

Maximum Residue Limits (MRLs) in part-per-million (ppm) For Citrus - By Country

Because MRLs change frequently, no guarantee is made concerning the accuracy of the below values. Verify these values with other knowledgeable sources within specific markets of interest.

Materials EXEMPT from US tolerances or only labeled for application to NONBEARING trees are NOT included. Proposed values are not in effect and may never be adopted, but are listed to notify of potential upcoming changes.

"Expiring", "expired" or "non-renewed" pesticides relate to citrus registration in the respective country. Proposed MRL changes (likely elimination) may follow eventually.

Abbreviations: G = grapefruit, O = sweet orange, T = tangerine (mandarin), L = lemon

Visit <http://irrec.ifas.ufl.edu/postharvest/> for more details & updates

Highlighted Cells = Recent Changes

Chemical Name	Brand or Trade Names (Examples only, not inclusive)	U.S. Citrus	Canada Citrus	CODEX Citrus	EU (G & O only)	Japan (G & O only)	Taiwan (G & O only)	Korea (G & O only)
2,4-D (2,4-Dichlorophenoxyacetic acid)	Citrus Fix, Hiviol	3	2	1	1	2 (1 proposed)	2	0.15
Abamectin	Agri-Mek, Clinch, Zephyr, ABBA, Epi-mek, Reaper	0.02	0.02	0.02	0.04	0.01 (0.1 proposed)	0.01	0.02
Acequinocyl	Kanemite	0.35	0.35		0.2 (G); 0.4 (O)	2	0.2	1
Acetamidopropyl	Assail	1	0.5	1	0.9	2	0.5	0.5
Acibenzolar-S-methyl	Actigard	0.02	0.1	0.015	0.01	0.01 (0.02 proposed)	0.01	0.2
Afidopropen		0.015	0.15		0.01	0.01 (0.2 proposed)		0.01
Alpha-cypermethrin		0.35	0.1	0.5 (G), 0.3 (O, T, L)	2	2	2	2
Azoxystrobin	Abound, Graduate A+	15	15	15	15	10	10	10
Beta-cyfluthrin	Baythroid XL	0.2	0.1	0.3	0.02	2	0.3	2
Bifenthrin	Brigade, Capture, Telstar, Fanfare	0.05	0.1	0.05	0.05 (expiring 7/31/21)	2	0.5	0.5
Boscalid	A component of Pristine	2	3	2	2	10	5	2
Bromacil	Bromo, Hyvar	0.1	0.1		0.01	0.1	0.5	0.1
Buprofezin	Applaud, Centaur	2.5	0.1 (G, L), 4 (O, T)	1	0.01	3 (G), 2 (O)	0.5	0.5 (G), 2.5 (O)
Carbaryl	Sevin	10	10	15	0.01	7 (proposed elimination for G & O)	1	0.5 (G), 7 (O)
Carbon disulfide		0.1 (G, O, L)	0.1	2 (O)	5	0.01	2	5 (G), 2 (O)
Carfentrazon-ethyl	Aim	0.1	0.1		0.01	0.1	0.1	0.1
Chlorantraniliprole	Altacor, part of VoliamFlexi	1.4	0.7	0.7	0.7	0.7	0.5	0.6
Chlordane		0.1	0.1	0.02	0.01	0.02	0.01	0.02
Chlorpyrifos	Lorsban, Nufos	1	1	1	1.5 (expiring 1/30/20; proposed 0.01)	1	1	1
Clothianidin	Belay	0.07	0.1	0.07	0.06 (expired 1/31/19)	2	1	1
Cryolite	Kryocide	7	0.1		0.01	0.01	7	0.01
Cyantraniliprole	Minecto Pro	0.7	0.7	0.7	0.9	0.7		0.7
Cyflumetofen		0.3	0.3	0.3	0.3	10	1	0.3
Cyfluthrin	Baythroid	0.2	0.1	0.3	0.02	2	0.3	2
Cyprodinil		0.6 (L)	0.6 (L)		0.02	3	3	1
Deltamethrin		0.3 (O)	0.1	0.02	0.04	0.5	0.05	0.01
Dieldrin		0.02	0.1	0.05	0.01	0.05	0.01	0.05
Difenoconazole	A component of Quadris Top	0.6	0.8	0.6	0.6	0.6	0.6	0.6
Diflubenzuron	Micromite	3	0.1	0.5	0.01	3	1	3
Dimethoate	Dimethoate, Cygon	2	1.5	5	0.01	2	2	2
Diquat dibromide		0.05	0.1	0.02	0.02	0.04 (G), 0.03 (O)		0.02
Diuron	Diuron, Direx, Karmex	0.05, 0.5 (L)	1		0.01	0.8 (G), 0.05 (O)	0.05 (G), 0.2 (O)	1
EPTC (S-Ethyl dipropylthiocarbamate)	Eptam	0.1	0.1		0.01	0.1		0.01
Etofenprox		5	0.1		1 (1.5 proposed)	5	0.01	5
Etoxazole		0.1 (O, T)	0.1	0.1 (O, T)	0.1 (O)	0.7 (O)	0.7 (O)	0.01 (O)
Fenazaquin	Magister SC	0.5 (O, T, L)	0.1		0.5	0.01	0.5	2
Fenbuconazole	Enable	1	1	0.5 (G, O, T), 1 (L)	1 (0.7 G; 0.9 O proposed; possibly expiring 4/30/21)	1	0.01	0.5
Fenbutatin Oxide	Vendex	20	2	5	0.01	5	2	5
Fenpropathrin	Danitol	2	2	2	2 (0.01 proposed)	5	0.5	2
Fenpyroximate	Portal	1	0.5	0.6	0.5	1	0.5	0.5 (0.7 proposed)
Ferbam	Ferbam	4	0.1	10 (T), 2 (O)	0.01	2	2	5 (G), 2 (O)
Flazasulfuron		0.01	0.1		0.01	0.1	0.2	0.01
Flonicamid		1.5	1.5		0.15	3 (2 proposed)	0.01	1
Fluazifop-P-butyl	Fusilade	0.03	0.03	0.01	0.01	0.05	0.01	0.01
Fludioxonil	Graduate, Graduate A+	10	10	10	10	10	5 (7 proposed)	10
Flufenoxuron		0.3 (O)	1 (O)	0.4 (O)	0.3 (0.01 proposed)	2 (O)	0.01 (O)	1 (O)
Flumioxazin	Chateau	0.02	0.01		0.02	0.1		0.01
Fluopyram		1	1	0.4 (G), 0.6 (O, T), 1 (L)	0.4	1	0.01	1
Flupyradifurone	Sivanto	3	3	0.7 (G), 4 (O), 1.5 (T, L)	0.01	3	1	3
Fluxapyroxad		1	1	0.3 (O)	0.3	0.01 (1 proposed)	0.01	1
Formetanate Hydrochloride		1.5 (G, O), 0.03 (T), 0.6 (L)	0.4 (G), 0.9 (O), 0.03 (T), 0.09 (L)		0.01	2	1.5	0.01
Fosetyl-aluminum	Aliette	9	9	50 (O)	75	150	10	0.05
Glufosinate-ammonium		0.15	0.1	0.05	0.05 (expired 7/31/18)	0.2	0.1	0.05

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Glyphosate	Roundup, Durango, Touchdown, & others	0.5	0.1		0.1 (G) 0.5 (O)	0.5	0.1	0.5
Heptachlor		0.05	0.1	0.01	0.01	0.01	0.01	0.01
Hexachlorobenzene		0.05	0.1		0.01	0.01		0.01
Hexythiazox	Savey	0.6	0.5	0.5	1	1	1	0.5 (0.6 proposed)
Hydrogen cyanide		50	0.1		0.01	50		5
Imazail	DECCOZIL EC-289, Freshgard 700, Fungaflor 500EC	10	5	5	5 (4 proposed)	5	5	5
Imidacloprid	Admire, Alias, Provado, Couraze, Nuprid, Pasada, Widow	0.7	1 (proposed phase out)	1	1	0.7	1	0.7
Indaziflam	Alion	0.01	0.01		0.01	0.01		0.01
Kaolin	Surround	exempt						
Lindane		0.5	0.1		0.01	0.3	0.01	0.01
Malathion	Malathion, Atrapa, Fyfanon	8	0.1	7	2 (non-renewed 10/9/19)	7	2	0.5 (4.0 proposed for O)
Mesotrione		0.01	0.1		0.01	0.01		0.01
Metaflumizone		0.04	0.1		0.05	0.01	0.01	1
Metalaxyl-M, Mefenoxam	Ridomil Gold, Subdue, UltraFlourish	1	5	5	0.7	0.7	0.5	0.01
Metaldehyde	OR-Cal Slug & Snail Bait	0.26	0.1		0.05	0.7		0.05
Methomyl		2	1	1	0.01 (expired 8/31/19)	10	1	1
Methoxyfenozide	Intrepid 2F	3	10	2	2	3	2	3
Methyl bromide		30	0.1	30	30	30		30
NAA (1-naphthaleneacetic acid)	Fruit Fix	0.1 (O & T)	(0.1 default)		0.06	5 (O)	exempt	
Naled	Dibrom	3	3		0.01	0.2		0.01
Norflurazon	Solicam	0.2	0.1		0.01	0.2	0.2	0.1
Omethoate		2	1.5		0.01	1	0.2	0.01
Oryzalin	Oryzalin, Surfian	0.05	0.1		0.01 (possibly expiring 5/31/21)	0.08		0.05
Oxamyl	Vydate	3	0.1	5	0.01	5	0.5 (G), 1 (O)	5
Oxathiapiprolin		0.06	0.1		0.01	0.01		0.05
Oxydemeton-methyl		1 (G, O, L)	0.1	0.2 (L)	0.01	0.5	0.01	0.01
Oxytetracycline (sect. 18)		0.4	0.1		0.01	0.2		0.01
Paraquat Dichloride	Paraquat, Gramoxone, Boa	0.05	0.1	0.02	0.02	0.05	0.2	0.05
Pendimethalin	Prowl, Pendimax	0.1	0.1	0.03	0.05	0.05	0.01	0.05
Phosmet	Imidan	5	0.1	3	0.5	5	1	3
Phosphine		0.01	0.01		0.01	0.01		0.01
Piperonyl Butoxide	Evergreen EC	8 (O)	8 (O)	5				
Propargite	Comite, Omite	5 (G, L), 10 (O)	5	3	0.01 (G), 4 (O) (non-renewed 11/28/19)	3	5	5
Propiconazole	Banner, Bumper, Tilt, Orbit, PropiMax	8	8	9 (O)	5 (G) 9 (O)	8	4	8
Pyraclostrobin	Headline	2	2	2	1 (G) 2 (O)	2	1	2
Pyrethrins	Pyrellin (+ Rotenone), Evergreen (+ Piperonyl Butoxide)	1 (O)	1 (O)	0.05 (O)	1 (O)	1 (O)	0.05 (O)	1
Pyridaben	Nexter	0.9	0.9		0.3	1	2	0.01
Pyriproxyfen	Distance, Esteem, Knack	0.5	0.5	0.5	0.6	0.5	0.3 (G), 0.5 (O)	0.7
Rimsulfuron	Matrix	0.01	0.1		0.01	0.01		0.01
Saflufenacil	Treevix, Kixor	0.03	0.03	0.01	0.03	0.03	0.03	0.03
Sethoxydim	Poast Plus	0.5	0.1		0.1	1 (0.5 proposed)	0.01	1
Simazine	Simazine, Princep, Sim-Trol	0.25 (G, O, L)	0.1		0.01	0.2	0.01	0.25
SOPP (2 Phenylphenol, O-phenylphenol, OPP)	DECCOSOL 125, FreshGard 5	10	10	10	10	10	10	10
Spinetoram	Delegate	0.3	0.3	0.07 (O)	0.2	0.7	0.2	0.05
Spinosad	Entrust, Naturalyte, Justice, Spintor	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Spirodiclofen	Envidor	0.5	0.5	0.4	0.5 (expiring 7/31/20)	2	0.5	0.4
Spirotetramat	Movento	0.6	0.6	0.5	1	1 (3 proposed)	0.5	0.5
Streptomycin	FireWall	2	0.1		0.01	0.02		0.01
Sulfentrazone		0.15	0.1		0.01	0.05		
Sulfoxaflor	Closer	0.7	0.7	0.15 (G) 0.8 (O, T) 0.4 (L)	0.15 (G) 0.8 (O)	2	0.7	0.3 (G), 0.7 (O)
Tebuconazole		1 (O)	1 (O)		0.9 (O)	5 (O)	0.01 (O)	0.01
Tebufenozide		2	0.1	2	2	2	1.5	1
Teflubenzuron		0.6 (O) 0.8 (L)	0.6 (O), 0.1 (G, L, T)	0.5 (O)	0.01 (G), 0.5 (O)	1	0.01	0.01
Thiabendazole (TBZ)	Freshgard 598, Alumni, DECCO Salt No. 19	10	10	7	7	10	10	10 (7 proposed)
Thiamethoxam	Actara, Platinum, part of VoliamFlexi	0.4	0.4	0.5	0.15 (expired 4/30/19)	1	0.4 (G) 1 (O)	1 (0.3 proposed)
Tolfenpyrad	APTA	0.8	1.5		0.01	3	0.5	2
Trifloxystrobin	Gem	0.6	0.6	0.5	0.5	3	0.5	0.5
Trifloxysulfuron		0.03	0.1		0.01	0.01		0.01
Trifluralin	Trifluralin, Treflan, Trilin	0.05	0.1		0.01	0.05	0.05	0.05
zeta-cypermethrin	Mustang	0.35	1	0.3 (O, T, L), 0.5 (G)	2	2	2	2
Tolerance for unlisted materials=>		None	0.1	None	0.01	0.01	None	0.01

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Please send suggestions to:

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