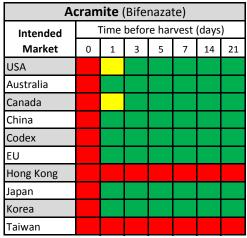
## Pre-Harvest Intervals to Comply with the Maximum Residue Limits (MRLs) of Selected Export Markets for Fourteen Insecticides Registered for Use in Blackberries for the 2020 Growing Season - February 29, 2020



Actara (Thiamethoxam)									
Intended	-	Γime	befor	e har	vest	(days	)		
Market	0	0 1 3 5 7 14							
USA									
Australia									
Canada									
China									
Codex									
EU									
Hong Kong									
Japan									
Korea									
Taiwan									

Adn	nire	Pro	(Imic	laclo	prid)	)		
Intended	•	Гime	befor	e har	vest	(days	)	
Market	0 1 3 5 7 14							
USA								
Australia								
Canada								
China								
Codex								
EU								
Hong Kong								
Japan								
Korea								
Taiwan								

Brigade (Bifenthrin)										
Intended Time before harvest (days)										
Market	0	0 1 3 5 7 14 2								
USA										
Australia										
Canada										
China										
Codex										
EU										
Hong Kong										
Japan										
Korea										
Taiwan										

_	•-	. /-						
Danitol (Fenpropathrin)								
Intended	٦	Γime	befor	e har	vest	(days	)	
Market	0 1 3 5 7 14							
USA								
Australia								
Canada								
China								
Codex								
EU								
Hong Kong								
Japan								
Korea								
Taiwan								

De	Delegate (Spinetoram)									
Intended	•	Time before harvest (days)								
Market	0 1 3 5 7 14 2									
USA										
Australia										
Canada										
China										
Codex										
EU										
Hong Kong										
Japan										
Korea										
Taiwan										

Ex	Exirel (Cyantraniliprole)										
Intended	•	Time	befor	e har	vest	(days	)				
Market	0	0 1 3 5 7 14 21									
USA											
Australia											
Canada											
China											
Codex											
EU											
Hong Kong											
Japan											
Korea											
Taiwan											

Intre	Intrepid (Methoxyfenozide)										
Intended	•	Time before harvest (days)									
Market	0	1	3	5	7	14	21				
USA											
Australia											
Canada											
China											
Codex											
EU											
Hong Kong											
Japan											
Korea											
Taiwan											

Kanemite (Acequinocyl)									
Intended	-	Time	befor	e har	vest	(days	)		
Market	0 1 3 5 7 14 2								
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 Fourteen Insecticides Registered for Use in Blackberries for the 2020 Growing Season - February 29, 2020

	Malathion										
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											

Mustang Maxx (zeta -Cypermethrin)										
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										

Onager (Hexythiazox)									
Intended	-	Γime	befor	e har	vest	(days	)		
Market	0	0 1 3 5 7 14 21							
USA									
Australia									
Canada									
China									
Codex									
EU									
Hong Kong									
Japan									
Korea									
Taiwan									

Sivant	Sivanto Prime (Flupyradifurone)										
Intended	T	Time before harvest (days)									
Market	0	0 1 3 5 7 14 21									
USA											
Australia											
Canada											
China											
Codex											
EU											
Hong Kong											
Japan											
Korea											
Taiwan											

Success (Spinosad)							
Intended	Time before harvest (days)						
Market	0	1	3	5	7	14	21
USA							
Australia							
Canada							
China							
Codex							
EU							
Hong Kong							
Japan							
Korea							
Taiwan							

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**Purpose & Methods:** This tool was developed to aid blackberry 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.