

# Pre-Harvest Intervals to Comply with the Maximum Residue Limits (MRLs) of Selected Export Markets for Insecticides, Miticides & Fungicides Registered for Use in Blueberries for the 2023 Growing Season - January 5, 2023

## Insecticides & Miticides

Actara (thiamethoxam)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Green	Green	Green	Green	Green	
Australia	Red	Red	Green	Green	Green	Green	Green	
Canada	Red	Red	Green	Green	Green	Green	Green	
EU	Red	Red	Green	Green	Green	Green	Green	
Japan	Red	Red	Green	Green	Green	Green	Green	
Korea	Red	Red	Green	Green	Green	Green	Green	
Philippines	Red	Red	Green	Green	Green	Green	Green	
Singapore	Red	Red	Green	Green	Green	Green	Green	
Taiwan	Red	Red	Green	Green	Green	Green	Green	
Vietnam	Red	Red	Green	Green	Green	Green	Green	

Altacor (chlorantraniliprole)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Green	Green	Green	Green	Green	Green	
Australia	Red	Green	Green	Green	Green	Green	Green	
Canada	Red	Green	Green	Green	Green	Green	Green	
EU	Red	Green	Green	Green	Green	Green	Green	
Japan	Red	Green	Green	Green	Green	Green	Green	
Korea	Red	Green	Green	Green	Green	Green	Green	
Philippines	Red	Green	Green	Green	Green	Green	Green	
Singapore	Red	Green	Green	Green	Green	Green	Green	
Taiwan	Red	Green	Green	Green	Green	Green	Green	
Vietnam	Red	Green	Green	Green	Green	Green	Green	

Asana (esfenvalerate)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Assail 70WP (acetamiprid)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Green	Green	Green	Green	Green	Green	
Australia	Red	Green	Green	Green	Green	Green	Green	
Canada	Red	Green	Green	Green	Green	Green	Green	
EU	Red	Green	Green	Green	Green	Green	Green	
Japan	Red	Green	Green	Green	Green	Green	Green	
Korea	Red	Yellow	Green	Green	Green	Green	Green	
Philippines	Red	Green	Green	Green	Green	Green	Green	
Singapore	Red	Green	Green	Green	Green	Green	Green	
Taiwan	Red	Green	Green	Green	Green	Green	Green	
Vietnam	Red	Green	Green	Green	Green	Green	Green	

Bexar (tolfenpyrad)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Brigade (bifenthrin)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Green	Green	Green	Green	Green	Green	
Australia	Red	Green	Green	Green	Green	Green	Green	
Canada	Red	Green	Green	Green	Green	Green	Green	
EU	Red	Green	Green	Green	Green	Green	Green	
Japan	Red	Green	Green	Green	Green	Green	Green	
Korea	Red	Green	Green	Green	Green	Green	Green	
Philippines	Red	Green	Green	Green	Green	Green	Green	
Singapore	Red	Green	Green	Green	Green	Green	Green	
Taiwan	Red	Green	Green	Green	Green	Green	Green	
Vietnam	Red	Green	Green	Green	Green	Green	Green	

Confirm (tebufenozide)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Danitol (fenpropathrin)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Delegate (spinetoram)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Diazinon AG500		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Yellow	Green	Green	Green	
EU	Red	Red	Red	Yellow	Green	Green	Green	
Japan	Red	Red	Red	Yellow	Green	Green	Green	
Korea	Red	Red	Red	Yellow	Green	Green	Green	
Philippines	Red	Red	Red	Yellow	Green	Green	Green	
Singapore	Red	Red	Red	Yellow	Green	Green	Green	
Taiwan	Red	Red	Red	Yellow	Green	Green	Green	
Vietnam	Red	Red	Red	Yellow	Green	Green	Green	

Entrust (spinosad)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Exirel (cyantraniliprole)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

**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.

**Disclaimer:** These charts are just a guide. The authors of this tool cannot guarantee that any of these MRLs have not changed since January 5, 2023, therefore, the user assumes all responsibility for its use subsequently. We also cannot guarantee that a material listed for use in Michigan, Oregon, Washington or California 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 or crop advisors 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.

**Purpose & Methods:** This tool was developed to aid blueberry 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.bcglobal.bryantchristie.com as of January 5, 2023. 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 U.S. PHI for each material tested, in replicated trials conducted at one location in Michigan, one location in Oregon, and two locations in Washington over three years as well as one location in California for one year and another location in California for two years. Data used for Brigade, Lannate, Malation, Mustang Maxx and Provado are based on treatments that received two applications with the second application made seven days after the initial application. All samples were extracted by QuEChERS method and analyzed by GC/MS/MS and LC/MS/MS.

**Pre-Harvest Intervals to Comply with the Maximum Residue Limits (MRLs) of Selected Export Markets for Insecticides, Miticides & Fungicides Registered for Use in Blueberries for the 2023 Growing Season - January 5, 2023**

**Insecticides & Miticides**

Fujimite (fenpyroximate)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Yellow	Green	Green	Green	Green	Green	
Japan	Red	Green	Green	Green	Green	Green	Green	
Korea	Red	Red	Yellow	Green	Green	Green	Green	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Green	Green	Green	Green	Green	Green	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Imidan (phosmet)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Yellow	Green	Green	Green	Green	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Yellow	Yellow	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Kanemite (acequinocyl)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Yellow	Green	Green	Green	Green	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Yellow	Yellow	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Yellow	Yellow	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Yellow	Yellow	
Vietnam	Red	Red	Red	Red	Red	Yellow	Yellow	

Knack (pyriproxyfen)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Green	Green	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Green	Green	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Lannate (methomyl)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Yellow	Green	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Yellow	Green	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Yellow	Green	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Magister (fenazaquin)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Green	Green	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Malathion		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Movento (spirotetramat)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Mustang Maxx (zeta-cypermethrin)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Provado (imidacloprid)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Rimon (novaluron)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Sevin (carbaryl)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Yellow	Yellow	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Sivanto (flupyradifurone)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Transform (sulfoxaflor)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

Verdepryn (cyclaniliprole)		Days After Treatment						
Intended Market	0 day	1 day	3 days	5 days	7 days	14 days	21 days	
USA	Red	Red	Red	Red	Red	Red	Red	
Australia	Red	Red	Red	Red	Red	Red	Red	
Canada	Red	Red	Red	Red	Red	Red	Red	
EU	Red	Red	Red	Red	Red	Red	Red	
Japan	Red	Red	Red	Red	Red	Red	Red	
Korea	Red	Red	Red	Red	Red	Red	Red	
Philippines	Red	Red	Red	Red	Red	Red	Red	
Singapore	Red	Red	Red	Red	Red	Red	Red	
Taiwan	Red	Red	Red	Red	Red	Red	Red	
Vietnam	Red	Red	Red	Red	Red	Red	Red	

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