days	r i	Intended	-	Time	befor	re har	rvest	ŕ		Intended	· ·	Time	befo	re hai	rvest	(days	ŕ
Intended Market	· ·	Time	befor	re hai	rvest	(days	r i	Intended Market	-	Time	befor	re har	rvest	ŕ		Intended Market	· ·	Time	befo	re hai	rvest	(days	ŕ
Intended Market USA	· ·	Time	befor	re hai	rvest	(days	r i	Intended Market USA	-	Time	befor	re har	rvest	i i		Intended Market USA	· ·	Time	befo	re hai	rvest	(days	ŕ
Intended Market USA Australia	· ·	Time	befor	re hai	rvest	(days	r i	Intended Market USA Australia	-	Time	befor	re har	rvest	i i		Intended Market USA Australia	· ·	Time	befo	re hai	rvest	(days	ŕ
Intended Market USA Australia Canada	· ·	Time	befor	re hai	rvest	(days	r i	Intended Market USA Australia Canada	-	Time	befor	re har	rvest	i i		Intended Market USA Australia Canada	· ·	Time	befo	re hai	rvest	(days	ŕ
Intended Market USA Australia Canada China	· ·	Time	befor	re hai	rvest	(days	r i	Intended Market USA Australia Canada China	-	Time	befor	re har	rvest	i i		Intended Market USA Australia Canada China	· ·	Time	befo	re hai	rvest	(days	ŕ
Intended Market USA Australia Canada China Codex	· ·	Time	befor	re hai	rvest	(days	r i	Intended Market USA Australia Canada China Codex	-	Time	befor	re har	rvest	i i		Intended Market USA Australia Canada China Codex	· ·	Time	befo	re hai	rvest	(days	ŕ
Intended Market USA Australia Canada China Codex EU	· ·	Time	befor	re hai	rvest	(days	r i	Intended Market USA Australia Canada China Codex EU	-	Time	befor	re har	rvest	i i		Intended Market USA Australia Canada China Codex EU	· ·	Time	befo	re hai	rvest	(days	ŕ
Intended Market USA Australia Canada China Codex EU Hong Kong	· ·	Time	befor	re hai	rvest	(days	r i	Intended Market USA Australia Canada China Codex EU Hong Kong	-	Time	befor	re har	rvest	i i		Intended Market USA Australia Canada China Codex EU Hong Kong	· ·	Time	befo	re hai	rvest	(days	ŕ

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Purpose & Methods: This tool was developed to aid raspberry growers in selecting materials to manage key pests close to harvest with a particular export market in mind. Selected markets have been included, some of which have more restricted maximum residue limits (MRLs) or tolerances than required by the US for particular materials. The MRLs used to develop this tool come from those published by www.bryantchristie.com as of February 29, 2020. Please check the database as MRLs are dynamic. The data used to determine whether a longer pre-harvest interval would be necessary for a given market and its published MRL are based on a single application made near the legal US max rate for each material tested in replicated trials conducted at one location each in Oregon and Washington over three years, unless otherwise noted. All samples were extracted by the QuEChERS method and analyzed by GC/MS/MS and LC/MS/MS.

Disclaimer: These charts are just a guide. The authors of this tool cannot guarantee that any of these MRLs have not changed since February 29, 2020; therefore, the user assumes all responsibility for its use subsequently. We also cannot guarantee that a material listed for use in Oregon or Washington is registered for use outside those states (pesticide registration status is determined by the US EPA and State Governments where 'special uses' are concerned). Users outside these states are cautioned to consult with their local extension service to determine what is allowable. We also make no guarantees that any of the products listed will be effective against a particular pest. Finally, given all of the variables that can affect degradation rates - in particular the use of adjuvants and tank mixes, environmental post-application conditions, and post-harvest handling - we cannot guarantee that if a product is used according to this tool it will not leave residues that exceed MRLs for the selected market.