



BRYANT CHRISTIE INC.
GLOBAL SOLUTIONS

January 29, 2020

To: California Cherry Exporters
cc: Chris Zanobini
From: Bryant Christie Inc.
Re: 2020 International Cherry MRL Memo

On behalf of the California Cherry Board

As the 2020 cherry season approaches and crop protection decisions are being made, BCI wanted to provide California cherry shippers an updated international cherry maximum residue level (MRL) memo for major export markets.

While the MRL information is considered accurate as of January 28, 2020, please note that the 2020 International Cherry MRL Memo is intended for information purposes only. Growers and shippers should verify the information obtained in this MRL memo with knowledgeable third parties prior to engaging in any business activities, such as the sale or shipments of any products. Although every effort has been made to provide accurate information within, Bryant Christie Inc. is not responsible for the accuracy, reliability, and currency of the information, and users recognize that information provided may not be one hundred percent (100%) accurate, up-to-date, and free of omissions. BCI shall not be held liable for any losses or damages arising from any errors, omissions, or misrepresentations from the use of the information contained in the 2020 International Cherry MRL Memo.

Bryant Christie Inc. hopes this memo will be useful to California cherry shippers and wishes the industry success in the 2020 season.

2020 International Cherry MRL Memo

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I. Above-MRL Possibilities According to Industry Residue Data

- The following table indicates pesticides and markets where available pesticide testing data shows the possibility of an MRL violation. Data comes from a variety of public and private sources.
- Please note that these are not actual detections and applying these pesticides does not automatically mean residues will always be above the export market's MRL. Regardless, growers should exercise caution and always remain aware of MRLs in export markets.
- Additionally, growers and shippers should also pay close attention to pesticides indicated in **red brackets, { }**, in the following tables. The pesticides in red and bold in this memo indicate where a foreign MRL is more restrictive than the corresponding US MRL. While not all restrictive MRLs are problematic, these represent situations where extra care should be exercised.
- While the pesticides in the table below have data to indicate that residues could exceed MRLs, data is not available for all pesticides and it is possible that these pesticides could exhibit residues that could exceed foreign MRLs that are more restrictive than US MRLs. In other words, the tables below do not necessarily represent the entire range of pesticides that could be problematic.

Pesticides with Residue Detections Capable of Exceeding MRLs in Major Markets		
Trade Name	Common Name	Markets in which the detected residue would have exceeded the MRL
Ambush/Pounce	Permethrin	EU, Canada
Asana	Esfenvalerate	EU, South Korea
Danitol	Fenpropathrin	EU
Elite/Orius	Tebuconazole	EU
Fyfanon	Malathion	EU
Imidan	Phosmet	South Korea, Australia
Indar	Fenbuconazole	Australia
Misc.	O-phenylphenol	Taiwan, EU
Piperonyl butoxide (PBO)	Piperonyl butoxide	EU, Taiwan
Procure	Triflumizole	EU
PyGanic	Pyrethrins	Taiwan
Renounce/Tombstone	Cyfluthrin	Canada, Taiwan
Rovral	Irpodione	EU
Sevin	Carbaryl	EU, Taiwan, South Korea, Australia
Tilt/Orbit	Propiconazole	EU
Topsin	Thiophanate-methyl	EU
Warrior II	Lambda-cyhalothrin	EU, South Korea

II. MRL Status of SWD Control Insecticides

The following table provides a summary of MRLs for insecticides investigated in Dr. Robert Van Steenwyck's efficacy trials in 2010.

Pesticide MRLs for SWD Insecticides in Major CA Cherry Export Markets								
MRL values listed in red brackets, { } , are more restrictive than the US MRL value. All values listed in parts per million (ppm).								
Trade Name	Common Name	US	Canada	Japan	S. Korea	Taiwan	EU	Australia
Actara/Voliam Flexi	Thiamethoxam	0.5	0.5	5	1	0.5	0.6	0.5
Ambush/Pounce	Permethrin	4	{0.1}*	5	5 Expires Dec 31, 2021	{2}	{0.05}	4
Asana	Esfenvalerate	3	{0.1}*	{2}	{0.01}*	{1}	{0.02}	{0.05}
Assail	Acetamiprid	1.2	1.2	5	1.5 Import Tolerance	{1}	1.5	2
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	{0.1}*	1	1 Expires Dec 31, 2021	{0.01}	{0.2}	0.3
Danitol	Fenpropathrin	5	5	5	5 Import Tolerance	5	{0.01}	5
Delegate	Spinetoram	0.3	1	0.5	{0.2} Import Tolerance	{0.2}	2	{0.2}
Diazinon	Diazinon	0.2	{0.1}*	{0.1}	{0.01}*	1	{0.01}	0.5
Fyfanon	Malathion	8	{6}	{6}	{0.5} Expires Dec 31, 2021	{0.5}	{0.02}	8
Mustang	Zeta-Cypermethrin	1	2	2	1	2	2	2
PyGanic	Pyrethrins	1 <i>Exempt</i>	1	1	1 Expires Dec 31, 2021	---	1	1
Renounce/Tombstone	Cyfluthrin	0.3	{0.1}*	1	1 Expires Dec 31, 2021	{0.01}	{0.2}	0.3
Sevin	Carbaryl	10	10	10	{0.5} Expires Dec 31, 2021	{0.5}	{0.01}	{0.02}
Success/Entrust	Spinosad	0.2	1	0.2	0.2 Import Tolerance	0.2	0.2	1
Warrior II	Lambda Cyhalothrin	0.5	0.5	0.5	{0.3} Import Tolerance	{0.4}	{0.3}	0.5
* Indicates a default value is applied because no specific MRL has been established. (Canada: 0.1 ppm; Japan: 0.01 ppm; EU: 0.01 ppm; Korea 0.01 ppm)								
"---" Indicates there is no applicable cherry MRL. While policies differ from country to country, this generally indicates that residues are not allowed.								

III. Summary of Pesticide Residues Screening Programs in Key Export Markets

- The following table summarizes pesticides known to be analyzed in official pesticide residue screening programs in key export markets. This information is based on the most recent screening plans available for each market. This summary is for informational purposes only and is not intended to guarantee that a given pesticide will not be tested for as part of import inspection programs in foreign markets.
- **It is critical that growers, packers, and exporters understand that foreign residue screening programs change frequently, and foreign regulators may at any time choose to analyze for any of the pesticides approved for use on cherries in California.**
- Prior to shipping, exporters should first confirm that consignments comply with export market regulations.

Status of CA Cherry Pesticides in Foreign Screen Programs								
Trade Name	Common Name	Pesticide Type	2016 Canada pesticide screen?	2019 Japan pesticide screen?	2020 Korea pesticide screen?	2017 Taiwan pesticide screen?	2018 UK or 2020-22 EU pesticide screen?	2019 Australia pesticide screen?
2,4-D	2,4-D	Herbicide		Yes	Yes		Yes	
Abound	Azoxystrobin	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Acramite	Bifenazate	Insecticide	Yes	Yes	Yes	Yes		
Actara/Voliam Flexi	Thiamethoxam	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Admire/Nuprid	Imidacloprid	Insecticide		Yes	Yes	Yes	Yes	
Agri-mek/ Epi-Mek	Abamectin	Insecticide	Yes		Yes	Yes	Yes	
Aim/Rage/Shark	Carfentrazone-ethyl	Herbicide	Yes	Yes	Yes	Yes		
Alion	Indaziflam	Herbicide			Yes			
Ambush/Pounce	Permethrin	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Apogee	Prohexadione calcium	Growth Regulator			Yes			
Apollo	Clofentezine	Insecticide	Yes	Yes	Yes	Yes	Yes	
Aria/Beleaf/Carbine	Flonicamid	Insecticide	Yes	Yes	Yes	Yes	Yes	

Status of CA Cherry Pesticides in Foreign Screen Programs

Trade Name	Common Name	Pesticide Type	2016 Canada pesticide screen?	2019 Japan pesticide screen?	2020 Korea pesticide screen?	2017 Taiwan pesticide screen?	2018 UK or 2020-22 EU pesticide screen?	2019 Australia pesticide screen?
Asana	Esfenvalerate	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Assail	Acetamiprid	Insecticide	Yes	Yes	Yes	Yes	Yes	
Avaunt	Indoxacarb	Insecticide		Yes	Yes	Yes	Yes	Yes
Baythroid XL/Leverage	Beta-cyfluthrin	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Belt	Flubendiamide	Insecticide	Yes	Yes	Yes	Yes	Yes	
Boll'd/CERONE/Ethephon	Ethephon	Growth Regulator		Yes	Yes		Yes	
Botran/Britz	Dicloran	Fungicide	Yes		Yes	Yes	Yes	Yes
Bravo/Concert	Chlorothalonil	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Cabrio/Insignia/Pageant	Pyraclostrobin	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Cabrio/Pristine	Boscalid	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Captan/Captec	Captan	Fungicide	Yes	Yes	Yes		Yes	Yes
Casoron	Dichlobenil	Herbicide	Yes		Yes			
Centaur/Tourismo	Buprofezin	Insecticide	Yes	Yes	Yes	Yes	Yes	
Chateau	Flumioxazin	Herbicide		Yes	Yes			
Cobalt/Proaxis	Gamma Cyhalothrin	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Danitol	Fenpropathrin	Insecticide	Yes	Yes	Yes	Yes	Yes	
Delegate	Spinetoram	Insecticide	Yes		Yes	Yes	Yes	
Desperado/Nexter	Pyridaben	Insecticide	Yes	Yes	Yes	Yes	Yes	
Diazinon	Diazinon	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Dimethoate	Dimethoate	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Elast/SYLLIT	Dodine	Fungicide	Yes		Yes		Yes	
Elevate	Fenhexamid	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Elite/Orius	Tebuconazole	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Envidor	Spirodiclofen	Insecticide	Yes	Yes	Yes	Yes	Yes	
Esteem	Pyriproxifen	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes

Status of CA Cherry Pesticides in Foreign Screen Programs

Trade Name	Common Name	Pesticide Type	2016 Canada pesticide screen?	2019 Japan pesticide screen?	2020 Korea pesticide screen?	2017 Taiwan pesticide screen?	2018 UK or 2020-22 EU pesticide screen?	2019 Australia pesticide screen?
Ferbam	Ferbam	Fungicide			Yes**		Yes**	
Flint/Gem	Trifloxystrobin	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Fontelis	Penthiopyrad	Fungicide			Yes	Yes	Yes	
Forchlorfenuron	Forchlorfenuron	Growth regulator	Yes	Yes	Yes			
FujiMite	Fenpyroximate	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Fusilade	Fluazifop-P-butyl	Herbicide	Yes	Yes	Yes	Yes	Yes	
Fyfanon	Malathion	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Galigan/Oxyflow	Oxyfluorfen	Herbicide	Yes		Yes	Yes		Yes
Gatten	Flutianil	Fungicide			Yes			
Gramoxone	Paraquat dichloride	Herbicide		Yes	Yes			
Imidan	Phosmet	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Indar	Fenbuconazole	Fungicide	Yes	Yes	Yes	Yes	Yes	
Inspire	Difenoconazole	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Intrepid	Methoxyfenozide	Insecticide	Yes	Yes	Yes	Yes	Yes	
Kanemite	Acequinocyl	Insecticide			Yes	Yes		
Kerb	Propyzamide	Herbicide	Yes	Yes	Yes		Yes	
Kixor	Saflufenacil	Herbicide			Yes	Yes		
Lorsban/Dursban	Chlorpyrifos	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Luna Experience	Fluopyram	Fungicide			Yes	Yes	Yes	
Magister	Fenazaquin	Insecticide	Yes		Yes	Yes	Yes	
Matrix	Rimsulfuron	Herbicide			Yes			
Merivon	Fluxapyroxad	Fungicide			Yes	Yes	Yes	
Methyl Bromide	Methyl Bromide	Insecticide		Yes	Yes		Yes	
Misc.	1-Naphthaleneacetamide	Growth Regulator						

Status of CA Cherry Pesticides in Foreign Screen Programs

Trade Name	Common Name	Pesticide Type	2016 Canada pesticide screen?	2019 Japan pesticide screen?	2020 Korea pesticide screen?	2017 Taiwan pesticide screen?	2018 UK or 2020-22 EU pesticide screen?	2019 Australia pesticide screen?
Misc.	1-Naphthaleneacetic acid	Growth Regulator		Yes				
Misc.	O-phenylphenol	Fungicide	Yes		Yes	yes	Yes	Yes
Movento	Spirotetramat	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Mustang	Zeta-Cypermethrin	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Penbotec	Pyrimethanil	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Pendulum/Prowl	Pendimethalin	Herbicide	Yes	Yes	Yes	Yes	Yes	Yes
Piperonyl Butoxide	Piperonyl Butoxide	Synergist	Yes	Yes	Yes	Yes		Yes
Poast	Sethoxydim	Herbicide	Yes	Yes	Yes	Yes		
Princep/Sim-Trol	Simazine	Herbicide	Yes	Yes	Yes	Yes		
Procure	Triflumizole	Fungicide	Yes	Yes	Yes	Yes		
PyGanic	Pyrethrins	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Quash	Metconazole	Fungicide	Yes	Yes	Yes	Yes		
Quintec	Quinoxifen	Fungicide	Yes	Yes	Yes	Yes	Yes	
Rally	Myclobutanil	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Reckon/Rely	Glufosinate-ammonium	Fungicide		Yes	Yes			
Renounce/Tombstone	Cyfluthrin	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Rhyme	Flutriafol	Fungicide	Yes	Yes	Yes	Yes	Yes	
Ridomil	Metalaxyl/Metalaxyl-M	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Rimon	Novaluron	Insecticide	Yes	Yes	Yes	Yes	Yes	
Roundup	Glyphosate	Herbicide		Yes	Yes		Yes	
Rovral	Iprodione	Fungicide		Yes	Yes	Yes	Yes	Yes
Savey	Hexythiazox	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Scholar	Fludioxonil	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Sevin	Carbaryl	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes

Status of CA Cherry Pesticides in Foreign Screen Programs

Trade Name	Common Name	Pesticide Type	2016 Canada pesticide screen?	2019 Japan pesticide screen?	2020 Korea pesticide screen?	2017 Taiwan pesticide screen?	2018 UK or 2020-22 EU pesticide screen?	2019 Australia pesticide screen?
Sivanto	Flupyradifurone	Insecticide			Yes	Yes		
Solicam	Norflurazon	Herbicide	Yes	Yes	Yes	Yes		
Spur	Clopyralid	Herbicide						
Success/Entrust	Spinosad	Insecticide		Yes	Yes	Yes	Yes	Yes
Sulfoxaflor	Sulfoxaflor	Insecticide		Yes	Yes	Yes	Yes	
Surflan	Oryzalin	Herbicide		Yes	Yes			
Switch	Cyprodinil	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Tilt/Orbit	Propiconazole	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Tolfenpyrad/Hachi Hachi	Tolfenpyrad	Insecticide	Yes	Yes	Yes	Yes		
Topsin	Thiophanate-methyl	Fungicide	Yes	Yes	Yes*	Yes*	Yes	
Treflan	Trifluralin	Herbicide	Yes	Yes	Yes	Yes		
Vendex	Fenbutatin-oxide	Insecticide		Yes	Yes	Yes	Yes	
Venue	Pyraflufen-ethyl	Herbicide	Yes		Yes	Yes		
Voliam	Chlorantraniliprole	Insecticide	Yes	Yes	Yes	Yes	Yes	
Warrior II	Lambda Cyhalothrin	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Zeal	Etoxazole	Insecticide	Yes	Yes	Yes	Yes	Yes	
Ziram	Ziram	Fungicide			Yes**		Yes **	

* Tested for as carbendazim

** Tested for as dithiocarbamates

IV. Canadian MRL Status

INSECTICIDES: Status of Canadian MRLs						
<ul style="list-style-type: none"> MRL values listed in red brackets { } are more restrictive than the US MRL value Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs Dashes "----" indicate that no MRL has been established in the market 						
Trade Name	Common Name	US MRL (ppm)	Canada MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Acramite	Bifenazate	2.5	2.5	9,204	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	0.5	5,679	0.002	0.032
Admire/Nuprid	Imidacloprid	3	3	7,477	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	0.09	25,229	---	---
Ambush/Pounce	Permethrin	4	{0.1}*	1,158	0.01	0.31
Apollo	Clofentezine	1	{0.1}*	2,579	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	0.6	10	---	---
Asana	Esfenvalerate	3	{0.1}*	2,272	0.014	0.04
Assail	Acetamiprid	1.2	1.2	297	0.03	0.18
Avaunt	Indoxacarb	0.9	{0.1}*	5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	{0.1}*	80	---	---
Belt	Flubendiamide	1.6	2	19	---	---
Centaur/Tourismo	Buprofezin	2	2	551	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	{0.1}*	---	---	---
Danitol	Fenpropathrin	5	5	14,409	0.01	2.29
Delegate	Spinetoram	0.3	1	1,997	0.01	0.06
Desperado/Nexter	Pyridaben	3	3	---	---	---
Diazinon	Diazinon	0.2	{0.1}*	425	0.002	0.01
Dimethoate	Dimethoate	2 US Regional	2	---	---	---
Envidor	Spirodiclofen	1	1	1,297	0.06	0.06

INSECTICIDES: Status of Canadian MRLs

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- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Canada MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Esteem	Pyriproxyfen	1	1.5	962	0.002	0.03
Etofenprox	Etofenprox	5	{0.1}*	---	---	---
Fujimite	Fenpyroximate	2	2	3,367	---	---
Fyfanon	Malathion	8	{6}	9,181	0.003	0.43
Imidan	Phosmet	10	{7}	---	0.005	0.091
Intrepid	Methoxyfenozide	3	6	16,496	0.002	0.1
Kanemite	Acequinocyl	1	{0.1}*	---	---	---
Lorsban/Dursban	Chlorpyrifos	1	{0.1}*	189	---	---
Magister	Fenazaquin	2	{0.1}*	1,797	---	---
Methyl Bromide	Methyl Bromide	20	{0.1}*	202,781 (C)	---	---
Movento	Spirotetramat	4.5	4.5	2,402	---	---
Mustang	Zeta-Cypermethrin	1	2	7,296	0.02	1
PyGanic	Pyrethrins	1 <i>Exempt</i>	1	265	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	{0.1}*	9	0.03	0.11
Rimon	Novaluron	8	8	---	---	---
Safari	Dinotefuran	2 US Section 18: Expires Dec 31, 2021	{0.1}*	---	---	---
Savey	Hexythiazox	1	1	4,654	---	---
Sevin	Carbaryl	10	10	78	0.003	0.84
Sivanto	Flupyradifurone	1.5	1.5	162	---	---
Success/Entrust	Spinosad	0.2	1	9,861	0.005	0.17

INSECTICIDES: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
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- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Canada MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Sulfoxaflor	Sulfoxaflor	3	3	---	---	---
Tolfenpyrad/Hachi Hachi	Tolfenpyrad	2	2	---	---	---
Vendex	Fenbutatin-oxide	6	{0.1}*	121	---	---
Voliam	Chlorantraniliprole	2.5	2.5	148	0.01	0.02
Warrior II	Lambda Cyhalothrin	0.5	0.5	39,164	0.01	0.38
Zeal	Etoxazole	1	1	6,243	0.02	0.02

* Indicates where the Canadian default MRL of 0.1 ppm applies because no specific MRL has been established.

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

FUNGICIDES: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Canada MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Abound	Azoxystrobin	2	2	2,052	0.0005	0.16
Botran/Britz	Dicloran	20	{15}	---	---	---
Bravo/Concert	Chlorothalonil	0.5	0.5	232	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	2.5	30,467	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	{1.7}	19,692	0.004	0.38
Captan/Captec	Captan	50	{5}	23	0.17	0.53
Elast/SYLLIT	Dodine	5	{2}	---	---	---
Elevate	Fenhexamid	10	{6}	4,871	0.01	1.42
Elite/Orius	Tebuconazole	5	{3}	14,657	0.01	1.97
Ferbam	Ferbam	4	7 Expires Dec 14, 2022	---	---	---
Flint/Gem	Trifloxystrobin	2	2	18,472	0.001	0.11
Fontelis	Penthiopyrad	4	4	2,774	0.02	0.31
Gatten	Flutianil	0.4	{0.1}*	---	---	---
Indar	Fenbuconazole	1	{0.8}	484	0.003	0.18
Inspire	Difenoconazole	2.5	2.5	1,020	0.05	0.06
Luna	Fluopyram	2	2	18,777	0.01	0.34
Misc.	O-phenylphenol	5	5	---	0.017	0.017
Penbotec	Pyrimethanil	10	10	---	---	---
Procure	Triflumizole	1.5	1.5	6,347	0.01	0.72
Quash	Metconazole	0.2	0.2	1,952	0.02	0.02
Quintec	Quinoxifen	0.7	0.7	9,071	0.0008	0.21
Rally	Myclobutanil	5	{1}	23,124	0.001	0.6
Rhyme	Flutriafol	1.5	1.5	16	---	---

FUNGICIDES: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Canada MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Ridomil	Metalaxyl/ Metalaxyl-M	1	1	105	---	---
Rovral	Iprodione	20	{5} Expires Jun 21, 2022	24,720	0.006	4.7
Scholar	Fludioxonil	5	5	3,391 (T)	0.021	0.41
Switch	Cyprodinil	2	2	164	---	---
Tilt/Orbit	Propiconazole	4	4	12,437	0.002	0.28
Topsin	Thiophanate-methyl	20	{5}	4,404	0.02**	0.32**
Xemium	Fluxapyroxad	3	3	10,735	0.01	0.07
Ziram	Ziram	7	7 Expires Dec 14, 2022	988	---	---

* Indicates where the Canadian default MRL of 0.1 ppm applies because no specific MRL has been established.

** Detected as carbendazim

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

HERBICIDES: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Canada MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.05	2,669	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	0.1	6,374	---	---
Alion	Indaziflam	0.01	0.01	3,696	---	---
Casoron	Dichlobenil	0.15	{0.1}*	---	---	---
Chateau	Flumioxazin	0.02	0.02	3,775	---	---
Fusilade	Fluazifop-P-butyl	0.05	0.05	986	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	0.1*	15,961	---	---
Gramoxone	Paraquat dichloride	0.05	0.05	10,090	---	---
Kerb	Propyzamide	0.1	0.1*	---	---	---
Kixor	Saflufenacil	0.03	0.03	1	---	---
Matrix	Rimsulfuron	0.01	0.01	4,369	---	---
Pendulum/Prowl	Pendimethalin	0.1	0.1	4,204	---	---
Poast	Sethoxydim	0.2	{0.1}*	917	---	---
Princep/Sim-Trol	Simazine	0.25	{0.1}*	8	---	---
Reckon/Rely	Glufosinate-ammonium	0.3	{0.2}	14,145	---	---
Roundup	Glyphosate	0.2	{0.1}*	15,549	---	---
Solicam	Norflurazon	0.1	0.1*	4	---	---
Spur	Clopyralid	0.5	0.5	---	---	---
Surflan	Oryzalin	0.05	0.1*	2,146	---	---
Treflan	Trifluralin	0.05	0.05	---	---	---
Venue	Pyraflufen-ethyl	0.01	0.1*	2,934	---	---

* Indicates where the Canadian default MRL of 0.1 ppm applies because no specific MRL has been established.

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

SYNERGISTS/PLANT GROWTH REGULATORS: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Canada MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	0.4	3,335	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	{8}	---	---	---
Forchlorfenuron	Forchlorfenuron	0.01	0.1*	---	---	---
Misc.	1-Naphthaleneacetamide	0.1	0.1*	---	---	---
Misc.	1-Naphthaleneacetic acid	0.1	0.1*	---	---	---
Piperonyl Butoxide	Piperonyl Butoxide	8 <i>Exempt</i>	8	---	0.017	0.064

* Indicates where the Canadian default MRL of 0.1 ppm applies because no specific MRL has been established.

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

V. Japanese MRL Status

INSECTICIDES: Status of Japanese MRLs						
<ul style="list-style-type: none"> MRL values listed in red brackets { } are more restrictive than the US MRL value Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs Dashes "---" indicate that no MRL has been established in the market 						
Trade Name	Common Name	US MRL (ppm)	Japan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Acramite	Bifenazate	2.5	{2}	9,204	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	5	5,679	0.002	0.032
Admire/Nuprid	Imidacloprid	3	{2}	7,477	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	0.09	25,229	---	---
Ambush/Pounce	Permethrin	4	5	1,158	0.01	0.31
Apollo	Clofentezine	1	{0.5}	2,579	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	2	10	---	---
Asana	Esfenvalerate	3	{2}	2,272	0.014	0.04
Assail	Acetamiprid	1.2	5	297	0.03	0.18
Avaunt	Indoxacarb	0.9	0.9	5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	1	80	---	---
Belt	Flubendiamide	1.6	2	19	---	---
Centaur/Tourismo	Buprofezin	2	5	551	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	{0.01}*	---	---	---
Danitol	Fenpropathrin	5	5	14,409	0.01	2.29
Delegate	Spinetoram	0.3	0.5	1,997	0.01	0.06
Desperado/Nexter	Pyridaben	3	{0.7}	---	---	---
Diazinon	Diazinon	0.2	{0.1}	425	0.002	0.01
Dimethoate	Dimethoate	2 US Regional	2	---	---	---

INSECTICIDES: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Japan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Envidor	Spirodiclofen	1	3	1,297	0.06	0.06
Esteem	Pyriproxyfen	1	1	962	0.002	0.03
Etofenprox	Etofenprox	5	{0.01}* 0.01	---	---	---
Fujimite	Fenpyroximate	2	2	3,367	---	---
Fyfanon	Malathion	8	{6}	9,181	0.003	0.43
Imidan	Phosmet	10	{0.1}	---	0.005	0.091
Intrepid	Methoxyfenozide	3	{2}	16,496	0.002	0.1
Kanemite	Acequinocyl	1	2	---	---	---
Lorsban/Dursban	Chlorpyrifos	1	1	189	---	---
Magister	Fenazaquin	2	2 Import Tolerance	1,797	---	---
Methyl Bromide	Methyl Bromide	20	20	202,781 (C)	---	---
Movento	Spirotetramat	4.5	5	2,402	---	---
Mustang	Zeta-Cypermethrin	1	2	7,296	0.02	1
PyGanic	Pyrethrins	1 <i>Exempt</i>	1	265	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	1	9	0.03	0.11
Rimon	Novaluron	8	{7}	---	---	---
Safari	Dinotefuran	2 US Section 18: Expires Dec 31, 2021	10	---	---	---
Savey	Hexythiazox	1	1	4,654	---	---
Sevin	Carbaryl	10	10	78	0.003	0.84
Sivanto	Flupyradifurone	1.5	{0.01}* 0.01	162	---	---

INSECTICIDES: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Japan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Success/Entrust	Spinosad	0.2	0.2	9,861	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	3 Import Tolerance	---	---	---
Tolfenpyrad/Hachi Hachi	Tolfenpyrad	2	{0.01}*	---	---	---
Vendex	Fenbutatin-oxide	6	10	121	---	---
Voliam	Chlorantraniliprole	2.5	{1}	148	0.01	0.02
Warrior II	Lambda Cyhalothrin	0.5	0.5	39,164	0.01	0.38
Zeal	Etoxazole	1	1	6,243	0.02	0.02
* Indicates where the Japanese default MRL of 0.01 ppm applies because no specific MRL has been established.						
Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.						

FUNGICIDES: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "----" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Japan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Abound	Azoxystrobin	2	3	2,052	0.0005	0.16
Botran/Britz	Dicloran	20	{10}	---	---	---
Bravo/Concert	Chlorothalonil	0.5	0.5	232	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	3	30,467	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	{3}	19,692	0.004	0.38
Captan/Captec	Captan	50	{25}	23	0.17	0.53
Elast/SYLLIT	Dodine	5	{3}	---	---	---
Elevate	Fenhexamid	10	10	4,871	0.01	1.42
Elite/Orius	Tebuconazole	5	5	14,657	0.01	1.97
Ferbam	Ferbam	4	7	---	---	---
Flint/Gem	Trifloxystrobin	2	3	18,472	0.001	0.11
Fontelis	Penthiopyrad	4	5	2,774	0.02	0.31
Gatten	Flutianil	0.4	{0.01}*	---	---	---
Indar	Fenbuconazole	1	1	484	0.003	0.18
Inspire	Difenoconazole	2.5	3	1,020	0.05	0.06
Luna	Fluopyram	2	5	18,777	0.01	0.34
Misc.	O-phenylphenol	5	{2}	---	0.017	0.017
Penbotec	Pyrimethanil	10	10	---	---	---
Procure	Triflumizole	1.5	3	6,347	0.01	0.72
Quash	Metconazole	0.2	0.2	1,952	0.02	0.02
Quintec	Quinoxifen	0.7	{0.4}	9,071	0.0008	0.21
Rally	Myclobutanil	5	{2}	23,124	0.001	0.6
Rhyme	Flutriafol	1.5	2	16	---	---
Ridomil	Metalaxyl/ Metalaxyl-M	1	{0.2}	105	---	---

FUNGICIDES: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Japan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Rovral	Iprodione	20	{10}	24,720	0.006	4.7
Scholar	Fludioxonil	5	5	3,391 (T)	0.021	0.41
Switch	Cyprodinil	2	2	164	---	---
Tilt/Orbit	Propiconazole	4	4	12,437	0.002	0.28
Topsin	Thiophanate-methyl	20	{3}	4,404	0.02**	0.32**
Xemium	Fluxapyroxad	3	3	10,735	0.01	0.07
Ziram	Ziram	7	7	988	---	---

* Indicates where the Japanese default MRL of 0.01 ppm applies because no specific MRL has been established.

** Detected as carbendazim

Note: This chart includes pesticide use information from 2017; this is the most current data available.

HERBICIDES: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Japan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.2	2,669	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	0.1	6,374	---	---
Alion	Indaziflam	0.01	0.01*	3,696	---	---
Casoron	Dichlobenil	0.15	{0.01}*	---	---	---
Chateau	Flumioxazin	0.02	0.02	3,775	---	---
Fusilade	Fluazifop-P-butyl	0.05	{0.01}*	986	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	0.05	15,961	---	---
Gramoxone	Paraquat dichloride	0.05	0.05	10,090	---	---
Kerb	Propyzamide	0.1	{0.01}*	---	---	---
Kixor	Saflufenacil	0.03	0.03	1	---	---
Matrix	Rimsulfuron	0.01	0.01*	4,369	---	---
Pendulum/Prowl	Pendimethalin	0.1	{0.05}	4,204	---	---
Poast	Sethoxydim	0.2	1	917	---	---
Princep/Sim-Trol	Simazine	0.25	{0.2}	8	---	---
Reckon/Rely	Glufosinate-ammonium	0.3	0.3	14,145	---	---
Roundup	Glyphosate	0.2	0.2	15,549	---	---
Solicam	Norflurazon	0.1	0.1	4	---	---
Spur	Clopyralid	0.5	0.5	---	---	---
Surflan	Oryzalin	0.05	0.08	2,146	---	---
Treflan	Trifluralin	0.05	0.05	---	---	---
Venue	Pyraflufen-ethyl	0.01	0.02	2,934	---	---

* Indicates where the Japanese default MRL of 0.01 ppm applies because no specific MRL has been established.

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

SYNERGISTS/PLANT GROWTH REGULATORS: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Japan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	0.4**	3,335	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	10	---	---	---
Forchlorfenuron	Forchlorfenuron	0.01	0.1	---	---	---
Misc.	1-Naphthaleneacetamide	0.1	{0.01}*	---	---	---
Misc.	1-Naphthaleneacetic acid	0.1	0.1	---	---	---
Piperonyl Butoxide	Piperonyl Butoxide	8 <i>Exempt</i>	8	---	0.017	0.064

* Indicates where the Japanese default MRL of 0.01 ppm applies because no specific MRL has been established.

** The MRL was established according to the MHLW amendment “生食発 0718 第2号” from July 2018. It does not currently appear in the Japanese Food Chemical Research Foundation database.

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

VI. European Union MRL Status

INSECTICIDES: Status of EU MRLs						
<ul style="list-style-type: none"> MRL values listed in red brackets { } are more restrictive than the US MRL value Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs Dashes “---” indicate that no MRL has been established in the market 						
Trade Name	Common Name	US MRL (ppm)	EU MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Acramite	Bifenazate	2.5	{2}	9,204	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	0.6	5,679	0.002	0.032
Admire/Nuprid	Imidacloprid	3	{0.5}	7,477	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	{0.01}	25,229	---	---
Ambush/Pounce	Permethrin	4	{0.05}	1,158	0.01	0.31
Apollo	Clofentezine	1	{0.02}	2,579	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	{0.4}	10	---	---
Asana	Esfenvalerate	3	{0.02}	2,272	0.014	0.04
Assail	Acetamiprid	1.2	1.5	297	0.03	0.18
Avaunt	Indoxacarb	0.9	1	5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	{0.2}	80	---	---
Belt	Flubendiamide	1.6	2	19	---	---
Centaur/Tourismo	Buprofezin	2	{0.01}	551	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	{0.3}	---	---	---
Danitol	Fenpropathrin	5	{0.01}	14,409	0.01	2.29
Delegate	Spinetoram	0.3	2	1,997	0.01	0.06
Desperado/Nexter	Pyridaben	3	{0.01}	---	---	---
Diazinon	Diazinon	0.2	{0.01}	425	0.002	0.01
Dimethoate	Dimethoate	2 US Regional	{0.02}	---	---	---

INSECTICIDES: Status of EU MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	EU MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Envidor	Spirodiclofen	1	2	1,297	0.06	0.06
Esteem	Pyriproxyfen	1	1	962	0.002	0.03
Etofenprox	Etofenprox	5	{0.8}	---	---	---
Fujimite	Fenpyroximate	2	2	3,367	---	---
Fyfanon	Malathion	8	{0.02}	9,181	0.003	0.43
Imidan	Phosmet	10	{1}	---	0.005	0.091
Intrepid	Methoxyfenozide	3	{2}	16,496	0.002	0.1
Kanemite	Acequinocyl	1	{0.1}	---	---	---
Lorsban/Dursban	Chlorpyrifos	1	{0.05}	189	---	---
Magister	Fenazaquin	2	{0.3}	1,797	---	---
Methyl Bromide	Methyl Bromide	20	20	202,781 (C)	---	---
Movento	Spirotetramat	4.5	{3}	2,402	---	---
Mustang	Zeta-Cypermethrin	1	2	7,296	0.02	1
PyGanic	Pyrethrins	1 <i>Exempt</i>	1	265	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	{0.2}	9	0.03	0.11
Rimon	Novaluron	8	{7}	---	---	---
Safari	Dinotefuran	2 US Section 18: Expires Dec 31, 2021	{0.01}* ---	---	---	---
Savey	Hexythiazox	1	1	4,654	---	---
Sevin	Carbaryl	10	{0.01}	78	0.003	0.84
Sivanto	Flupyradifurone	1.5	{0.01}	162	---	---
Success/Entrust	Spinosad	0.2	0.2	9,861	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	{1.5}	---	---	---

INSECTICIDES: Status of EU MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	EU MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Tolfenpyrad/Hachi Hachi	Tolfenpyrad	2	{0.01}*	---	---	---
Vendex	Fenbutatin-oxide	6	{0.01}	121	---	---
Voliam	Chlorantraniliprole	2.5	{1}	148	0.01	0.02
Warrior II	Lambda Cyhalothrin	0.5	{0.3}	39,164	0.01	0.38
Zeal	Etoxazole	1	{0.3}	6,243	0.02	0.02

* Indicates where the EU default MRL of 0.01 ppm applies because no specific MRL has been established.

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

FUNGICIDES: Status of EU MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	EU MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Abound	Azoxystrobin	2	2	2,052	0.0005	0.16
Botran/Britz	Dicloran	20	{0.01}	---	---	---
Bravo/Concert	Chlorothalonil	0.5	{0.01}	232	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	3	30,467	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	4	19,692	0.004	0.38
Captan/Captec	Captan	50	{6}	23	0.17	0.53
Elast/SYLLIT	Dodine	5	{3}	---	---	---
Elevate	Fenhexamid	10	{7}	4,871	0.01	1.42
Elite/Orius	Tebuconazole	5	{1}	14,657	0.01	1.97
Ferbam	Ferbam	4	{0.01}*	---	---	---
Flint/Gem	Trifloxystrobin	2	3	18,472	0.001	0.11
Fontelis	Penthiopyrad	4	4	2,774	0.02	0.31
Gatten	Flutianil	0.4	{0.01}	---	---	---
Indar	Fenbuconazole	1	1	484	0.003	0.18
Inspire	Difenoconazole	2.5	{0.3}	1,020	0.05	0.06
Luna	Fluopyram	2	2	18,777	0.01	0.34
Misc.	O-phenylphenol	5	{0.01}	---	0.017	0.017
Penbotec	Pyrimethanil	10	{4}	---	---	---
Procure	Triflumizole	1.5	{0.02}	6,347	0.01	0.72
Quash	Metconazole	0.2	0.2	1,952	0.02	0.02
Quintec	Quinoxifen	0.7	{0.3}	9,071	0.0008	0.21
Rally	Myclobutanil	5	{3}	23,124	0.001	0.6
Rhyme	Flutriafol	1.5	{1}	16	---	---

FUNGICIDES: Status of EU MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	EU MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Ridomil	Metalaxyl/ Metalaxyl-M	1	{0.01}	105	---	---
Rovral	Iprodione	20	{0.01}	24,720	0.006	4.7
Scholar	Fludioxonil	5	5	3,391 (T)	0.021	0.41
Switch	Cyprodinil	2	2	164	---	---
Tilt/Orbit	Propiconazole	4	{0.01}	12,437	0.002	0.28
Topsin	Thiophanate-methyl	20	{0.3}	4,404	0.02**	0.32**
Xemium	Fluxapyroxad	3	3	10,735	0.01	0.07
Ziram	Ziram	7	{5}	988	---	---

* Indicates where the EU default MRL of 0.01 ppm applies because no specific MRL has been established.

** Detected as carbendazim

Note: This chart includes pesticide use information from 2017; this is the most current data available.

HERBICIDES: Status of EU MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "----" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	EU MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.05	2,669	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	{0.01}	6,374	---	---
Alion	Indaziflam	0.01	0.01*	3,696	---	---
Casoron	Dichlobenil	0.15	{0.01}	---	---	---
Chateau	Flumioxazin	0.02	0.02	3,775	---	---
Fusilade	Fluazifop-P-butyl	0.05	{0.01}	986	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	0.1	15,961	---	---
Gramoxone	Paraquat dichloride	0.05	{0.02}	10,090	---	---
Kerb	Propyzamide	0.1	{0.02}	---	---	---
Kixor	Saflufenacil	0.03	0.03	1	---	---
Matrix	Rimsulfuron	0.01	0.01	4,369	---	---
Pendulum/Prowl	Pendimethalin	0.1	{0.05}	4,204	---	---
Poast	Sethoxydim	0.2	{0.1}	917	---	---
Princep/Sim-Trol	Simazine	0.25	0.25	8	---	---
Reckon/Rely	Glufosinate-ammonium	0.3	{0.15}	14,145	---	---
Roundup	Glyphosate	0.2	{0.1}	15,549	---	---
Solicam	Norflurazon	0.1	{0.01}*	4	---	---
Spur	Clopyralid	0.5	0.5	---	---	---
Surflan	Oryzalin	0.05	{0.01}	2,146	---	---
Treflan	Trifluralin	0.05	{0.01}	---	---	---
Venue	Pyraflufen-ethyl	0.01	0.02	2,934	---	---
* Indicates where the EU default MRL of 0.01 ppm applies because no specific MRL has been established.						
Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.						

SYNERGISTS/PLANT GROWTH REGULATORS: Status of EU MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	EU MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	0.4	3,335	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	{5}	---	---	---
Forchlorfenuron	Forchlorfenuron	0.01	0.01	---	---	---
Misc.	1-Naphthaleneacetamide	0.1	{0.06}	---	---	---
Misc.	1-Naphthaleneacetic acid	0.1	{0.06}	---	---	---
Piperonyl Butoxide	Piperonyl Butoxide	8 <i>Exempt</i>	---	---	0.017	0.064
* Indicates where the EU default MRL of 0.01 ppm applies because no specific MRL has been established.						
Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.						

VII. South Korean MRL Status

INSECTICIDES: Status of S. Korean MRLs						
<ul style="list-style-type: none"> MRL values listed in red brackets { } are more restrictive than the US MRL value Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs Dashes “---” indicate that no MRL has been established in the market 						
Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Acramite	Bifenazate	2.5	{0.3} Expires Dec 31, 2021	9,204	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	1	5,679	0.002	0.032
Admire/Nuprid	Imidacloprid	3	3 Import Tolerance	7,477	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	{0.07} Pending 0.06 Apr 01, 2020	25,229	---	---
Ambush/Pounce	Permethrin	4	5 Expires Dec 31, 2021	1,158	0.01	0.31
Apollo	Clofentezine	1	{0.2} Expires Dec 31, 2021	2,579	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	3	10	---	---
Asana	Esfenvalerate	3	{0.01}*	2,272	0.014	0.04
Assail	Acetamiprid	1.2	1.5 Import Tolerance	297	0.03	0.18
Avaunt	Indoxacarb	0.9	0.9 Import Tolerance	5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	1 Expires Dec 31, 2021	80	---	---
Belt	Flubendiamide	1.6	2 Import Tolerance	19	---	---
Centaur/Tourismo	Buprofezin	2	{1.9} Import Tolerance	551	---	---

INSECTICIDES: Status of S. Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "----" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	{0.3} Import Tolerance	---	---	---
Danitol	Fenpropathrin	5	5 Import Tolerance	14,409	0.01	2.29
Delegate	Spinetoram	0.3	{0.2} Import Tolerance	1,997	0.01	0.06
Desperado/Nexter	Pyridaben	3	{0.01}* Import Tolerance	---	---	---
Diazinon	Diazinon	0.2	{0.01}* Import Tolerance	425	0.002	0.01
Dimethoate	Dimethoate	2 US Regional	2 Expires Dec 31, 2021	---	---	---
Envidor	Spirodiclofen	1	2	1,297	0.06	0.06
Esteem	Pyriproxyfen	1	{0.2} Expires Dec 31, 2021	962	0.002	0.03
Etofenprox	Etofenprox	5	{1}	---	---	---
Fujimite	Fenpyroximate	2	2 Import Tolerance	3,367	---	---
Fyfanon	Malathion	8	{0.5} Expires Dec 31, 2021	9,181	0.003	0.43
Imidan	Phosmet	10	{0.05} Expires Dec 31, 2021	---	0.005	0.091
Intrepid	Methoxyfenozide	3	{2}	16,496	0.002	0.1
Kanemite	Acequinocyl	1	{0.5}	---	---	---
Lorsban/Dursban	Chlorpyrifos	1	{0.5} Expires Dec 31, 2021	189	---	---
Magister	Fenazaquin	2	2 Import Tolerance	1,797	---	---

INSECTICIDES: Status of S. Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Methyl Bromide	Methyl Bromide	20	20 <i>Expires Dec 31, 2021</i>	202,781 (C)	---	---
Movento	Spirotetramat	4.5	{3} Import Tolerance	2,402	---	---
Mustang	Zeta-Cypermethrin	1	1	7,296	0.02	1
PyGanic	Pyrethrins	1 <i>Exempt</i>	1 <i>Expires Dec 31, 2021</i>	265	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	1 <i>Expires Dec 31, 2021</i>	9	0.03	0.11
Rimon	Novaluron	8	{0.2} <i>Expires Dec 31, 2021</i>	---	---	---
Safari	Dinotefuran	2 <i>US Section 18: Expires Dec 31, 2021</i>	2 <i>Expires Dec 31, 2021</i>	---	---	---
Savey	Hexythiazox	1	{0.1} <i>Expires Dec 31, 2021</i>	4,654	---	---
Sevin	Carbaryl	10	{0.5} <i>Expires Dec 31, 2021</i>	78	0.003	0.84
Sivanto	Flupyradifurone	1.5	1.5 Import Tolerance	162	---	---
Success/Entrust	Spinosad	0.2	0.2 Import Tolerance	9,861	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	{1.5} Import Tolerance	---	---	---
Tolfenpyrad/Hachi Hachi	Tolfenpyrad	2	2 Import Tolerance	---	---	---

INSECTICIDES: Status of S. Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Vendex	Fenbutatin-oxide	6	{5} Expires Dec 31, 2021	121	---	---
Voliam	Chlorantraniliprole	2.5	{0.5}	148	0.01	0.02
Warrior II	Lambda Cyhalothrin	0.5	{0.3} Import Tolerance	39,164	0.01	0.38
Zeal	Etoxazole	1	{0.5}	6,243	0.02	0.02
* Indicates where the Korean default MRL of 0.01 ppm applies because no specific MRL has been established.						
Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.						

FUNGICIDES: Status of S. Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Abound	Azoxystrobin	2	2	2,052	0.0005	0.16
Botran/Britz	Dicloran	20	{10} Expires Dec 31, 2021	---	---	---
Bravo/Concert	Chlorothalonil	0.5	3 Expires Dec 31, 2021	232	---	---
Cabrio/Insignia/ Pageant	Pyraclostrobin	2.5	{2} Import Tolerance	30,467	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	4 Import Tolerance	19,692	0.004	0.38
Captan/Captec	Captan	50	{5} Expires Dec 31, 2021	23	0.17	0.53
Elast/SYLLIT	Dodine	5	{2} Expires Dec 31, 2021	---	---	---
Elevate	Fenhexamid	10	{5}	4,871	0.01	1.42
Elite/Orius	Tebuconazole	5	{4} Import Tolerance	14,657	0.01	1.97
Ferbam	Ferbam	4	{0.2} Expires Dec 31, 2021	---	---	---
Flint/Gem	Trifloxystrobin	2	{0.5}	18,472	0.001	0.11
Fontelis	Penthiopyrad	4	4 Import Tolerance	2,774	0.02	0.31
Gatten	Flutianil	0.4	{0.01}* Pending	---	---	---
Indar	Fenbuconazole	1	2 1 Apr 01, 2020	484	0.003	0.18

FUNGICIDES: Status of S. Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "----" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Inspire	Difenoconazole	2.5	{2} Import Tolerance	1,020	0.05	0.06
Luna	Fluopyram	2	{0.6} Import Tolerance	18,777	0.01	0.34
Misc.	O-phenylphenol	5	{3} Expires Dec 31, 2021	---	0.017	0.017
Penbotec	Pyrimethanil	10	{4} Import Tolerance	---	---	---
Procure	Triflumizole	1.5	1.5 Import Tolerance	6,347	0.01	0.72
Quash	Metconazole	0.2	0.5	1,952	0.02	0.02
Quintec	Quinoxifen	0.7	{0.4} Import Tolerance	9,071	0.0008	0.21
Rally	Myclobutanil	5	{2} Import Tolerance	23,124	0.001	0.6
Ridomil	Metalaxyl/ Metalaxyl-M	1	{0.05} Expires Dec 31, 2021	105	---	---
Rhyme	Flutriafol	1.5	{0.8} Expires Dec 31, 2021	16	---	---
Rovral	Iprodione	20	{10} Expires Dec 31, 2021	24,720	0.006	4.7
Scholar	Fludioxonil	5	5 Import Tolerance	3,391 (T)	0.021	0.41
Switch	Cyprodinil	2	2 Expires Dec 31, 2021	164	---	---
Tilt/Orbit	Propiconazole	4	{2} Import Tolerance	12,437	0.002	0.28

FUNGICIDES: Status of S. Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Topsin	Thiophanate-methyl	20	{15} Import Tolerance	4,404	0.02**	0.32**
Xemium	Fluxapyroxad	3	3 Import Tolerance	10,735	0.01	0.07
Ziram	Ziram	7	{0.2} Expires Dec 31, 2021	988	---	---

* Indicates where the Korean default MRL of 0.01 ppm applies because no specific MRL has been established.

** Detected as carbendazim

Note: This chart includes pesticide use information from 2017; this is the most current data available.

HERBICIDES: Status of S. Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.05 Import Tolerance	2,669	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	0.1 Expires Dec 31, 2021	6,374	---	---
Alion	Indaziflam	0.01	0.01*	3,696	---	---
Casoron	Dichlobenil	0.15	0.15 Expires Dec 31, 2021	---	---	---
Chateau	Flumioxazin	0.02	{0.01}*	3,775	---	---
Fusilade	Fluazifop-P-butyl	0.05	{0.01}*	986	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	0.05 Import Tolerance	15,961	---	---
Gramoxone	Paraquat dichloride	0.05	0.05 Expires Dec 31, 2021	10,090	---	---
Kerb	Propyzamide	0.1	{0.02} Expires Dec 31, 2021	---	---	---
Kixor	Saflufenacil	0.03	0.03 Import Tolerance	1	---	---
Matrix	Rimsulfuron	0.01	0.01*	4,369	---	---
Pendulum/Prowl	Pendimethalin	0.1	{0.05} Import Tolerance	4,204	---	---
Poast	Sethoxydim	0.2	1 Expires Dec 31, 2021	917	---	---
Princep/Sim-Trol	Simazine	0.25	0.25 Expires Dec 31, 2021	8	---	---
Reckon/Rely	Glufosinate-Ammonium	0.3	{0.15} Import Tolerance	14,145	---	---

HERBICIDES: Status of S. Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Roundup	Glyphosate	0.2	{0.05} Expires Dec 31, 2021	15,549	---	---
Solicam	Norflurazon	0.1	0.1 Expires Dec 31, 2021	4	---	---
Spur	Clopyralid	0.5	3 Pending 0.05 Apr 01, 2020	---	---	---
Surflan	Oryzalin	0.05	0.05 Expires Dec 31, 2021	2,146	---	---
Treflan	Trifluralin	0.05	0.05 Expires Dec 31, 2021	---	---	---
Venue	Pyraflufen-ethyl	0.01	0.01*	2,934	---	---

* Indicates where the Korean default MRL of 0.01 ppm applies because no specific MRL has been established.

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

SYNERGISTS/PLANT GROWTH REGULATORS: Status of S. Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	S. Korea MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	{0.05} Expires Dec 31, 2021	3,335	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	{5} Import Tolerance	---	---	---
Forchlorfenuron	Forchlorfenuron	0.01	0.05 Expires Dec 31, 2021	---	---	---
Misc.	1-Naphthaleneacetamide	0.1	{0.01}*	---	---	---
Misc.	1-Naphthaleneacetic acid	0.1	{0.01}*	---	---	---
Piperonyl Butoxide	Piperonyl Butoxide	8 Exempt	{0.2} Expires Dec 31, 2021	---	0.017	0.064

* Indicates where the Korean default MRL of 0.01 ppm applies because no specific MRL has been established.

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

VIII. Taiwanese MRL Status

INSECTICIDES: Status of Taiwanese MRLs						
<ul style="list-style-type: none"> MRL values listed in red brackets { } are more restrictive than the US MRL value Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs Dashes "---" indicate that no MRL has been established in the market 						
Trade Name	Common Name	US MRL (ppm)	Taiwan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Acramite	Bifenazate	2.5	{2}	9,204	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	0.5	5,679	0.002	0.032
Admire/Nuprid	Imidacloprid	3	{2}	7,477	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	0.09	25,229	---	---
Ambush/Pounce	Permethrin	4	{2}	1,158	0.01	0.31
Apollo	Clofentezine	1	{0.5}	2,579	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	{0.01}	10	---	---
Asana	Esfenvalerate	3	{1}	2,272	0.014	0.04
Assail	Acetamiprid	1.2	{1}	297	0.03	0.18
Avaunt	Indoxacarb	0.9	{0.5}	5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	{0.01}	80	---	---
Belt	Flubendiamide	1.6	{1}	19	---	---
Centaur/Tourismo	Buprofezin	2	{1.5}	551	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	{0.4}	---	---	---
Danitol	Fenpropathrin	5	5	14,409	0.01	2.29
Delegate	Spinetoram	0.3	{0.2}	1,997	0.01	0.06
Desperado/Nexter	Pyridaben	3	{0.5}	---	---	---
Diazinon	Diazinon	0.2	1	425	0.002	0.01
Dimethoate	Dimethoate	2 US Regional	---	---	---	---

INSECTICIDES: Status of Taiwanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Taiwan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Envidor	Spirodiclofen	1	{0.8}	1,297	0.06	0.06
Esteem	Pyriproxyfen	1	{0.5}	962	0.002	0.03
Etofenprox	Etofenprox	5	---	---	---	---
Fujimite	Fenpyroximate	2	{0.3}	3,367	---	---
Fyfanon	Malathion	8	{0.5}	9,181	0.003	0.43
Imidan	Phosmet	10	{2}	---	0.005	0.091
Intrepid	Methoxyfenozide	3	{2}	16,496	0.002	0.1
Kanemite	Acequinocyl	1	{0.5}	---	---	---
Lorsban/Dursban	Chlorpyrifos	1	1	189	---	---
Magister	Fenazaquin	2	{0.5}	1,797	---	---
Methyl Bromide	Methyl Bromide	20	---	202,781 (C)	---	---
Movento	Spirotetramat	4.5	{3}	2,402	---	---
Mustang	Zeta-Cypermethrin	1	2	7,296	0.02	1
PyGanic	Pyrethrins	1 <i>Exempt</i>	---	265	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	{0.01}	9	0.03	0.11
Rimon	Novaluron	8	{2}	---	---	---
Safari	Dinotefuran	2 US Section 18: Expires Dec 31, 2021	{1}	---	---	---
Savey	Hexythiazox	1	1	4,654	---	---
Sevin	Carbaryl	10	{0.5}	78	0.003	0.84
Sivanto	Flupyradifurone	1.5	{1}	162	---	---
Success/Entrust	Spinosad	0.2	0.2	9,861	0.005	0.17

INSECTICIDES: Status of Taiwanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes “---” indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Taiwan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Sulfoxaflor	Sulfoxaflor	3	---	---	---	---
Tolfenpyrad/Hachi Hachi	Tolfenpyrad	2	{0.01}	---	---	---
Vendex	Fenbutatin-oxide	6	{2}	121	---	---
Voliam	Chlorantraniliprole	2.5	{1}	148	0.01	0.02
Warrior II	Lambda Cyhalothrin	0.5	{0.4}	39,164	0.01	0.38
Zeal	Ettoxazole	1	1	6,243	0.02	0.02

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

FUNGICIDES: Status of Taiwanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the US MRL value
- Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs
- Dashes "---" indicate that no MRL has been established in the market

Trade Name	Common Name	US MRL (ppm)	Taiwan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Abound	Azoxystrobin	2	{1}	2,052	0.0005	0.16
Botran/Britz	Dicloran	20	{5}	---	---	---
Bravo/Concert	Chlorothalonil	0.5	0.5	232	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	{1}	30,467	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	{1.7}	19,692	0.004	0.38
Captan/Captec	Captan	50	{25}	23	0.17	0.53
Elast/SYLLIT	Dodine	5	{2}	---	---	---
Elevate	Fenhexamid	10	{7}	4,871	0.01	1.42
Elite/Orius	Tebuconazole	5	{2}	14,657	0.01	1.97
Ferbam	Ferbam	4	{2.5}	---	---	---
Flint/Gem	Trifloxystrobin	2	3	18,472	0.001	0.11
Fontelis	Penthiopyrad	4	4	2,774	0.02	0.31
Gatten	Flutianil	0.4	---	---	---	---
Indar	Fenbuconazole	1	1	484	0.003	0.18
Inspire	Difenoconazole	2.5	{1}	1,020	0.05	0.06
Luna	Fluopyram	2	{0.7}	18,777	0.01	0.34
Misc.	O-phenylphenol	5	---	---	0.017	0.017
Penbotec	Pyrimethanil	10	{4}	---	---	---
Procure	Triflumizole	1.5	{1}	6,347	0.01	0.72
Quash	Metconazole	0.2	0.2	1,952	0.02	0.02
Quintec	Quinoxifen	0.7	{0.4}	9,071	0.0008	0.21
Rally	Myclobutanil	5	{1}	23,124	0.001	0.6
Rhyme	Flutriafol	1.5	{1}	16	---	---

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Trade Name	Common Name	US MRL (ppm)	Taiwan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Ridomil	Metalaxyl/ Metalaxyl-M	1	{0.2}	105	---	---
Rovral	Iprodione	20	{5}	24,720	0.006	4.7
Scholar	Fludioxonil	5	5	3,391 (T)	0.021	0.41
Switch	Cyprodinil	2	2	164	---	---
Tilt/Orbit	Propiconazole	4	{1}	12,437	0.002	0.28
Topsin	Thiophanate-methyl	20	{5}	4,404	0.02**	0.32**
Xemium	Fluxapyroxad	3	{2}	10,735	0.01	0.07
Ziram	Ziram	7	{2.5}	988	---	---
** Detected as carbendazim						
Note: This chart includes pesticide use information from 2017; this is the most current data available.						

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Trade Name	Common Name	US MRL (ppm)	Taiwan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.2	2,669	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	0.1	6,374	---	---
Alion	Indaziflam	0.01	---	3,696	---	---
Casoron	Dichlobenil	0.15	---	---	---	---
Chateau	Flumioxazin	0.02	---	3,775	---	---
Fusilade	Fluazifop-P-butyl	0.05	{0.01}	986	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	{0.03}	15,961	---	---
Gramoxone	Paraquat dichloride	0.05	{0.01}	10,090	---	---
Kerb	Propyzamide	0.1	---	---	---	---
Kixor	Saflufenacil	0.03	{0.01}	1	---	---
Matrix	Rimsulfuron	0.01	---	4,369	---	---
Pendulum/Prowl	Pendimethalin	0.1	{0.01}	4,204	---	---
Poast	Sethoxydim	0.2	0.2	917	---	---
Princep/Sim-Trol	Simazine	0.25	---	8	---	---
Reckon/Rely	Glufosinate-ammonium	0.3	{0.1}	14,145	---	---
Roundup	Glyphosate	0.2	0.2	15,549	---	---
Solicam	Norflurazon	0.1	---	4	---	---
Spur	Clopyralid	0.5	---	---	---	---
Surflan	Oryzalin	0.05	---	2,146	---	---
Treflan	Trifluralin	0.05	{0.01}	---	---	---
Venue	Pyraflufen-ethyl	0.01	---	2,934	---	---

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

SYNERGISTS/PLANT GROWTH REGULATORS: Status of Taiwanese MRLs

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Trade Name	Common Name	US MRL (ppm)	Taiwan MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	0.4	3,335	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	{3}	---	---	---
Forchlorfenuron	Forchlorfenuron	0.01	---	---	---	---
Misc.	1-Naphthaleneacetamide	0.1	---	---	---	---
Misc.	1-Naphthaleneacetic acid	0.1	--- <i>Exempt</i>	---	---	---
Piperonyl Butoxide	Piperonyl Butoxide	8 <i>Exempt</i>	---	---	0.017	0.064

Note: This chart includes pesticide use information from 2017; this is the most recent data that is currently available.

IX. Australian MRL Status

INSECTICIDES: Status of Australian MRLs						
<ul style="list-style-type: none"> MRL values listed in red brackets { } are more restrictive than the US MRL value Cells shaded in yellow indicate actual residues detected in USDA and industry tests higher than foreign MRLs Dashes "---" indicate that no MRL has been established in the market 						
Trade Name	Common Name	US MRL (ppm)	Australia MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Acramite	Bifenazate	2.5	2.5	9,204	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	0.5	5,679	0.002	0.032
Admire/Nuprid	Imidacloprid	3	3	7,477	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	0.09	25,229	---	---
Ambush/Pounce	Permethrin	4	4	1,158	0.01	0.31
Apollo	Clofentezine	1	1	2,579	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	0.6	10	---	---
Asana	Esfenvalerate	3	{0.05}	2,272	0.014	0.04
Assail	Acetamiprid	1.2	2	297	0.03	0.18
Avaunt	Indoxacarb	0.9	1	5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	0.3	80	---	---
Belt	Flubendiamide	1.6	1.6	19	---	---
Centaur/Tourismo	Buprofezin	2	{1.9}	551	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	0.5	---	---	---
Danitol	Fenpropathrin	5	5	14,409	0.01	2.29
Delegate	Spinetoram	0.3	{0.2}	1,997	0.01	0.06
Desperado/Nexter	Pyridaben	3	{0.5}	---	---	---
Diazinon	Diazinon	0.2	0.5	425	0.002	0.01
Dimethoate	Dimethoate	2 US Regional	{0.2}	---	---	---
Envidor	Spirodiclofen	1	1	1,297	0.06	0.06

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Trade Name	Common Name	US MRL (ppm)	Australia MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Esteem	Pyriproxyfen	1	1	962	0.002	0.03
Etofenprox	Etofenprox	5	---	---	---	---
Fujimite	Fenpyroximate	2	2	3,367	---	---
Fyfanon	Malathion	8	8	9,181	0.003	0.43
Imidan	Phosmet	10	{0.05}	---	0.005	0.091
Intrepid	Methoxyfenozide	3	3	16,496	0.002	0.1
Kanemite	Acequinocyl	1	{0.5}	---	---	---
Lorsban/Dursban	Chlorpyrifos	1	1	189	---	---
Magister	Fenazaquin	2	2	1,797	---	---
Methyl Bromide	Methyl Bromide	20	20	202,781 (C)	---	---
Movento	Spirotetramat	4.5	4.5	2,402	---	---
Mustang	Zeta-Cypermethrin	1	2	7,296	0.02	1
PyGanic	Pyrethrins	1 <i>Exempt</i>	1	265	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	0.3	9	0.03	0.11
Rimon	Novaluron	8	8	---	---	---
Safari	Dinotefuran	2 US Section 18: Expires Dec 31, 2021	{0.02}	---	---	---
Savey	Hexythiazox	1	1	4,654	---	---
Sevin	Carbaryl	10	{0.02}	78	0.003	0.84
Sivanto	Flupyradifurone	1.5	1.5	162	---	---
Success/Entrust	Spinosad	0.2	1	9,861	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	3	---	---	---
Tolfenpyrad/Hachi Hachi	Tolfenpyrad	2	---	---	---	---

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Trade Name	Common Name	US MRL (ppm)	Australia MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Vendex	Fenbutatin-oxide	6	6	121	---	---
Voliam	Chlorantraniliprole	2.5	2.5	148	0.01	0.02
Warrior II	Lambda Cyhalothrin	0.5	0.5	39,164	0.01	0.38
Zeal	Etoxazole	1	1	6,243	0.02	0.02

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Trade Name	Common Name	US MRL (ppm)	Australia MRL (ppm)	2017 CA Acreage	2007-2019 Residue Testing Results (Low)	2007-2019 Residue Testing Results (High)
Abound	Azoxystrobin	2	{1.5}	2,052	0.0005	0.16
Botran/Britz	Dicloran	20	---	---	---	---
Bravo/Concert	Chlorothalonil	0.5	10	232	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	3	30,467	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	4	19,692	0.004	0.38
Captan/Captec	Captan	50	{15}	23	0.17	0.53
Elast/SYLLIT	Dodine	5	{3}	---	---	---
Elevate	Fenhexamid	10	10	4,871	0.01	1.42
Elite/Orius	Tebuconazole	5	5	14,657	0.01	1.97
Ferbam	Ferbam	4	{3}	---	---	---
Flint/Gem	Trifloxystrobin	2	5	18,472	0.001	0.11
Fontelis	Penthiopyrad	4	5	2,774	0.02	0.31
Gatten	Flutianil	0.4	---	---	---	---
Indar	Fenbuconazole	1	{0.02}	484	0.003	0.18
Inspire	Difenoconazole	2.5	2.5	1,020	0.05	0.06
Luna	Fluopyram	2	3	18,777	0.01	0.34
Misc.	O-phenylphenol	5	{0.1}	---	0.017	0.017
Penbotec	Pyrimethanil	10	10	---	---	---
Procure	Triflumizole	1.5	1.5	6,347	0.01	0.72
Quash	Metconazole	0.2	0.2	1,952	0.02	0.02
Quintec	Quinoxifen	0.7	0.7	9,071	0.0008	0.21
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Misc.	1-Naphthaleneacetamide	0.1	---	---	---	---
Misc.	1-Naphthaleneacetic acid	0.1	---	---	---	---
Piperonyl Butoxide	Piperonyl Butoxide	8 <i>Exempt</i>	8	---	0.017	0.064

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