

## 2,4-D

Commodity	MRL (renewed) ppm	MRL (previous) ppm
Rice (brown rice)	0.1	0.1
Wheat	○ 2	0.5
Barley	○ 2	0.5
Rye	○ 2	0.5
Corn (maize, including pop corn and sweet corn)	0.05	0.05
Buckwheat	●	0.2
Other cereal grains <sup>1</sup>	○ 2	0.5
Soybeans, dry	● 0.01	0.05
Beans, dry <sup>2</sup>	●	0.05
Peas	●	0.05
Broad beans	●	0.05
Peanuts, dry	●	0.05
Other pulses <sup>3</sup>	●	0.05
Potato	○ 0.4	0.2
Taro	●	0.05
Sweet potato	●	0.05
Japanese yam (including Chinese yam)	●	0.05
Konjac	●	0.05
Other potatoes <sup>4</sup>	●	0.05
Sugar beet	●	0.08
Sugarcane	○ 0.1	0.05
Japanese radish, roots (including radish)	●	0.08
Japanese radish, leaves (including radish)	●	0.05
Turnip, roots (including rutabaga)	●	0.08
Turnip, leaves (including rutabaga)	●	0.05
Horseradish	●	0.08
Watercress	●	0.08
Chinese cabbage	●	0.08
Cabbage	●	0.08
Brussels sprouts	●	0.08
Kale	●	0.08
Komatsuna (Japanese mustard spinach)	●	0.08
Kyona	●	0.08
Qing-geng-cai	●	0.08
Cauliflower	●	0.08
Broccoli	●	0.08
Other cruciferous vegetables <sup>5</sup>	●	0.08
Burdock	●	0.08
Salsify	●	0.08

Commodity	MRL (renewed) ppm	MRL (previous) ppm
Artichoke	●	0.05
Chicory	●	0.08
Endive	●	0.08
Shungiku	●	0.08
Lettuce (including cos lettuce and leaf lettuce)	●	0.08
Other composite vegetables <sup>6</sup>	●	0.08
Onion	●	0.05
Welsh (including leek)	●	0.05
Garlic	●	0.05
Nira	●	0.05
Asparagus	5	5
Multiplying onion (including shallot)	●	0.05
Other liliaceous vegetables <sup>7</sup>	●	0.05
Carrot	●	0.08
Parsnip	●	0.08
Parsley	●	0.08
Celery	●	0.08
Mitsuba	●	0.05
Other umbelliferous vegetables <sup>8</sup>	●	0.08
Tomato	●	0.2
Pimiento (sweet pepper)	●	0.08
Egg plant	●	0.08
Other solanaceous vegetables <sup>9</sup>	●	0.08
Cucumber (including gherkin)	●	0.08
Pumpkin (including squash)	●	0.08
Oriental pickling melon (vegetable)	●	0.08
Water melon	●	0.08
Melons	●	0.08
Makuwauri melon	●	0.08
Other cucurbitaceous vegetables <sup>10</sup>	●	0.08
Spinach	●	0.08
Bamboo shoots	●	0.05
Okra	●	0.05
Ginger	●	0.05
Peas, immature (with pods)	●	0.05
Kidney beans, immature (with pods)	●	0.05
Green soybeans	●	0.05
Button mushroom	●	0.05
Shiitake mushroom	●	0.05
Other mushrooms <sup>11</sup>	●	0.05
Other vegetables <sup>12</sup>	●	0.07

Commodity	MRL (renewed) ppm	MRL (previous) ppm
Unshu orange, pulp		0.01
Unshu orange (whole commodity)	3	
Citrus natsudaidai, whole	○ 3	2
Lemon	○ 3	2
Orange (including navel orange)	○ 3	2
Grapefruit	○ 3	2
Lime	○ 3	2
Other citrus fruits <sup>13</sup>	○ 3	2
Apple	○ 0.05	0.01
Japanese pear	○ 0.05	0.01
Pear	○ 0.05	0.01
Quince	○ 0.05	0.01
Loquat		0.01
Loquat (whole commodity after removal of stems)	0.05	
Peach		0.2
Peach (whole commodity after removal of stems and stones but the residue calculated and expressed on the whole commodity without stems)	0.05	
Nectarine	● 0.05	0.2
Apricot	● 0.05	5
Japanese plum (including prune)	● 0.05	0.2
Mume plum	● 0.05	0.2
Cherry	● 0.05	0.2
Strawberry	○ 0.1	0.05
Raspberry	○ 0.2	0.1
Blackberry	○ 0.2	0.1
Blueberry	○ 0.2	0.1
Cranberry		0.5
Huckleberry	○ 0.2	0.1
Other berries <sup>14</sup>	○ 0.2	0.1
Grape	● 0.1	0.5
Japanese persimmon	● 0.01	0.05
Banana	●	0.05
Kiwifruit	●	0.05
Papaya	●	0.05
Avocado	●	0.08
Pineapple	●	0.05
Guava	●	0.05
Mango	●	0.05
Passion fruit	●	0.05
Date	●	0.05
Other fruits <sup>15</sup>	● 0.1	0.2
Sunflower seeds	●	0.05

Commodity	MRL (renewed) ppm	MRL (previous) ppm
Sesame seeds	0.05	0.05
Safflower seeds	●	0.05
Cotton seeds	○ 0.08	0.05
Rapeseeds	●	0.05
Other oil seeds <sup>16</sup>	●	0.05
Ginkgo nut	0.2	0.2
Chestnut	0.2	0.2
Pecan	0.2	0.2
Almond	0.2	0.2
Walnut	0.2	0.2
Other nuts <sup>17</sup>	0.2	0.2
Hop	○ 0.2	0.08
Other spices <sup>18</sup>	● 1	2
Other herbs <sup>19</sup>	●	0.08
Cattle, muscle	0.2	0.2
Pig, muscle	0.2	0.2
Other terrestrial mammals <sup>20</sup> , muscle	0.2	0.2
Cattle, fat	○ 0.4	0.2
Pig, fat	○ 0.4	0.1
Other terrestrial mammals, fat	○ 0.4	0.2
Cattle, liver	5	5
Pig, liver	5	5
Other terrestrial mammals, liver	5	5
Cattle, kidney	5	5
Pig, kidney	5	5
Other terrestrial mammals, kidney	5	5
Cattle, edible offal <sup>21</sup>	5	5
Pig, edible offal	5	5
Other terrestrial mammals, edible offal	5	5
Milk	○ 0.03	0.01
Chicken, muscle	0.05	0.05
Other poultry <sup>22</sup> , muscle	0.05	0.05
Chicken, fat	0.05	0.05
Other poultry, fat	0.05	0.05
Chicken, liver	○ 0.7	0.05
Other poultry, liver	○ 0.7	0.05
Chicken, kidney	○ 0.7	0.05
Other poultry, kidney	○ 0.7	0.05
Chicken, edible offal	○ 0.7	0.05
Other poultry, edible offal	○ 0.7	0.05
Chicken eggs	0.01	0.01

Commodity	MRL (renewed) ppm	MRL (previous) ppm
Other poultry, eggs	0.01	0.01
Salmoniformes (such as salmon and trout)	●	1
Anguilliformes (such as eel)	●	1
Perciformes (such as bonito, horse mackerel, mackerel, sea bass, sea bream and tuna)	●	1
Other fish <sup>23</sup>	●	1
Shelled molluscs	●	1
Crustaceans	●	1
Other aquatic animals <sup>24</sup>	●	1
Mineral waters <sup>†</sup>	0.03	0.03

● : Commodities for which MRLs are lowered. These MRLs are to be taken effect on 17 December 2022.

○ : Commodities for which MRLs are raised. These MRLs have been taken effect on 17 December 2021.

Note: The residue definition is the sum of 2,4-D and its salts and esters, expressed as 2,4-D.

\* The uniform limit 0.01 ppm is applied to commodities not listed above.

\* Shaded figures indicate provisional MRLs.

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

\* Regarding the MRLs in food categories, "Unshu orange, pulp", "Loquat" and "Peach" are deleted, whereas new MRLs are established in foods categorized as "Unshu orange (whole commodity)", "Loquat (whole commodity after removal of stems)" and "Peach (whole commodity after removal of stems and stones but the residue calculated and expressed on the whole commodity without stems)", respectively. (These MRLs are to be taken effect on 17 December 2022.)

† MRL for mineral water is based on the WHO Guideline Value for drinking-water. (A guideline value normally represents the concentration of a constituent that does not result in any significant risk to health over a lifetime of consumption.)

1. "Other cereal grains" refers to all cereal grains, except rice (brown rice), wheat, barley, rye, corn (maize) and buckwheat.
2. "Beans, dry" includes butter beans, cowbeans (red beans), lentil, kidney beans, lima beans, pegia, sultani, sultapya and white beans.
3. "Other pulses" refers to all legumes/pulses, except soybeans (dry), beans (dry), peas, broad beans, peanuts (dry) and spices.
4. "Other potatoes" refers to all potatoes, except potato, taro, sweet potato, yam and konjac.
5. "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.
6. "Other composite vegetables" refers to all composite vegetables, except burdock, salsify, artichoke, chicory, endive, shungiku, lettuce (including cos lettuce and leaf lettuce) and herbs.

7. "Other liliaceous vegetables" refers to all liliaceous vegetables, except onion, welsh (including leek), garlic, nira, asparagus, multiplying onion and herbs.
8. "Other umbelliferous vegetables" refers to all umbelliferous vegetables, except carrot, parsnip, parsley, celery, mitsuba, spices and herbs.
9. "Other solanaceous vegetables" refers to all solanaceous vegetables, except tomato, pimienta (sweet pepper) and egg plant.
10. "Other cucurbitaceous vegetables" refers to all cucurbitaceous vegetables, except cucumber (including gherkin), pumpkin (including squash), oriental pickling melon (vegetable), watermelon, melons and makuwauri melon.
11. "Other mushrooms" refers to all mushrooms, except button mushroom and shiitake mushroom.
12. "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.
13. "Other citrus fruits" refers to all citrus fruits, except unshu orange, citrus natsudaidai, lemon, orange (including navel orange), grapefruit, lime and spices.
14. "Other berries" refers to all berries, except strawberry, raspberry, blackberry, blueberry, cranberry and huckleberry.
15. "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.
16. "Other oil seeds" refers to all oil seeds, except sunflower seeds, sesame seeds, safflower seeds, cotton seeds, rapeseeds and spices.
17. "Other nuts" refers to all nuts, except ginkgo nut, chestnut, pecan, almond and walnut.
18. "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.
19. "Other herbs" refers to all herbs, except watercress, nira, parsley stems and leaves, celery stems and leaves.
20. "Other terrestrial mammals" refers to all terrestrial mammals, except cattle and pig.
21. "Edible offal" refers to all edible parts, except muscle, fat, liver and kidney.
22. "Other poultry" refers to all poultry, except chicken.
23. "Other fish" refers to all fish, except Salmoniformes, Anguilliformes and Perciformes.
24. "Other aquatic animals" refers to all aquatic animals, except fish, shelled molluscs and crustaceans.