

February 24, 2021

To: Alicia Adler

From: Alinne Oliveira, Bryant Christie Inc.

**Re: 2021 International Blueberry MRL Memo**

On behalf of the U.S. Highbush Blueberry Council

As the 2021 blueberry season 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 **February 18, 2021** in the United States (U.S.), Australia, Canada, China, the European Union (EU), Great Britain (GB), Japan, Korea, the Philippines, Taiwan, and Viet Nam. The memo is divided into sections by country, and for each country includes: 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 **February 18, 2021**, please note that the 2021 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 2021 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 2021 season.

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## **I. United Kingdom Transition**

There is a new section that has been added to this Memo, “VIII. Great Britain MRL Status”.

The United Kingdom (UK) has left the European Union and the transition period came to an end on December 31, 2020. As of January 1, 2021, in Great Britain (England, Scotland, and Wales) a new independent pesticide regulatory regime is operating. Any new decisions taken under the EU regime on or after January 1, 2021, will not apply in Great Britain. This includes maximum residue level (MRL) decisions and any new EU plant protection product (PPP) legislation. However, Northern Ireland will continue to follow EU regulations.

To track the new Great Britain (GB) MRL system, we separated the EU and GB into two different sections. Over time the information pertaining to GB MRLs may differ from that of the European Union.

Please note that GB’s foreign pesticide residue screening program follows the UK screening program.

## II. 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 2022 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 **2019**, 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.

### III. Above-MRL Possibilities According to USDA Residue Data

- The following table indicates pesticides and markets where available pesticide testing data shows the possibility of a 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>
<b>Bifenthrin</b>	Brigade, others	China, Korea, Viet Nam
<b>Carbaryl</b>	Sevin	Australia, China, EU, GB, Korea, The Philippines, Taiwan, Viet Nam
<b>Chlorothalonil</b>	Bravo	China, EU, GB, The Philippines, Viet Nam
<b>Difenoconazole</b>	Inspire Super, Quadris Top	China, Viet Nam
<b>Esfenvalerate</b>	Asana	EU, GB, Korea, The Philippines, Viet Nam
<b>Fenbuconazole</b>	Indar	Australia, Canada, Korea
<b>Fenpropathrin</b>	Danitol	EU, GB, Korea, The Philippines, Viet Nam
<b>Imidacloprid</b>	Admire, others	Australia
<b>Indoxacarb</b>	Avaunt	China, Japan, The Philippines, Viet Nam
<b>Iprodione</b>	Rovral, iprodione	Canada, China, EU, GB, The Philippines, Viet Nam
<b>Malathion</b>	Malathion	EU, GB, Taiwan
<b>Metalaxyl-M</b>	Ridomil	China, EU, GB, Korea, The Philippines, Viet Nam
<b>Metconazole</b>	Quash	China, The Philippines, Viet Nam
<b>Methomyl</b>	Lannate	Australia, China, EU, GB, Korea, The Philippines, Japan, Taiwan, Viet Nam
<b>Novaluron</b>	Rimon	Taiwan
<b>Oryzalin</b>	Surflan	China, EU, GB, The Philippines, Taiwan, Viet Nam
<b>Phosmet</b>	Imidan	Taiwan
<b>Piperonil Butoxide</b>	PBO, several	China, EU, GB, The Philippines, Taiwan, Viet Nam
<b>Propiconazole</b>	Tilt, Quilt, Xcel, others	China, EU, GB, The Philippines, Viet Nam
<b>Pyrimethanil</b>	Luna Tranquility	Viet Nam
<b>Simazine</b>	Princep, others	China, EU, GB, The Philippines, Viet Nam
<b>Tebufenozide</b>	Confirm	Australia, Taiwan
<b>Zeta-Cypermethrin</b>	Mustang	Australia, China, EU, GB, Japan, The Philippines, Viet Nam

## IV. 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Australia Monitoring (2020)
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	13,800	1	0.0027	Yes
Boscalid	Pristine	13	15	6,600	1.7	0.0051	Yes
Captan	Captan, Captevate	20	20	175,900	--	--	Yes
Chlorothalonil	Bravo, others	1	10	31,100	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	3	8,400	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	{0.02}	400	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.3	6,400	0.38	0.0051	
Fenhexamid	Elevate, Captevate	5	5	1,300	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	5	--	--	--	
Fluazinam	Omega	7	7	--	--	--	
Fludioxonil	Switch	2	3	5,500	0.63	0.01	Yes
Fluopyram	Luna Privilege, Luna Tranquility	7	7	2,100	--	--	
Fluxapyroxad	Xemium	7	7	--	--	--	
Fosetyl-Al	Aliette	40	40	--	--	--	
Iprodione	Rovral, Iprodione	15	{12}	1,700	2.7	0.0052	Yes
Isofetamid	Kenja	5	5	(D)	--	--	
Mefentrifluconazole	Cevya	5	--	--	--	--	
Metalaxyl-M (Mefenoxam)	Ridomil	2	{0.5}	(D)	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	3,800	0.14	0.011	

## FUNGICIDES: Status of Australian MRLs

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Active Ingredient	Trade Name	United States (ppm)	Australia (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Australia Monitoring (2020)
<b>Oxathiapiprolin</b>	Orondis	0.5	{0.02}	--	--	--	
<b>Penthiopyrad</b>	Fontelis	6	{3}	--	--	--	
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	2	3,300	0.068	0.068	Yes
<b>Prothioconazole</b>	Proline, Propulse	2	2	1,800	--	--	
<b>Pydiflumetofen</b>	Miravis	5	{0.05}	--	--	--	
<b>Pyraclostrobin</b>	Pristine	4	5	3,400	0.26	0.002	Yes
<b>Pyrimethanil</b>	Luna Tranquility	8	8	2,500	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Prolivo	1.5	{0.05}	--	--	--	
<b>Ziram</b>	Ziram	7	15	43,200	--	--	

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



## INSECTICIDES: Status of Australian 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)	Australia (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Australia Monitoring (2020)
Acetamiprid	Assail, others	1.6	1.6	1,900	0.19	0.0022	
Bifenthrin	Brigade, others	1.8	3	5,100	0.77	0.013	Yes
Carbaryl	Sevin	3	{0.02}	800	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	3	(D)	0.32	0.011	
Cyantraniliprole	Exirel	4	4	100	--	--	
Diazinon	Diazinon	0.5	0.5	5,200	--	--	Yes
Esfenvalerate	Asana	1	1	1,400	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	--	--	--	--	
Fenpropathrin	Danitol	3	3	5,900	1	0.023	
Fenpyroximate	Fujimite	3	{0.1}	--	--	--	Yes
Flupyradifurone	Sivanto	4	4	400	--	--	
Imidacloprid	Admire, others	3.5	{0.1}	3,100	0.44	0.01	
Indoxacarb	Avaunt	1.5	2	(D)	0.046	0.01	Yes
Malathion	Malathion	8	10	60,400	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	1	--	--	--	
Methomyl	Lannate	6	{2}	21,700	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	{2}	2,900	0.58	0.0089	
Methyl bromide	Methyl Bromide	20	20	--	--	--	
Novaluron	Rimon	7	{0.1}	--	0.024	0.015	
Phosmet	Imidan	10	10	58,100	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1	100	--	--	Yes
Pyriproxyfen	Knack	1	{0.1}	--	--	--	Yes

## INSECTICIDES: Status of Australian MRLs

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Active Ingredient	Trade Name	United States (ppm)	Australia (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Australia Monitoring (2020)
<b>Spinetoram</b>	Delegate	0.5	0.5	1,200	0.09	0.0055	
<b>Spinosad</b>	Entrust, Success	0.4	0.7	2,000	0.047	0.003	Yes
<b>Spirotetramat</b>	Movento	3	3	(D)	--	--	Yes
<b>Sulfoxaflor</b>	Closer, Sequoia	2	{0.7}	--	--	--	
<b>Tebufenozide</b>	Confirm	3	{0.05}	(D)	1.3	0.0053	Yes
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	200	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	--	--	--	--	
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	{0.5}	2,300	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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- 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)	Australia (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Australia Monitoring (2020)
<b>2,4-D</b>	2,4 D	0.2	{0.05}	200	--	--	
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	{0.05}	100	--	--	
<b>Clethodim</b>	Select Max, Others	0.2	0.2	1,400	--	--	
<b>Clopyralid</b>	Stinger	0.5	0.5	100	--	--	
<b>Dichlobenil</b>	Casoron	0.15	1	200	--	--	
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	0.05	(D)	--	--	
<b>Diuron</b>	Karmex, Diuron	0.1	--	23,000	--	--	Yes
<b>Ethephon</b>	Ethephon	20	{10}	--	--	--	
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.2}	(D)	--	--	
<b>Flumioxazin</b>	Chateau, others	0.02	0.02	4,800	--	--	
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	31,500	--	--	
<b>Glyphosate</b>	RoundUp, others	0.2	{0.05}	18,500	--	--	
<b>Halosulfuron-methyl</b>	Sandea	0.05	--	100	--	--	
<b>Hexazinone</b>	Velpar	0.6	0.6	3,500	--	--	
<b>Indaziflam</b>	Alion	0.01	--	300	--	--	
<b>Isoxaben</b>	Trellis	0.01	--	200	--	--	
<b>Mesotrione</b>	Callisto, others	0.01	0.01	1,800	--	--	
<b>Napropamide</b>	Devrinol	0.1	0.1	200	--	--	
<b>Norflurazon</b>	Solicam	0.2	{0.05}	15,500	--	--	
<b>Oryzalin</b>	Suflan	0.05	0.1	18,000	0.021	0.021	
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	0.05	11,000	--	--	
<b>Pendimethalin</b>	Several	0.1	{0.05}	--	--	--	Yes

## HERBICIDES & OTHER: Status of Australian MRLs

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Active Ingredient	Trade Name	United States (ppm)	Australia (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Australia Monitoring (2020)
Piperonyl Butoxide	PBO, several	8 <i>Exempt</i>	8	(D)	0.037	0.037	Yes
Propyzamide	Kerb	0.05	{0.02}	--	--	--	
Quinclorac	Quinstar	0.08	--	200	--	--	
Rimsulfuron	Matrix	0.01	0.02	300	--	--	
Sethoxydim	Poast	4	4	(D)	--	--	
Simazine	Princep, others	0.2	{0.1}	36,100	0.012	0.0085	
S-metolachlor	Dual	0.15	--	6,600	--	--	
Sulfentrazone	Zeus, others	0.15	--	1,400	--	--	
Terbacil	Sinbar	0.2	0.2	4,800	--	--	

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

## V. Canadian MRL Status

### FUNGICIDES: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
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- 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Canada Monitoring (2016)
Azoxystrobin	Abound, Quadris, Quadris Top	5	{3}	13,800	1	0.0027	Yes
Boscalid	Pristine	13	{6}	6,600	1.7	0.0051	Yes
Captan	Captan, Captevate	20	{5}	175,900	--	--	Yes
Chlorothalonil	Bravo, others	1	{0.6}	31,100	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	4	8,400	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	4	400	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.3	6,400	0.38	0.0051	Yes
Fenhexamid	Elevate, Captevate	5	{4}	1,300	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	5	--	--	--	
Fluazinam	Omega	7	7	--	--	--	
Fludioxonil	Switch	2	2	5,500	0.63	0.01	Yes
Fluopyram	Luna Privilege, Luna Tranquility	7	7	2,100	--	--	
Fluxapyroxad	Xemium	7	7	--	--	--	
Fosetyl-Al	Aliette	40	40	--	--	--	
Iprodione	Rovral, Iprodione	15	{0.07}	1,700	2.7	0.0052	Yes
Isofetamid	Kenja	5	5	(D)	--	--	
Mefentrifluconazole	Cevya	5	{0.1}*	--	--	--	
Metalaxyl-M (Mefenoxam)	Ridomil	2	3	(D)	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	3,800	0.14	0.011	Yes
Oxathiapiprolin	Orondis	0.5	{0.1}*	--	--	--	

## FUNGICIDES: Status of Canadian MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
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- 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Canada Monitoring (2016)
<b>Penthiopyrad</b>	Fontelis	6	6	--	--	--	
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	1	3,300	0.068	0.068	Yes
<b>Prothioconazole</b>	Proline, Propulse	2	2	1,800	--	--	Yes
<b>Pydiflumetofen</b>	Miravis	5	{0.1}*	--	--	--	
<b>Pyraclostrobin</b>	Pristine	4	{3.5}	3,400	0.26	0.002	Yes
<b>Pyrimethanil</b>	Luna Tranquility	8	8	2,500	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Proливо	1.5	1.5	--	--	--	
<b>Ziram</b>	Ziram	7	7 Expires Dec 14, 2022	43,200	--	--	

\* 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.

## INSECTICIDES: Status of Canadian MRLs

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Active Ingredient	Trade Name	United States (ppm)	Canada (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Canada Monitoring (2016)
Acetamiprid	Assail, others	1.6	1.6	1,900	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	3	5,100	0.77	0.013	Yes
Carbaryl	Sevin	3	7	800	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	{0.35}	(D)	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	4	100	--	--	
Diazinon	Diazinon	0.5	{0.1}*	5,200	--	--	Yes
Esfenvalerate	Asana	1	{0.1}*	1,400	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.1}*	--	--	--	Yes
Fenpropathrin	Danitol	3	3	5,900	1	0.023	Yes
Fenpyroximate	Fujimite	3	{0.1}*	--	--	--	Yes
Flupyradifurone	Sivanto	4	4	400	--	--	
Imidacloprid	Admire, others	3.5	3.5	3,100	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	{0.1}*	(D)	0.046	0.01	Yes
Malathion	Malathion	8	8	60,400	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	{0.1}*	--	--	--	
Methomyl	Lannate	6	6	21,700	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	4	2,900	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	{0.1}*	--	--	--	
Novaluron	Rimon	7	7	--	0.024	0.015	Yes
Phosmet	Imidan	10	{5}	58,100	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1	100	--	--	Yes
Pyriproxyfen	Knack	1	1.5	--	--	--	Yes

## 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Canada Monitoring (2016)
<b>Spinetoram</b>	Delegate	0.5	0.5	1,200	0.09	0.0055	Yes
<b>Spinosad</b>	Entrust, Success	0.4	0.5	2,000	0.047	0.003	
<b>Spirotetramat</b>	Movento	3	3	(D)	--	--	Yes
<b>Sulfoxaflor</b>	Closer, Sequoia	2	{0.1}*	--	--	--	
<b>Tebufenozide</b>	Confirm	3	3	(D)	1.3	0.0053	Yes
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.2	200	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	{0.1}*		--	--	Yes
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	0.8	2,300	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
- 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Canada Monitoring (2016)
<b>2,4-D</b>	2,4 D	0.2	{0.01}	200	--	--	
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	0.1	100	--	--	Yes
<b>Clethodim</b>	Select Max, Others	0.2	0.2	1,400	--	--	Yes
<b>Clopyralid</b>	Stinger	0.5	{0.1}	100	--	--	
<b>Dichlobenil</b>	Casoron	0.15	0.5	200	--	--	Yes
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	0.1*	(D)	--	--	
<b>Diuron</b>	Karmex, Diuron	0.1	0.1*	23,000	--	--	Yes
<b>Ethephon</b>	Ethephon	20	{10}	--	--	--	
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.1}	(D)	--	--	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	0.02	4,800	--	--	
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	31,500	--	--	
<b>Glyphosate</b>	RoundUp, others	0.2	{0.1}*	18,500	--	--	
<b>Halosulfuron-methyl</b>	Sandea	0.05	0.05	100	--	--	
<b>Hexazinone</b>	Velpar	0.6	{0.1}*	3,500	--	--	Yes
<b>Indaziflam</b>	Alion	0.01	0.01	300	--	--	
<b>Isoxaben</b>	Trellis	0.01	0.1*	200	--	--	
<b>Mesotrione</b>	Callisto, others	0.01	0.01	1,800	--	--	Yes
<b>Napropamide</b>	Devrinol	0.1	0.1	200	--	--	Yes
<b>Norflurazon</b>	Solicam	0.2	{0.1}*	15,500	--	--	Yes
<b>Oryzalin</b>	Suflan	0.05	0.1*	18,000	0.021	0.021	
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	0.05	11,000	--	--	
<b>Pendimethalin</b>	Several	0.1	0.1*	--	--	--	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Canada Monitoring (2016)
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	8	(D)	0.037	0.037	Yes
<b>Propyzamide</b>	Kerb	0.05	0.1*	--	--	--	Yes
<b>Quinclorac</b>	Quinstar	0.08	0.1*	200	--	--	Yes
<b>Rimsulfuron</b>	Matrix	0.01	0.01	300	--	--	
<b>Sethoxydim</b>	Poast	4	4	(D)	--	--	Yes
<b>Simazine</b>	Princep, others	0.2	{0.1}*	36,100	0.012	0.0085	Yes
<b>S-metolachlor</b>	Dual	0.15	0.15	6,600	--	--	Yes
<b>Sulfentrazone</b>	Zeus, others	0.15	0.15	1,400	--	--	Yes
<b>Terbacil</b>	Sinbar	0.2	{0.1}*	4,800	--	--	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.

## VI. 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	13,800	1	0.0027	--
Boscalid	Pristine	13	{10}	6,600	1.7	0.0051	--
Captan	Captan, Captevate	20	20	175,900	--	--	--
Chlorothalonil	Bravo, others	1	--	31,100	0.11	0.021	--
Cyprodinil	Switch, Inspire Super	3	10	8,400	1	0.003	--
Difenoconazole	Inspire Super, Quadris Top	4	--	400	0.02	0.0065	--
Fenbuconazole	Indar	0.3	0.5	6,400	0.38	0.0051	--
Fenhexamid	Elevate, Captevate	5	5	1,300	0.91	0.011	--
Fenpyrazamine	Protexio	5	--	--	--	--	--
Fluazinam	Omega	7	--	--	--	--	--
Fludioxonil	Switch	2	2	5,500	0.63	0.01	--
Fluopyram	Luna Privilege, Luna Tranquility	7	--	2,100	--	--	--
Fluxapyroxad	Xemium	7	--	--	--	--	--
Fosetyl-Al	Aliette	40	--	--	--	--	--
Iprodione	Rovral, Iprodione	15	--	1,700	2.7	0.0052	--
Isofetamid	Kenja	5	--	(D)	--	--	--
Mefentrifluconazole	Cevya	5	--	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	--	(D)	0.027	0.0032	--
Metconazole	Quash	0.4	--	3,800	0.14	0.011	--
Oxathiapiprolin	Orondis	0.5	--	--	--	--	--
Penthiopyrad	Fontelis	6	--	--	--	--	--

## 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	--	3,300	0.068	0.068	--
<b>Prothioconazole</b>	Proline, Propulse	2	--	1,800	--	--	--
<b>Pydiflumetofen</b>	Miravis	5	--	--	--	--	--
<b>Pyraclostrobin</b>	Pristine	4	4	3,400	0.26	0.002	--
<b>Pyrimethanil</b>	Luna Tranquility	8	{3}	2,500	0.0062	0.0026	--
<b>Pyriofenone</b>	Proливо	1.5	--	--	--	--	--
<b>Ziram</b>	Ziram	7	--	43,200	--	--	--

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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
Acetamiprid	Assail, others	1.6	2	1,900	0.19	0.0022	--
Bifenthrin	Brigade, others	1.8	--	5,100	0.77	0.013	--
Carbaryl	Sevin	3	--	800	1.3	0.0051	--
Chlorantraniliprole	Altacor	2.5	{1}	(D)	0.32	0.011	--
Cyantraniliprole	Exirel	4	4	100	--	--	--
Diazinon	Diazinon	0.5	--	5,200	--	--	--
Esfenvalerate	Asana	1	{0.2}	1,400	0.1	0.0056	--
Fenazaquin	Magister	0.8	--	--	--	--	--
Fenpropathrin	Danitol	3	5	5,900	1	0.023	--
Fenpyroximate	Fujimite	3	--	--	--	--	--
Flupyradifurone	Sivanto	4	--	400	--	--	--
Imidacloprid	Admire, others	3.5	5	3,100	0.44	0.01	--
Indoxacarb	Avaunt	1.5	--	(D)	0.046	0.01	--
Malathion	Malathion	8	10	60,400	0.67	0.0026	--
Metaldehyde	Deadline, others	0.15	--	--	--	--	--
Methomyl	Lannate	6	{0.2}	21,700	2.5	0.013	--
Methoxyfenozone	Intrepid	3	4	2,900	0.58	0.0089	--
Methyl bromide	Methyl Bromide	20	--	--	--	--	--
Novaluron	Rimon	7	7	--	0.024	0.015	--
Phosmet	Imidan	10	10	58,100	1.7	0.0025	--
Pyrethrins	Several	1 <i>Exempt</i>	--	100	--	--	--
Pyriproxyfen	Knack	1	--	--	--	--	--

## 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
<b>Spinetoram</b>	Delegate	0.5	{0.2}	1,200	0.09	0.0055	--
<b>Spinosad</b>	Entrust, Success	0.4	0.4	2,000	0.047	0.003	--
<b>Spirotetramat</b>	Movento	3	{1.5}	(D)	--	--	--
<b>Sulfoxaflor</b>	Closer, Sequoia	2	--	--	--	--	--
<b>Tebufenozide</b>	Confirm	3	3	(D)	1.3	0.0053	--
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	200	0.0073	0.0028	--
<b>Tolfenpyrad</b>	Bexar	7	--		--	--	--
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	--	2,300	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)	2019 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}	200	--	--	--
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	--	100	--	--	--
<b>Clethodim</b>	Select Max, Others	0.2	--	1,400	--	--	--
<b>Clopyralid</b>	Stinger	0.5	--	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	0.2	200	--	--	--
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	--	(D)	--	--	--
<b>Diuron</b>	Karmex, Diuron	0.1	--	23,000	--	--	--
<b>Ethephon</b>	Ethephon	20	20	--	--	--	--
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	--	(D)	--	--	--
<b>Flumioxazin</b>	Chateau, others	0.02	--	4,800	--	--	--
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	31,500	--	--	--
<b>Glyphosate</b>	RoundUp, others	0.2	{0.1}	18,500	--	--	--
<b>Halosulfuron-methyl</b>	Sandea	0.05	--	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	--	3,500	--	--	--
<b>Indaziflam</b>	Alion	0.01	--	300	--	--	--
<b>Isoxaben</b>	Trellis	0.01	--	200	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01	1,800	--	--	--
<b>Napropamide</b>	Devrinol	0.1	--	200	--	--	--
<b>Norflurazon</b>	Solicam	0.2	--	15,500	--	--	--
<b>Oryzalin</b>	Suflan	0.05	--	18,000	0.021	0.021	--
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.01}	11,000	--	--	--
<b>Pendimethalin</b>	Several	0.1	--	--	--	--	--

## 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	China Monitoring
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	--	(D)	0.037	0.037	--
<b>Propyzamide</b>	Kerb	0.05	--	--	--	--	--
<b>Quinclorac</b>	Quinstar	0.08	--	200	--	--	--
<b>Rimsulfuron</b>	Matrix	0.01	--	300	--	--	--
<b>Sethoxydim</b>	Poast	4	--	(D)	--	--	--
<b>Simazine</b>	Princep, others	0.2	--	36,100	0.012	0.0085	--
<b>S-metolachlor</b>	Dual	0.15	--	6,600	--	--	--
<b>Sulfentrazone</b>	Zeus, others	0.15	--	1,400	--	--	--
<b>Terbacil</b>	Sinbar	0.2	--	4,800	--	--	--

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



## VII. 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	EU Monitoring (2021-2023)
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	13,800	1	0.0027	Yes
Boscalid	Pristine	13	15	6,600	1.7	0.0051	Yes
Captan	Captan, Captevate	20	30	175,900	--	--	Yes
Chlorothalonil	Bravo, others	1	{0.01}	31,100	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	3	8,400	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	4	400	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.5	6,400	0.38	0.0051	Yes
Fenhexamid	Elevate, Captevate	5	20	1,300	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	{4}	--	--	--	Yes
Fluazinam	Omega	7	{3}	--	--	--	
Fludioxonil	Switch	2	2	5,500	0.63	0.01	Yes
Fluopyram	Luna Privilege, Luna Tranquility	7	7	2,100	--	--	Yes
Fluxapyroxad	Xemium	7	7	--	--	--	Yes
Fosetyl-Al	Aliette	40	80	--	--	--	Yes
Iprodione	Rovral, Iprodione	15	{0.01}	1,700	2.7	0.0052	Yes
Isofetamid	Kenja	5	{0.01}	(D)	--	--	
Mefentrifluconazole	Cevya	5	{0.01}	--	--	--	
Metalaxyl-M (Mefenoxam)	Ridomil	2	{0.01}	(D)	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	3,800	0.14	0.011	

## 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	EU Monitoring (2021-2023)
<b>Oxathiapiprolin</b>	Orondis	0.5	{0.01}	--	--	--	
<b>Penthiopyrad</b>	Fontelis	6	{0.01}	--	--	--	
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	{0.01}	3,300	0.068	0.068	Yes
<b>Prothioconazole</b>	Proline, Propulse	2	{0.01}	1,800	--	--	Yes
<b>Pydiflumetofen</b>	Miravis	5	{0.01}*	--	--	--	
<b>Pyraclostrobin</b>	Pristine	4	4	3,400	0.26	0.002	Yes
<b>Pyrimethanil</b>	Luna Tranquility	8	8	2,500	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Prolivo	1.5	1.5	--	--	--	
<b>Ziram</b>	Ziram	7	{0.1}	43,200	--	--	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	EU Monitoring (2021-2023)
Acetamiprid	Assail, others	1.6	2	1,900	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	3	5,100	0.77	0.013	Yes
Carbaryl	Sevin	3	{0.01}	800	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	{1.5}	(D)	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	4	100	--	--	
Diazinon	Diazinon	0.5	{0.01}	5,200	--	--	Yes
Esfenvalerate	Asana	1	{0.02}	1,400	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.01}	--	--	--	Yes
Fenpropathrin	Danitol	3	{0.01}	5,900	1	0.023	Yes
Fenpyroximate	Fujimite	3	{0.4}	--	--	--	Yes
Flupyradifurone	Sivanto	4	{0.01}	400	--	--	
Imidacloprid	Admire, others	3.5	5	3,100	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	{0.8}	(D)	0.046	0.01	Yes
Malathion	Malathion	8	{0.02}	60,400	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	{0.05}	--	--	--	
Methomyl	Lannate	6	{0.01}	21,700	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	4	2,900	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	{5}	--	--	--	Yes
Novaluron	Rimon	7	7	--	0.024	0.015	Yes
Phosmet	Imidan	10	10	58,100	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1	100	--	--	
Pyriproxyfen	Knack	1	{0.05}	--	--	--	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	EU Monitoring (2021-2023)
<b>Spinetoram</b>	Delegate	0.5	{0.4}	1,200	0.09	0.0055	Yes
<b>Spinosad</b>	Entrust, Success	0.4	1.5	2,000	0.047	0.003	Yes
<b>Spirotetramat</b>	Movento	3	{0.7}	(D)	--	--	Yes
<b>Sulfoxaflor</b>	Closer, Sequoia	2	{0.01}	--	--	--	
<b>Tebufenozide</b>	Confirm	3	3	(D)	1.3	0.0053	Yes
<b>Thiamethoxam</b>	Actara, Platinum	0.2	{0.01}	200	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	{0.01}*	--	--	--	
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	{0.05}	2,300	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	EU Monitoring (2021-2023)
<b>2,4-D</b>	2,4 D	0.2	{0.1}	200	--	--	Yes
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	{0.01}	100	--	--	
<b>Clethodim</b>	Select Max, Others	0.2	{0.1}	1,400	--	--	
<b>Clopyralid</b>	Stinger	0.5	0.5	100	--	--	
<b>Dichlobenil</b>	Casoron	0.15	{0.01}	200	--	--	
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	{0.01}	(D)	--	--	
<b>Diuron</b>	Karmex, Diuron	0.1	{0.01}	23,000	--	--	
<b>Ethephon</b>	Ethephon	20	20	--	--	--	Yes
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.1}	(D)	--	--	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	0.02	4,800	--	--	
<b>Glufosinate-ammonium</b>	Rely, others	0.15	0.9	31,500	--	--	Yes
<b>Glyphosate</b>	RoundUp, others	0.2	{0.1}	18,500	--	--	Yes
<b>Halosulfuron-methyl</b>	Sandea	0.05	{0.01}	100	--	--	
<b>Hexazinone</b>	Velpar	0.6	{0.01}*	3,500	--	--	
<b>Indaziflam</b>	Alion	0.01	0.01*	300	--	--	
<b>Isoxaben</b>	Trellis	0.01	0.05	200	--	--	
<b>Mesotrione</b>	Callisto, others	0.01	0.01	1,800	--	--	
<b>Napropamide</b>	Devrinol	0.1	{0.02}	200	--	--	
<b>Norflurazon</b>	Solicam	0.2	{0.01}*	15,500	--	--	
<b>Oryzalin</b>	Suflan	0.05	{0.01}	18,000	0.021	0.021	
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.02}	11,000	--	--	
<b>Pendimethalin</b>	Several	0.1	{0.05}	--	--	--	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	EU Monitoring (2021-2023)
Piperonyl Butoxide	PBO, several	8 <i>Exempt</i>	--	(D)	0.037	0.037	
Propyzamide	Kerb	0.05	{0.01}	--	--	--	Yes
Quinclorac	Quinstar	0.08	{0.01}	200	--	--	Yes
Rimsulfuron	Matrix	0.01	0.01	300	--	--	
Sethoxydim	Poast	4	{0.1}	(D)	--	--	
Simazine	Princep, others	0.2	{0.01}	36,100	0.012	0.0085	
S-metolachlor	Dual	0.15	{0.05}	6,600	--	--	
Sulfentrazone	Zeus, others	0.15	{0.01}*	1,400	--	--	
Terbacil	Sinbar	0.2	{0.01}*	4,800	--	--	

\* 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.

## VIII. Great Britain MRL Status

### FUNGICIDES: Status of Great Britain MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Great Britain (GB) MRLs apply to England, Scotland, and Wales. EU MRLs apply to Northern Ireland.
- 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)	Great Britain (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	UK Monitoring (2019)
<b>Azoxystrobin</b>	Abound, Quadris, Quadris Top	5	5	13,800	1	0.0027	Yes
<b>Boscalid</b>	Pristine	13	15	6,600	1.7	0.0051	Yes
<b>Captan</b>	Captan, Captevate	20	30	175,900	--	--	Yes
<b>Chlorothalonil</b>	Bravo, others	1	{0.01}	31,100	0.11	0.021	Yes
<b>Cyprodinil</b>	Switch, Inspire Super	3	3	8,400	1	0.003	Yes
<b>Difenoconazole</b>	Inspire Super, Quadris Top	4	4	400	0.02	0.0065	Yes
<b>Fenbuconazole</b>	Indar	0.3	0.5	6,400	0.38	0.0051	Yes
<b>Fenhexamid</b>	Elevate, Captevate	5	20	1,300	0.91	0.011	Yes
<b>Fenpyrazamine</b>	Protexio	5	{4}	--	--	--	Yes
<b>Fluazinam</b>	Omega	7	{3}	--	--	--	
<b>Fludioxonil</b>	Switch	2	2	5,500	0.63	0.01	Yes
<b>Fluopyram</b>	Luna Privilege, Luna Tranquility	7	7	2,100	--	--	Yes
<b>Fluxapyroxad</b>	Xemium	7	7	--	--	--	Yes
<b>Fosetyl-Al</b>	Aliette	40	80	--	--	--	
<b>Iprodione</b>	Rovral, Iprodione	15	{0.01}	1,700	2.7	0.0052	Yes
<b>Isfetamid</b>	Kenja	5	{0.01}	(D)	--	--	
<b>Mefentrifluconazole</b>	Cevya	5	{0.01}	--	--	--	
<b>Metalaxyl-M (Mefenoxam)</b>	Ridomil	2	{0.01}	(D)	0.027	0.0032	Yes
<b>Metconazole</b>	Quash	0.4	0.4	3,800	0.14	0.011	

## FUNGICIDES: Status of Great Britain MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Great Britain (GB) MRLs apply to England, Scotland, and Wales. EU MRLs apply to Northern Ireland.
- 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)	Great Britain (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	UK Monitoring (2019)
<b>Oxathiapiprolin</b>	Orondis	0.5	{0.01}	--	--	--	
<b>Penthiopyrad</b>	Fontelis	6	{0.01}	--	--	--	Yes
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	{0.01}	3,300	0.068	0.068	Yes
<b>Prothioconazole</b>	Proline, Propulse	2	{0.01}	1,800	--	--	Yes
<b>Pydiflumetofen</b>	Miravis	5	{0.01}*	--	--	--	
<b>Pyraclostrobin</b>	Pristine	4	4	3,400	0.26	0.002	Yes
<b>Pyrimethanil</b>	Luna Tranquility	8	8	2,500	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Prolivo	1.5	1.5	--	--	--	
<b>Ziram</b>	Ziram	7	{0.1}	43,200	--	--	Yes

\* Indicates where the GB 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 Great Britain MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Great Britain (GB) MRLs apply to England, Scotland, and Wales. EU MRLs apply to Northern Ireland.
- 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)	Great Britain (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	UK Monitoring (2019)
Acetamiprid	Assail, others	1.6	2	1,900	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	3	5,100	0.77	0.013	Yes
Carbaryl	Sevin	3	{0.01}	800	1.3	0.0051	
Chlorantraniliprole	Altacor	2.5	{1.5}	(D)	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	4	100	--	--	Yes
Diazinon	Diazinon	0.5	{0.01}	5,200	--	--	Yes
Esfenvalerate	Asana	1	{0.02}	1,400	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.01}	--	--	--	
Fenpropathrin	Danitol	3	{0.01}	5,900	1	0.023	Yes
Fenpyroximate	Fujimite	3	{0.4}	--	--	--	Yes
Flupyradifurone	Sivanto	4	{0.01}	400	--	--	
Imidacloprid	Admire, others	3.5	5	3,100	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	{0.8}	(D)	0.046	0.01	Yes
Malathion	Malathion	8	{0.02}	60,400	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	{0.05}	--	--	--	
Methomyl	Lannate	6	{0.01}	21,700	2.5	0.013	
Methoxyfenozide	Intrepid	3	4	2,900	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	{5}	--	--	--	
Novaluron	Rimon	7	7	--	0.024	0.015	Yes
Phosmet	Imidan	10	10	58,100	1.7	0.0025	
Pyrethrins	Several	1 <i>Exempt</i>	1	100	--	--	Yes

## INSECTICIDES: Status of Great Britain MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Great Britain (GB) MRLs apply to England, Scotland, and Wales. EU MRLs apply to Northern Ireland.
- 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)	Great Britain (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	UK Monitoring (2019)
<b>Pyriproxyfen</b>	Knack	1	{0.05}	--	--	--	Yes
<b>Spinetoram</b>	Delegate	0.5	{0.4}	1,200	0.09	0.0055	Yes
<b>Spinosad</b>	Entrust, Success	0.4	1.5	2,000	0.047	0.003	Yes
<b>Spirotetramat</b>	Movento	3	{0.7}	(D)	--	--	Yes
<b>Sulfoxaflor</b>	Closer, Sequoia	2	{0.01}	--	--	--	Yes
<b>Tebufenozide</b>	Confirm	3	3	(D)	1.3	0.0053	Yes
<b>Thiamethoxam</b>	Actara, Platinum	0.2	{0.01}	200	0.0073	0.0028	
<b>Tolfenpyrad</b>	Bexar	7	{0.01}*		--	--	
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	{0.05}	2,300	0.66 <sup>a</sup>	0.011 <sup>a</sup>	Yes

\* Indicates where the GB 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 Great Britain MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Great Britain (GB) MRLs apply to England, Scotland, and Wales. EU MRLs apply to Northern Ireland.
- 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)	Great Britain (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	UK Monitoring (2019)
<b>2,4-D</b>	2,4 D	0.2	{0.1}	200	--	--	Yes
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	{0.01}	100	--	--	
<b>Clethodim</b>	Select Max, Others	0.2	{0.1}	1,400	--	--	
<b>Clopyralid</b>	Stinger	0.5	0.5	100	--	--	
<b>Dichlobenil</b>	Casoron	0.15	{0.01}	200	--	--	
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	{0.01}	(D)	--	--	
<b>Diuron</b>	Karmex, Diuron	0.1	{0.01}	23,000	--	--	
<b>Ethephon</b>	Ethephon	20	20	--	--	--	Yes
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.1}	(D)	--	--	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	0.02	4,800	--	--	
<b>Glufosinate-ammonium</b>	Rely, others	0.15	0.9	31,500	--	--	
<b>Glyphosate</b>	RoundUp, others	0.2	{0.1}	18,500	--	--	Yes
<b>Halosulfuron-methyl</b>	Sandea	0.05	{0.01}	100	--	--	
<b>Hexazinone</b>	Velpar	0.6	{0.01}*	3,500	--	--	
<b>Indaziflam</b>	Alion	0.01	0.01*	300	--	--	
<b>Isoxaben</b>	Trellis	0.01	0.05	200	--	--	
<b>Mesotrione</b>	Callisto, others	0.01	0.01	1,800	--	--	
<b>Napropamide</b>	Devrinol	0.1	{0.02}	200	--	--	
<b>Norflurazon</b>	Solicam	0.2	{0.01}*	15,500	--	--	
<b>Oryzalin</b>	Suflan	0.05	{0.01}	18,000	0.021	0.021	
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.02}	11,000	--	--	
<b>Pendimethalin</b>	Several	0.1	{0.05}	--	--	--	Yes

## HERBICIDES & OTHER: Status of Great Britain MRLs

- MRL values listed in **red brackets { }** are more restrictive than the U.S. MRL value
- Great Britain (GB) MRLs apply to England, Scotland, and Wales. EU MRLs apply to Northern Ireland.
- 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)	Great Britain (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	UK Monitoring (2019)
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	--	(D)	0.037	0.037	Yes
<b>Propyzamide</b>	Kerb	0.05	{0.01}	--	--	--	Yes
<b>Quinclorac</b>	Quinstar	0.08	{0.01}	200	--	--	Yes
<b>Rimsulfuron</b>	Matrix	0.01	0.01	300	--	--	
<b>Sethoxydim</b>	Poast	4	{0.1}	(D)	--	--	
<b>Simazine</b>	Princep, others	0.2	{0.01}	36,100	0.012	0.0085	
<b>S-metolachlor</b>	Dual	0.15	{0.05}	6,600	--	--	
<b>Sulfentrazone</b>	Zeus, others	0.15	{0.01}*	1,400	--	--	
<b>Terbacil</b>	Sinbar	0.2	{0.01}*	4,800	--	--	

\* Indicates where the GB 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. 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Japan Monitoring (2020)
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	13,800	1	0.0027	Yes
Boscalid	Pristine	13	{10}	6,600	1.7	0.0051	Yes
Captan	Captan, Captevate	20	20	175,900	--	--	Yes
Chlorothalonil	Bravo, others	1	1	31,100	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	5	8,400	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	4	400	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.7	6,400	0.38	0.0051	Yes
Fenhexamid	Elevate, Captevate	5	5	1,300	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	5	--	--	--	Yes
Fluazinam	Omega	7	{4}	--	--	--	Yes
Fludioxonil	Switch	2	2	5,500	0.63	0.01	Yes
Fluopyram	Luna Privilege, Luna Tranquility	7	7	2,100	--	--	
Fluxapyroxad	Xemium	7	7	--	--	--	Yes
Fosetyl-Al	Aliette	40	70	--	--	--	Yes
Iprodione	Rovral, Iprodione	15	15	1,700	2.7	0.0052	Yes
Isfetamid	Kenja	5	5	(D)	--	--	
Mefentrifluconazole	Cevya	5	{0.01}*	--	--	--	
Metalaxyl-M (Mefenoxam)	Ridomil	2	2	(D)	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	3,800	0.14	0.011	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Japan Monitoring (2020)
<b>Oxathiapiprolin</b>	Orondis	0.5	{0.01}*	--	--	--	
<b>Penthiopyrad</b>	Fontelis	6	{3}	--	--	--	Yes
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	1	3,300	0.068	0.068	Yes
<b>Prothioconazole</b>	Proline, Propulse	2	2	1,800	--	--	
<b>Pydiflumetofen</b>	Miravis	5	{0.01}*	--	--	--	
<b>Pyraclostrobin</b>	Pristine	4	4	3,400	0.26	0.002	Yes
<b>Pyrimethanil</b>	Luna Tranquility	8	{5}	2,500	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Prolivo	1.5	2	--	--	--	
<b>Ziram</b>	Ziram	7	{5}	43,200	--	--	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.

## 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Japan Monitoring (2020)
Acetamiprid	Assail, others	1.6	2	1,900	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	3	5,100	0.77	0.013	Yes
Carbaryl	Sevin	3	7	800	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	3	(D)	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	4	100	--	--	
Diazinon	Diazinon	0.5	{0.05}	5,200	--	--	Yes
Esfenvalerate	Asana	1	1	1,400	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.01}*	--	--	--	Yes
Fenpropathrin	Danitol	3	5	5,900	1	0.023	Yes
Fenpyroximate	Fujimite	3	{0.01}*	--	--	--	Yes
Flupyradifurone	Sivanto	4	4	400	--	--	
Imidacloprid	Admire, others	3.5	4	3,100	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	{0.01}*	(D)	0.046	0.01	Yes
Malathion	Malathion	8	10	60,400	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	{0.01}*	--	--	--	Yes
Methomyl	Lannate	6	{1}	21,700	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	4	2,900	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	20	--	--	--	Yes
Novaluron	Rimon	7	7	--	0.024	0.015	Yes
Phosmet	Imidan	10	10	58,100	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1	100	--	--	Yes
Pyriproxyfen	Knack	1	1	--	--	--	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Japan Monitoring (2020)
<b>Spinetoram</b>	Delegate	0.5	0.5	1,200	0.09	0.0055	
<b>Spinosad</b>	Entrust, Success	0.4	0.4	2,000	0.047	0.003	Yes
<b>Spirotetramat</b>	Movento	3	3	(D)	--	--	Yes
<b>Sulfoxaflor</b>	Closer, Sequoia	2	{0.7}	--	--	--	Yes
<b>Tebufenozide</b>	Confirm	3	3	(D)	1.3	0.0053	Yes
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	200	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	{0.01}*		--	--	Yes
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	{0.5}	2,300	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Japan Monitoring (2020)
<b>2,4-D</b>	2,4 D	0.2	{0.1}	200	--	--	Yes
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	0.1	100	--	--	Yes
<b>Clethodim</b>	Select Max, Others	0.2	{0.01}*	1,400	--	--	
<b>Clopyralid</b>	Stinger	0.5	{0.01}*	100	--	--	
<b>Dichlobenil</b>	Casoron	0.15	{0.01}*	200	--	--	
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	{0.03}	(D)	--	--	Yes
<b>Diuron</b>	Karmex, Diuron	0.1	{0.05}	23,000	--	--	
<b>Ethephon</b>	Ethephon	20	20	--	--	--	Yes
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.01}*	(D)	--	--	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	0.02	4,800	--	--	Yes
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	31,500	--	--	Yes
<b>Glyphosate</b>	RoundUp, others	0.2	0.2	18,500	--	--	Yes
<b>Halosulfuron-methyl</b>	Sandea	0.05	0.05	100	--	--	
<b>Hexazinone</b>	Velpar	0.6	{0.2}	3,500	--	--	
<b>Indaziflam</b>	Alion	0.01	0.01*	300	--	--	
<b>Isoxaben</b>	Trellis	0.01	0.01*	200	--	--	
<b>Mesotrione</b>	Callisto, others	0.01	0.01	1,800	--	--	
<b>Napropamide</b>	Devrinol	0.1	0.1	200	--	--	Yes
<b>Norflurazon</b>	Solicam	0.2	0.2	15,500	--	--	Yes
<b>Oryzalin</b>	Suflan	0.05	0.08	18,000	0.021	0.021	Yes
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	0.05	11,000	--	--	Yes
<b>Pendimethalin</b>	Several	0.1	{0.05}	--	--	--	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Japan Monitoring (2020)
<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}*	--	--	--	
<b>Quinclorac</b>	Quinstar	0.08	2	200	--	--	Yes
<b>Rimsulfuron</b>	Matrix	0.01	0.05	300	--	--	Yes
<b>Sethoxydim</b>	Poast	4	4	(D)	--	--	Yes
<b>Simazine</b>	Princep, others	0.2	0.2	36,100	0.012	0.0085	Yes
<b>S-metolachlor</b>	Dual	0.15	{0.01}*	6,600	--	--	Yes
<b>Sulfentrazone</b>	Zeus, others	0.15	{0.05}	1,400	--	--	Yes
<b>Terbacil</b>	Sinbar	0.2	{0.1}	4,800	--	--	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.

## X. 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Korea Monitoring (2020)
Azoxystrobin	Abound, Quadris, Quadris Top	5	7	13,800	1	0.0027	Yes
Boscalid	Pristine	13	{10}	6,600	1.7	0.0051	Yes
Captan	Captan, Captevate	20	20	175,900	--	--	Yes
Chlorothalonil	Bravo, others	1	1 <sup>T</sup>	31,100	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	4	8,400	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	4	400	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.3	6,400	0.38	0.0051	Yes
Fenhexamid	Elevate, Captevate	5	5	1,300	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	{4}	--	--	--	Yes
Fluazinam	Omega	7	{5}	--	--	--	
Fludioxonil	Switch	2	2	5,500	0.63	0.01	Yes
Fluopyram	Luna Privilege, Luna Tranquility	7	{6}	2,100	--	--	Yes
Fluxapyroxad	Xemium	7	7	--	--	--	Yes
Fosetyl-Al	Aliette	40	{1} <sup>T</sup>	--	--	--	Yes
Iprodione	Rovral, Iprodione	15	{10}	1,700	2.7	0.0052	Yes
Isfetamid	Kenja	5	{3} <sup>T</sup>	(D)	--	--	Yes
Mefentrifluconazole	Cevya	5	{0.01} <sup>*</sup>	--	--	--	
Metalaxyl-M (Mefenoxam)	Ridomil	2	{0.01} <sup>*</sup>	(D)	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	3,800	0.14	0.011	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Korea Monitoring (2020)
<b>Oxathiapiprolin</b>	Orondis	0.5	{0.01}*	--	--	--	Yes
<b>Penthiopyrad</b>	Fontelis	6	{0.07}	--	--	--	Yes
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	{0.5} <sup>T</sup>	3,300	0.068	0.068	Yes
<b>Prothioconazole</b>	Proline, Propulse	2	2 <sup>T</sup>	1,800	--	--	
<b>Pydiflumetofen</b>	Miravis	5	5	--	--	--	Yes
<b>Pyraclostrobin</b>	Pristine	4	4	3,400	0.26	0.002	Yes
<b>Pyrimethanil</b>	Luna Tranquility	8	8	2,500	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Prolivo	1.5	2 <sup>T</sup>	--	--	--	Yes
<b>Ziram</b>	Ziram	7	{5}	43,200	--	--	Yes

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<sup>T</sup> Indicates Temporary MRL that will expire on December 31, 2021.

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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Korea Monitoring (2020)
Acetamiprid	Assail, others	1.6	{0.5}	1,900	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	{0.3}	5,100	0.77	0.013	Yes
Carbaryl	Sevin	3	{0.5} <sup>T</sup>	800	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	{1}	(D)	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	4	100	--	--	Yes
Diazinon	Diazinon	0.5	{0.01}* <sup>T</sup>	5,200	--	--	Yes
Esfenvalerate	Asana	1	{0.01}* <sup>T</sup>	1,400	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.01}* <sup>T</sup>	--	--	--	Yes
Fenpropathrin	Danitol	3	{0.5} <sup>T</sup>	5,900	1	0.023	Yes
Fenpyroximate	Fujimite	3	{0.3}	--	--	--	Yes
Flupyradifurone	Sivanto	4	4	400	--	--	Yes
Imidacloprid	Admire, others	3.5	4	3,100	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	2	(D)	0.046	0.01	Yes
Malathion	Malathion	8	10	60,400	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	{0.05} <sup>T</sup>	--	--	--	Yes
Methomyl	Lannate	6	{1} <sup>T</sup>	21,700	2.5	0.013	Yes
Methoxyfenozide	Intrepid	3	3	2,900	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	20 <sup>T</sup>	--	--	--	Yes
Novaluron	Rimon	7	7	--	0.024	0.015	Yes
Phosmet	Imidan	10	10	58,100	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	1 <sup>T</sup>	100	--	--	Yes
Pyriproxyfen	Knack	1	1 <sup>T</sup>	--	--	--	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
- 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Korea Monitoring (2020)
<b>Spinetoram</b>	Delegate	0.5	{0.2}	1,200	0.09	0.0055	Yes
<b>Spinosad</b>	Entrust, Success	0.4	1	2,000	0.047	0.003	Yes
<b>Spirotetramat</b>	Movento	3	3	(D)	--	--	Yes
<b>Sulfoxaflor</b>	Closer, Sequoia	2	{1}	--	--	--	Yes
<b>Tebufenozide</b>	Confirm	3	3	(D)	1.3	0.0053	
<b>Thiamethoxam</b>	Actara, Platinum	0.2	1	200	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	{0.01}*		--	--	Yes
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	2 <sup>T</sup>	2,300	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.							
<sup>T</sup> Indicates Temporary MRL that will expire on December 31, 2021.							
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
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- 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Korea Monitoring (2020)
<b>2,4-D</b>	2,4 D	0.2	{0.05} <sup>T</sup>	200	--	--	Yes
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	0.1 <sup>T</sup>	100	--	--	Yes
<b>Clethodim</b>	Select Max, Others	0.2	{0.05} <sup>T</sup>	1,400	--	--	Yes
<b>Clopyralid</b>	Stinger	0.5	0.5	100	--	--	Yes
<b>Dichlobenil</b>	Casoron	0.15	{0.05} <sup>T</sup>	200	--	--	Yes
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	{0.02} <sup>T</sup>	(D)	--	--	Yes
<b>Diuron</b>	Karmex, Diuron	0.1	1 <sup>T</sup>	23,000	--	--	
<b>Ethephon</b>	Ethephon	20	{2} <sup>T</sup>	--	--	--	Yes
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.01} <sup>*</sup>	(D)	--	--	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	{0.01} <sup>*</sup>	4,800	--	--	Yes
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	31,500	--	--	Yes
<b>Glyphosate</b>	RoundUp, others	0.2	0.2 <sup>T</sup>	18,500	--	--	Yes
<b>Halosulfuron-methyl</b>	Sandea	0.05	{0.01} <sup>*</sup>	100	--	--	Yes
<b>Hexazinone</b>	Velpar	0.6	{0.05}	3,500	--	--	
<b>Indaziflam</b>	Alion	0.01	0.01 <sup>*</sup>	300	--	--	Yes
<b>Isoxaben</b>	Trellis	0.01	0.01 <sup>*</sup>	200	--	--	
<b>Mesotrione</b>	Callisto, others	0.01	0.01 <sup>*</sup>	1,800	--	--	Yes
<b>Napropamide</b>	Devrinol	0.1	{0.05} <sup>T</sup>	200	--	--	
<b>Norflurazon</b>	Solicam	0.2	{0.1} <sup>T</sup>	15,500	--	--	Yes
<b>Oryzalin</b>	Suflan	0.05	0.05 <sup>T</sup>	18,000	0.021	0.021	Yes
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	0.05 <sup>T</sup>	11,000	--	--	Yes
<b>Pendimethalin</b>	Several	0.1	{0.05} <sup>T</sup>	--	--	--	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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Korea Monitoring (2020)
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	{0.2} <sup>T</sup>	(D)	0.037	0.037	Yes
<b>Propyzamide</b>	Kerb	0.05	0.05 <sup>T</sup>	--	--	--	Yes
<b>Quinclorac</b>	Quinstar	0.08	{0.01}*	200	--	--	Yes
<b>Rimsulfuron</b>	Matrix	0.01	0.01*	300	--	--	Yes
<b>Sethoxydim</b>	Poast	4	{1} <sup>T</sup>	(D)	--	--	Yes
<b>Simazine</b>	Princep, others	0.2	0.25 <sup>T</sup>	36,100	0.012	0.0085	Yes
<b>S-metolachlor</b>	Dual	0.15	{0.1} <sup>T</sup>	6,600	--	--	
<b>Sulfentrazone</b>	Zeus, others	0.15	{0.05} <sup>T</sup>	1,400	--	--	
<b>Terbacil</b>	Sinbar	0.2	{0.1} <sup>T</sup>	4,800	--	--	

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

<sup>T</sup> Indicates Temporary MRL that will expire on December 31, 2021.

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



## XI. Filipino MRL Status

### FUNGICIDES: Status of Filipino 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)	The Philippines (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	The Philippines Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	5 (Codex)	13,800	1	0.0027	--
Boscalid	Pristine	13	{10} (Codex)	6,600	1.7	0.0051	--
Captan	Captan, Captevate	20	20 (Codex)	175,900	--	--	--
Chlorothalonil	Bravo, others	1	--	31,100	0.11	0.021	--
Cyprodinil	Switch, Inspire Super	3	10 (Codex)	8,400	1	0.003	--
Difenoconazole	Inspire Super, Quadris Top	4	4 (Codex)	400	0.02	0.0065	--
Fenbuconazole	Indar	0.3	0.5 (Codex)	6,400	0.38	0.0051	--
Fenhexamid	Elevate, Captevate	5	5 (Codex)	1,300	0.91	0.011	--
Fenpyrazamine	Protexio	5	{4} (Codex)	--	--	--	--
Fluazinam	Omega	7	--	--	--	--	--
Fludioxonil	Switch	2	2 (Codex)	5,500	0.63	0.01	--
Fluopyram	Luna Privilege, Luna Tranquility	7	7 (Codex)	2,100	--	--	--
Fluxapyroxad	Xemium	7	7 (Codex)	--	--	--	--
Fosetyl-Al	Aliette	40	--	--	--	--	--
Iprodione	Rovral, Iprodione	15	--	1,700	2.7	0.0052	--
Isofetamid	Kenja	5	--	(D)	--	--	--
Mefentrifluconazole	Cevya	5	--	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	--	(D)	0.027	0.0032	--

## FUNGICIDES: Status of Filipino 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)	The Philippines (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	The Philippines Monitoring
Metconazole	Quash	0.4	--	3,800	0.14	0.011	--
Oxathiapiprolin	Orondis	0.5	--	--	--	--	--
Penthiopyrad	Fontelis	6	--	--	--	--	--
Propiconazole	Tilt, Quilt Xcel, others	1	--	3,300	0.068	0.068	--
Prothioconazole	Proline, Propulse	2	{1.5} (Codex)	1,800	--	--	--
Pydiflumetofen	Miravis	5	--	--	--	--	--
Pyraclostrobin	Pristine	4	4 (Codex)	3,400	0.26	0.002	--
Pyrimethanil	Luna Tranquility	8	8 (Codex)	2,500	0.0062	0.0026	--
Pyriofenone	Proливо	1.5	1.5 (Codex)	--	--	--	--
Ziram	Ziram	7	--	43,200	--	--	--

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

(Codex) Means Codex MRL applies in the absence of a Filipino MRL.

## INSECTICIDES: Status of Filipino 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)	The Philippines (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	The Philippines Monitoring
Acetamiprid	Assail, others	1.6	2 (Codex)	1,900	0.19	0.0022	--
Bifenthrin	Brigade, others	1.8	3 (Codex)	5,100	0.77	0.013	--
Carbaryl	Sevin	3	--	800	1.3	0.0051	--
Chlorantraniliprole	Altacor	2.5	{1} (Codex)	(D)	0.32	0.011	--
Cyantraniliprole	Exirel	4	4 (Codex)	100	--	--	--
Diazinon	Diazinon	0.5	--	5,200	--	--	--
Esfenvalerate	Asana	1	--	1,400	0.1	0.0056	--
Fenazaquin	Magister	0.8	--	--	--	--	--
Fenpropathrin	Danitol	3	--	5,900	1	0.023	--
Fenpyroximate	Fujimite	3	--	--	--	--	--
Flupyradifurone	Sivanto	4	4 (Codex)	400	--	--	--
Imidacloprid	Admire, others	3.5	5 (Codex)	3,100	0.44	0.01	--
Indoxacarb	Avaunt	1.5	--	(D)	0.046	0.01	--
Malathion	Malathion	8	10 (Codex)	60,400	0.67	0.0026	--
Metaldehyde	Deadline, others	0.15	--	--	--	--	--
Methomyl	Lannate	6	--	21,700	2.5	0.013	--
Methoxyfenozone	Intrepid	3	4 (Codex)	2,900	0.58	0.0089	--
Methyl bromide	Methyl Bromide	20	20 (Codex)	--	--	--	--
Novaluron	Rimon	7	7 (Codex)	--	0.024	0.015	--
Phosmet	Imidan	10	10 (Codex)	58,100	1.7	0.0025	--
Pyrethrins	Several	1 <i>Exempt</i>	--	100	--	--	--
Pyriproxyfen	Knack	1	--	--	--	--	--

## INSECTICIDES: Status of Filipino 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)	The Philippines (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	The Philippines Monitoring
<b>Spinetoram</b>	Delegate	0.5	{0.2} (Codex)	1,200	0.09	0.0055	--
<b>Spinosad</b>	Entrust, Success	0.4	0.4 (Codex)	2,000	0.047	0.003	--
<b>Spirotetramat</b>	Movento	3	{1.5} (Codex)	(D)	--	--	--
<b>Sulfoxaflor</b>	Closer, Sequoia	2	--	--	--	--	--
<b>Tebufenozide</b>	Confirm	3	3 (Codex)	(D)	1.3	0.0053	--
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5 (Codex)	200	0.0073	0.0028	--
<b>Tolfenpyrad</b>	Bexar	7	--		--	--	--
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	--	2,300	0.66 <sup>a</sup>	0.011 <sup>a</sup>	--

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

(Codex) Means Codex MRL applies in the absence of a Filipino MRL.

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

## HERBICIDES & OTHER: Status of Filipino 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)	The Philippines (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	The Philippines Monitoring
<b>2,4-D</b>	2,4 D	0.2	{0.1} (Codex)	200	--	--	--
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	--	100	--	--	--
<b>Clethodim</b>	Select Max, Others	0.2	--	1,400	--	--	--
<b>Clopyralid</b>	Stinger	0.5	--	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	--	200	--	--	--
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	--	(D)	--	--	--
<b>Diuron</b>	Karmex, Diuron	0.1	--	23,000	--	--	--
<b>Ethephon</b>	Ethephon	20	--	--	--	--	--
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	--	(D)	--	--	--
<b>Flumioxazin</b>	Chateau, others	0.02	0.02 (Codex)	4,800	--	--	--
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1} (Codex)	31,500	--	--	--
<b>Glyphosate</b>	RoundUp, others	0.2	--	18,500	--	--	--
<b>Halosulfuron-methyl</b>	Sandea	0.05	--	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	--	3,500	--	--	--
<b>Indaziflam</b>	Alion	0.01	--	300	--	--	--
<b>Isoxaben</b>	Trellis	0.01	--	200	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01 (Codex)	1,800	--	--	--
<b>Napropamide</b>	Devrinol	0.1	--	200	--	--	--
<b>Norflurazon</b>	Solicam	0.2	--	15,500	--	--	--
<b>Oryzalin</b>	Suflan	0.05	--	18,000	0.021	0.021	--

## HERBICIDES & OTHER: Status of Filipino 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)	The Philippines (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	The Philippines Monitoring
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.01} (Codex)	11,000	--	--	--
<b>Pendimethalin</b>	Several	0.1	--	--	--	--	--
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	--	(D)	0.037	0.037	--
<b>Propyzamide</b>	Kerb	0.05	--	--	--	--	--
<b>Quinclorac</b>	Quinstar	0.08	--	200	--	--	--
<b>Rimsulfuron</b>	Matrix	0.01	--	300	--	--	--
<b>Sethoxydim</b>	Poast	4	--	(D)	--	--	--
<b>Simazine</b>	Princep, others	0.2	--	36,100	0.012	0.0085	--
<b>S-metolachlor</b>	Dual	0.15	--	6,600	--	--	--
<b>Sulfentrazone</b>	Zeus, others	0.15	--	1,400	--	--	--
<b>Terbacil</b>	Sinbar	0.2	--	4,800	--	--	--

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

(Codex) Means Codex MRL applies in the absence of a Filipino MRL.

## XII. 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Taiwan Monitoring (2017)
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	13,800	1	0.0027	Yes
Boscalid	Pristine	13	{10}	6,600	1.7	0.0051	Yes
Captan	Captan, Captevate	20	20	175,900	--	--	
Chlorothalonil	Bravo, others	1	1	31,100	0.11	0.021	Yes
Cyprodinil	Switch, Inspire Super	3	3	8,400	1	0.003	Yes
Difenoconazole	Inspire Super, Quadris Top	4	{1}	400	0.02	0.0065	Yes
Fenbuconazole	Indar	0.3	0.5	6,400	0.38	0.0051	Yes
Fenhexamid	Elevate, Captevate	5	5	1,300	0.91	0.011	Yes
Fenpyrazamine	Protexio	5	5	--	--	--	
Fluazinam	Omega	7	--	--	--	--	Yes
Fludioxonil	Switch	2	2	5,500	0.63	0.01	Yes
Fluopyram	Luna Privilege, Luna Tranquility	7	{2}	2,100	--	--	Yes
Fluxapyroxad	Xemium	7	{5}	--	--	--	Yes
Fosetyl-Al	Aliette	40	{20}	--	--	--	
Iprodione	Rovral, Iprodione	15	{5}	1,700	2.7	0.0052	Yes
Isfetamid	Kenja	5	--	(D)	--	--	
Mefentrifluconazole	Cevya	5	--	--	--	--	
Metalaxyl-M (Mefenoxam)	Ridomil	2	2	(D)	0.027	0.0032	Yes
Metconazole	Quash	0.4	0.4	3,800	0.14	0.011	Yes

## 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Taiwan Monitoring (2017)
<b>Oxathiapiprolin</b>	Orondis	0.5	--	--	--	--	
<b>Penthiopyrad</b>	Fontelis	6	--	--	--	--	Yes
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	2	3,300	0.068	0.068	Yes
<b>Prothioconazole</b>	Proline, Propulse	2	{1.5}	1,800	--	--	
<b>Pydiflumetofen</b>	Miravis	5	--	--	--	--	
<b>Pyraclostrobin</b>	Pristine	4	{1}	3,400	0.26	0.002	Yes
<b>Pyrimethanil</b>	Luna Tranquility	8	{7}	2,500	0.0062	0.0026	Yes
<b>Pyriofenone</b>	Prolivo	1.5	--	--	--	--	
<b>Ziram</b>	Ziram	7	{5}	43,200	--	--	

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



## INSECTICIDES: 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Taiwan Monitoring (2017)
Acetamiprid	Assail, others	1.6	{1}	1,900	0.19	0.0022	Yes
Bifenthrin	Brigade, others	1.8	{1}	5,100	0.77	0.013	Yes
Carbaryl	Sevin	3	{0.5}	800	1.3	0.0051	Yes
Chlorantraniliprole	Altacor	2.5	{2}	(D)	0.32	0.011	Yes
Cyantraniliprole	Exirel	4	--	100	--	--	
Diazinon	Diazinon	0.5	0.5	5,200	--	--	Yes
Esfenvalerate	Asana	1	1	1,400	0.1	0.0056	Yes
Fenazaquin	Magister	0.8	{0.01}	--	--	--	Yes
Fenpropathrin	Danitol	3	3	5,900	1	0.023	Yes
Fenpyroximate	Fujimite	3	{0.5}	--	--	--	Yes
Flupyradifurone	Sivanto	4	4	400	--	--	Yes
Imidacloprid	Admire, others	3.5	{1}	3,100	0.44	0.01	Yes
Indoxacarb	Avaunt	1.5	{1}	(D)	0.046	0.01	Yes
Malathion	Malathion	8	{0.01}	60,400	0.67	0.0026	Yes
Metaldehyde	Deadline, others	0.15	--	--	--	--	
Methomyl	Lannate	6	{2}	21,700	2.5	0.013	Yes
Methoxyfenozone	Intrepid	3	4	2,900	0.58	0.0089	Yes
Methyl bromide	Methyl Bromide	20	--	--	--	--	
Novaluron	Rimon	7	--	--	0.024	0.015	Yes
Phosmet	Imidan	10	{1}	58,100	1.7	0.0025	Yes
Pyrethrins	Several	1 <i>Exempt</i>	--	100	--	--	Yes
Pyriproxyfen	Knack	1	{0.5}	--	--	--	Yes

## INSECTICIDES: 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Taiwan Monitoring (2017)
<b>Spinetoram</b>	Delegate	0.5	{0.2}	1,200	0.09	0.0055	Yes
<b>Spinosad</b>	Entrust, Success	0.4	0.4	2,000	0.047	0.003	Yes
<b>Spirotetramat</b>	Movento	3	--	(D)	--	--	Yes
<b>Sulfoxaflor</b>	Closer, Sequoia	2	--	--	--	--	Yes
<b>Tebufenozide</b>	Confirm	3	{0.01}	(D)	1.3	0.0053	
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	200	0.0073	0.0028	Yes
<b>Tolfenpyrad</b>	Bexar	7	{0.01}	--	--	--	Yes
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	2	2,300	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 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Taiwan Monitoring (2017)
<b>2,4-D</b>	2,4 D	0.2	{0.1}	200	--	--	
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	0.1	100	--	--	Yes
<b>Clethodim</b>	Select Max, Others	0.2	--	1,400	--	--	Yes
<b>Clopyralid</b>	Stinger	0.5	--	100	--	--	
<b>Dichlobenil</b>	Casoron	0.15	--	200	--	--	
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	--	(D)	--	--	
<b>Diuron</b>	Karmex, Diuron	0.1	--	23,000	--	--	Yes
<b>Ethephon</b>	Ethephon	20	{2}	--	--	--	
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	{0.01}	(D)	--	--	Yes
<b>Flumioxazin</b>	Chateau, others	0.02	--	4,800	--	--	
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	31,500	--	--	
<b>Glyphosate</b>	RoundUp, others	0.2	0.2	18,500	--	--	
<b>Halosulfuron-methyl</b>	Sandea	0.05	--	100	--	--	
<b>Hexazinone</b>	Velpar	0.6	{0.01}	3,500	--	--	Yes
<b>Indaziflam</b>	Alion	0.01	--	300	--	--	
<b>Isoxaben</b>	Trellis	0.01	--	200	--	--	
<b>Mesotrione</b>	Callisto, others	0.01	0.01	1,800	--	--	
<b>Napropamide</b>	Devrinol	0.1	{0.01}	200	--	--	Yes
<b>Norflurazon</b>	Solicam	0.2	{0.1}	15,500	--	--	Yes
<b>Oryzalin</b>	Suflan	0.05	--	18,000	0.021	0.021	
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.01}	11,000	--	--	
<b>Pendimethalin</b>	Several	0.1	{0.01}	--	--	--	Yes

## HERBICIDES & OTHER: 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)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Taiwan Monitoring (2017)
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	--	(D)	0.037	0.037	Yes
<b>Propyzamide</b>	Kerb	0.05	--	--	--	--	
<b>Quinclorac</b>	Quinstar	0.08	--	200	--	--	Yes
<b>Rimsulfuron</b>	Matrix	0.01	--	300	--	--	
<b>Sethoxydim</b>	Poast	4	--	(D)	--	--	Yes
<b>Simazine</b>	Princep, others	0.2	0.2	36,100	0.012	0.0085	Yes
<b>S-metolachlor</b>	Dual	0.15	0.15	6,600	--	--	
<b>Sulfentrazone</b>	Zeus, others	0.15	<b>{0.1}</b>	1,400	--	--	
<b>Terbacil</b>	Sinbar	0.2	--	4,800	--	--	

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

### XIII. Vietnamese MRL Status

#### FUNGICIDES: Status of Vietnamese 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)	Viet Nam (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Viet Nam Monitoring
Azoxystrobin	Abound, Quadris, Quadris Top	5	5	13,800	1	0.0027	--
Boscalid	Pristine	13	{10}	6,600	1.7	0.0051	--
Captan	Captan, Captevate	20	20	175,900	--	--	--
Chlorothalonil	Bravo, others	1	--	31,100	0.11	0.021	--
Cyprodinil	Switch, Inspire Super	3	10	8,400	1	0.003	--
Difenoconazole	Inspire Super, Quadris Top	4	--	400	0.02	0.0065	--
Fenbuconazole	Indar	0.3	0.5	6,400	0.38	0.0051	--
Fenhexamid	Elevate, Captevate	5	5	1,300	0.91	0.011	--
Fenpyrazamine	Protexio	5	--	--	--	--	--
Fluazinam	Omega	7	--	--	--	--	--
Fludioxonil	Switch	2	2	5,500	0.63	0.01	--
Fluopyram	Luna Privilege, Luna Tranquility	7	--	2,100	--	--	--
Fluxapyroxad	Xemium	7	--	--	--	--	--
Fosetyl-Al	Aliette	40	--	--	--	--	--
Iprodione	Rovral, Iprodione	15	--	1,700	2.7	0.0052	--
Isofetamid	Kenja	5	--	(D)	--	--	--
Mefentrifluconazole	Cevya	5	--	--	--	--	--
Metalaxyl-M (Mefenoxam)	Ridomil	2	--	(D)	0.027	0.0032	--
Metconazole	Quash	0.4	--	3,800	0.14	0.011	--

## FUNGICIDES: Status of Vietnamese 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)	Viet Nam (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Viet Nam Monitoring
<b>Oxathiapiprolin</b>	Orondis	0.5	--	--	--	--	--
<b>Penthiopyrad</b>	Fontelis	6	--	--	--	--	--
<b>Propiconazole</b>	Tilt, Quilt Xcel, others	1	--	3,300	0.068	0.068	--
<b>Prothioconazole</b>	Proline, Propulse	2	{1.5}	1,800	--	--	--
<b>Pydiflumetofen</b>	Miravis	5	--	--	--	--	--
<b>Pyraclostrobin</b>	Pristine	4	4	3,400	0.26	0.002	--
<b>Pyrimethanil</b>	Luna Tranquility	8	--	2,500	0.0062	0.0026	--
<b>Pyriofenone</b>	Prolivo	1.5	--	--	--	--	--
<b>Ziram</b>	Ziram	7	--	43,200	--	--	--

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

## INSECTICIDES: Status of Vietnamese 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)	Viet Nam (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Viet Nam Monitoring
Acetamiprid	Assail, others	1.6	2	1,900	0.19	0.0022	--
Bifenthrin	Brigade, others	1.8	--	5,100	0.77	0.013	--
Carbaryl	Sevin	3	--	800	1.3	0.0051	--
Chlorantraniliprole	Altacor	2.5	{1}	(D)	0.32	0.011	--
Cyantraniliprole	Exirel	4	4	100	--	--	--
Diazinon	Diazinon	0.5	--	5,200	--	--	--
Esfenvalerate	Asana	1	--	1,400	0.1	0.0056	--
Fenazaquin	Magister	0.8	--	--	--	--	--
Fenpropathrin	Danitol	3	--	5,900	1	0.023	--
Fenpyroximate	Fujimite	3	--	--	--	--	--
Flupyradifurone	Sivanto	4	--	400	--	--	--
Imidacloprid	Admire, others	3.5	5	3,100	0.44	0.01	--
Indoxacarb	Avaunt	1.5	--	(D)	0.046	0.01	--
Malathion	Malathion	8	10	60,400	0.67	0.0026	--
Metaldehyde	Deadline, others	0.15	--	--	--	--	--
Methomyl	Lannate	6	--	21,700	2.5	0.013	--
Methoxyfenozone	Intrepid	3	4	2,900	0.58	0.0089	--
Methyl bromide	Methyl Bromide	20	20	--	--	--	--
Novaluron	Rimon	7	7	--	0.024	0.015	--
Phosmet	Imidan	10	10	58,100	1.7	0.0025	--
Pyrethrins	Several	1 <i>Exempt</i>	--	100	--	--	--
Pyriproxyfen	Knack	1	--	--	--	--	--

## INSECTICIDES: Status of Vietnamese 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)	Viet Nam (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Viet Nam Monitoring
<b>Spinetoram</b>	Delegate	0.5	{0.2}	1,200	0.09	0.0055	--
<b>Spinosad</b>	Entrust, Success	0.4	0.4	2,000	0.047	0.003	--
<b>Spirotetramat</b>	Movento	3	{1.5}	(D)	--	--	--
<b>Sulfoxaflor</b>	Closer, Sequoia	2	--	--	--	--	--
<b>Tebufenozide</b>	Confirm	3	3	(D)	1.3	0.0053	--
<b>Thiamethoxam</b>	Actara, Platinum	0.2	0.5	200	0.0073	0.0028	--
<b>Tolfenpyrad</b>	Bexar	7	--		--	--	--
<b>Zeta-Cypermethrin</b>	Mustang Max	0.8	--	2,300	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 Vietnamese 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)	Viet Nam (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Viet Nam Monitoring
<b>2,4-D</b>	2,4 D	0.2	{0.1}	200	--	--	--
<b>Carfentrazone-ethyl</b>	Aim, Zeus	0.1	--	100	--	--	--
<b>Clethodim</b>	Select Max, Others	0.2	--	1,400	--	--	--
<b>Clopyralid</b>	Stinger	0.5	--	100	--	--	--
<b>Dichlobenil</b>	Casoron	0.15	--	200	--	--	--
<b>Diquat dibromide</b>	Diquat, Reglone	0.05	--	(D)	--	--	--
<b>Diuron</b>	Karmex, Diuron	0.1	--	23,000	--	--	--
<b>Ethephon</b>	Ethephon	20	20	--	--	--	--
<b>Fluazifop-P-butyl</b>	Fusilade	0.3	--	(D)	--	--	--
<b>Flumioxazin</b>	Chateau, others	0.02	--	4,800	--	--	--
<b>Glufosinate-ammonium</b>	Rely, others	0.15	{0.1}	31,500	--	--	--
<b>Glyphosate</b>	RoundUp, others	0.2	--	18,500	--	--	--
<b>Halosulfuron-methyl</b>	Sandea	0.05	--	100	--	--	--
<b>Hexazinone</b>	Velpar	0.6	--	3,500	--	--	--
<b>Indaziflam</b>	Alion	0.01	--	300	--	--	--
<b>Isoxaben</b>	Trellis	0.01	--	200	--	--	--
<b>Mesotrione</b>	Callisto, others	0.01	0.01	1,800	--	--	--
<b>Napropamide</b>	Devrinol	0.1	--	200	--	--	--
<b>Norflurazon</b>	Solicam	0.2	--	15,500	--	--	--
<b>Oryzalin</b>	Suflan	0.05	--	18,000	0.021	0.021	--
<b>Paraquat dichloride</b>	Gramoxone, others	0.05	{0.01}	11,000	--	--	--
<b>Pendimethalin</b>	Several	0.1	--	--	--	--	--

## HERBICIDES & OTHER: Status of Vietnamese 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)	Viet Nam (ppm)	2019 NASS Application Data (lbs.)	Highest Residue PDP 2014	Lowest Residue PDP 2014	Viet Nam Monitoring
<b>Piperonyl Butoxide</b>	PBO, several	8 <i>Exempt</i>	--	(D)	0.037	0.037	--
<b>Propyzamide</b>	Kerb	0.05	--	--	--	--	--
<b>Quinclorac</b>	Quinstar	0.08	--	200	--	--	--
<b>Rimsulfuron</b>	Matrix	0.01	--	300	--	--	--
<b>Sethoxydim</b>	Poast	4	--	(D)	--	--	--
<b>Simazine</b>	Princep, others	0.2	--	36,100	0.012	0.0085	--
<b>S-metolachlor</b>	Dual	0.15	--	6,600	--	--	--
<b>Sulfentrazone</b>	Zeus, others	0.15	--	1,400	--	--	--
<b>Terbacil</b>	Sinbar	0.2	--	4,800	--	--	--

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