

## **Item to be explained : Establishment of the Maximum Residue Limits for Agricultural and Veterinary Chemicals in Foods**

The Food Sanitation Act authorizes the Ministry of Health, Labour and Welfare (MHLW) to establish residue standards (maximum residue limits, “MRLs”) for pesticides, feed additives, and veterinary drugs (hereafter referred to as “agricultural and veterinary chemicals”) that may remain in foods. Any food for which standards are established pursuant to the provisions in Article 13, Paragraph 1 of the act is not permitted to be marketed in Japan unless it complies with the established standards

On May 29, 2006, Japan introduced the Positive List System<sup>1</sup> for agricultural and veterinary chemicals in food. All foods distributed in the Japanese marketplace are subject to regulation of the system.

The MHLW is going to modify or newly set MRLs in some commodities for the following substances:

**Pesticides : Chlorpyrifos, Diethofencarb, Myclobutanil , Pymetrozine**  
**Pesticides and Veterinary drugs : Deltamethrin and Tralomethrin**

<The manner of submitting comments>

The Ministry of Health, Labour and Welfare (MHLW) will amend the existing standards and specifications for food as shown in this document. Please provide comments in writing by Friday, October 23, 2020. After the given date, comments should be directed to the enquiry point in accordance with the WTO/SPS Agreement.

If you wish to request Japan to adopt the same limits as your country’s MRLs, you are requested to submit data supporting your country’s MRLs, such as risk assessment and residue data.

<Contact person>

Food Safety Standards and Evaluation Division,  
Pharmaceutical Safety and Environmental Health Bureau,  
Ministry of Health, Labour and Welfare  
1-2-2, Chiyoda-ku, Kasumigaseki, Tokyo, 100-8916

Mr. MIURA Tomoaki ([miura-tomoaki@mhlw.go.jp](mailto:miura-tomoaki@mhlw.go.jp))

Tel : 03-3595-2423 (ex 4290) Fax: 03-3595-2432

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<sup>1</sup> The aim of the positive list system is to prohibit the distribution of any foods which contain agricultural chemicals at amounts exceeding a certain level (0.01 ppm) in the Japanese marketplace unless specific maximum residue limits (MRLs) have been set.

## Summary

**Chlorpyrifos (pesticides: Insecticide):** The draft MRLs except sesame seeds had been reported at FSG (the 219<sup>th</sup>) on January 24, 2019. As some foreign country governments submitted supervised crop residue trials in response to the WTO/SPS notification, the MRL for the sesame seeds is to be established.

**Diethofencarb (pesticides: Fungicide):** Permitted for use in Japan. The MHLW is going to establish MRLs in some commodities in response to a request for setting MRLs by the MAFF with the intention to expand its use patterns.

**Myclobutanil (pesticides: Fungicide):** Permitted for use in Japan. The MHLW is going to establish MRLs in one commodity in response to a request for setting it by the MAFF with the intention to expand its use pattern. The MHLW is also going to establish MRLs in some commodities in response to a request for setting import tolerances based on the Guideline for Application for Establishment and Revision of Maximum Residue Limits for Agricultural Chemicals Used outside Japan (Shokuan No. 0205001, 5 February 2004).

**Pymetrozine (pesticides: Insecticide):** Permitted for use in Japan. The MHLW is going to modify MRLs in some commodities in consideration of acute reference dose (ARfD).

**Deltamethrin and Tralomethrin (pesticides and veterinary drugs: Insecticide):** Permitted for use in Japan. The MHLW is going to establish MRLs in some commodities in response to a request for setting import tolerances based on the Guideline for Application for Establishment and Revision of Maximum Residue Limits for Agricultural Chemicals Used outside Japan (Shokuan No. 0205001, 5 February 2004).

Chlorpyrifos

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Rice (brown rice)	●	0.1			1
Wheat	0.5	0.5		0.5	
Barley	●	0.2			
Rye		0.01			
Corn (maize, including pop corn and sweet corn)	● 0.05	0.1		0.05	
Buckwheat		0.01			
Other cereal grains	● 0.5	0.75		0.5	
Soybeans, dry	● 0.1	0.3	§	0.1	
Beans, dry	○ 0.3	0.1	Request		
Peas	●	0.05			
Broad beans	●	0.05			
Peanuts, dry	●	0.2			
Other pulses	●	0.05			
Potato※1	● 0.02	0.05	§	2	
Taro		0.01			
Sweet potato	0.1	0.1	§		
Japanese yam (including Chinese yam)		0.01			
Konjac		0.01			
Other potatoes		0.01			
Sugar beet	0.05	0.05	§	0.05	
Sugarcane	● 0.05	0.1	§		
Japanese radish, roots (including radish)	● 0.2	0.5	§		
Japanese radish, leaves (including radish)	● 0.05	2	§		
Turnip, roots (including rutabaga)	●	1			
Turnip, leaves (including rutabaga)	●	0.3			
Horseradish		0.01			
Watercress		0.01			
Chinese cabbage※2	●	1.0		1	
Cabbage※2	●	0.05		1	
Brussels sprouts	●	1.0			
Kale	●	1.0			
Komatsuna (Japanese mustard spinach)	●	1			
Kyona	●	1			
Qing-geng-cai	●	1			
Cauliflower	0.05	0.05		0.05	
Broccoli	○ 2	1		2	
Other cruciferous vegetables	●	1			
Burdock		0.01			
Salsify		0.01			
Artichoke	●	1			
Chicory		0.01			
Endive		0.01			
Shungiku		0.01			
Lettuce (including cos lettuce and leaf lettuce)	●	0.1			
Other composite vegetables		0.01			
Onion	○ 0.2	0.05	§	0.2	
Welsh (including leek)	●	0.2			
Garlic		0.01			
Nira		0.01			
Asparagus	●	5			
Multiplying onion (including shallot)		0.01			

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Other liliaceous vegetables		0.01			
Carrot	● 0.1	0.5		0.1	
Parsnip		0.01			
Parsley		0.01			
Celery	●	0.05			
Mitsuba		0.01			
Other umbelliferous vegetables	○ 1	0.01		1	
Tomato	●	0.5			
Pimiento (sweet pepper)	○ 2	0.5		2	
Egg plant	●	0.2			
Other solanaceous vegetables	○ 2	1		2	
Cucumber (including gherkin)	●	0.05			
Pumpkin (including squash)	●	0.05			
Oriental pickling melon (vegetable)		0.01			
Water melon		0.01			
Melons		0.01			
Makuwauri melon		0.01			
Other cucurbitaceous vegetables		0.01			
Spinach		0.01			
Bamboo shoots	●	0.5			
Okra	●	0.5			
Ginger	○ 1	0.01		1	
Peas, immature (with pods)※2		0.01		0.01	
Kidney beans, immature (with pods)※2	●	0.2		0.01	
Green soybeans	●	0.3			
Button mushroom	●	0.05			
Shiitake mushroom		0.01			
Other mushrooms		0.01			
Other vegetables	○ 1	0.5		1	
Unshu orange, pulp		1	§		
Unshu orange (whole commodity)	1		§		
Citrus natsudaikai, whole	1	1	§	1	
Lemon	1	1	§	1	
Orange (including navel orange)	1	1	§	1	
Grapefruit	1	1	§	1	
Lime	1	1	§	1	
Other citrus fruits	1	1	§	1	
Apple	● 0.5	1.0	§	1	
Japanese pear	● 0.3	0.5	§	1	
Pear	● 0.3	0.5	§	1	
Quince	○ 1	0.5		1	
Loquat		0.5			
Loquat (whole commodity after removal of stems)	1			1	
Peach		1.0	§		
Peach (whole commodity after removal of stems and stones but the residue calculated and expressed on the whole commodity without stems)	1		§	0.5	
Nectarine	○ 1	1.0	§		
Apricot	●	0.05			
Japanese plum (including prune)	● 0.5	1.0	§	0.5	
Mume plum		0.01			
Cherry	●	1			
Strawberry	○ 0.3	0.2		0.3	

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Raspberry	●	0.2			
Blackberry	●	1			
Blueberry	1	1	§		
Cranberry	○ 1	1.0		1	
Huckleberry		0.01			
Other berries	●	1			
Grape	● 0.5	1.0		0.5	
Japanese persimmon※2		0.01		1	
Banana	● 2	3		2	
Kiwifruit	●	2.0			
Papaya		0.01			
Avocado	●	0.5			
Pineapple	●	0.05			
Guava	●	0.05			
Mango	●	0.05			
Passion fruit	●	0.05			
Date	●	0.3			
Other fruits	1	1	§	1	
Sunflower seeds	●	0.25			
Sesame seeds	● 0.05	0.1			0.05 Paraguay
Safflower seeds	●	0.1			
Cotton seeds	○ 0.3	0.05		0.3	
Rapeseeds	●	0.1			
Other oil seeds	○ 5	0.1		5	
Ginkgo nut		0.01			
Chestnut	●	0.2			
Pecan	● 0.05	0.2		0.05	
Almond	● 0.05	0.2		0.05	
Walnut	● 0.05	0.2		0.05	
Other nuts	●	0.2			
Tea	10	10		2	
Coffee beans	0.05	0.05		0.05	
Cacao beans	●	0.05			
Hop	●	0.1			
Other spices (except seeds, fruits, roots or rhizome)	—	1	§		
Other spices	5	—	§	5	
Other herbs	1	1		1	
Cattle, muscle	● 0.05	0.5			
Pig, muscle	● 0.01	0.05			
Other terrestrial mammals, muscle	● 0.05	0.3			
Cattle, fat※3	● 0.05	1		1	
Pig, fat※3	● 0.01	0.02		0.02	
Other terrestrial mammals, fat	● 0.05	1		1	
Cattle, liver	0.01	0.01		0.01	
Pig, liver	0.01	0.01		0.01	
Other terrestrial mammals, liver	0.01	0.01		0.01	
Cattle, kidney	0.01	0.01		0.01	
Pig, kidney	0.01	0.01		0.01	
Other terrestrial mammals, kidney	0.01	0.01		0.01	
Cattle, edible offal	● 0.01	0.4		0.01	
Pig, edible offal	0.01	0.01		0.01	
Other terrestrial mammals, edible offal	0.01	0.01		0.01	

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Milk※3	● 0.01	0.02		0.02	↓
Chicken, muscle	● 0.01	0.08			↓
Other poultry, muscle	● 0.01	0.08			↓
Chicken, fat	0.01	0.01		0.01	↓
Other poultry, fat	0.01	0.01		0.01	↓
Chicken, liver	0.01	0.01		0.01	↓
Other poultry, liver	0.01	0.01		0.01	↓
Chicken, kidney	0.01	0.01		0.01	↓
Other poultry, kidney	0.01	0.01		0.01	↓
Chicken, edible offal	0.01	0.01		0.01	↓
Other poultry, edible offal	0.01	0.01		0.01	↓
Chicken eggs	0.01	0.01		0.01	↓
Other poultry, eggs	0.01	0.01		0.01	↓
Fish	○ 0.3		Request		↓
Mineral waters※4	0.03	0.03		0.03	↓
Wheat flour (except whole grain)※5		0.1		0.1	↓
Corn oil (limited to edible corn oil that meets the JAS for Edible Vegetable Fats and Oils, and other edible oils that meet standards equivalent to or stricter than JAS)		0.2		0.2	↓
Corn oil	0.2			0.2	↓
Soybean oil (limited to edible soybean oil that meets the JAS for Edible Vegetable Fats and Oils, and other edible oils that meet standards equivalent to or stricter than JAS)※5		0.05		0.03	↓
Pepper, dried※5				20	↓
Raisin※5				0.1	↓
Cottonseed oil (limited to refined cottonseed oil and cottonseed salad oil that meet the JAS for Edible Vegetable Fats and Oils, and other edible oils that meet standards equivalent to or stricter than JAS)※5		0.05		0.05	↓
Cottonseed oil (except refined cottonseed oil and cottonseed salad oil that meet the JAS for Edible Vegetable Fats and Oils, and other edible oils that meet standards equivalent to or stricter than JAS)※5		0.05			↓
Other spices, dried (limited to fruits)	●	1			↓
Other spices, dried (limited to seeds)	●	5			↓
Other spices, dried (limited to roots or rhizome)	●	1			↓

The residue definition is chlorpyrifos only.

\* The uniform limit 0.01 ppm will be applied to commodities for which draft MRLs are not given in this table and to commodities not listed above.

\* Shaded figures indicate provisional MRLs.

\* Diagonal line means a food category to which MRL applies is not set.

\* In the Commodity column, for the food categories to which the word other is added, refer to the Notes given in the last two pages of the Attachment.

● : Commodities for which MRLs are to be lowered.

○ : Commodities for which MRLs are to be increased.

§ : Permitted for use in Japan.

Request: Request for setting/revising MRL was made by the MAFF.

※1 : Although Codex has set MRLs, the draft MRLs are set based on the residue data from the domestic supervised residue trials because the dietary exposure assessment would be beyond the tolerance level when Codex MRLs are set.

※2: Although Codex has set MRLs, the draft MRLs aren't established, because the dietary exposure assessment would be beyond the tolerance level when Codex MRLs are set.

※3: Although Codex has set MRLs, the draft MRLs are set based on the maximum estimated values which were calculated with domestic MDB because the dietary exposure assessment would be beyond the tolerance level when Codex MRLs are set.

※4: MRL for mineral water is set based on the WHO Guideline Value for drinking-water

※5: For "Wheat flour", "Soybean oil", "Pepper,dried", "Raisin" and "Cottonseed oil" as food categories, Codex MRLs are referred to these MRLs . i.e. These MRLs in their raw commodities (Wheat, Soybeans,dried, Other solanaceous vegetables ,Grape and Cottonseed) will apply to such processed commodities, respectively, taking into account of their processing factors. For these substances, JMPR estimates processing factors at 0.2 for Wheat flour, 0.4 for Soybean oil, 10 for Pepper,dried, 0.2 for Raisin, 0.2 for Cottonseed oil.

## Diethofencarb

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Wheat	0.05	0.05	§		
Soybeans, dry	● 0.05	0.1	§		
Beans, dry	● 0.04	0.1	§		
Peas	● 0.05	0.1	§		
Broad beans	● 0.05	0.1	§		
Other pulses	● 0.05	0.1	§		
Japanese radish, leaves (including radish)	5	5			
Watercress	5	5			
Chinese cabbage	○ 0.6		Request		
Cabbage	● 0.1	5	§		
Kyona	5	5			
Other cruciferous vegetables	5	5			
Endive	5	5			
Lettuce (including cos lettuce and leaf lettuce)	○ 15	5	§ • Request		
Other composite vegetables	● 2	5	§		
Onion	● 0.05	5	§		
Garlic	●	5			
Nira	○ 30		Request		
Mitsuba	● 0.2	5	§		
Tomato	● 2	5	§		
Pimiento (sweet pepper)	5	5			
Egg plant	● 2	5	§		
Other solanaceous vegetables	5	5			
Cucumber (including gherkin)	● 0.6	5	§		
Pumpkin (including squash)	● 0.2	5	§		
Oriental pickling melon (vegetable)	●	5			
Water melon	● 0.05	5	§		
Melons	●	5			
Other cucurbitaceous vegetables	● 0.3	5	§		
Okra	●	5			
Peas, immature (with pods)	● 3	5	§		
Kidney beans, immature (with pods)	● 4	5	§ • Request		
Green soybeans	○ 6	5	§		
Other vegetables	○ 6	5	§		
Unshu orange, pulp		5	§		
Unshu orange (whole commodity)	2		§		
Citrus natsudaidai, whole	● 2	5	§		
Lemon	● 2	5	§		
Orange (including navel orange)	● 2	5	§		
Grapefruit	● 2	5	§		
Lime	● 2	5	§		
Other citrus fruits	● 2	5	§		
Apple	5	5			
Japanese pear	5	5			
Pear	5	5			
Mume plum	● 0.5	5	§		
Strawberry	5	5	§		
Grape	5	5	§		
Japanese persimmon	● 2	5	§		
Banana	0.1	0.1			0.10 <sup>1</sup> USA
Kiwifruit		5	§		



Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Kiwifruit (whole commodity)	5		§		!
Other fruits	●	5			!
Tea	5	5	§		!
Other spices	10	10	§		!

The residue definition is diethofencarb only.

\* The uniform limit 0.01 ppm will be applied to commodities for which draft MRLs are not given in this table and to commodities not listed above.

\* Diagonal line means a food category to which MRL applies is not set.

\* In the Commodity column, for the food categories to which the word other is added, refer to the Notes given in the last two pages of the Attachment.

●: Commodities for which MRLs are to be lowered.

○: Commodities for which MRLs are to be increased.

§: Permitted for use in Japan.

Request: Request for setting/revising MRL was made by the MAFF.

Myclobutanil

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Wheat	●	0.3			
Barley	●	0.5			
Soybeans, dry	0.3	0.3			0.25(*) USA
Potato	○ 0.06			0.06	
Taro	○ 0.06			0.06	
Sweet potato	○ 0.06			0.06	
Japanese yam (including Chinese yam)	○ 0.06			0.06	
Konjac	○ 0.06			0.06	
Other potatoes	○ 0.06			0.06	
Sugar beet	○ 0.06			0.06	
Japanese radish, roots (including radish)	○ 0.06			0.06	
Japanese radish, leaves (including radish)	○ 0.05			0.05	
Turnip, roots (including rutabaga)	○ 0.06			0.06	
Turnip, leaves (including rutabaga)	○ 0.05			0.05	
Horseradish	○ 0.06			0.06	
Watercress	○ 0.05			0.05	
Chinese cabbage	● 0.05	1		0.05	
Cabbage	○ 0.05			0.05	
Brussels sprouts	○ 0.05			0.05	
Kale	○ 0.05			0.05	
Komatsuna (Japanese mustard spinach)	○ 0.05			0.05	
Kyona	○ 0.05			0.05	
Qing-geng-cai	● 0.05	1		0.05	
Cauliflower	○ 0.05			0.05	
Broccoli	○ 0.05			0.05	
Other cruciferous vegetables	● 0.06	1		0.06	
Burdock	● 0.06	1		0.06	
Salsify	● 0.06	1		0.06	
Artichoke	1	1			0.90(*) USA
Chicory	● 0.05	1		0.05	
Endive	● 0.05	1		0.05	
Shungiku	● 0.05	1		0.05	
Lettuce (including cos lettuce and leaf lettuce)	9	9		0.05	9.0(*) USA
Other composite vegetables	1	1	§	0.06	
Onion	● 0.06	1		0.06	
Welsh (including leek)	● 0.6	1	§	0.06	
Garlic	● 0.06	1	§	0.06	
Nira	● 0.06	1		0.06	
Asparagus	● 0.5	1	§		
Multiplying onion (including shallot)	● 0.5	1	§	0.06	
Other liliaceous vegetables	● 0.3	1	§	0.06	
Carrot	1	1		0.06	
Parsnip	● 0.06	1		0.06	
Parsley	9	9			9.0(*) USA
Mitsuba	● 0.05	1		0.05	
Other umbelliferous vegetables	● 0.06	1		0.06	
Tomato	2	2	§	0.3	
Pimiento (sweet pepper)	○ 3	1	§	3	
Egg plant	● 0.3	1	§		
Other solanaceous vegetables	○ 3	1	§	3	
Cucumber (including gherkin)	● 0.5	1	§	0.2	

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Pumpkin (including squash)	● 0.2	1	§	0.2	
Oriental pickling melon (vegetable)	● 0.2	1		0.2	
Water melon	/	1	§		
Water melon (whole commodity after removal of stems)	0.2	/	§	0.2	
Melons	/	1	§		
Melons (whole commodity after removal of stems)	0.2	/	§	0.2	
Makuwauri melon	/	1			
Makuwauri melon (whole commodity after removal of stems)	0.2	/		0.2	
Other cucurbitaceous vegetables	● 0.2	1		0.2	
Spinach	● 0.05	1		0.05	
Bamboo shoots	●	1			
Okra	○ 3	1		3	
Peas, immature (with pods)	1	1	§		
Kidney beans, immature (with pods)	1	1		0.8	1.0(*) USA
Green soybeans	1	1			
Other vegetables	1	1	§	0.8	
Apple	○ 0.6	0.5	§	0.6	
Japanese pear	● 0.6	0.7	§	0.6	
Pear	● 0.6	0.7	§	0.6	
Quince	○ 0.6	0.5		0.6	
Loquat	/	1			
Loquat (whole commodity after removal of stems)	0.6	/		0.6	
Peach	/	1	§		
Peach (whole commodity after removal of stems and stones but the residue calculated and expressed on the whole commodity without stems)	3	/	§	3	
Nectarine	○ 3	2		3	
Apricot	○ 3	2		3	
Japanese plum (including prune)	○ 2	0.5		2	
Mume plum	○ 3	2		3	
Cherry	○ 3	2	§	3	
Strawberry	● 0.8	1	§	0.8	
Raspberry	○ 2	1	IT		2.0(*) USA
Blackberry	○ 2	1	IT		2.0(*) USA
Blueberry	●	1			
Cranberry	●	1			
Huckleberry	●	1			
Other berries	○ 2	0.5	IT	0.9	2.0(*) USA
Grape	● 0.9	1		0.9	
Japanese persimmon	● 0.6	1	§	0.6	
Banana	2	2			
Kiwifruit	●	1			
Papaya	○ 3	1	IT		3.0(*) USA
Avocado	●	1			
Pineapple	●	1			
Guava	●	1			
Mango	1	1			
Passion fruit	●	1			
Date	●	1			
Other fruits	○ 2	1	§	2	
Cotton seeds	0.02	0.02			0.02(*) USA
Almond	0.02	0.02	IT		0.1(*) USA

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Tea	20	20	§		
Hop	10	10		5	10(*) USA
Other spices	○ 0.06			0.06	
Other herbs	○ 5	1	Request	3	
Cattle, muscle	● 0.01	0.03		0.01	
Pig, muscle	● 0.01	0.03		0.01	
Other terrestrial mammals, muscle	● 0.01	0.03		0.01	
Cattle, fat	● 0.01	0.02		0.01	
Pig, fat	● 0.01	0.02		0.01	
Other terrestrial mammals, fat	● 0.01	0.02		0.01	
Cattle, liver	● 0.01	0.4		0.01	
Pig, liver	● 0.01	0.4		0.01	
Other terrestrial mammals, liver	● 0.01	0.4		0.01	
Cattle, kidney	● 0.01	0.07		0.01	
Pig, kidney	● 0.01	0.07		0.01	
Other terrestrial mammals, kidney	● 0.01	0.07		0.01	
Cattle, edible offal	● 0.01	0.4		0.01	
Pig, edible offal	● 0.01	0.4		0.01	
Other terrestrial mammals, edible offal	● 0.01	0.4		0.01	
Milk	● 0.01	0.09		0.01	
Chicken, muscle	0.01	0.01		0.01	
Other poultry, muscle	0.01	0.01		0.01	
Chicken, fat	0.01	0.01		0.01	
Other poultry, fat	0.01	0.01		0.01	
Chicken, liver	0.01	0.01		0.01	
Other poultry, liver	0.01	0.01		0.01	
Chicken, kidney	0.01	0.01		0.01	
Other poultry, kidney	0.01	0.01		0.01	
Chicken, edible offal	0.01	0.01		0.01	
Other poultry, edible offal	0.01	0.01		0.01	
Chicken eggs	0.01	0.01		0.01	
Other poultry, eggs	0.01	0.01		0.01	
Pepper, dried※1				20	
Raisin	6			6	

The residue definition is myclobutanil only.

\* The uniform limit 0.01 ppm will be applied to commodities for which draft MRLs are not given in this table and to commodities not listed above.

\* Shaded figures indicate provisional MRLs.

\* Diagonal line means a food category to which MRL applies is not set.

\* In the Commodity column, for the food categories to which the word other is added, refer to the Notes given in the last two pages of the Attachment.

● : Commodities for which MRLs are to be lowered.

○ : Commodities for which MRLs are to be increased.

§ : Permitted for use in Japan.

Request: Request for setting/revising MRL was made by the MAFF.

IT: Import tolerance application

(\*) The residue definition is sum of myclobutanil,  $\alpha$ -(4-chlorophenyl)- $\alpha$ -(3-hydroxybutyl)-1H-1,2,4-triazole-1-propanenitrile (RH-9090) and its conjugates, expressed as myclobutanil in the USA.

※1 For "Pepper, dried" as food category with MRL set by Codex, MRL of its raw commodity (Other solanaceous vegetables) will apply to the commodity, taking into account of its processing factor. For this substance, JMPR estimates it at 7 for Pepper, dried.

Pymetrozine

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Rice (brown rice)	● 0.05	0.1	§		
Soybeans, dry	●	0.02			
Beans, dry	●	0.02			
Peas	●	0.02			
Broad beans	0.02	0.02			
Other pulses	0.02	0.02			
Potato	● 0.05	0.1	§		
Taro	0.02	0.02			0.02 <sup>1</sup> USA
Sweet potato	0.02	0.02			0.02 <sup>1</sup> USA
Japanese yam (including Chinese yam)	0.02	0.02			0.02 <sup>1</sup> USA
Other potatoes	0.02	0.02			0.02 <sup>1</sup> USA
Watercress	0.6	0.6			0.6 <sup>1</sup> USA
Chinese cabbage	0.5	0.5			0.5 <sup>1</sup> USA
Cabbage	0.02	0.02			
Brussels sprouts	0.02	0.02			
Kale	0.3	0.3			0.25 <sup>1</sup> USA
Komatsuna (Japanese mustard spinach)	0.3	0.3			0.25 <sup>1</sup> USA
Kyona	0.3	0.3			0.25 <sup>1</sup> USA
Qing-geng-cai	0.02	0.02			
Cauliflower	0.02	0.02			
Broccoli	0.02	0.02			
Other cruciferous vegetables	0.02	0.02			
Chicory	0.6	0.6			
Endive	0.6	0.6			0.6 <sup>1</sup> USA
Shungiku	0.6	0.6			0.6 <sup>1</sup> USA
Lettuce (including cos lettuce and leaf lettuce)	0.1	0.1			
Other composite vegetables	0.6	0.6			0.6 <sup>1</sup> USA
Asparagus	0.04	0.04			0.04 <sup>1</sup> USA
Parsley	0.6	0.6			0.6 <sup>1</sup> USA
Celery	0.6	0.6			0.6 <sup>1</sup> USA
Other umbelliferous vegetables	0.6	0.6			0.6 <sup>1</sup> USA
Tomato	1	1	§		
Pimiento (sweet pepper)	2	2	§		
Egg plant	● 0.7	1	§		
Other solanaceous vegetables	● 2	3	§		
Cucumber (including gherkin)	● 0.5	1	§		
Pumpkin (including squash)	0.5	0.5	§		
Oriental pickling melon (vegetable)	● 0.3	0.5	§		
Water melon		0.1	§		
Water melon (whole commodity after removal of stems)	0.05		§		
Melons		0.1	§		
Melons (whole commodity after removal of stems)	0.2		§		
Other cucurbitaceous vegetables	0.5	0.5	§		
Spinach	0.6	0.6			0.6 <sup>1</sup> USA
Okra	0.7	0.7	§		
Ginger	0.02	0.02			0.02 <sup>1</sup> USA
Peas, immature (with pods)	0.02	0.02			
Other vegetables	0.6	0.6			0.6 <sup>1</sup> USA
Apple	0.02	0.02			0.02 <sup>1</sup> EU
Japanese pear	● 0.05	0.1	§		
Pear	● 0.05	0.1	§		

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Peach		0.1	§		
Peach (whole commodity after removal of stems and stones but the residue calculated and expressed on the whole commodity without stems)	0.3		§		
Nectarine	0.05	0.05			0.05 <sup>1</sup> Australia
Apricot	0.05	0.05			0.05 <sup>1</sup> Australia
Japanese plum (including prune)	0.05	0.05			0.05 <sup>1</sup> Australia
Mume plum	● 0.7	2	§		
Cherry	0.05	0.05			0.05 <sup>1</sup> Australia
Strawberry	2	2	§		
Other fruits	0.5	0.5			0.5 <sup>1</sup> EU
Cotton seeds	0.3	0.3			0.3 <sup>1</sup> USA
Pecan	0.02	0.02			0.02 <sup>1</sup> USA
Hop	15	15			15 <sup>1</sup> EU
Other herbs	0.3	0.3	§		0.25 <sup>1</sup> USA
Cattle, muscle	0.01	0.01			0.01 <sup>1</sup> Australia
Pig, muscle	0.01	0.01			0.01 <sup>1</sup> Australia
Other terrestrial mammals, muscle	0.01	0.01			0.01 <sup>1</sup> Australia
Cattle, fat	0.01	0.01			0.01 <sup>1</sup> Australia
Pig, fat	0.01	0.01			0.01 <sup>1</sup> Australia
Other terrestrial mammals, fat	0.01	0.01			0.01 <sup>1</sup> Australia
Cattle, liver	0.01	0.01			0.01 <sup>1</sup> Australia
Pig, liver	0.01	0.01			0.01 <sup>1</sup> Australia
Other terrestrial mammals, liver	0.01	0.01			0.01 <sup>1</sup> Australia
Cattle, kidney	0.01	0.01			0.01 <sup>1</sup> Australia
Pig, kidney	0.01	0.01			0.01 <sup>1</sup> Australia
Other terrestrial mammals, kidney	0.01	0.01			0.01 <sup>1</sup> Australia
Cattle, edible offal	0.01	0.01			0.01 <sup>1</sup> Australia
Pig, edible offal	0.01	0.01			0.01 <sup>1</sup> Australia
Other terrestrial mammals, edible offal	0.01	0.01			0.01 <sup>1</sup> Australia
Milk	0.01	0.01			0.01 <sup>1</sup> Australia

The residue definition is pymetrozine only.

\* The uniform limit 0.01 ppm will be applied to commodities for which draft MRLs are not given in this table and to commodities not listed above.

\* Diagonal line means a food category to which MRL applies is not set.

\* In the Commodity column, for the food categories to which the word other is added, refer to the Notes given in the last two pages of the Attachment.

● : Commodities for which MRLs are to be lowered.

○ : Commodities for which MRLs are to be increased.

§ : Permitted for use in Japan.

## Deltamethrin and Tralomethrin

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Wheat	2	2		2	
Barley	2	2		2	
Rye	2	2		2	
Corn (maize, including pop corn and sweet corn)		0.02			
Corn (maize, including pop corn) (except immature)	2		IT	2	
Corn (sweet corn) (limited to immature)	0.02		IT	0.02	
Buckwheat	2	2		2	
Other cereal grains	2	2		2	
Soybeans, dry	1	1		1	
Beans, dry	1	1		1	
Peas	1	1		1	
Broad beans	1	1		1	
Other pulses	1	1		1	
Potato	0.02	0.02	§	0.01	
Japanese yam (including Chinese yam)	0.02	0.02	§		
Japanese radish, roots (including radish)	0.2	0.2	§	0.01	0.2 <sup>1</sup> USA
Japanese radish, leaves (including radish)	2	2	§	2	
Turnip, roots (including rutabaga)	0.2	0.2			0.2 <sup>1</sup> USA
Turnip, leaves (including rutabaga)	2	2		2	
Horseradish	0.2	0.2			0.2 <sup>1</sup> USA
Watercress	2	2		2	
Chinese cabbage※1	0.5	0.5	§	2	
Cabbage	0.1	0.1	§		
Brussels sprouts	0.1	0.1			
Kale	2	2	§	2	
Komatsuna (Japanese mustard spinach)	2	2	§	2	
Kyona	2	2	§	2	
Qing-geng-cai	2	2	§	2	
Cauliflower	0.1	0.1		0.1	
Broccoli	0.2	0.2	§	0.1	
Other cruciferous vegetables	2	2	§	2	
Burdock	0.2	0.2			0.2 <sup>1</sup> USA
Salsify	0.2	0.2			0.2 <sup>1</sup> USA
Artichoke	0.5	0.5			0.5 <sup>1</sup> USA
Chicory	2	2		2	
Endive	2	2		2	
Shungiku	2	2		2	
Lettuce (including cos lettuce and leaf lettuce)※1	0.5	0.5	§	2	
Other composite vegetables	2	2		2	
Onion	0.05	0.05	§	0.05	
Welsh (including leek)	0.2	0.2		0.2	
Asparagus	0.05	0.05	§		
Carrot	0.2	0.2	§	0.02	0.2 <sup>1</sup> USA
Parsnip	0.2	0.2			0.2 <sup>1</sup> USA
Other umbelliferous vegetables	0.2	0.2			0.2 <sup>1</sup> USA
Tomato	0.3	0.3		0.3	
Pimiento (sweet pepper)	0.3	0.3			0.3 <sup>1</sup> USA
Egg plant	0.3	0.3	§		0.3 <sup>1</sup> USA
Other solanaceous vegetables	2	2		2	
Cucumber (including gherkin)	0.2	0.2	§	0.2	
Pumpkin (including squash)	0.2	0.2		0.2	

Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Oriental pickling melon (vegetable)	0.2	0.2		0.2	
Water melon		0.02	§		
Water melon (whole commodity after removal of stems)	0.2		§	0.2	
Melons		0.03	§		
Melons (whole commodity after removal of stems)	0.2		§	0.2	
Other cucurbitaceous vegetables	2	2		2	
Okra	0.3	0.3			0.3 <sup>1</sup> USA
Ginger	○ 0.5	0.02	§	0.5	
Peas, immature (with pods)	● 0.3	0.5	§	0.2	
Kidney beans, immature (with pods)	0.2	0.2		0.2	
Green soybeans	0.2	0.2		0.2	
Button mushroom	0.05	0.05		0.05	
Other vegetables	2	2	§	2	
Unshu orange, pulp		0.02	§		
Unshu orange (whole commodity)	0.5		§	0.02	
Citrus natsudaikai, whole	0.3	0.3	§	0.02	
Lemon	0.5	0.5	§	0.02	
Orange (including navel orange)	0.5	0.5	§	0.02	
Grapefruit	0.5	0.5	§	0.02	
Lime	0.5	0.5	§	0.02	
Other citrus fruits	0.5	0.5	§	0.02	
Apple	0.3	0.3	§	0.2	
Japanese pear	0.3	0.3	§		
Pear	0.3	0.3	§		
Quince	0.2	0.2			0.2 <sup>1</sup> USA
Loquat		0.02	§		
Loquat (whole commodity after removal of stems)	0.3		§		
Peach		0.02	§		
Peach (whole commodity after removal of stems and stones but the residue calculated and expressed on the whole commodity without stems)	0.5		§	0.05	
Nectarine	0.3	0.3	§	0.05	
Apricot	0.2	0.2	§		
Japanese plum (including prune)	0.07	0.07	§	0.05	0.07 <sup>1</sup> EU
Mume plum	0.5	0.5	§		
Cherry	0.2	0.2	§		
Strawberry	0.2	0.2		0.2	
Raspberry	0.3	0.3	§		
Blackberry	0.1	0.1			0.1 <sup>1</sup> EU
Blueberry	0.3	0.3	§		
Grape	● 0.6	0.7	§	0.2	
Japanese persimmon	0.3	0.3	§		
Kiwifruit		0.03	§		
Kiwifruit (whole commodity)	0.7		§		
Other fruits	1	1	§	1	
Sunflower seeds	0.05	0.05		0.05	
Cotton seeds	0.04	0.04			0.04 <sup>1</sup> USA
Rapeseeds	0.2	0.2		0.2	
Other oil seeds	0.2	0.2			0.2 <sup>1</sup> Canada
Ginkgo nut	0.1	0.1			0.1 <sup>1</sup> USA
Chestnut	0.1	0.1			0.1 <sup>1</sup> USA
Pecan	0.1	0.1			0.1 <sup>1</sup> USA



Commodity	MRL (draft) ppm	MRL (current) ppm	Registration	Reference MRL	
				Codex ppm	National ppm
Almond	0.1	0.1			0.1 USA
Walnut	0.1	0.1		0.02	0.1 USA
Other nuts	0.1	0.1		0.02	0.1 USA
Tea	5	5	§	5	
Other spices	2	2	§	0.5	
Other herbs	0.5	0.5	§		
Cattle, muscle	0.5	0.5		0.5	
Pig, muscle	0.5	0.5		0.5	
Other terrestrial mammals, muscle	0.5	0.5		0.5	
Cattle, fat	0.5	0.5		0.5	
Pig, fat	0.5	0.5		0.5	
Other terrestrial mammals, fat	0.5	0.5		0.5	
Cattle, liver	0.05	0.05		0.05	
Pig, liver	0.03	0.03		0.03	
Other terrestrial mammals, liver	0.05	0.05		0.05	
Cattle, kidney	0.05	0.05		0.05	
Pig, kidney	0.03	0.03		0.03	
Other terrestrial mammals, kidney	0.05	0.05		0.05	
Cattle, edible offal	0.05	0.05			
Pig, edible offal	0.03	0.03			
Other terrestrial mammals, edible offal	0.05	0.05			
Milk	0.05	0.05		0.05	
Chicken, muscle	0.1	0.1		0.1	
Other poultry, muscle	0.1	0.1		0.1	
Chicken, fat	0.5	0.5		0.5	
Other poultry, fat	0.5	0.5		0.1	
Chicken, liver	0.05	0.05		0.05	
Other poultry, liver	0.05	0.05		0.02	
Chicken, kidney	0.05	0.05		0.05	
Other poultry, kidney	0.05	0.05		0.02	
Chicken, edible offal	0.05	0.05		0.02	
Other poultry, edible offal	0.05	0.05		0.02	
Chicken eggs	0.03	0.03		0.03	
Other poultry, eggs	0.03	0.03		0.02	
Salmoniformes (such as salmon and trout)	0.03	0.03		0.03	
Wheat flour (limited to whole grain)	2	2		2	
Wheat flour (except whole grain)※2				0.3	
Wheat bran※2				5	

The residue definition is the sum of deltamethrin (including deltamethlin converted from tralomethrin), totalomethrin, metabolite CR [(*R*)- $\alpha$ -cyano-3-phenoxybenzyl-(1*R*,3*R*)-3-(dibromovinyl)-2,2-dimethylcyclopropanecarboxylate] and metabolite CT [(*S*)- $\alpha$ -cyano-3-phenoxybenzyl-(1*S*,3*S*)-3-(dibromovinyl)-2,2-dimethylcyclopropanecarboxylate], expressed as deltamethrin.

\* The uniform limit 0.01 ppm will be applied to commodities for which draft MRLs are not given in this table and to commodities not listed above.

\* Diagonal line means a food category to which MRL applies is not set.

\* In the Commodity column, for the food categories to which the word other is added, refer to the Notes given in the last two pages of the Attachment.

● : Commodities for which MRLs are to be lowered.

○ : Commodities for which MRLs are to be increased.

§ : Permitted for use in Japan.

IT : Import tolerance application

※1 Although Codex has set MRLs, the draft MRLs are set based on the residue data from the domestic supervised residue trials because the dietary exposure assessment would be beyond the tolerance level when Codex MRLs are set.

※2 For “Wheat flour (except whole grain)” and “Wheat bran” as food categories, the MRL in its raw commodity (Wheat) will apply to both processed foods, taking into account of their processing factors. JMPR estimates them at 0.31 for Wheat flour (except whole grain) and 3.3 for Wheat bran, respectively.

## Notes:

“Other cereal grains” refers to all cereal grains, except rice (brown rice), wheat, barley, rye, corn (maize), and buckwheat.

“Beans, dry” includes butter beans, cowbeans (red beans), lentil, lima beans, pegia, sultani, sultapya and white beans.

“Other legumes/pulses” refers to all legumes/pulses, except soybeans (dry), beans (dry), peas, broad beans, peanuts (dry), and spices.

“Other potatoes” refers to all potatoes, except potato, taro, sweet potato, yam, and konjac.

“Other cruciferous vegetables” refers to all cruciferous vegetables, except Japanese radish roots and leaves (including radish), turnip roots and leaves, horseradish, watercress, Chinese cabbage, cabbage, brussels sprouts, kale, *komatsuna* (Japanese mustard spinach), *kyona*, qing-geng-cai, cauliflower, broccoli, and herbs.

“Other composite vegetables” refers to all composite vegetables, except burdock, salsify, artichoke, chicory, endive, *shungiku*, lettuce (including cos lettuce and leaf lettuce), and herbs.

“Other liliaceous vegetables” refers to all liliaceous vegetables, except onion, welsh (including leek), garlic, *nira*, asparagus, multiplying onion, and herbs.

“Other umbelliferous vegetables” refers to all umbelliferous vegetables, except carrot, parsnip, parsley, celery, *mitsuba*, spices, and herbs.

“Other solanaceous vegetables” refers to all solanaceous vegetables, except tomato, pimienta (sweet pepper), and egg plant.

“Other cucurbitaceous vegetables” refers to all cucurbitaceous vegetables, except cucumber (including gherkin), pumpkin (including squash), oriental pickling melon (vegetable), watermelon, melons, and *makuwauri* melon.

“Other mushrooms” refers to all mushrooms, except button mushroom, and *shiitake* mushroom.

“Other vegetables” refers to all vegetables, except potatoes, sugar beet, sugarcane, cruciferous vegetables, composite vegetables, liliaceous vegetables, umbelliferous vegetables, solanaceous vegetables, cucurbitaceous vegetables, spinach, bamboo shoots, okra, ginger, peas (with pods, immature), kidney beans (with pods, immature), green soybeans, mushrooms, spices, and herbs.

“Other citrus fruits” refers to all citrus fruits, except *unshu* orange (pulp), citrus *natsudaidai* (pulp), citrus *natsudaidai* (peel), citrus *natsudaidai* (whole), lemon, orange (including navel orange), grapefruit, lime, and spices.

“Other berries” refers to all berries, except strawberry, raspberry, blackberry, blueberry, cranberry, and huckleberry.

“Other fruits” refers to all fruits, except citrus fruits, apple, Japanese pear, pear, quince, loquat, peach, nectarine, apricot, Japanese plum (including prune), mume plum, cherry, berries, grape, Japanese persimmon, banana, kiwifruit, papaya, avocado, pineapple, guava, mango, passion fruit, date and spices.

“Other oil seeds” refers to all oil seeds, except sunflower seeds, sesame seeds, safflower seeds, cotton seeds, rapeseeds and spices.

“Other nuts” refers to all nuts, except ginkgo nut, chestnut, pecan, almond and walnut.

“Other spices” refers to all spices, except horseradish, *wasabi* (Japanese horseradish) rhizomes, garlic, peppers chili, paprika, ginger, lemon peels, orange peels (including navel orange), *yuzu* (Chinese citron) peels and sesame seeds.

“Other spices (limited to roots and rhizome)” includes asafoetida roots, turmeric root, galangal rhizome and licorice root.

“Other herbs” refers to all herbs, except watercress, *nira*, parsley stems and leaves, celery stems and leaves.

“Edible offal” refers to all edible parts, except muscle, fat, liver, and kidney.

“Other terrestrial mammals” refers to all terrestrial mammals, except cattle and pig.

“Other poultry” refers to all poultry, except chicken.

“Other fish” refers to all fish, except salmoniformes, anguilliformes, and perciformes.

“Other aquatic animals” refers to all aquatic animal, except fish, shelled molluscs and crustaceans.