

April 2, 2020

To: Alicia Adler

From: Alinne Oliveira, Bryant Christie Inc.

**Re: 2020 International Blueberry MRL Memo**

On behalf of the U.S. Highbush Blueberry Council

As the 2020 blueberry is underway and crop protection decisions are being made, BCI wanted to provide the U.S. blueberry industry an international blueberry maximum residue level (MRL) memo for major export markets.

The purpose of this memo is to provide blueberry growers and shippers relevant information on blueberry MRLs in key export markets. Within, users will find the latest blueberry MRLs through March 28, 2020 in the U.S., Australia, Canada, China, the EU, Japan, Korea, Taiwan and Vietnam. The memo is divided into countries and includes for each country: the active ingredient, a trade name for the chemical, the U.S. blueberry MRL, the foreign country MRL, data on how much of the product has been applied, and residue data available from USDA. Where a residue potentially might exceed an MRL, that information is highlighted.

The memo also includes for some markets whether a chemical is included in a country's residue testing list. This information comes from official monitoring lists and is subject to change. Not all markets publish such lists.

While the MRL information is considered accurate as of March 28, 2020, please note that the 2020 International Blueberry 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 Blueberry MRL Memo.

Bryant Christie Inc. hopes this memo will be useful to the U.S. blueberry growers and shippers and wishes the industry success in the 2020 season.

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# I. Summary of U.S. Monitoring Residues Program and Pesticide Residues Screening Programs in Key Export Markets

- The residue screening data provided in this document is based on the latest screening data available for blueberries in the USDA's Pesticide Data Program, which is from 2014. Should industry officials wish to provide additional more recent residue monitoring data in the future, it can be incorporated into the 2021 International Blueberry MRL Memo.
- The pesticide usage data provided in this document is based on the latest survey available by USDA's NASS Agricultural Chemical Use Program, which is from 2017, and is expressed in pounds (lbs.) applied.
- This document includes information on pesticides known to be analyzed in official pesticide residue screening programs in certain export markets. This information is based on the most recent screening plans available for each market. Not all markets publish this data. The information included within is for informational purposes only and does not guarantee that a given pesticide will not be tested for as part of import inspection programs.
- **It is critical that growers, packers, and exporters understand that foreign residue screening programs change, and foreign regulators may at any time choose to analyze for any of the pesticides approved for use on blueberries in the United States.**
- Prior to shipping, exporters should confirm the established MRLs and that consignments comply with export market regulations.

## II. Above-MRL Possibilities According to USDA 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 U.S. 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 U.S. 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**

<b>Active Ingredient</b>	<b>Trade Name</b>	<b>Markets in which the detected residue would have exceeded the MRL</b>
Fenbuconazole	Indar	Australia, Canada
Carbaryl	Sevin	Australia, China, EU, Korea, Taiwan, Vietnam
Imidacloprid	Admire, others	Australia
Methomyl	Lannate	Australia, China, EU, Japan, Korea, Taiwan, Vietnam
Tebufenozide	Confirm	Australia, Taiwan
Zeta-Cypermethrin	Mustang	Australia, China, EU, Japan, Vietnam
Iprodione	Rovral, iprodione	Canada, China, EU, Vietnam
Chlorothalonil	Bravo	China, EU, Vietnam
Difenoconazole	Inspire Super, Quadris Top	China, Vietnam
Metalaxyl-M	Ridomil	China, EU, Korea, Vietnam
Metconazole	Quash	China, Vietnam
Propiconazole	Tilt, Quilt, Xcel, others	China, EU, Vietnam
Bifenthrin	Brigade, others	China, Korea, Vietnam
Indoxacarb	Avaunt	China, Japan
Oryzalin	Surflan	China, EU, Taiwan, Vietnam
Piperonil Butoxide	PBO, several	China, Taiwan, Vietnam
Simazine	Princep, others	China, EU, Vietnam
Esfenvalerate	Asana	EU, Korea, Vietnam
Fenpropathrin	Danitol	EU, Korea, Vietnam
Malathion	Malathion	EU, Taiwan
Pyrimethanil	Luna Tranquility	Taiwan, Vietnam
Phosmet	Imidan	Taiwan

### III. Australian MRL Status

#### FUNGICIDES: Status of Australian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Australia (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Australia Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	17,800	1	0.0027	Yes
Boscalid	Pristine	13	15	10,700	1.7	0.0051	Yes
Captan	Captan, Captevate	20	20	356,500	--	--	Yes
Chlorothalonil	Bravo, others	1	10	26,600	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	3	16,000	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	{0.02}	900	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.3	12,600	0.38	0.0051	--
Fenhexamid	Elevate, Captevate	5	5	4,900	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	5	--	--	--	--
Fluopyram	Luna Privilege/Tranquility	7	7	1700	--	--	--
Fluxapyroxad	Xemium	7	7	D	--	--	--
Fosetyl-Al	Aliette	40	40	D	--	--	--
Iprodione	Rovral, Iprodione	15	{12}	5,800	2.7	0.0052	Yes
Isofetamid	Kenja	5	--	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	{0.5}	2,000	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	6,000	0.14	0.011	--
Penthiopyrad	Fontelis	6	{3}	--	--	--	--
Propiconazole	Tilt, Quilt Xcel, others	1	2	8,900	0.068	0.068	Yes
Prothioconazole	Proline, Propulse	2	2	500	--	--	--
Pyraclostrobin	Pristine	4	5	5,600	0.26	0.002	Yes
Pyrimethanil	Luna Tranquility	8	8	5,100	0.0062	0.0026	Yes
Pyriofenone	Prolivo	1.5	{0.05}	--	--	--	--
Ziram	Ziram	7	15	66,500	--	--	--

D: NASS Withheld to avoid disclosing data for individual operations.

## INSECTICIDES: Status of Australian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Australia (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Australia Monitoring
Acetamiprid	Assail, others	1.6	1.6	3,600	0.19	0.0022	--
Bifenthrin	Brigade, others	1.8	3	7,000	0.77	0.013	Yes
Carbaryl	Sevin	3	{0.02}	1,300	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	3	--	0.32	0.011	--
Cyantraniliprole	Exirel	4	4	100	--	--	--
Diazinon	Diazinon	0.5	0.5	20,100	--	--	Yes
Esfenvalerate	Asana	1	1	1,500	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	--	--	--	--	--
Fenpropathrin	Danitol	3	3	8,400	1	0.023	--
Flupyradifurone	Sivanto	4	4	300	--	--	--
Imidacloprid	Admire, others	3.5	{0.1}	6,700	0.44	0.01	--
Indoxacarb	Avaunt	1.5	2	--	0.046	0.01	Yes
Malathion	Malathion	8	10	114,600	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	1	D	--	--	--
Methomyl	Lannate	6	{2}	46,500	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	{2}	4,500	0.58	0.0089	--
Methyl bromide	Methyl Bromide	20	20	--	--	--	--
Novaluron	Rimon	7	{0.1}	D	0.024	0.015	--
Phosmet	Imidan	10	10	125,500	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1	D	--	--	Yes
Pyriproxyfen	Knack	1	{0.1}	--	--	--	Yes
Spinetoram	Delegate	0.5	0.5	1,300	0.09	0.0055	--
Spinosad	Entrust, Success	0.4	0.7	1,500	0.047	0.003	Yes
Spirotetramat	Movento	3	3	--	--	--	Yes

## INSECTICIDES: Status of Australian MRLs

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Active Ingredient	Trade Name	United States (ppm)	Australia (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Australia Monitoring
<b>Tebufenozide</b>	Confirm	3	{0.05}	D	1.3	0.0053	Yes
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	1,600	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	--	--	--	--	--
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	{0.5}	3,500	0.66 <sup>a</sup>	0.011 <sup>a</sup>	yes

D NASS Withheld to avoid disclosing data for individual operations.

<sup>a</sup> Tested for as cypermethrin



## HERBICIDES & OTHER: Status of Australian MRLs

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Active Ingredient	Trade Name	United States (ppm)	Australia (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Australia Monitoring
<b>2,4-D</b>	2,4 D	0.2	{0.05}	D	--	--	--
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	{0.05}	200	--	--	--
<b>Clethodim</b>	Select Max, others	0.2	0.2	2,500	--	--	--
<b>Clopyralid</b>	Stinger	0.5	0.5	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	1	4,500	--	--	--
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	0.05	D	--	--	--
<b>Diuron</b>	Karmex, Diuron	0.1	--	50,300	--	--	Yes
<b>Ethephon</b>	Ethephon	20	{10}	--	--	--	--
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.2}	--	--	--	--
<b>Fluazinam</b>	Omega	7	7	D	--	--	--
<b>Fludioxonil</b>	Switch	2	3	8,900	0.63	0.01	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	0.02	7,600	--	--	--
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	40,900	--	--	--
<b>Glyphosate</b>	Roundup, others	0.2	{0.05}	22,900	--	--	--
<b>Halosulfuron-methyl</b>	Sandea	0.05	--	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	0.6	5,100	--	--	--
<b>Indaziflam</b>	Alion	0.01	--	D	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01	3,900	--	--	--
<b>Napropamide</b>	Devrinol	0.1	0.1	D	--	--	--
<b>Norflurazon</b>	Solicam	0.2	{0.05}	54,700	--	--	--
<b>Oryzalin</b>	Surflan	0.05	0.1	63,300	0.021	0.021	--
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	0.05	17,400	--	--	--
<b>Pendimethalin</b>	Several	0.1	{0.05}	68,700	--	--	Yes

## HERBICIDES & OTHER: Status of Australian MRLs

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Active Ingredient	Trade Name	United States (ppm)	Australia (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Australia Monitoring
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	8	D	0.037	0.037	Yes
<b>Propyzamide</b>	Kerb	0.05	{0.02}	--	--	--	--
<b>Quinclorac</b>	Quinstar	0.08	--	--	--	--	--
<b>Rimsulfuron</b>	Matrix	0.01	0.02	D	--	--	--
<b>Sethoxydim</b>	Poast	4	4	300	--	--	--
<b>Simazine</b>	Princep, others	0.2	{0.1}	45,100	0.012	0.0085	--
<b>S-metolachlor</b>	Dual	0.15	--	3,600	--	--	--
<b>Sulfentrazone</b>	Zeus, others	0.15	--	1,600	--	--	--
<b>Terbacil</b>	Sinbar	0.2	0.2	12,200	--	--	--

D: NASS Withheld to avoid disclosing data for individual operations.

## IV. Canadian MRL Status

### FUNGICIDES: Status of Canadian MRLs

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- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Canada (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2016 Canada Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	{3}	17,800	1	0.0027	Yes
Boscalid	Pristine	13	{6}	10,700	1.7	0.0051	Yes
Captan	Captan, Captevate	20	{5}	356,500	--	--	Yes
Chlorothalonil	Bravo, others	1	{0.6}	26,600	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	4	16,000	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	4	900	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.3	12,600	0.38	0.0051	Yes
Fenhexamid	Elevate, Captevate	5	{4}	4,900	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	5	--	--	--	--
Fluopyram	Luna Privilege/ Tranquility	7	7	1700	--	--	--
Fluxapyroxad	Xemium	7	7	D	--	--	--
Fosetyl-Al	Aliette	40	40	D	--	--	--
Iprodione	Rovral, Iprodione	15	{0.07}	5,800	2.7	0.0052	Yes
Isofetamid	Kenja	5	5	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	3	2,000	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	6,000	0.14	0.011	Yes
Penthiopyrad	Fontelis	6	6	--	--	--	--
Propiconazole	Tilt, Quilt Xcel, others	1	1	8,900	0.068	0.068	Yes
Prothioconazole	Proline, Propulse	2	2	500	--	--	Yes
Pyraclostrobin	Pristine	4	{3.5}	5,600	0.26	0.002	Yes
Pyrimethanil	Luna Tranquility	8	8	5,100	0.0062	0.0026	Yes
Pyriofenone	Proливо	1.5	1.5	--	--	--	--

## FUNGICIDES: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Canada (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2016 Canada Monitoring
Ziram	Ziram	7	7 <i>Expires Dec 14, 2022</i>	66,500	--	--	--

D: NASS Withheld to avoid disclosing data for individual operations.

## INSECTICIDES: Status of Canadian MRLs

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Active Ingredient	Trade Name	United States (ppm)	Canada (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2016 Canada Monitoring
Acetamiprid	Assail, others	1.6	1.6	3,600	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	3	7,000	0.77	0.013	Yes
Carbaryl	Sevin	3	7	1,300	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	{0.35}	--	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	4	100	--	--	--
Diazinon	Diazinon	0.5	{0.1}*	20,100	--	--	Yes
Esfenvalerate	Asana	1	{0.1}*	1,500	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.1}*	--	--	--	Yes
Fenpropathrin	Danitol	3	3	8,400	1	0.023	Yes
Flupyradifurone	Sivanto	4	4	300	--	--	--
Imidacloprid	Admire, others	3.5	3.5	6,700	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	{0.1}*	--	0.046	0.01	Yes
Malathion	Malathion	8	8	114,600	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	{0.1}*	D	--	--	--
Methomyl	Lannate	6	6 Import Tolerance	46,500	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	4	4,500	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	{0.1}*	--	--	--	--
Novaluron	Rimon	7	7	D	0.024	0.015	Yes
Phosmet	Imidan	10	{5}	125,500	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1	D	--	--	Yes
Pyriproxyfen	Knack	1	1.5	--	--	--	Yes
Spinetoram	Delegate	0.5	0.5	1,300	0.09	0.0055	Yes
Spinosad	Entrust, Success	0.4	0.5	1,500	0.047	0.003	--

## INSECTICIDES: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
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Active Ingredient	Trade Name	United States (ppm)	Canada (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2016 Canada Monitoring
<b>Spirotetramat</b>	Movento	3	3	--	--	--	Yes
<b>Tebufenozide</b>	Confirm	3	3	D	1.3	0.0053	Yes
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.2	1,600	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	{0.1}*	--	--	--	Yes
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	0.8	3,500	0.66 <sup>a</sup>	0.011 <sup>a</sup>	Yes

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

D: NASS Withheld to avoid disclosing data for individual operations.

<sup>a</sup> Tested for as cypermethrin

## HERBICIDES & OTHER: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
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Active Ingredient	Trade Name	United States (ppm)	Canada (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2016 Canada Monitoring
<b>2,4-D</b>	2,4 D	0.2	{0.01}	D	--	--	--
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	0.1	200	--	--	Yes
<b>Clethodim</b>	Select Max, others	0.2	0.2	2,500	--	--	Yes
<b>Clopyralid</b>	Stinger	0.5	{0.1}	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	0.5	4,500	--	--	Yes
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	0.1*	D	--	--	--
<b>Diuron</b>	Karmex, Diuron	0.1	0.1*	50,300	--	--	Yes
<b>Ethephon</b>	Ethephon	20	{10}	--	--	--	--
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.1}	--	--	--	Yes
<b>Fluazinam</b>	Omega	7	7	D	--	--	--
<b>Fludioxonil</b>	Switch	2	2	8,900	0.63	0.01	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	0.02	7,600	--	--	--
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	40,900	--	--	--
<b>Glyphosate</b>	Roundup, others	0.2	{0.1}*	22,900	--	--	--
<b>Halosulfuron-methyl</b>	Sandea	0.05	0.05	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	{0.1}*	5,100	--	--	Yes
<b>Indaziflam</b>	Alion	0.01	0.01	D	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01	3,900	--	--	Yes
<b>Napropamide</b>	Devrinol	0.1	0.1	D	--	--	Yes
<b>Norflurazon</b>	Solicam	0.2	{0.1}*	54,700	--	--	Yes
<b>Oryzalin</b>	Surflan	0.05	0.1*	63,300	0.021	0.021	--
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	0.05	17,400	--	--	--
<b>Pendimethalin</b>	Several	0.1	0.1*	68,700	--	--	Yes
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	8	D	0.037	0.037	Yes

## HERBICIDES & OTHER: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Canada (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2016 Canada Monitoring
<b>Propyzamide</b>	Kerb	0.05	0.1*	--	--	--	Yes
<b>Quinclorac</b>	Quinstar	0.08	0.1*	--	--	--	--
<b>Rimsulfuron</b>	Matrix	0.01	0.01	D	--	--	--
<b>Sethoxydim</b>	Poast	4	4	300	--	--	Yes
<b>Simazine</b>	Princep, others	0.2	{0.1}*	45,100	0.012	0.0085	Yes
<b>S-metolachlor</b>	Dual	0.15	0.15	3,600	--	--	Yes
<b>Sulfentrazone</b>	Zeus, others	0.15	0.15	1,600	--	--	Yes
<b>Terbacil</b>	Sinbar	0.2	{0.1}*	12,200	--	--	Yes

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

D: NASS Withheld to avoid disclosing data for individual operations.



## V. Chinese MRL Status

### FUNGICIDES: Status of Chinese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	China (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	17,800	1	0.0027	--
Boscalid	Pristine	13	{10}	10,700	1.7	0.0051	--
Captan	Captan, Captevate	20	20	356,500	--	--	--
Chlorothalonil	Bravo, others	1	--	26,600	0.11	0.021	--
Cyprodinil	Switch, Inspire Super	3	10	16,000	1	0.003	--
Difenoconazole	Inspire Super, Quadris Top	4	--	900	0.02	0.0065	--
Fenbuconazole	Indar	0.3	0.5	12,600	0.38	0.0051	--
Fenhexamid	Elevate, Captevate	5	5	4,900	0.91	0.011	--
Fenpyrazamine	Protexio	5	--	--	--	--	--
Fluopyram	Luna Privilege/Tranquility	7	--	1700	--	--	--
Fluxapyroxad	Xemium	7	--	D	--	--	--
Fosetyl-Al	Aliette	40	--	D	--	--	--
Iprodione	Rovral, Iprodione	15	--	5,800	2.7	0.0052	--
Isofetamid	Kenja	5	--	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	--	2,000	0.027	0.0032	--
Metconazole	Quash	0.4	--	6,000	0.14	0.011	--
Penthiopyrad	Fontelis	6	--	--	--	--	--
Propiconazole	Tilt, Quilt Xcel, others	1	--	8,900	0.068	0.068	--
Prothioconazole	Proline, Propulse	2	--	500	--	--	--
Pyraclostrobin	Pristine	4	4	5,600	0.26	0.002	--
Pyrimethanil	Luna Tranquility	8	{3}	5,100	0.0062	0.0026	--
Pyriofenone	Proливо	1.5	--	--	--	--	--
Ziram	Ziram	7	--	66,500	--	--	--

D: NASS Withheld to avoid disclosing data for individual operations.

## INSECTICIDES: Status of Chinese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	China (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
Acetamiprid	Assail, others	1.6	2	3,600	0.19	0.0022	--
Bifenthrin	Brigade, others	1.8	--	7,000	0.77	0.013	--
Carbaryl	Sevin	3	--	1,300	1.3	0.0051	--
Chlorantraniliprole	Altacor	2.5	{1}	--	0.32	0.011	--
Cyantraniliprole	Exirel	4	4	100	--	--	--
Diazinon	Diazinon	0.5	--	20,100	--	--	--
Esfenvalerate	Asana	1	{0.2}	1,500	0.1	0.0056	--
Fenazaquin	Magister	0.8	--	--	--	--	--
Fenpropathrin	Danitol	3	5	8,400	1	0.023	--
Flupyradifurone	Sivanto	4	--	300	--	--	--
Imidacloprid	Admire, others	3.5	5	6,700	0.44	0.01	--
Indoxacarb	Avaunt	1.5	--	--	0.046	0.01	--
Malathion	Malathion	8	10	114,600	0.67	0.0026	--
Metaldehyde	Deadline, others	0.15	--	D	--	--	--
Methomyl	Lannate	6	{0.2}	46,500	2.5	0.013	--
Methoxyfenozide	Intrepid	3	4	4,500	0.58	0.0089	--
Methyl bromide	Methyl Bromide	20	--	--	--	--	--
Novaluron	Rimon	7	7	D	0.024	0.015	--
Phosmet	Imidan	10	10	125,500	1.7	0.0025	--
Pyrethrins	Several	1 <i>Exempt</i>	--	D	--	--	--
Pyriproxyfen	Knack	1	--	--	--	--	--
Spinetoram	Delegate	0.5	{0.2}	1,300	0.09	0.0055	--
Spinosad	Entrust, Success	0.4	0.4	1,500	0.047	0.003	--
Spirotetramat	Movento	3	{1.5}	--	--	--	--

## INSECTICIDES: Status of Chinese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	China (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
<b>Tebufenozide</b>	Confirm	3	3	D	1.3	0.0053	--
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	1,600	0.0073	0.0028	--
<b>Tolfenpyrad</b>	Bexar	7	--	--	--	--	--
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	--	3,500	0.66 <sup>a</sup>	0.011 <sup>a</sup>	--

D: NASS Withheld to avoid disclosing data for individual operations.

<sup>a</sup> Tested for as cypermethrin

## HERBICIDES & OTHER: Status of Chinese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	China (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
<b>2,4-D</b>	2,4 D	0.2	{0.1}	D	--	--	--
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	--	200	--	--	--
<b>Clethodim</b>	Select Max, others	0.2	--	2,500	--	--	--
<b>Clopyralid</b>	Stinger	0.5	--	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	0.2	4,500	--	--	--
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	--	D	--	--	--
<b>Diuron</b>	Karmex, Diuron	0.1	--	50,300	--	--	--
<b>Ethephon</b>	Ethephon	20	20	--	--	--	--
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	--	--	--	--	--
<b>Fluazinam</b>	Omega	7	--	D	--	--	--
<b>Fludioxonil</b>	Switch	2	2	8,900	0.63	0.01	--
<b>Flumioxazin</b>	Chateau, others	0.02	--	7,600	--	--	--
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	40,900	--	--	--
<b>Glyphosate</b>	Roundup, others	0.2	{0.1}	22,900	--	--	--
<b>Halosulfuron-methyl</b>	Sandea	0.05	--	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	--	5,100	--	--	--
<b>Indaziflam</b>	Alion	0.01	--	D	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01	3,900	--	--	--
<b>Napropamide</b>	Devrinol	0.1	--	D	--	--	--
<b>Norflurazon</b>	Solicam	0.2	--	54,700	--	--	--
<b>Oryzalin</b>	Surflan	0.05	--	63,300	0.021	0.021	--
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.01}	17,400	--	--	--
<b>Pendimethalin</b>	Several	0.1	--	68,700	--	--	--
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	--	D	0.037	0.037	--
<b>Propyzamide</b>	Kerb	0.05	--	--	--	--	--

## HERBICIDES & OTHER: Status of Chinese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	China (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
Quinclorac	Quinstar	0.08	--	--	--	--	--
Rimsulfuron	Matrix	0.01	--	D	--	--	--
Sethoxydim	Poast	4	--	300	--	--	--
Simazine	Princep, others	0.2	--	45,100	0.012	0.0085	--
S-metolachlor	Dual	0.15	--	3,600	--	--	--
Sulfentrazone	Zeus, others	0.15	--	1,600	--	--	--
Terbacil	Sinbar	0.2	--	12,200	--	--	--

D: NASS Withheld to avoid disclosing data for individual operations.

## VI. European Union MRL Status

### FUNGICIDES: Status of European MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	European Union (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020-2022 EU Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	17,800	1	0.0027	Yes
Boscalid	Pristine	13	15	10,700	1.7	0.0051	Yes
Captan	Captan, Captevate	20	30	356,500	--	--	Yes
Chlorothalonil	Bravo, others	1	{0.01}	26,600	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	3	16,000	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	4	900	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	1 Pending 0.5 Apr 07, 2020	12,600	0.38	0.0051	Yes
Fenhexamid	Elevate, Captevate	5	20	4,900	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	{4}	--	--	--	Yes
Fluopyram	Luna Privilege/Tranquility	7	7	1700	--	--	Yes
Fluxapyroxad	Xemium	7	7	D	--	--	Yes
Fosetyl-Al	Aliette	40	80	D	--	--	--
Iprodione	Rovral, Iprodione	15	{0.01}	5,800	2.7	0.0052	Yes
Isofetamid	Kenja	5	{0.01}	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	{0.01}	2,000	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	6,000	0.14	0.011	--
Penthiopyrad	Fontelis	6	{0.01}	--	--	--	Yes
Propiconazole	Tilt, Quilt Xcel, others	1	{0.01}	8,900	0.068	0.068	Yes
Prothioconazole	Proline, Propulse	2	{0.01}	500	--	--	Yes
Pyraclostrobin	Pristine	4	4	5,600	0.26	0.002	Yes

## FUNGICIDES: Status of European MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	European Union (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020-2022 EU Monitoring
<b>Pyrimethanil</b>	Luna Tranquility	8	8	5,100	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Prolivo	1.5	{0.01}* <span style="background-color: yellow;">{0.01}*</span>	--	--	--	--
<b>Ziram</b>	Ziram	7	{0.1} <span style="background-color: yellow;">{0.1}</span>	66,500	--	--	Yes

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

D: NASS Withheld to avoid disclosing data for individual operations.

## INSECTICIDES: Status of European MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	European Union (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020-2022 EU Monitoring
Acetamiprid	Assail, others	1.6	2	3,600	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	3	7,000	0.77	0.013	Yes
Carbaryl	Sevin	3	{0.01}	1,300	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	{1.5}	--	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	4	100	--	--	--
Diazinon	Diazinon	0.5	{0.01}	20,100	--	--	Yes
Esfenvalerate	Asana	1	{0.02}	1,500	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.01}	--	--	--	Yes
Fenpropathrin	Danitol	3	{0.01}	8,400	1	0.023	Yes
Flupyradifurone	Sivanto	4	{0.01}	300	--	--	--
Imidacloprid	Admire, others	3.5	5	6,700	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	{0.8}	--	0.046	0.01	Yes
Malathion	Malathion	8	{0.02}	114,600	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	{0.05}	D	--	--	--
Methomyl	Lannate	6	{0.01}	46,500	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	4	4,500	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	{5}	--	--	--	Yes
Novaluron	Rimon	7	7	D	0.024	0.015	--
Phosmet	Imidan	10	10	125,500	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1	D	--	--	--
Pyriproxyfen	Knack	1	{0.05}	--	--	--	Yes
Spinetoram	Delegate	0.5	{0.4}	1,300	0.09	0.0055	--
Spinosad	Entrust, Success	0.4	1.5	1,500	0.047	0.003	Yes
Spirotetramat	Movento	3	{0.7}	--	--	--	Yes
Tebufenozide	Confirm	3	3	D	1.3	0.0053	Yes



## INSECTICIDES: Status of European MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	European Union (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020-2022 EU Monitoring
<b>Thiamethoxam</b>	Actara, Platinum	0.2	{0.01}	1,600	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	{0.01}*	--	--	--	--
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	{0.05}	3,500	0.66 <sup>a</sup>	0.011 <sup>a</sup>	Yes
* Indicates where the European default MRL of 0.01 ppm applies because no specific MRL has been established.							
D: NASS Withheld to avoid disclosing data for individual operations.							
<sup>a</sup> Tested for as cypermethrin							

## HERBICIDES & OTHER: Status of European MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	European Union (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020-2022 EU Monitoring
<b>2,4-D</b>	2,4 D	0.2	{0.1}	D	--	--	Yes
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	{0.01}	200	--	--	--
<b>Clethodim</b>	Select Max, others	0.2	{0.1}	2,500	--	--	--
<b>Clopyralid</b>	Stinger	0.5	0.5	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	{0.01}	4,500	--	--	--
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	{0.01}	D	--	--	--
<b>Diuron</b>	Karmex, Diuron	0.1	{0.01}	50,300	--	--	--
<b>Ethephon</b>	Ethephon	20	20	--	--	--	Yes
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.1}	--	--	--	Yes
<b>Fluazinam</b>	Omega	7	{3}	D	--	--	--
<b>Fludioxonil</b>	Switch	2	2	8,900	0.63	0.01	--
<b>Flumioxazin</b>	Chateau, others	0.02	0.02	7,600	--	--	--
<b>Glufosinate-ammonium</b>	Rely, others	0.15	0.9	40,900	--	--	--
<b>Glyphosate</b>	Roundup, others	0.2	{0.1}	22,900	--	--	Yes
<b>Halosulfuron-methyl</b>	Sandea	0.05	{0.01}	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	{0.01}	5,100	--	--	--
<b>Indaziflam</b>	Alion	0.01	0.01	D	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01	3,900	--	--	--
<b>Napropamide</b>	Devrinol	0.1	0.1	D	--	--	--
<b>Norflurazon</b>	Solicam	0.2	{0.01}	54,700	--	--	--
<b>Oryzalin</b>	Surflan	0.05	{0.01}	63,300	0.021	0.021	--
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.02}	17,400	--	--	--
<b>Pendimethalin</b>	Several	0.1	{0.05}	68,700	--	--	--
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	--	D	0.037	0.037	--
<b>Propyzamide</b>	Kerb	0.05	{0.01}	--	--	--	Yes

## HERBICIDES & OTHER: Status of European MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	European Union (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020-2022 EU Monitoring
<b>Quinclorac</b>	Quinstar	0.08	{0.01}	--	--	--	--
<b>Rimsulfuron</b>	Matrix	0.01	0.01	D	--	--	--
<b>Sethoxydim</b>	Poast	4	{0.1}	300	--	--	--
<b>Simazine</b>	Princep, others	0.2	{0.01}	45,100	0.012	0.0085	--
<b>S-metolachlor</b>	Dual	0.15	{0.05}	3,600	--	--	--
<b>Sulfentrazone</b>	Zeus, others	0.15	{0.01}*	1,600	--	--	--
<b>Terbacil</b>	Sinbar	0.2	{0.01}*	12,200	--	--	--

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

D: NASS Withheld to avoid disclosing data for individual operations.

## VII. Japanese MRL Status

### FUNGICIDES: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Japan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2019 Japan Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	17,800	1	0.0027	Yes
Boscalid	Pristine	13	{10}	10,700	1.7	0.0051	Yes
Captan	Captan, Captevate	20	20	356,500	--	--	Yes
Chlorothalonil	Bravo, others	1	1	26,600	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	5	16,000	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	4	900	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.7	12,600	0.38	0.0051	Yes
Fenhexamid	Elevate, Captevate	5	5	4,900	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	5 Import Tolerance	--	--	--	--
Fluopyram	Luna Privilege/ Tranquility	7	7	1700	--	--	--
Fluxapyroxad	Xemium	7	7	D	--	--	--
Fosetyl-Al	Aliette	40	70	D	--	--	Yes
Iprodione	Rovral, Iprodione	15	15	5,800	2.7	0.0052	Yes
Isofetamid	Kenja	5	{4} Import Tolerance	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	2	2,000	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	6,000	0.14	0.011	Yes
Penthiopyrad	Fontelis	6	{3}	--	--	--	--
Propiconazole	Tilt, Quilt Xcel, others	1	1	8,900	0.068	0.068	Yes
Prothioconazole	Proline, Propulse	2	2	500	--	--	--
Pyraclostrobin	Pristine	4	4	5,600	0.26	0.002	Yes

## FUNGICIDES: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Japan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2019 Japan Monitoring
<b>Pyrimethanil</b>	Luna Tranquility	8	{5}	5,100	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Proливо	1.5	2	--	--	--	--
<b>Ziram</b>	Ziram	7	{5}	66,500	--	--	--

D: NASS Withheld to avoid disclosing data for individual operations.

## INSECTICIDES: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Japan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2019 Japan Monitoring
Acetamiprid	Assail, others	1.6	2	3,600	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	2	7,000	0.77	0.013	Yes
Carbaryl	Sevin	3	7	1,300	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	3	--	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	4	100	--	--	--
Diazinon	Diazinon	0.5	{0.1}	20,100	--	--	Yes
Esfenvalerate	Asana	1	1	1,500	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.01}*	--	--	--	--
Fenpropathrin	Danitol	3	5	8,400	1	0.023	Yes
Flupyradifurone	Sivanto	4	4	300	--	--	--
Imidacloprid	Admire, others	3.5	4	6,700	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	{0.01}*	--	0.046	0.01	Yes
Malathion	Malathion	8	10	114,600	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	{0.01}*	D	--	--	Yes
Methomyl	Lannate	6	{1}	46,500	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	4	4,500	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	20	--	--	--	Yes
Novaluron	Rimon	7	7	D	0.024	0.015	Yes
Phosmet	Imidan	10	10	125,500	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1	D	--	--	Yes
Pyriproxyfen	Knack	1	1	--	--	--	Yes
Spinetoram	Delegate	0.5	0.5	1,300	0.09	0.0055	--
Spinosad	Entrust, Success	0.4	0.4	1,500	0.047	0.003	Yes
Spirotetramat	Movento	3	3	--	--	--	Yes
Tebufenozide	Confirm	3	3	D	1.3	0.0053	Yes

## INSECTICIDES: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Japan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2019 Japan Monitoring
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	1,600	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	{0.01}*	--	--	--	Yes
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	{0.5}	3,500	0.66 <sup>a</sup>	0.011 <sup>a</sup>	Yes
* Indicates where the Japanese default MRL of 0.01 ppm applies because no specific MRL has been established.							
D: NASS Withheld to avoid disclosing data for individual operations.							
<sup>a</sup> Tested for as cypermethrin							

## HERBICIDES & OTHER: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Japan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2019 Japan Monitoring
<b>2,4-D</b>	2,4 D	0.2	{0.1}	D	--	--	Yes
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	0.1	200	--	--	Yes
<b>Clethodim</b>	Select Max, others	0.2	{0.01}*	2,500	--	--	--
<b>Clopyralid</b>	Stinger	0.5	{0.01}*	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	{0.01}*	4,500	--	--	--
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	{0.03}	D	--	--	Yes
<b>Diuron</b>	Karmex, Diuron	0.1	{0.05}	50,300	--	--	Yes
<b>Ethephon</b>	Ethephon	20	20	--	--	--	Yes
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.01}*	--	--	--	Yes
<b>Fluazinam</b>	Omega	7	{4}	D	--	--	Yes
<b>Fludioxonil</b>	Switch	2	2	8,900	0.63	0.01	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	0.02	7,600	--	--	Yes
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	40,900	--	--	Yes
<b>Glyphosate</b>	Roundup, others	0.2	0.2	22,900	--	--	Yes
<b>Halosulfuron-methyl</b>	Sandea	0.05	0.05	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	{0.2}	5,100	--	--	--
<b>Indaziflam</b>	Alion	0.01	0.01*	D	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01	3,900	--	--	--
<b>Napropamide</b>	Devrinol	0.1	0.1	D	--	--	Yes
<b>Norflurazon</b>	Solicam	0.2	0.2	54,700	--	--	Yes
<b>Oryzalin</b>	Surflan	0.05	0.08	63,300	0.021	0.021	Yes
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	0.05	17,400	--	--	Yes
<b>Pendimethalin</b>	Several	0.1	{0.05}	68,700	--	--	Yes
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	8	D	0.037	0.037	Yes
<b>Propyzamide</b>	Kerb	0.05	{0.01}*	--	--	--	Yes



## HERBICIDES & OTHER: Status of Japanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Japan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2019 Japan Monitoring
Quinclorac	Quinstar	0.08	2 Import Tolerance	--	--	--	--
Rimsulfuron	Matrix	0.01	0.05	D	--	--	Yes
Sethoxydim	Poast	4	4	300	--	--	Yes
Simazine	Princep, others	0.2	0.2	45,100	0.012	0.0085	Yes
S-metolachlor	Dual	0.15	{0.01}*	3,600	--	--	Yes
Sulfentrazone	Zeus, others	0.15	{0.05}	1,600	--	--	Yes
Terbacil	Sinbar	0.2	{0.1}	12,200	--	--	Yes

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

D: NASS Withheld to avoid disclosing data for individual operations.

## VIII. Korean MRL Status

### FUNGICIDES: Status of Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Korea (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Korea Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	7	17,800	1	0.0027	Yes
Boscalid	Pristine	13	{10} Import Tolerance	10,700	1.7	0.0051	Yes
Captan	Captan, Captevate	20	20 Import Tolerance	356,500	--	--	Yes
Chlorothalonil	Bravo, others	1	1 Expires Dec 31, 2021	26,600	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	4 Import Tolerance	16,000	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	4 Expires Dec 31, 2021	900	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.5 Expires Dec 31, 2021	12,600	0.38	0.0051	--
Fenhexamid	Elevate, Captevate	5	5 Import Tolerance	4,900	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	{4} Import Tolerance	--	--	--	Yes
Fluopyram	Luna Privilege, Luna Tranquility	7	{6} Import Tolerance	1700	--	--	--
Fluxapyroxad	Xemium	7	7 Import Tolerance	D	--	--	--
Fosetyl-Al	Aliette	40	{1} Expires Dec 31, 2021	D	--	--	Yes
Iprodione	Rovral, Iprodione	15	{10}	5,800	2.7	0.0052	Yes

## FUNGICIDES: Status of Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Korea (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Korea Monitoring
<b>Isofetamid</b>	Kenja	5	{3} Expires Dec 31, 2021	--	--	--	Yes
<b>Metalaxyl-M (Mefenoxam)</b>	Ridomil	2	{0.01}*	2,000	0.027	0.0032	--
<b>Metconazole</b>	Quash	0.4	0.4 Import Tolerance	6,000	0.14	0.011	--
<b>Penthiopyrad</b>	Fontelis	6	{0.5} Pending 0.07 Apr 01, 2020	--	--	--	--
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	{0.5} Expires Dec 31, 2021	8,900	0.068	0.068	--
<b>Prothioconazole</b>	Proline, Propulse	2	2 Expires Dec 31, 2021	500	--	--	--
<b>Pyraclostrobin</b>	Pristine	4	4 Import Tolerance	5,600	0.26	0.002	Yes
<b>Pyrimethanil</b>	Luna Tranquility	8	8 Import Tolerance	5,100	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Proливо	1.5	2 Expires Dec 31, 2021	--	--	--	Yes
<b>Ziram</b>	Ziram	7	{5} Expires Dec 31, 2021	66,500	--	--	Yes

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

D: NASS Withheld to avoid disclosing data for individual operations.

## INSECTICIDES: Status of Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Korea (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Korea Monitoring
Acetamiprid	Assail, others	1.6	{0.5}	3,600	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	{0.3}	7,000	0.77	0.013	Yes
Carbaryl	Sevin	3	{0.5} Expires Dec 31, 2021	1,300	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	{1}	--	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	4 Import Tolerance	100	--	--	Yes
Diazinon	Diazinon	0.5	{0.01}*	20,100	--	--	Yes
Esfenvalerate	Asana	1	{0.01}*	1,500	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.01}*	--	--	--	--
Fenpropathrin	Danitol	3	{0.5} Expires Dec 31, 2021	8,400	1	0.023	Yes
Flupyradifurone	Sivanto	4	4 Import Tolerance	300	--	--	--
Imidacloprid	Admire, others	3.5	4 Import Tolerance	6,700	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	2	--	0.046	0.01	--
Malathion	Malathion	8	10 Import Tolerance	114,600	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	{0.05} Expires Dec 31, 2021	D	--	--	--
Methomyl	Lannate	6	{1} Expires Dec 31, 2021	46,500	2.5	0.013	Yes
Methoxyfenozone	Intrepid	3	3 Import Tolerance	4,500	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	20 Expires Dec 31, 2021	--	--	--	Yes

## INSECTICIDES: Status of Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
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Active Ingredient	Trade Name	United States (ppm)	Korea (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Korea Monitoring
Novaluron	Rimon	7	7 <i>Expires Dec 31, 2021</i>	D	0.024	0.015	--
Phosmet	Imidan	10	10 Import Tolerance	125,500	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1 <i>Expires Dec 31, 2021</i>	D	--	--	Yes
Pyriproxyfen	Knack	1	1 <i>Expires Dec 31, 2021</i>	--	--	--	--
Spinetoram	Delegate	0.5	{0.2} Import Tolerance	1,300	0.09	0.0055	--
Spinosad	Entrust, Success	0.4	1	1,500	0.047	0.003	--
Spirotetramat	Movento	3	3	--	--	--	Yes
Tebufenozide	Confirm	3	3 Import Tolerance	D	1.3	0.0053	--
Thiamethoxam	Actara, Platinum	0.2	1	1,600	0.0073	0.0028	Yes
Tolfenpyrad	Bexar	7	{0.01}* <i>Expires Dec 31, 2021</i>	--	--	--	Yes
Zeta-Cypermethrin	Mustang Max	0.8	2 <i>Expires Dec 31, 2021</i>	3,500	0.66 <sup>a</sup>	0.011 <sup>a</sup>	Yes

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

D: NASS Withheld to avoid disclosing data for individual operations.

<sup>a</sup> Tested for as cypermethrin

## HERBICIDES & OTHER: Status of Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Korea (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Korea Monitoring
2,4-D	2,4 D	0.2	{0.05} Expires Dec 31, 2021	D	--	--	Yes
Carfentrazone-ethyl	Aim, Zeus	0.1	0.1 Expires Dec 31, 2021	200	--	--	--
Clethodim	Select Max, others	0.2	{0.05} Expires Dec 31, 2021	2,500	--	--	Yes
Clopyralid	Stinger	0.5	3 Pending 0.5 Apr 01, 2020	100	--	--	Yes
Dichlobenil	Casoron	0.15	{0.05} Expires Dec 31, 2021	4,500	--	--	Yes
Diquat dibromide	Diquat, Reglone	0.05	{0.02} Expires Dec 31, 2021	D	--	--	Yes
Diuron	Karmex, Diuron	0.1	1 Expires Dec 31, 2021	50,300	--	--	--
Ethephon	Ethephon	20	{2} Expires Dec 31, 2021	--	--	--	Yes
Fluazifop-P-butyl	Fusilade	0.3	{0.01}* Expires Dec 31, 2021	--	--	--	--
Fluazinam	Omega	7	{5}	D	--	--	--
Fludioxonil	Switch	2	2 Import Tolerance	8,900	0.63	0.01	Yes
Flumioxazin	Chateau, others	0.02	{0.01}* Expires Dec 31, 2021	7,600	--	--	--
Glufosinate-ammonium	Rely, others	0.15	{0.1} Import Tolerance	40,900	--	--	Yes
Glyphosate	Roundup, others	0.2	0.2 Expires Dec 31, 2021	22,900	--	--	Yes
Halosulfuron-methyl	Sandea	0.05	{0.01}* Expires Dec 31, 2021	100	--	--	Yes

## HERBICIDES & OTHER: Status of Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Korea (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Korea Monitoring
Hexazinone	Velpar	0.6	{0.05} Import Tolerance	5,100	--	--	--
Indaziflam	Alion	0.01	0.01*	D	--	--	Yes
Mesotrione	Callisto, others	0.01	0.01*	3,900	--	--	Yes
Napropamide	Devrinol	0.1	{0.05} Expires Dec 31, 2021	D	--	--	--
Norflurazon	Solicam	0.2	{0.1} Expires Dec 31, 2021	54,700	--	--	--
Oryzalin	Surflan	0.05	0.05 Expires Dec 31, 2021	63,300	0.021	0.021	Yes
Paraquat dichloride	Gramoxone, others	0.05	0.05 Expires Dec 31, 2021	17,400	--	--	Yes
Pendimethalin	Several	0.1	{0.05} Expires Dec 31, 2021	68,700	--	--	--
Piperonyl Butoxide	PBO, several	8 <i>Exempt</i>	{0.2} Expires Dec 31, 2021	D	0.037	0.037	Yes
Propyzamide	Kerb	0.05	0.05 Expires Dec 31, 2021	--	--	--	--
Quinclorac	Quinstar	0.08	{0.01}*	--	--	--	Yes
Rimsulfuron	Matrix	0.01	0.01*	D	--	--	--
Sethoxydim	Poast	4	{1} Expires Dec 31, 2021	300	--	--	Yes
Simazine	Princep, others	0.2	0.25 Expires Dec 31, 2021	45,100	0.012	0.0085	--
S-metolachlor	Dual	0.15	{0.1} Expires Dec 31, 2021	3,600	--	--	--

## HERBICIDES & OTHER: Status of Korean MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Korea (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2020 Korea Monitoring
Sulfentrazone	Zeus, others	0.15	{0.05} Expires Dec 31, 2021	1,600	--	--	--
Terbacil	Sinbar	0.2	{0.1} Expires Dec 31, 2021	12,200	--	--	--

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

D: NASS Withheld to avoid disclosing data for individual operations.



## IX. Taiwanese MRL Status

### FUNGICIDES: Status of Taiwanese MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Cells shaded in yellow indicate actual residues detected in USDA tests higher than foreign MRLs
- Dashes "--" indicate that no MRL has been established in the market or the residue or monitoring information are not available

Active Ingredient	Trade Name	United States (ppm)	Taiwan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2017 Taiwan Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	17,800	1	0.0027	Yes
Boscalid	Pristine	13	{10}	10,700	1.7	0.0051	Yes
Captan	Captan, Captevate	20	20	356,500	--	--	--
Chlorothalonil	Bravo, others	1	1	26,600	0.11	0.021	--
Cyprodinil	Switch, Inspire Super	3	3	16,000	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	{1}	900	0.02	0.0065	--
Fenbuconazole	Indar	0.3	0.5	12,600	0.38	0.0051	--
Fenhexamid	Elevate, Captevate	5	5	4,900	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	5	--	--	--	--
Fluopyram	Luna Privilege/Tranquility	7	--	1700	--	--	Yes
Fluxapyroxad	Xemium	7	{5}	D	--	--	--
Fosetyl-Al	Aliette	40	{20}	D	--	--	--
Iprodione	Rovral, Iprodione	15	{5}	5,800	2.7	0.0052	--
Isofetamid	Kenja	5	--	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	2	2,000	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	6,000	0.14	0.011	Yes
Penthiopyrad	Fontelis	6	--	--	--	--	--
Propiconazole	Tilt, Quilt Xcel, others	1	2	8,900	0.068	0.068	--
Prothioconazole	Proline, Propulse	2	{1.5}	500	--	--	--
Pyraclostrobin	Pristine	4	{1}	5,600	0.26	0.002	Yes
Pyrimethanil	Luna Tranquility	8	--	5,100	0.0062	0.0026	--
Pyriofenone	Prolivo	1.5	--	--	--	--	--
Ziram	Ziram	7	{5}	66,500	--	--	--

D: NASS Withheld to avoid disclosing data for individual operations.

## INSECTICIDES: Status of Taiwanese MRLs

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Active Ingredient	Trade Name	United States (ppm)	Taiwan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2017 Taiwan Monitoring
Acetamiprid	Assail, others	1.6	{1}	3,600	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	{1}	7,000	0.77	0.013	--
Carbaryl	Sevin	3	{0.5}	1,300	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	{2}	--	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	--	100	--	--	--
Diazinon	Diazinon	0.5	0.5	20,100	--	--	--
Esfenvalerate	Asana	1	1	1,500	0.1	0.0056	--
Fenazaquin	Magister	0.8	{0.01}	--	--	--	Yes
Fenpropathrin	Danitol	3	3	8,400	1	0.023	--
Flupyradifurone	Sivanto	4	4	300	--	--	Yes
Imidacloprid	Admire, others	3.5	{1}	6,700	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	{1}	--	0.046	0.01	Yes
Malathion	Malathion	8	{0.01}	114,600	0.67	0.0026	--
Metaldehyde	Deadline, others	0.15	--	D	--	--	--
Methomyl	Lannate	6	{2}	46,500	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	4	4,500	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	--	--	--	--	--
Novaluron	Rimon	7	--	D	0.024	0.015	--
Phosmet	Imidan	10	{0.01}	125,500	1.7	0.0025	--
Pyrethrins	Several	1 <i>Exempt</i>	--	D	--	--	Yes
Pyriproxyfen	Knack	1	{0.5}	--	--	--	--
Spinetoram	Delegate	0.5	{0.2}	1,300	0.09	0.0055	Yes
Spinosad	Entrust, Success	0.4	0.4	1,500	0.047	0.003	Yes
Spirotetramat	Movento	3	--	--	--	--	Yes

## INSECTICIDES: Status of Taiwanese MRLs

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Active Ingredient	Trade Name	United States (ppm)	Taiwan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2017 Taiwan Monitoring
<b>Tebufenozide</b>	Confirm	3	{0.01}	D	1.3	0.0053	Yes
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	1,600	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	{0.01}	--	--	--	Yes
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	2	3,500	0.66 <sup>a</sup>	0.011 <sup>a</sup>	--
D: NASS Withheld to avoid disclosing data for individual operations.							
<sup>a</sup> Tested for as cypermethrin							

## HERBICIDES & OTHER: Status of Taiwanese MRLs

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Active Ingredient	Trade Name	United States (ppm)	Taiwan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2017 Taiwan Monitoring
<b>2,4-D</b>	2,4 D	0.2	{0.1}	D	--	--	--
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	0.1	200	--	--	Yes
<b>Clethodim</b>	Select Max, others	0.2	--	2,500	--	--	Yes
<b>Clopyralid</b>	Stinger	0.5	--	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	--	4,500	--	--	--
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	--	D	--	--	--
<b>Diuron</b>	Karmex, Diuron	0.1	--	50,300	--	--	Yes
<b>Ethephon</b>	Ethephon	20	{2}	--	--	--	--
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.01}	--	--	--	Yes
<b>Fluazinam</b>	Omega	7	--	D	--	--	--
<b>Fludioxonil</b>	Switch	2	2	8,900	0.63	0.01	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	--	7,600	--	--	--
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	40,900	--	--	--
<b>Glyphosate</b>	Roundup, others	0.2	0.2	22,900	--	--	--
<b>Halosulfuron-methyl</b>	Sandea	0.05	--	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	{0.01}	5,100	--	--	--
<b>Indaziflam</b>	Alion	0.01	--	D	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01	3,900	--	--	--
<b>Napropamide</b>	Devrinol	0.1	{0.01}	D	--	--	--
<b>Norflurazon</b>	Solicam	0.2	{0.1}	54,700	--	--	--
<b>Oryzalin</b>	Surflan	0.05	--	63,300	0.021	0.021	--
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.01}	17,400	--	--	--
<b>Pendimethalin</b>	Several	0.1	{0.01}	68,700	--	--	--
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	--	D	0.037	0.037	Yes
<b>Propyzamide</b>	Kerb	0.05	--	--	--	--	--

## HERBICIDES & OTHER: Status of Taiwanese MRLs

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Active Ingredient	Trade Name	United States (ppm)	Taiwan (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	2017 Taiwan Monitoring
<b>Quinclorac</b>	Quinstar	0.08	--	--	--	--	--
<b>Rimsulfuron</b>	Matrix	0.01	--	D	--	--	--
<b>Sethoxydim</b>	Poast	4	--	300	--	--	Yes
<b>Simazine</b>	Princep, others	0.2	0.2	45,100	0.012	0.0085	Yes
<b>S-metolachlor</b>	Dual	0.15	0.15	3,600	--	--	--
<b>Sulfentrazone</b>	Zeus, others	0.15	--	1,600	--	--	--
<b>Terbacil</b>	Sinbar	0.2	--	12,200	--	--	--
D: NASS Withheld to avoid disclosing data for individual operations.							

## X. Vietnamese MRL Status

### FUNGICIDES: Status of Vietnamese MRLs

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Active Ingredient	Trade Name	United States (ppm)	Vietnam (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Vietnam Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	17,800	1	0.0027	--
Boscalid	Pristine	13	{10}	10,700	1.7	0.0051	--
Captan	Captan, Captevate	20	20	356,500	--	--	--
Chlorothalonil	Bravo, others	1	--	26,600	0.11	0.021	--
Cyprodinil	Switch, Inspire Super	3	10	16,000	1	0.003	--
Difenoconazole	Inspire Super, Quadris Top	4	--	900	0.02	0.0065	--
Fenbuconazole	Indar	0.3	0.5	12,600	0.38	0.0051	--
Fenhexamid	Elevate, Captevate	5	5	4,900	0.91	0.011	--
Fenpyrazamine	Protexio	5	--	--	--	--	--
Fluopyram	Luna Privilege / Tranquility	7	--	1700	--	--	--
Fluxapyroxad	Xemium	7	--	D	--	--	--
Fosetyl-Al	Aliette	40	--	D	--	--	--
Iprodione	Rovral, Iprodione	15	--	5,800	2.7	0.0052	--
Isofetamid	Kenja	5	--	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	--	2,000	0.027	0.0032	--
Metconazole	Quash	0.4	--	6,000	0.14	0.011	--
Penthiopyrad	Fontelis	6	--	--	--	--	--
Propiconazole	Tilt, Quilt Xcel, others	1	--	8,900	0.068	0.068	--
Prothioconazole	Proline, Propulse	2	{1.5}	500	--	--	--
Pyraclostrobin	Pristine	4	4	5,600	0.26	0.002	--
Pyrimethanil	Luna Tranquility	8	--	5,100	0.0062	0.0026	--
Pyriofenone	Prolivo	1.5	--	--	--	--	--
Ziram	Ziram	7	--	66,500	--	--	--

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## INSECTICIDES: Status of Vietnamese MRLs

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Active Ingredient	Trade Name	United States (ppm)	Vietnam (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Vietnam Monitoring
Acetamiprid	Assail, others	1.6	2	3,600	0.19	0.0022	--
Bifenthrin	Brigade, others	1.8	--	7,000	0.77	0.013	--
Carbaryl	Sevin	3	--	1,300	1.3	0.0051	--
Chlorantraniliprole	Altacor	2.5	{1}	--	0.32	0.011	--
Cyantraniliprole	Exirel	4	4	100	--	--	--
Diazinon	Diazinon	0.5	--	20,100	--	--	--
Esfenvalerate	Asana	1	--	1,500	0.1	0.0056	--
Fenazaquin	Magister	0.8	--	--	--	--	--
Fenpropathrin	Danitol	3	--	8,400	1	0.023	--
Flupyradifurone	Sivanto	4	--	300	--	--	--
Imidacloprid	Admire, others	3.5	5	6,700	0.44	0.01	--
Indoxacarb	Avaunt	1.5	--	--	0.046	0.01	--
Malathion	Malathion	8	10	114,600	0.67	0.0026	--
Metaldehyde	Deadline, others	0.15	--	D	--	--	--
Methomyl	Lannate	6	--	46,500	2.5	0.013	--
Methoxyfenozide	Intrepid	3	4	4,500	0.58	0.0089	--
Methyl bromide	Methyl Bromide	20	20	--	--	--	--
Novaluron	Rimon	7	7	D	0.024	0.015	--
Phosmet	Imidan	10	10	125,500	1.7	0.0025	--
Pyrethrins	Several	1 <i>Exempt</i>	--	D	--	--	--
Pyriproxyfen	Knack	1	--	--	--	--	--
Spinetoram	Delegate	0.5	{0.2}	1,300	0.09	0.0055	--
Spinosad	Entrust, Success	0.4	0.4	1,500	0.047	0.003	--
Spirotetramat	Movento	3	{1.5}	--	--	--	--

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Active Ingredient	Trade Name	United States (ppm)	Vietnam (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Vietnam Monitoring
<b>Tebufenozide</b>	Confirm	3	3	D	1.3	0.0053	--
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	1,600	0.0073	0.0028	--
<b>Tolfenpyrad</b>	Bexar	7	--	--	--	--	--
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	--	3,500	0.66 <sup>a</sup>	0.011 <sup>a</sup>	--

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<sup>a</sup> Tested for as cypermethrin



## HERBICIDES & OTHER: Status of Vietnamese MRLs

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Active Ingredient	Trade Name	United States (ppm)	Vietnam (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Vietnam Monitoring
<b>2,4-D</b>	2,4 D	0.2	{0.1}	D	--	--	--
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	--	200	--	--	--
<b>Clethodim</b>	Select Max, others	0.2	--	2,500	--	--	--
<b>Clopyralid</b>	Stinger	0.5	--	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	--	4,500	--	--	--
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	--	D	--	--	--
<b>Diuron</b>	Karmex, Diuron	0.1	--	50,300	--	--	--
<b>Ethephon</b>	Ethephon	20	20	--	--	--	--
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	--	--	--	--	--
<b>Fluazinam</b>	Omega	7	--	D	--	--	--
<b>Fludioxonil</b>	Switch	2	2	8,900	0.63	0.01	--
<b>Flumioxazin</b>	Chateau, others	0.02	--	7,600	--	--	--
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	40,900	--	--	--
<b>Glyphosate</b>	Roundup, others	0.2	--	22,900	--	--	--
<b>Halosulfuron-methyl</b>	Sandea	0.05	--	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	--	5,100	--	--	--
<b>Indaziflam</b>	Alion	0.01	--	D	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01	3,900	--	--	--
<b>Napropamide</b>	Devrinol	0.1	--	D	--	--	--
<b>Norflurazon</b>	Solicam	0.2	--	54,700	--	--	--
<b>Oryzalin</b>	Surflan	0.05	--	63,300	0.021	0.021	--
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.01}	17,400	--	--	--
<b>Pendimethalin</b>	Several	0.1	--	68,700	--	--	--
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	--	D	0.037	0.037	--
<b>Propyzamide</b>	Kerb	0.05	--	--	--	--	--

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Active Ingredient	Trade Name	United States (ppm)	Vietnam (ppm)	2017 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Vietnam Monitoring
Quinclorac	Quinstar	0.08	--	--	--	--	--
Rimsulfuron	Matrix	0.01	--	D	--	--	--
Sethoxydim	Poast	4	--	300	--	--	--
Simazine	Princep, others	0.2	--	45,100	0.012	0.0085	--
S-metolachlor	Dual	0.15	--	3,600	--	--	--
Sulfentrazone	Zeus, others	0.15	--	1,600	--	--	--
Terbacil	Sinbar	0.2	--	12,200	--	--	--

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