



BRYANT CHRISTIE INC.
GLOBAL SOLUTIONS

January 31, 2018

To: California Cherry Exporters
cc: Chris Zanobini
From: Bryant Christie Inc.
Re: 2018 International Cherry MRL Memo

On behalf of the California Cherry Board

As the 2018 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 information within this memo is considered accurate as of January 24, 2018, shippers are reminded that international MRLs can change frequently and it is the responsibility of the shipper to work with importers to ensure that product is compliant with foreign regulations. The very latest MRLs appear at www.globalmrl.com.

Bryant Christie Inc. hopes this memo will be useful to California cherry shippers and wishes the industry success in the 2018 season.

2018 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 that applying these pesticides does not automatically mean that 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 bolded 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 below tables 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
Etofenprox	Etofenprox	Taiwan
Fontelis	Penthiopyrad	South Korea
Fyfanon	Malathion	EU
Imidan	Phosmet	South Korea
Misc.	O-phenylphenol	Taiwan
Mustang	Zeta-Cypermethrin	Canada
Piperonyl butoxide (PBO)	Piperonyl butoxide	EU, South Korea, Taiwan
PyGanic	Pyrethrins	Taiwan
Renounce/Tombstone	Cyfluthrin	Canada, Taiwan
Sevin	Carbaryl	EU, Taiwan, South Korea
Tilt/Orbit	Propiconazole	EU
Topsin	Thiophanate-methyl	EU

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. MRLs are updated through January 24, 2018.

Pesticide MRLs for SWD Insecticides in Major CA Cherry Export Markets								
MRL values listed in bold red brackets, { } , are more restrictive than the US MRL value. All values listed in parts per million (ppm).								
Trade Name	Common Name	US MRL	Canada MRL	Japan MRL	S. Korea MRL	Taiwan MRL	EU MRL	Australia MRL
Actara/Voliam Flexi	Thiamethoxam	0.5	0.5	5	1	0.5	0.6	0.5
Ambush/Pounce	Permethrin	4	{0.1} *	5	5 [†]	{2}	{0.05}	4
Asana	Esfenvalerate	3	{0.1} *	{2}	---	{1}	{0.02}	{0.05}
Assail	Acetamiprid	1.2	1.2	5	{0.2}	{1}	1.5	{1}
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	{0.1} *	1	1 [†]	{0.01}	{0.2}	0.3
Danitol	Fenpropathrin	5	5	5	5	5	{0.01}	5
Delegate	Spinetoram	0.3	1	0.5	{0.2}	{0.2}	2	{0.2}
Diazinon	Diazinon	0.2	0.75	{0.1}	1	1	{0.01}	0.5
Fyfanon	Malathion	8	{6}	{6}	{0.5} [†]	{0.5}	{0.02}	8
Mustang	Zeta-Cypermethrin	1	{0.1} *	2	1 [†]	2	2	1
PyGanic	Pyrethrins	1 (Exempt)	1	1	1 [†]	{0.01}	1	1
Renounce/Tombstone	Cyfluthrin	0.3	{0.1} *	1	1 [†]	{0.01}	{0.2}	0.3
Sevin	Carbaryl	10	10	10	{0.5}	{0.5}	{0.01}	---
Success/Entrust	Spinosad	0.2	1	0.2	0.2	0.2	0.2	1
Warrior II	Lambda Cyhalothrin	0.5	0.5	0.5	0.5 [†]	{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)								
"---" Indicates there is no applicable cherry MRL. While policies differ from country to country, this generally indicates that residues are not allowed.								
† Indicates MRL will expire on December 31, 2020 as part of Korea's transition to a positive list system.								

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	Included in 2014 Canada pesticide screen?	Included in 2017 Japan pesticide screen?	Included in 2017 Korea pesticide screen?	Included in 2017 Taiwan pesticide screen?	Included in 2017 UK pesticide screen?	Included in 2015 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		
Actara/Voliam Flexi	Thiamethoxam	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Admire/Nuprid	Imidacloprid	Insecticide	Yes	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
Apogee	Prohexadione calcium	Growth Regulator		Yes	Yes			
Apollo	Clofentezine	Insecticide		Yes	Yes	Yes	Yes	

Status of CA Cherry Pesticides in Foreign Screen Programs

Trade Name	Common Name	Pesticide Type	Included in 2014 Canada pesticide screen?	Included in 2017 Japan pesticide screen?	Included in 2017 Korea pesticide screen?	Included in 2017 Taiwan pesticide screen?	Included in 2017 UK pesticide screen?	Included in 2015 Australia pesticide screen?
Aria/Beleaf/Carbine	Flonicamid	Insecticide		Yes	Yes	Yes	Yes	
Asana	Esfenvalerate	Insecticide	Yes		Yes	Yes		
Assail	Acetamiprid	Insecticide	Yes	Yes	Yes	Yes	Yes	
Avaunt	Indoxacarb	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Baythroid XL/Leverage	Beta-cyfluthrin	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Belt	Flubendiamide	Insecticide		Yes	Yes	Yes	Yes	
Boll'd/CERONE/Ethephon	Ethephon	Growth Regulator		Yes	Yes			
Botran/Britz	Dicloran	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Bravo/Concert	Chlorothalonil	Fungicide	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	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
Danitol	Fenpropathrin	Insecticide	Yes	Yes	Yes	Yes	Yes	
Delegate	Spinetoram	Insecticide			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	
Elevate	Fenhexamid	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Elite/Orius	Tebuconazole	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes

Status of CA Cherry Pesticides in Foreign Screen Programs

Trade Name	Common Name	Pesticide Type	Included in 2014 Canada pesticide screen?	Included in 2017 Japan pesticide screen?	Included in 2017 Korea pesticide screen?	Included in 2017 Taiwan pesticide screen?	Included in 2017 UK pesticide screen?	Included in 2015 Australia pesticide screen?
Envidor	Spirodiclofen	Insecticide	Yes	Yes	Yes	Yes	Yes	
Esteem	Pyriproxyfen	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Flint/Gem	Trifloxystrobin	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Fontelis	Penthiopyrad	Fungicide			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	Yes
Gramoxone	Paraquat dichloride	Herbicide		Yes	Yes			
Guthion	Azinphos-methyl	Insecticide	Yes	Yes	Yes	Yes	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	
Kelthane	Dicofol	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Kerb	Propyzamide	Herbicide	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	
Matrix	Rimsulfuron	Herbicide			Yes			
Merivon	Fluxapyroxad	Fungicide			Yes	Yes	Yes	
Methyl Bromide	Methyl Bromide	Insecticide			Yes			
Misc.	1-Naphthaleneacetamide	Growth Regulator						
Misc.	1-Naphthaleneacetic acid	Growth Regulator		Yes				

Status of CA Cherry Pesticides in Foreign Screen Programs

Trade Name	Common Name	Pesticide Type	Included in 2014 Canada pesticide screen?	Included in 2017 Japan pesticide screen?	Included in 2017 Korea pesticide screen?	Included in 2017 Taiwan pesticide screen?	Included in 2017 UK pesticide screen?	Included in 2015 Australia pesticide screen?
Misc.	Ferbam	Fungicide						
Misc.	Flutriafol	Fungicide	Yes	Yes	Yes	Yes	Yes	
Misc.	O-phenylphenol	Fungicide	Yes	Yes	Yes	yes		Yes
Movento	Spirotetramat	Insecticide	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	Yes
Poast	Sethoxydim	Herbicide		Yes	Yes	Yes		Yes
Princep/Sim-Trol	Simazine	Herbicide	Yes	Yes	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
Renounce/Tombstone	Cyfluthrin	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Ridomil	Metalaxyl/Metalaxyl-M	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Rimon	Novaluron	Insecticide		Yes	Yes	Yes	Yes	
Roundup	Glyphosate	Herbicide		Yes	Yes			
Rovral	Iprodione	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Rubigan	Fenarimol	Fungicide	Yes	Yes	Yes	Yes	Yes	Yes
Savey	Hexythiazox	Insecticide		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	Included in 2014 Canada pesticide screen?	Included in 2017 Japan pesticide screen?	Included in 2017 Korea pesticide screen?	Included in 2017 Taiwan pesticide screen?	Included in 2017 UK pesticide screen?	Included in 2015 Australia pesticide screen?
Solicam	Norflurazon	Herbicide	Yes	Yes	Yes	Yes		
Spur	Clopyralid	Herbicide				Yes		
Success/Entrust	Spinosad	Insecticide	Yes	Yes	Yes	Yes	Yes	Yes
Supracide	Methidathion	Insecticide	Yes	Yes	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
Topsin	Thiophanate-methyl	Fungicide	Yes	Yes*	Yes		Yes	
Treflan	Trifluralin	Herbicide	Yes	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
Zeal	Etoxazole	Insecticide	Yes	Yes	Yes	Yes	Yes	
Ziram	Ziram	Fungicide						

* Tested for as carbaryl

IV. Canadian MRL Status

INSECTICIDES: Status of Canadian MRLs						
<ul style="list-style-type: none"> • MRL values listed in bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Acramite	Bifenazate	2.5	2.5	3,631.74	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	0.5	6,672.05	0.002	0.032
Admire/Nuprid	Imidacloprid	3	3	7,920.55	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	0.09	22,026.29	---	---
Ambush/Pounce	Permethrin	4	{0.1} *	743	0.01	0.31
Apollo	Clofentezine	1	{0.1} *	527.18	---	---
Aria/Beleaf/Carbine	Fonicamid	0.6	0.6	-	---	---
Asana	Esfenvalerate	3	{0.1} *	2,587.29	0.014	0.04
Assail	Acetamiprid	1.2	1.2	629.6	0.03	0.18
Avaunt	Indoxacarb	0.9	{0.1} *	39.5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	{0.1} *	591.3	---	---
Belt	Flubendiamide	1.6	2	268.15	---	---
Centaur/Tourismo	Buprofezin	1.9	2	249.1	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	{0.1} *	---	---	---
Danitol	Fenpropathrin	5	5	12,331.66	0.01	1.86
Delegate	Spinetoram	0.3	1	1,796.40	0.01	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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Desperado/Nexter	Pyridaben	3	3	---	---	---
Diazinon	Diazinon	0.2	0.75	1,066.84	0.002	0.01
Dimethoate	Dimethoate	2 <i>US Regional</i>	2	---	---	---
Envidor	Spirodiclofen	1	1	1,081.44	0.06	0.06
Esteem	Pyriproxyfen	1	1.5	1,021.19	0.002	0.03
Etofenprox	Etofenprox	5	{0.1} *	---	---	---
Fujimite	Fenpyroximate	2	2	3,352.18	---	---
Fyfanon	Malathion	8	{6}	11,475.36	0.003	0.43
Imidan	Phosmet	10	{7}	8	0.005	0.091
Intrepid	Methoxyfenozide	3	6	13,579.01	0.002	0.08
Kanemite	Acequinocyl	1	{0.1} *	8	---	---
Lorsban/Dursban	Chlorpyrifos	1	{0.1} *	263.91	---	---
Methyl Bromide	Methyl Bromide	20	{0.1} *	13,837.84 (lbs. applied)	---	---
Movento	Spirotetramat	4.5	4.5	5,654.10	---	---
Mustang	Zeta-Cypermethrin	1	{0.1} *	6,186.98	0.02	1
PyGanic	Pyrethrins	1 <i>Exempt</i>	1	245.84	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	{0.1} *	---	0.03	0.11
Rimon	Novaluron	8	8	---	---	---

INSECTICIDES: Status of Canadian MRLs

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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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Safari	Dinotefuran	2 <small>US Section 18: Expires Dec 31, 2018</small>	{0.1} *	---	---	---
Savey	Hexythiazox	1	1	4,426.83	---	---
Sevin	Carbaryl	10	10	114	0.003	0.84
Success/Entrust	Spinosad	0.2	1	9,167.58	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	3	---	---	---
Tolfenpyrad	Tolfenpyrad	2	2	---	---	---
Vendex	Fenbutatin-oxide	6	{0.1} *	-	---	---
Voliam	Chlorantraniliprole	2.5	2.5	282.68	---	---
Warrior II	Lambda Cyhalothrin	0.5	0.5	37,596.47	0.01	0.3
Zeal	Etoxazole	1	1	4,750.24	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 2015; this is the most recent data that is currently available.						

FUNGICIDES: Status of Canadian MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Abound	Azoxystrobin	2	2	1207.54	0.0005	0.16
Botran/Britz	Dicloran	20	{15}	---	---	---
Bravo/Concert	Chlorothalonil	0.5	0.5	426.03	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	2.5	25,793.38	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	{1.7}	24,621.98	0.004	0.38
Captan/Captec	Captan	50	{5}	---	0.17	0.53
Elast/SYLLIT	Dodine	5	{2}	---	---	---
Elevate	Fenhexamid	10	{6}	1,983.20	0.01	1.21
Elite/Orius	Tebuconazole	5	{3}	14,730.79	0.01	1.97
Flint/Gem	Trifloxystrobin	2	2	5,111.14	0.001	0.11
Fontelis	Penthiopyrad	4	4	1,360.00	0.02	0.31
Indar	Fenbuconazole	1	{0.8}	501.31	0.003	0.18
Inspire	Difenoconazole	2.5	2.5	528.3	0.05	0.06
Luna	Fluopyram	2	2	3,925.80	0.01	0.34
Misc.	Ferbam	4	7	---	---	---
Misc.	Flutriafol	1.5	1.5	---	---	---
Misc.	O-phenylphenol	5	5	---	0.017	0.017
Penbotec	Pyrimethanil	10	10	---	---	---
Procure	Triflumizole	1.5	1.5	11,657.21	0.01	0.72
Quash	Metconazole	0.2	0.2	629.09	0.02	0.02

FUNGICIDES: 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Quintec	Quinoxifen	0.7	0.7	15,502.06	0.0008	0.21
Rally	Myclobutanil	5	{1}	22,885.28	0.001	0.6
Ridomil	Metalaxyl/ Metalaxyl-M	1	1	70	---	---
Rovral	Iprodione	20	{5}	22,969.02	0.006	4.7
Scholar	Fludioxonil	5	5	15842	0.021	0.41
Switch	Cyprodinil	2	2	40	---	---
Tilt/Orbit	Propiconazole	4	4	10,759.14	0.002	0.28
Topsin	Thiophanate-methyl	20	{5}	3,982.91	0.02**	0.32**
Xemium	Fluxapyroxad	3	3	1096.4	0.01	0.05
Ziram	Ziram	7	7	375.7	---	---
* 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 2015; this is the most recent data that is currently available.						

HERBICIDES: Status of Canadian MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.05	2,421.71	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	0.1	7,716.09	---	---
Alion	Indaziflam	0.01	0.01	3,458.74	---	---
Casoron	Dichlobenil	0.15	{0.1}*	---	---	---
Chateau	Flumioxazin	0.02	0.02	2,453.88	---	---
Fusilade	Fluazifop-P-butyl	0.05	0.05	1120.86	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	0.1*	18,362.81	---	---
Gramoxone	Paraquat dichloride	0.05	0.05	12,867.45	---	---
Kerb	Propyzamide	0.1	0.1*	---	---	---
Kixor	Saflufenacil	0.03	0.03	---	---	---
Matrix	Rimsulfuron	0.01	0.1*	4,543.90	---	---
Pendulum/Prowl	Pendimethalin	0.1	0.1	5,215.79	---	---
Poast	Sethoxydim	0.2	{0.1}*	450.62	---	---
Princep/Sim-Trol	Simazine	0.25	{0.1}*	64.5	---	---
Reckon/Rely	Glufosinate-ammonium	0.25	{0.2}	12020.37	---	---
Roundup	Glyphosate	0.2	{0.1}*	35482.97 (lbs applied)	---	---
Solicam	Norflurazon	0.1	0.1*	---	---	---
Spur	Clopyralid	0.5	0.5	---	---	---
Surflan	Oryzalin	0.05	0.1*	1,974.36	---	---
Treflan	Trifluralin	0.05	0.05	16	---	---
Venue	Pyraflufen-ethyl	0.01	0.1*	4,393.09	---	---

* 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 2015; this is the most recent data that is currently available.

SYNERGISTS/PLANT GROWTH REGULATORS: Status of Canadian MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	0.4	3,522.37	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	{8}	11	---	---
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 <small>Exempt</small>	8	19.21	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 2015; 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 bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Acramite	Bifenazate	2.5	{2}	3,631.74	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	5	6,672.05	0.002	0.032
Admire/Nuprid	Imidacloprid	3	{2}	7,920.55	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	0.09	22,026.29	---	---
Ambush/Pounce	Permethrin	4	5	743	0.01	0.31
Apollo	Clofentezine	1	{0.5}	527.18	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	2	-	---	---
Asana	Esfenvalerate	3	{2}	2,587.29	0.014	0.04
Assail	Acetamiprid	1.2	5	629.6	0.03	0.18
Avaunt	Indoxacarb	0.9	0.9	39.5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	1	591.3	---	---
Belt	Flubendiamide	1.6	2	268.15	---	---
Centaur/Tourismo	Buprofezin	1.9	5	249.1	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	{0.01} *	---	---	---
Danitol	Fenpropathrin	5	5	12,331.66	0.01	1.86
Delegate	Spinetoram	0.3	0.5	1,796.40	0.01	0.06

INSECTICIDES: Status of Japanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Desperado/Nexter	Pyridaben	3	{0.7}	---	---	---
Diazinon	Diazinon	0.2	{0.1}	1,066.84	0.002	0.01
Dimethoate	Dimethoate	2 <small>US Regional</small>	2	---	---	---
Envidor	Spirodiclofen	1	3	1,081.44	0.06	0.06
Esteem	Pyriproxyfen	1	1	1,021.19	0.002	0.03
Etofenprox	Etofenprox	5	{0.01} *	---	---	---
Fujimite	Fenpyroximate	2	{0.7}	3,352.18	---	---
Fyfanon	Malathion	8	{6}	11,475.36	0.003	0.43
Imidan	Phosmet	10	{0.1}	8	0.005	0.091
Intrepid	Methoxyfenozide	3	{2}	13,579.01	0.002	0.08
Kanemite	Acequinocyl	1	2	8	---	---
Lorsban/Dursban	Chlorpyrifos	1	1	263.91	---	---
Methyl Bromide	Methyl Bromide	20	20	13,837.84 (lbs. applied)	---	---
Movento	Spirotetramat	4.5	{3}	5,654.10	---	---
Mustang	Zeta-Cypermethrin	1	2	6,186.98	0.02	1
PyGanic	Pyrethrins	1 <small>Exempt</small>	1	245.84	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	1	---	0.03	0.11
Rimon	Novaluron	8	{7}	---	---	---

INSECTICIDES: Status of Japanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Safari	Dinotefuran	2 <small>US Section 18: Expires Dec 31, 2018</small>	10	---	---	---
Savey	Hexythiazox	1	1	4,426.83	---	---
Sevin	Carbaryl	10	10	114	0.003	0.84
Success/Entrust	Spinosad	0.2	0.2	9,167.58	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	3	---	---	---
Tolfenpyrad	Tolfenpyrad	2	{0.01} *	---	---	---
Vendex	Fenbutatin-oxide	6	10	-	---	---
Voliam	Chlorantraniliprole	2.5	{1}	282.68	---	---
Warrior II	Lambda Cyhalothrin	0.5	0.5	37,596.47	0.01	0.3
Zeal	Etoxazole	1	1	4,750.24	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 2015; this is the most recent data that is currently available.

FUNGICIDES: Status of Japanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Abound	Azoxystrobin	2	3	1207.54	0.0005	0.16
Botran/Britz	Dicloran	20	{10}	---	---	---
Bravo/Concert	Chlorothalonil	0.5	0.5	426.03	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	3	25,793.38	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	{3}	24,621.98	0.004	0.38
Captan/Captec	Captan	50	{5}	---	0.17	0.53
Elast/SYLLIT	Dodine	5	{3}	---	---	---
Elevate	Fenhexamid	10	10	1,983.20	0.01	1.21
Elite/Orius	Tebuconazole	5	5	14,730.79	0.01	1.97
Flint/Gem	Trifloxystrobin	2	3	5,111.14	0.001	0.11
Fontelis	Penthiopyrad	4	5	1,360.00	0.02	0.31
Indar	Fenbuconazole	1	1	501.31	0.003	0.18
Inspire	Difenoconazole	2.5	3	528.3	0.05	0.06
Luna	Fluopyram	2	5	3,925.80	0.01	0.34
Misc.	Ferbam	4	7	---	---	---
Misc.	Flutriafol	1.5	{0.01} *	---	---	---
Misc.	O-phenylphenol	5	{2}	---	0.017	0.017
Penbotec	Pyrimethanil	10	10	---	---	---
Procure	Triflumizole	1.5	3	11,657.21	0.01	0.72
Quash	Metconazole	0.2	0.2	629.09	0.02	0.02

FUNGICIDES: Status of Japanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Quintec	Quinoxifen	0.7	{0.4}	15,502.06	0.0008	0.21
Rally	Myclobutanil	5	{2}	22,885.28	0.001	0.6
Ridomil	Metalaxyl/ Metalaxyl-M	1	{0.2}	70	---	---
Rovral	Iprodione	20	{10}	22,969.02	0.006	4.7
Scholar	Fludioxonil	5	5	15842	0.021	0.41
Switch	Cyprodinil	2	2	40	---	---
Tilt/Orbit	Propiconazole	4	{1}	10,759.14	0.002	0.28
Topsin	Thiophanate-methyl	20	{3}	3,982.91	0.02**	0.32**
Xemium	Fluxapyroxad	3	3	1096.4	0.01	0.05
Ziram	Ziram	7	7	375.7	---	---
* 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 2015; this is the most current data available.						

HERBICIDES: Status of Japanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.2	2,421.71	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	0.1	7,716.09	---	---
Alion	Indaziflam	0.01	0.01*	3,458.74	---	---
Casoron	Dichlobenil	0.15	{0.01} *	---	---	---
Chateau	Flumioxazin	0.02	0.02	2,453.88	---	---
Fusilade	Fluazifop-P-butyl	0.05	{0.01} *	1120.86	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	0.05	18,362.81	---	---
Gramoxone	Paraquat dichloride	0.05	0.05	12,867.45	---	---
Kerb	Propyzamide	0.1	{0.01} *	---	---	---
Kixor	Saflufenacil	0.03	0.03	---	---	---
Matrix	Rimsulfuron	0.01	0.01*	4,543.90	---	---
Pendulum/Prowl	Pendimethalin	0.1	{0.05}	5,215.79	---	---
Poast	Sethoxydim	0.2	1	450.62	---	---
Princep/Sim-Trol	Simazine	0.25	{0.2}	64.5	---	---
Reckon/Rely	Glufosinate-ammonium	0.25	0.3	12020.37	---	---
Roundup	Glyphosate	0.2	0.2	35482.97 (lbs applied)	---	---
Solicam	Norflurazon	0.1	0.1	---	---	---
Spur	Clopyralid	0.5	0.5	---	---	---
Surflan	Oryzalin	0.05	0.08	1,974.36	---	---
Treflan	Trifluralin	0.05	0.05	16	---	---
Venue	Pyraflufen-ethyl	0.01	0.02	4,393.09	---	---

* 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 2015; this is the most recent data that is currently available.

SYNERGISTS/PLANT GROWTH REGULATORS: Status of Japanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	0.4	3,522.37	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	10	11	---	---
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 <small>Exempt</small>	8	19.21	0.017	0.064

* 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 2015; 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 bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Acramite	Bifenazate	2.5	{2}	3,631.74	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	0.6	6,672.05	0.002	0.032
Admire/Nuprid	Imidacloprid	3	{0.5}	7,920.55	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	{0.01}	22,026.29	---	---
Ambush/Pounce	Permethrin	4	{0.05}	743	0.01	0.31
Apollo	Clofentezine	1	{0.02}	527.18	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	{0.4}	-	---	---
Asana	Esfenvalerate	3	{0.02}	2,587.29	0.014	0.04
Assail	Acetamiprid	1.2	1.5	629.6	0.03	0.18
Avaunt	Indoxacarb	0.9	1	39.5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	{0.2}	591.3	---	---
Belt	Flubendiamide	1.6	2	268.15	---	---
Centaur/Tourismo	Buprofezin	1.9	2	249.1	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	{0.01} *	---	---	---
Danitol	Fenpropathrin	5	{0.01}	12,331.66	0.01	1.86
Delegate	Spinetoram	0.3	2	1,796.40	0.01	0.06

INSECTICIDES: Status of EU MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Desperado/Nexter	Pyridaben	3	{2.5}	---	---	---
Diazinon	Diazinon	0.2	{0.01}	1,066.84	0.002	0.01
Dimethoate	Dimethoate	2 <small>US Regional</small>	{0.02}	---	---	---
Envidor	Spirodiclofen	1	2	1,081.44	0.06	0.06
Esteem	Pyriproxyfen	1	1	1,021.19	0.002	0.03
Etofenprox	Etofenprox	5	{1}	---	---	---
Fujimite	Fenpyroximate	2	2	3,352.18	---	---
Fyfanon	Malathion	8	{0.02}	11,475.36	0.003	0.43
Imidan	Phosmet	10	{1}	8	0.005	0.091
Intrepid	Methoxyfenozide	3	{2}	13,579.01	0.002	0.08
Kanemite	Acequinocyl	1	{0.1}	8	---	---
Lorsban/Dursban	Chlorpyrifos	1	{0.3}	263.91	---	---
Methyl Bromide	Methyl Bromide	20	20	13,837.84 (lbs. applied)	---	---
Movento	Spirotetramat	4.5	{3}	5,654.10	---	---
Mustang	Zeta-Cypermethrin	1	2	6,186.98	0.02	1
PyGanic	Pyrethrins	1 <small>Exempt</small>	1	245.84	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	{0.2}	---	0.03	0.11
Rimon	Novaluron	8	{7}	---	---	---

INSECTICIDES: Status of EU MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Safari	Dinotefuran	2 <small>US Section 18: Expires Dec 31, 2018</small>	{0.01} *	---	---	---
Savey	Hexythiazox	1	1	4,426.83	---	---
Sevin	Carbaryl	10	{0.01}	114	0.003	0.84
Success/Entrust	Spinosad	0.2	0.2	9,167.58	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	{1.5}	---	---	---
Tolfenpyrad	Tolfenpyrad	2	{0.01} *	---	---	---
Vendex	Fenbutatin-oxide	6	{0.05}	-	---	---
Voliam	Chlorantraniliprole	2.5	{1}	282.68	---	---
Warrior II	Lambda Cyhalothrin	0.5	{0.3}	37,596.47	0.01	0.3
Zeal	Etoazole	1	{0.3}	4,750.24	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 2015; this is the most recent data that is currently available.

FUNGICIDES: Status of EU MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Abound	Azoxystrobin	2	2	1207.54	0.0005	0.16
Botran/Britz	Dicloran	20	{0.01}	---	---	---
Bravo/Concert	Chlorothalonil	0.5	{0.01}	426.03	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	3	25,793.38	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	4	24,621.98	0.004	0.38
Captan/Captec	Captan	50	{6}	---	0.17	0.53
Elast/SYLLIT	Dodine	5	{3}	---	---	---
Elevate	Fenhexamid	10	{7}	1,983.20	0.01	1.21
Elite/Orius	Tebuconazole	5	{1}	14,730.79	0.01	1.97
Flint/Gem	Trifloxystrobin	2	3	5,111.14	0.001	0.11
Fontelis	Penthiopyrad	4	4	1,360.00	0.02	0.31
Indar	Fenbuconazole	1	1	501.31	0.003	0.18
Inspire	Difenoconazole	2.5	{0.3}	528.3	0.05	0.06
Luna	Fluopyram	2	{1.5}	3,925.80	0.01	0.34
Misc.	Ferbam	4	{0.01} *	---	---	---
Misc.	Flutriafol	1.5	{1}	---	---	---
Misc.	O-phenylphenol	5	{0.05} Pending {0.01} Aug 08, 2018	---	0.017	0.017
Penbotec	Pyrimethanil	10	{4}	---	---	---
Procure	Triflumizole	1.5	1.5	11,657.21	0.01	0.72
Quash	Metconazole	0.2	0.2	629.09	0.02	0.02

FUNGICIDES: Status of EU MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Quintec	Quinoxifen	0.7	{0.3}	15,502.06	0.0008	0.21
Rally	Myclobutanil	5	{3}	22,885.28	0.001	0.6
Ridomil	Metalaxyl/ Metalaxyl-M	1	{0.01}	70	---	---
Rovral	Iprodione	20	{10}	22,969.02	0.006	4.7
Scholar	Fludioxonil	5	5	15842	0.021	0.41
Switch	Cyprodinil	2	2	40	---	---
Tilt/Orbit	Propiconazole	4	{0.01}	10,759.14	0.002	0.28
Topsin	Thiophanate-methyl	20	{0.3}	3,982.91	0.02**	0.32**
Xemium	Fluxapyroxad	3	3	1096.4	0.01	0.05
Ziram	Ziram	7	{5}	375.7	---	---
* 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 2015; this is the most current data available.						

HERBICIDES: Status of EU MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.05	2,421.71	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	{0.01}	7,716.09	---	---
Alion	Indaziflam	0.01	0.01*	3,458.74	---	---
Casoron	Dichlobenil	0.15	{0.01}	---	---	---
Chateau	Flumioxazin	0.02	0.02	2,453.88	---	---
Fusilade	Fluazifop-P-butyl	0.05	{0.01}	1120.86	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	0.1	18,362.81	---	---
Gramoxone	Paraquat dichloride	0.05	{0.02}	12,867.45	---	---
Kerb	Propyzamide	0.1	{0.02}	---	---	---
Kixor	Saflufenacil	0.03	0.03	---	---	---
Matrix	Rimsulfuron	0.01	0.01	4,543.90	---	---
Pendulum/Prowl	Pendimethalin	0.1	{0.05}	5,215.79	---	---
Poast	Sethoxydim	0.2	{0.1}	450.62	---	---
Princep/Sim-Trol	Simazine	0.25	0.25	64.5	---	---
Reckon/Rely	Glufosinate-ammonium	0.25	{0.15}	12020.37	---	---
Roundup	Glyphosate	0.2	{0.1}	35482.97 (lbs applied)	---	---
Solicam	Norflurazon	0.1	{0.01}	---	---	---
Spur	Clopyralid	0.5	0.5	---	---	---
Surflan	Oryzalin	0.05	{0.01}	1,974.36	---	---
Treflan	Trifluralin	0.05	{0.01}	16	---	---
Venue	Pyraflufen-ethyl	0.01	0.02	4,393.09	---	---

* 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 2015; this is the most recent data that is currently available.

SYNERGISTS/PLANT GROWTH REGULATORS: Status of EU MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	0.4	3,522.37	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	{5}	11	---	---
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 <small>Exempt</small>	---	19.21	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 2015; 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 bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Acramite	Bifenazate	2.5	{0.3}	3,631.74	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	1	6,672.05	0.002	0.032
Admire/Nuprid	Imidacloprid	3	3	7,920.55	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	{0.07}	22,026.29	---	---
Ambush/Pounce	Permethrin	4	5 <i>Expires Dec 31, 2020</i>	743	0.01	0.31
Apollo	Clofentezine	1	{0.2} <i>Expires Dec 31, 2020</i>	527.18	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	0.9	-	---	---
Asana	Esfenvalerate	3	---	2,587.29	0.014	0.04
Assail	Acetamiprid	1.2	{0.2}	629.6	0.03	0.18
Avaunt	Indoxacarb	0.9	{0.3}	39.5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	1 <i>Expires Dec 31, 2020</i>	591.3	---	---
Belt	Flubendiamide	1.6	2	268.15	---	---
Centaur/Tourismo	Buprofezin	1.9	{1}	249.1	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	0.5 <i>Expires Dec 31, 2020</i>	---	---	---
Danitol	Fenpropathrin	5	5	12,331.66	0.01	1.86
Delegate	Spinetoram	0.3	{0.2}	1,796.40	0.01	0.06

INSECTICIDES: Status of S. Korean MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Desperado/Nexter	Pyridaben	3	{1}	---	---	---
Diazinon	Diazinon	0.2	1	1,066.84	0.002	0.01
Dimethoate	Dimethoate	2 <small>US Regional</small>	2 <small>Expires Dec 31, 2020</small>	---	---	---
Envidor	Spirodiclofen	1	2	1,081.44	0.06	0.06
Esteem	Pyriproxyfen	1	1 <small>Pending {0.5} Mar 01, 2018</small>	1,021.19	0.002	0.03
Etofenprox	Etofenprox	5	{2}	---	---	---
Fujimite	Fenpyroximate	2	2	3,352.18	---	---
Fyfanon	Malathion	8	{0.5} <small>Expires Dec 31, 2020</small>	11,475.36	0.003	0.43
Imidan	Phosmet	10	{0.05}	8	0.005	0.091
Intrepid	Methoxyfenozide	3	{2}	13,579.01	0.002	0.08
Kanemite	Acequinocyl	1	{0.5}	8	---	---
Lorsban/Dursban	Chlorpyrifos	1	{0.5}	263.91	---	---
Methyl Bromide	Methyl Bromide	20	20	13,837.84 (lbs. applied)	---	---
Movento	Spirotetramat	4.5	{3}	5,654.10	---	---
Mustang	Zeta-Cypermethrin	1	1 <small>Expires Dec 31, 2020</small>	6,186.98	0.02	1
PyGanic	Pyrethrins	1 <small>Exempt</small>	1 <small>Expires Dec 31, 2020</small>	245.84	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	1 <small>Expires Dec 31, 2020</small>	---	0.03	0.11
Rimon	Novaluron	8	{0.7}	---	---	---

INSECTICIDES: Status of S. Korean MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Safari	Dinotefuran	2 <i>US Section 18: Expires Dec 31, 2018</i>	2 <i>Expires Dec 31, 2020</i>	---	---	---
Savey	Hexythiazox	1	{0.1}	4,426.83	---	---
Sevin	Carbaryl	10	{0.5}	114	0.003	0.84
Success/Entrust	Spinosad	0.2	0.2	9,167.58	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	{1.5}	---	---	---
Tolfenpyrad	Tolfenpyrad	2	---	---	---	---
Vendex	Fenbutatin-oxide	6	{5} <i>Expires Dec 31, 2020</i>	-	---	---
Voliam	Chlorantraniliprole	2.5	{1}	282.68	---	---
Warrior II	Lambda Cyhalothrin	0.5	0.5 <i>Expires Dec 31, 2020</i>	37,596.47	0.01	0.3
Zeal	Etoxazole	1	{0.2}	4,750.24	0.02	0.02

Note: This chart includes pesticide use information from 2015; this is the most recent data that is currently available.

FUNGICIDES: Status of S. Korean MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Abound	Azoxystrobin	2	2	1207.54	0.0005	0.16
Botran/Britz	Dicloran	20	{10} <small>Expires Dec 31, 2020</small>	---	---	---
Bravo/Concert	Chlorothalonil	0.5	3	426.03	---	---
Cabrio/Insignia/ Pageant	Pyraclostrobin	2.5	{2}	25,793.38	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	4	24,621.98	0.004	0.38
Captan/Captec	Captan	50	{5} <small>Expires Dec 31, 2020</small>	---	0.17	0.53
Elast/SYLLIT	Dodine	5	{2} <small>Expires Dec 31, 2020</small>	---	---	---
Elevate	Fenhexamid	10	{5}	1,983.20	0.01	1.21
Elite/Orius	Tebuconazole	5	{4}	14,730.79	0.01	1.97
Flint/Gem	Trifloxystrobin	2	2	5,111.14	0.001	0.11
Fontelis	Penthiopyrad	4	{0.2}	1,360.00	0.02	0.31
Indar	Fenbuconazole	1	2 <small>Expires Dec 31, 2020</small>	501.31	0.003	0.18
Inspire	Difenoconazole	2.5	{2}	528.3	0.05	0.06
Luna	Fluopyram	2	{0.6}	3,925.80	0.01	0.34
Misc.	Ferbam	4	{0.2}	---	---	---
Misc.	Flutriafol	1.5	{0.8}	---	---	---
Misc.	O-phenylphenol	5	{3} <small>Expires Dec 31, 2020</small>	---	0.017	0.017

FUNGICIDES: Status of S. Korean MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Penbotec	Pyrimethanil	10	{4}	---	---	---
Procure	Triflumizole	1.5	4	11,657.21	0.01	0.72
Quash	Metconazole	0.2	0.3 <small>Pending 0.5 Mar 01, 2018</small>	629.09	0.02	0.02
Quintec	Quinoxifen	0.7	{0.4}	15,502.06	0.0008	0.21
Rally	Myclobutanil	5	{2}	22,885.28	0.001	0.6
Ridomil	Metalaxyl/ Metalaxyl-M	1	{0.05}	70	---	---
Rovral	Iprodione	20	{10} <small>Expires Dec 31, 2020</small>	22,969.02	0.006	4.7
Scholar	Fludioxonil	5	{4}	15842	0.021	0.41
Switch	Cyprodinil	2	2	40	---	---
Tilt/Orbit	Propiconazole	4	{2}	10,759.14	0.002	0.28
Topsin	Thiophanate-methyl	20	{10}	3,982.91	0.02*	0.32*
Xemium	Fluxapyroxad	3	3	1096.4	0.01	0.05
Ziram	Ziram	7	{0.2}	375.7	---	---

* Detected as carbendazim

Note: This chart includes pesticide use information from 2015; this is the most current data available.

HERBICIDES: Status of S. Korean MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.05	2,421.71	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	0.1	7,716.09	---	---
Alion	Indaziflam	0.01	0.05	3,458.74	---	---
Casoron	Dichlobenil	0.15	0.15 <i>Expires Dec 31, 2020</i>	---	---	---
Chateau	Flumioxazin	0.02	0.1	2,453.88	---	---
Fusilade	Fluazifop-P-butyl	0.05	---	1120.86	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	0.05	18,362.81	---	---
Gramoxone	Paraquat dichloride	0.05	0.05	12,867.45	---	---
Kerb	Propyzamide	0.1	---	---	---	---
Kixor	Saflufenacil	0.03	0.03	---	---	---
Matrix	Rimsulfuron	0.01	--	4,543.90	---	---
Pendulum/Prowl	Pendimethalin	0.1	{0.05}	5,215.79	---	---
Poast	Sethoxydim	0.2	1 <i>Expires Dec 31, 2020</i>	450.62	---	---
Princep/Sim-Trol	Simazine	0.25	0.25 <i>Expires Dec 31, 2020</i>	64.5	---	---
Reckon/Rely	Glufosinate-Ammonium	0.25	{0.15}	12020.37	---	---
Roundup	Glyphosate	0.2	{0.05}	35482.97 (lbs applied)	---	---
Solicam	Norflurazon	0.1	0.1	---	---	---
Spur	Clopyralid	0.5	---	---	---	---
Surflan	Oryzalin	0.05	0.05	1,974.36	---	---
Treflan	Trifluralin	0.05	0.05 <i>Expires Dec 31, 2020</i>	16	---	---
Venue	Pyraflufen-ethyl	0.01	0.1	4,393.09	---	---

Note: This chart includes pesticide use information from 2015; this is the most recent data that is currently available.

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

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	{0.05}	3,522.37	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	{5}	11	---	---
Forchlorfenuron	Forchlorfenuron	0.01	0.05	---	---	---
Misc.	1-Naphthaleneacetamide	0.1	---	---	---	---
Misc.	1-Naphthaleneacetic acid	0.1	---	---	---	---
Piperonyl Butoxide	Piperonyl Butoxide	8 <small>Exempt</small>	{0.05}	19.21	0.017	0.064

Note: This chart includes pesticide use information from 2015; 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 bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Acramite	Bifenazate	2.5	{2}	3,631.74	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	0.5	6,672.05	0.002	0.032
Admire/Nuprid	Imidacloprid	3	{0.5}	7,920.55	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	0.09	22,026.29	---	---
Ambush/Pounce	Permethrin	4	{2}	743	0.01	0.31
Apollo	Clofentezine	1	{0.5}	527.18	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	{0.01}	-	---	---
Asana	Esfenvalerate	3	{1}	2,587.29	0.014	0.04
Assail	Acetamiprid	1.2	{1}	629.6	0.03	0.18
Avaunt	Indoxacarb	0.9	{0.5}	39.5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	{0.01}	591.3	---	---
Belt	Flubendiamide	1.6	{1}	268.15	---	---
Centaur/Tourismo	Buprofezin	1.9	{1.5}	249.1	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	{0.4}	---	---	---
Danitol	Fenpropathrin	5	5	12,331.66	0.01	1.86
Delegate	Spinetoram	0.3	{0.2}	1,796.40	0.01	0.06

INSECTICIDES: Status of Taiwanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Diazinon	Diazinon	0.2	1	---	---	---
Dimethoate	Dimethoate	2 <small>US Regional</small>	{0.01}	1,066.84	0.002	0.01
Envidor	Spirodiclofen	1	{0.8}	---	---	---
Esteem	Pyriproxyfen	1	{0.5}	1,081.44	0.06	0.06
Etofenprox	Etofenprox	5	{0.01}	1,021.19	0.002	0.03
Fujimite	Fenpyroximate	2	{0.3}	---	---	---
Fyfanon	Malathion	8	{0.5}	3,352.18	---	---
Imidan	Phosmet	10	{2}	11,475.36	0.003	0.43
Intrepid	Methoxyfenozide	3	{2}	8	0.005	0.091
Kanemite	Acequinocyl	1	{0.5}	13,579.01	0.002	0.08
Lorsban/Dursban	Chlorpyrifos	1	1	8	---	---
Methyl Bromide	Methyl Bromide	20	---	263.91	---	---
Movento	Spirotetramat	4.5	{3}	13,837.84 (lbs. applied)	---	---
Mustang	Zeta-Cypermethrin	1	2	5,654.10	---	---
PyGanic	Pyrethrins	1 <small>Exempt</small>	{0.01}	6,186.98	0.02	1
Renounce/Tombstone	Cyfluthrin	0.3	{0.01}	245.84	0.01	0.05
Rimon	Novaluron	8	{2}	---	0.03	0.11
Diazinon	Diazinon	0.2	1	---	---	---

INSECTICIDES: Status of Taiwanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Safari	Dinotefuran	2 <small>US Section 18: Expires Dec 31, 2018</small>	{1}	---	---	---
Savey	Hexythiazox	1	1	4,426.83	---	---
Sevin	Carbaryl	10	{0.5}	114	0.003	0.84
Success/Entrust	Spinosad	0.2	0.2	9,167.58	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	{0.01}	---	---	---
Tolfenpyrad	Tolfenpyrad	2	{0.01}	---	---	---
Vendex	Fenbutatin-oxide	6	{2}	-	---	---
Voliam	Chlorantraniliprole	2.5	{1}	282.68	---	---
Warrior II	Lambda Cyhalothrin	0.5	{0.4}	37,596.47	0.01	0.3
Zeal	Etoxazole	1	1	4,750.24	0.02	0.02

Note: This chart includes pesticide use information from 2015; this is the most recent data that is currently available.

FUNGICIDES: Status of Taiwanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Abound	Azoxystrobin	2	{1}	1207.54	0.0005	0.16
Botran/Britz	Dicloran	20	{5}	---	---	---
Bravo/Concert	Chlorothalonil	0.5	0.5	426.03	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	{1}	25,793.38	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	{1.7}	24,621.98	0.004	0.38
Captan/Captec	Captan	50	{25}	---	0.17	0.53
Elast/SYLLIT	Dodine	5	{2}	---	---	---
Elevate	Fenhexamid	10	{7}	1,983.20	0.01	1.21
Elite/Orius	Tebuconazole	5	{2}	14,730.79	0.01	1.97
Flint/Gem	Trifloxystrobin	2	3	5,111.14	0.001	0.11
Fontelis	Penthiopyrad	4	4	1,360.00	0.02	0.31
Indar	Fenbuconazole	1	1	501.31	0.003	0.18
Inspire	Difenoconazole	2.5	{1}	528.3	0.05	0.06
Luna	Fluopyram	2	{0.7}	3,925.80	0.01	0.34
Misc.	Ferbam	4	{2.5}	---	---	---
Misc.	Flutriafol	1.5	{1}	---	---	---
Misc.	O-phenylphenol	5	{0.01}	---	0.017	0.017
Penbotec	Pyrimethanil	10	{4}	---	---	---
Procure	Triflumizole	1.5	{1}	11,657.21	0.01	0.72
Quash	Metconazole	0.2	0.2	629.09	0.02	0.02

FUNGICIDES: Status of Taiwanese MRLs

- MRL values listed in **bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Quintec	Quinoxifen	0.7	{0.4}	15,502.06	0.0008	0.21
Rally	Myclobutanil	5	{1}	22,885.28	0.001	0.6
Ridomil	Metalaxyl/ Metalaxyl-M	1	{0.2}	70	---	---
Rovral	Iprodione	20	{5}	22,969.02	0.006	4.7
Scholar	Fludioxonil	5	5	15842	0.021	0.41
Switch	Cyprodinil	2	2	40	---	---
Tilt/Orbit	Propiconazole	4	{1}	10,759.14	0.002	0.28
Topsin	Thiophanate-methyl	20	{5}	3,982.91	0.02*	0.32*
Xemium	Fluxapyroxad	3	{2}	1096.4	0.01	0.05
Ziram	Ziram	7	{2.5}	375.7	---	---

* Detected as carbendazim

Note: This chart includes pesticide use information from 2015; this is the most current data available.

HERBICIDES: Status of Taiwanese MRLs

- MRL values listed in **bold red brackets { }** are more restrictive than the US MRL value
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Trade Name	Common Name	US MRL (ppm)	Taiwan MRL (ppm)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
2,4-D	2,4-D	0.05	0.2	2,421.71	---	---
Aim/Rage/Shark	Carfentrazone-ethyl	0.1	0.1	7,716.09	---	---
Alion	Indaziflam	0.01	---	3,458.74	---	---
Casoron	Dichlobenil	0.15	---	---	---	---
Chateau	Flumioxazin	0.02	---	2,453.88	---	---
Fusilade	Fluazifop-P-butyl	0.05	{0.01}	1120.86	---	---
Galigan/Oxyflow	Oxyfluorfen	0.05	{0.03}	18,362.81	---	---
Gramoxone	Paraquat dichloride	0.05	{0.01}	12,867.45	---	---
Kerb	Propyzamide	0.1	---	---	---	---
Kixor	Saflufenacil	0.03	{0.01}	---	---	---
Matrix	Rimsulfuron	0.01	---	4,543.90	---	---
Pendulum/Prowl	Pendimethalin	0.1	{0.01}	5,215.79	---	---
Poast	Sethoxydim	0.2	0.2	450.62	---	---
Princep/Sim-Trol	Simazine	0.25	{0.01}	64.5	---	---
Reckon/Rely	Glufosinate-ammonium	0.25	{0.1}	12020.37	---	---
Roundup	Glyphosate	0.2	0.2	35482.97 (lbs applied)	---	---
Solicam	Norflurazon	0.1	{0.01}	---	---	---
Spur	Clopyralid	0.5	---	---	---	---
Surflan	Oryzalin	0.05	---	1,974.36	---	---
Treflan	Trifluralin	0.05	{0.01}	16	---	---
Venue	Pyraflufen-ethyl	0.01	0.01	4,393.09	---	---

Note: This chart includes pesticide use information from 2015; this is the most recent data that is currently available.

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Trade Name	Common Name	US MRL (ppm)	Taiwan MRL (ppm)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Apogee	Prohexadione calcium	0.4	0.4	3,522.37	---	---
Boll'd/CERONE/Ethephon	Ethephon	10	{3}	11	---	---
Forchlorfenuron	Forchlorfenuron	0.01	---	---	---	---
Misc.	1-Naphthaleneacetamide	0.1	---	---	---	---
Misc.	1-Naphthaleneacetic acid	0.1	--- Exempt	---	---	---
Piperonyl Butoxide	Piperonyl Butoxide	8 Exempt	{0.01}	19.21	0.017	0.064

Note: This chart includes pesticide use information from 2015; 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 bold 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)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Acramite	Bifenazate	2.5	2.5	3,631.74	0.02	0.02
Actara/Voliam Flexi	Thiamethoxam	0.5	0.5	6,672.05	0.002	0.032
Admire/Nuprid	Imidacloprid	3	3	7,920.55	0.01	0.35
Agri-mek/ Epi-Mek	Abamectin	0.09	0.09	22,026.29	---	---
Ambush/Pounce	Permethrin	4	4	743	0.01	0.31
Apollo	Clofentezine	1	{0.1}	527.18	---	---
Aria/Beleaf/Carbine	Flonicamid	0.6	0.6	-	---	---
Asana	Esfenvalerate	3	{0.05}	2,587.29	0.014	0.04
Assail	Acetamiprid	1.2	{1}	629.6	0.03	0.18
Avaunt	Indoxacarb	0.9	2	39.5	0.03	0.03
Baythroid XL/Leverage 360	Beta-cyfluthrin	0.3	0.3	591.3	---	---
Belt	Flubendiamide	1.6	1.6	268.15	---	---
Centaur/Tourismo	Buprofezin	1.9	1.9	249.1	---	---
Cobalt/Proaxis	Gamma Cyhalothrin	0.5	0.5	---	---	---
Danitol	Fenpropathrin	5	5	12,331.66	0.01	1.86
Delegate	Spinetoram	0.3	{0.2}	1,796.40	0.01	0.06

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Trade Name	Common Name	US MRL (ppm)	Australia MRL (ppm)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Desperado/Nexter	Pyridaben	3	{0.5}	---	---	---
Diazinon	Diazinon	0.2	0.5	1,066.84	0.002	0.01
Dimethoate	Dimethoate	2 <small>US Regional</small>	{0.2}	---	---	---
Envidor	Spirodiclofen	1	1	1,081.44	0.06	0.06
Esteem	Pyriproxyfen	1	1	1,021.19	0.002	0.03
Etofenprox	Etofenprox	5	---	---	---	---
Fujimite	Fenpyroximate	2	2	3,352.18	---	---
Fyfanon	Malathion	8	8	11,475.36	0.003	0.43
Imidan	Phosmet	10	{1}	8	0.005	0.091
Intrepid	Methoxyfenozide	3	3	13,579.01	0.002	0.08
Kanemite	Acequinocyl	1	{0.5}	8	---	---
Lorsban/Dursban	Chlorpyrifos	1	1	263.91	---	---
Methyl Bromide	Methyl Bromide	20	20	13,837.84 (lbs. applied)	---	---
Movento	Spirotetramat	4.5	4.5	5,654.10	---	---
Mustang	Zeta-Cypermethrin	1	1	6,186.98	0.02	1
PyGanic	Pyrethrins	1 <small>Exempt</small>	1	245.84	0.01	0.05
Renounce/Tombstone	Cyfluthrin	0.3	0.3	---	0.03	0.11
Rimon	Novaluron	8	8	---	---	---

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Trade Name	Common Name	US MRL (ppm)	Australia MRL (ppm)	2015 CA Acreage	2007-2017 Residue Testing Results (Low)	2007-2017 Residue Testing Results (High)
Safari	Dinotefuran	2 <small>US Section 18: Expires Dec 31, 2018</small>	---	---	---	---
Savey	Hexythiazox	1	1	4,426.83	---	---
Sevin	Carbaryl	10	---	114	0.003	0.84
Success/Entrust	Spinosad	0.2	1	9,167.58	0.005	0.17
Sulfoxaflor	Sulfoxaflor	3	3	---	---	---
Tolfenpyrad	Tolfenpyrad	2	---	---	---	---
Vendex	Fenbutatin-oxide	6	6	---	---	---
Voliam	Chlorantraniliprole	2.5	{1}	282.68	---	---
Warrior II	Lambda Cyhalothrin	0.5	0.5	37,596.47	0.01	0.3
Zeal	Etoxazole	1	1	4,750.24	0.02	0.02

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Abound	Azoxystrobin	2	{1.5}	1207.54	0.0005	0.16
Botran/Britz	Dicloran	20	--	---	---	---
Bravo/Concert	Chlorothalonil	0.5	10	426.03	---	---
Cabrio/Insignia/Pageant	Pyraclostrobin	2.5	3	25,793.38	0.002	0.38
Cabrio/Pristine	Boscalid	3.5	3.5	24,621.98	0.004	0.38
Captan/Captec	Captan	50	{15}	---	0.17	0.53
Elast/SYLLIT	Dodine	5	{3}	---	---	---
Elevate	Fenhexamid	10	10	1,983.20	0.01	1.21
Elite/Orius	Tebuconazole	5	5	14,730.79	0.01	1.97
Flint/Gem	Trifloxystrobin	2	5	5,111.14	0.001	0.11
Fontelis	Penthiopyrad	4	5	1,360.00	0.02	0.31
Indar	Fenbuconazole	1	1	501.31	0.003	0.18
Inspire	Difenoconazole	2.5	2.5	528.3	0.05	0.06
Luna	Fluopyram	2	3	3,925.80	0.01	0.34
Misc.	Ferbam	4	{3}	---	---	---
Misc.	Flutriafol	1.5	1.5	---	---	---
Misc.	O-phenylphenol	5	{0.1}	---	0.017	0.017
Penbotec	Pyrimethanil	10	10	---	---	---
Procure	Triflumizole	1.5	1.5	11,657.21	0.01	0.72
Quash	Metconazole	0.2	0.2	629.09	0.02	0.02

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Quintec	Quinoxifen	0.7	0.7	15,502.06	0.0008	0.21
Rally	Myclobutanil	5	5	22,885.28	0.001	0.6
Ridomil	Metalaxyl/ Metalaxyl-M	1	{0.2}	70	---	---
Rovral	Iprodione	20	{10}	22,969.02	0.006	4.7
Scholar	Fludioxonil	5	5	15842	0.021	0.41
Switch	Cyprodinil	2	2	40	---	---
Tilt/Orbit	Propiconazole	4	{2}	10,759.14	0.002	0.28
Topsin	Thiophanate-methyl	20	20	3,982.91	0.02*	0.32*
Xemium	Fluxapyroxad	3	3	1096.4	0.01	0.05
Ziram	Ziram	7	{3}	375.7	---	---
* Detected as carbendazim						
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Misc.	1-Naphthaleneacetamide	0.1	---	---	---	---
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Piperonyl Butoxide	Piperonyl Butoxide	8 <i>Exempt</i>	8	19.21	0.017	0.064

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