

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 labeled only 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

"E" = Registration Expired (as of date) and potential MRL reduction or elimination in the future (often a year or more).

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

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

Chemical Name	Brand or Trade Names (Examples only, not exhaustive)	U.S. Citrus	CODEX Citrus	Canada Citrus	EU (G & O only)	Great Britain (G & O only)	Japan (G & O only)	Korea (G & O only)	Taiwan (G & O only)
2,4-D (2,4-Dichlorophenoxyacetic acid)	Citrus Fix, Hivol	3	1	2	1	1	3	0.15	2
Abamectin	Agri-Mek, Clinch, Zephyr, ABBA, Epi-mek, Reaper; Minecto Pro	0.02	0.02	0.02	0.04 (E 3/8/23)	0.04	0.1	0.01 (G); 0.05 (O)	0.01
Acequinocyl	Kanemite	0.35		0.35	0.6	0.2 (G); 0.4 (O)	2	0.01 (G); 0.7 (O)	0.2
Acetamiprid	Assail	1	1	0.5	0.9	0.9	2	0.5	0.5
Acibenzolar-S-methyl	Blockade (previously Actigard)	0.02	0.015	0.1	0.01 (E 6/20/24)	0.01	0.02	0.015	
Afidopyropen		0.15	0.15	0.15	0.01	0.15	0.2	0.15	0.1 (G) 0.15 (O)
Alpha-cypermethrin		0.35	0.5 (G, P), 0.3 (O, T, L)	0.1	2 (E 5/17/21)	2	2	0.3	2
Azoxystrobin	Abound, Graduate A+, Quadris Top (component)	15	15	15	15	15	10	10	10
Beta-cyfluthrin	Baythroid XL	0.2	0.3	0.1	0.3 (E 6/29/20)	0.02	1	0.2	0.3
Bifenthrin	Brigade, Capture, Telstar, Fanfare	0.05	0.05	0.1	0.05 (E 2/28/23)	0.05	0.7 (G), 2 (O)	0.01 (G), 0.5 (O)	0.5
Boscalid	Pristine (component)	2	2	3	2	2	10	2	0.01 (G); 5 (O)
Bromacil	Bromo, Hyvar	0.1		0.1	0.01	0.01	0.1	0.04	0.5
Buprofezin	Applaud, Centaur	4	1	0.1 (G, L, P), 4 (O, T)	0.01	0.01	3	0.01 (G), 2.5 (O)	0.5
Carbaryl	Sevin	10	15	10	0.01	0.01	5	0.01 (G), 7 (O)	1
Carfentrazone-ethyl	Aim	0.1		0.1	0.02	0.01	0.1	0.01	0.1
Chlorantraniliprole	Altacor, part of VoliamFlexi	1.4	0.7	0.7	0.7	0.7	0.7	0.6	0.5
Chlorpyrifos	Lorsban, Nufos	1		1	0.01	0.01	1	0.01	
Clothianidin	Belay	0.07	0.07	0.1	0.06 (E 9/2022)	0.06	2	0.05 (G); 0.3 (O)	1
Cryolite	Kryocide	7		0.1	0.01	0.01	0.01	0.01	7
Cyantraniliprole	Exirel; Minecto Pro	0.7	0.7	0.7	0.9	0.9	0.7	0.7	
Cyclaniliprole		0.2 (G, P); 0.4 (O, T); 0.3 (L)	0.4	0.2 (G, P); 0.4 (O, T); 0.3 (L)	0.01	0.01	0.6	0.01 (G) 0.5 (O)	
Cyflumetofen		0.3	0.3	0.3	0.5	0.3	5 (G), 3 (O)	0.3	1
Cyfluthrin	Baythroid	0.2	0.3	0.1	0.3 (E)	0.02	1	0.2	0.3
Deltamethrin	DeltaGard	Exempt	0.02	0.1	0.02	0.04	0.5	0.01 (G), 0.2 (O)	0.05
Difenoconazole	Quadris Top (component), Miravis Top (component)	0.6	0.6	0.8	0.6	0.6	0.6	0.6	0.6
Difflobenzuron	Micromite	3	0.5	0.1	0.01	0.01	3	0.01 (G); 2 (O)	1
Dimethoate	Dimethoate, Cygon	2 (G, O, T, L)	2 (T)	1.5	0.01	0.01	2	0.01	2
Diuron	Diuron, Direx, Karmex	0.05, 0.5 (L)		1	0.01 (E)	0.01	0.8 (G), 0.05 (O)	0.01	0.05 (G), 0.2 (O)

Chemical Name	Brand or Trade Names (Examples only, not exhaustive)	U.S. Citrus	CODEX Citrus	Canada Citrus	EU (G & O only)	Great Britain (G & O only)	Japan (G & O only)	Korea (G & O only)	Taiwan (G & O only)
Fenazaquin	Magister SC	0.4	0.3 (G, T, P, L), 0.4 (O)	0.4	0.3 (E 5/7/18)	0.5	0.4	0.4	0.5
Fenbuconazole	Enable	1	0.5 (G, O, T, P), 1 (L)	1	0.7 (G); 0.9 (O) (E 4/30/21)	0.7 (G); 0.9 (O)	1	0.5	0.01
Fenbutatin Oxide	Vendex	20	5	2	0.01	0.01	5	0.01	2
Fenpropathrin	Danitol	2	2	2	2	2	5	2	0.5
Fenpyroximate	Portal	1	0.5 (G, P), 1 (L)	1	0.5	0.5 (G), 0.7 (O)	2	0.7	0.5
Ferbam	Ferbam	4	10 (T), 2 (O)	0.1	0.01	0.01	2	0.01 (G) , 5 (O)	2
Flonicamid		1.5	0.3 (G, P), 0.4 (O), 1.5 (L)	1.5	0.15	0.15	3	0.01 (G) , 0.7 (O)	0.01 (G) ; 1.5 (O)
Fluazifop-P-butyl	Fusilade	0.01	0.01	0.03	0.01	0.01	0.05	0.01	0.01
Fludioxonil	Graduate, Graduate A+	10	10	10	10	10	10	10	5
Flumioxazin	Chateau	0.02		0.1	0.02	0.02	0.05	0.01	
Fluopyram		1	0.4 (G, P), 0.6 (O, T), 1 (L)	1	0.5	0.4 (G), 0.6 (O)	1	1	0.5
Flupyradifurone	Sivanto	3	0.7 (G, P), 4 (O), 1.5 (T, L)	3	3	0.01	3 (G), 4 (O)	3	1
Fluxapyroxad		1	0.6 (G, P), 1.5 (O), 1 (T, L)	1	0.6 (G) 1.5 (O)	0.6 (G) 1.5 (O)	4	1	0.5 (G), 0.8 (O)
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	0.01	2	0.01	1.5
Fosetyl-AL	Aliette	9	50 (T), 20 (O)	9	75	75	150	0.01 (G) , 4 (O)	10
Glufosinate-ammonium		0.15	0.05	0.1	0.05 (E 7/31/18)	0.05	0.2	0.05	0.1
Glyphosate	Roundup, Durango, Touchdown, & others	0.5		0.1	0.1 (G) 0.5 (O)	0.1 (G) 0.5 (O)	0.5	0.05	0.1
Hexythiazox	Savey	0.6	0.5	0.5	0.5	1	1	0.6	1
Imazalil	DECCOZIL EC-289, Freshgard 700, Fungaflor 500EC	10	15	5	4	4	5	15	5
Imidacloprid	Admire, Alias, Provado, Couraze, Nuprid, Pasada, Widow	0.7	1	1	0.9 (E)	1	0.7	0.7	1
Indaziflam	Alion	0.01		0.01	0.01	0.01	0.01	0.01	
Malathion	Malathion, Atrapa, Fyfanon	8	7	0.1	2 (E 10/8/18)	2	7	0.01 (G) , 4 (O)	2
Mandipropamid		0.5	0.2 (G, P), 0.4 (O), 0.5 (T, L)	0.5	0.2 (G) 0.4 (O)	0.2 (G) 0.4 (O)	3	0.5	0.2 (G), 0.3 (O)
Mefentrifluconazole		0.5 (G, P); 0.6 (O, T); 1 (L)	0.5 (G, P); 1 (O), 1.5 (T, L)	0.5 (G, P); 0.6 (O, T); 1 (L)	0.5 (G), 1 (O)	0.01	0.5 (G); 0.6 (O)	0.5 (G) 1 (O)	0.5 (G) 0.6 (O)
Mesotrione		0.01	0.01	0.1	0.01	0.01	0.01	0.01	
Metaflumizone		0.04 (G, P) 3 (O, T, L)	3 (O), 2 (L)	0.1	0.02 (G) 3 (O) (E, 12/31/24)	0.05	8	0.01 (G), 1 (O)	0.01
Metalaxyl-M, Mefenoxam	Ridomil Gold, Subdue,	1	5	5	0.7 (E)	0.7	0.7	0.01	0.5
Metaldehyde	OR-Cal Slug & Snail Bait	0.26		0.1	0.05	0.05	0.7	0.01	
Methoxyfenozide	Intrepid 2F	3	2	10	2 (E 1/31/19)	2	3	3	2

Chemical Name	Brand or Trade Names (Examples only, not exhaustive)	U.S. Citrus	CODEX Citrus	Canada Citrus	EU (G & O only)	Great Britain (G & O only)	Japan (G & O only)	Korea (G & O only)	Taiwan (G & O only)
Methyl bromide		30		0.1	30	30	30	30	
NAA (1-naphthaleneacetic acid)	Fruit Fix	0.1 (O & T)		0.1	0.06 (O)	0.06 (O)	5 (O)	0.01 (O)	exempt
Naled	Dibrom	3 (G, O, T, L)		3 (G, O, T, L)	0.01	0.01	0.2	0.01	
Norflurazon	Solicam	0.2		0.1	0.01	0.01	0.2	0.01	0.2
Oryzalin	Oryzalin, Surflan	0.05		0.1	0.01 (E)	0.01	0.08	0.01	
Oxamyl	Vydate	3		0.1	0.001 (G), 0.002 (O) (E)	0.01	5	0.01	0.5 (G), 1 (O)
Oxathiapiprolin	Orondis	0.06	0.05	0.06	0.05	0.05	0.06	0.05	
Oxytetracycline		0.01		0.1	0.01	0.01	0.2	0.01	
Paraquat Dichloride	Paraquat, Gramoxone, Boa	0.05	0.02	0.1	0.02	0.02	0.02	0.01	
Pendimethalin	Prowl, Pendimax	0.1	0.03	0.1	0.05	0.05	0.03	0.05	0.01
Phosmet	Imidan	5	3	0.1	0.01 (G), 0.005 (O) (E)	0.5	5	3	1
Phosphine		0.01		0.01 (G, O, T, L), 0.1 (P)	0.01	0.01	0.01	0.01	
Piperonyl Butoxide	Evergreen EC	8 (O)	5 (O)	8 (O)			5 (O)	0.01 (O)	5 (O)
Propargite	Comite, Omite	5 (G, L), 10 (O)	3	5	0.01 (G), 4 (O) (E)	0.01 (G), 4 (O)	5	0.01	5
Propiconazole	Banner, Bumper, Tilt, Orbit, PropiMax	8	4 (G, P), 10 (O, T, L)	8	0.01	0.01	8	8	4
Pydiflumetofen	Miravis Top (component)	1	0.9	1	0.01	0.01	1	1	0.9
Pyraclostrobin	Headline	2	2	2	2	2	2	2	1
Pyrethrins	Pyrellin (+ Rotenone), Evergreen (+ Piperonyl Butoxide)	1 (O)	0.05 (O)	1 (O)	1 (O)	1 (O)	1 (O)	1 (O)	0.05 (O)
Pyridaben	Nexter	0.9		0.9	0.5 (G) 0.3 (O)	0.3	1	0.9	2
Pyrifluquinazon		0.7		0.7	0.01	0.01	1	0.01 (G), 0.2 (O)	0.5 (O)
Pyrimethanil	Penbotec	10	7	10	8	8	10	7	7
Pyriproxyfen	Distance, Esteem, Knack	0.5	0.5	0.5	0.7	0.6	2	0.01 (G), 0.6 (O)	0.3 (G), 0.5 (O)
Rimsulfuron	Matrix	0.01		0.1	0.01	0.01	0.01	0.01	
Saflufenacil	Treevix, Kixor	0.03	0.01	0.03	0.03	0.03	0.03	0.03	0.03
Sethoxydim	Poast Plus	0.5		0.1	0.1	0.1	0.5	1	
Simazine	Simazine, Princep, Sim-Trol	0.04		0.1	0.01	0.01	0.2	0.015	
SOPP (2 Phenylphenol, O-phenylphenol, OPP)	DECCOSOL 125, FreshGard 5	10	10	10	10	10	10	0.01	10
Spinetoram	Delegate	0.3	0.07 (O), 0.15 (T)	0.3	0.02 (G), 0.07 (O) (E 6/30/24)	0.2	0.7	0.01 (G), 0.05 (O)	0.2
Spinosad	Entrust, Naturallyte, Justice,	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Spirodiclofen	Envidor	0.5	0.4	0.5	0.5 (E 7/31/20)	0.5	2	0.4	0.5
Spirotetramat	Movento	0.6	0.5	0.6	0.5 (E 4/30/24)	1	3	0.5	0.5
Streptomycin	FireWall	0.8		0.1	0.01	0.01	0.02	0.01	
Sulfoxaflor	Closer	0.7	0.15 (G, P) 0.8 (O, T) 0.4 (L)	0.7	0.15 (G) 0.8 (O) (E 4/28/22)	0.15 (G) 0.8 (O)	2	0.3 (G), 0.7 (O)	0.7
Tebuconazole		1 (O)	0.4 (O)	1 (O)	0.9 (O)	0.9 (O)	5 (O)	1.5	4 (O)
Tebufenozide		2	2	0.1	2	2	2	0.01	1.5
Thiabendazole (TBZ)	Freshgard 598, Alumni, DECCO Salt No. 19	10	7	10	7	7	10	7	10
Thiamethoxam	Actara, Platinum, Agri-Flex, part of VoliamFlexi	0.4	0.5	0.4	0.15 (E 4/29/18)	0.15	1	0.3	0.4 (G) 1 (O)
Tolfenpyrad	APTA	0.8	0.6 (G, O, P), 0.9 (T, L)	0.8	0.01	0.01	3	0.8	0.01 (G); 0.5 (O)
Trifloxystrobin	Gem	0.6	0.5	0.6	0.5	0.5	3	0.5 (G), 1.5 (O)	0.5

Chemical Name	Brand or Trade Names (Examples only, not exhaustive)	U.S. Citrus	CODEX Citrus	Canada Citrus	EU (G & O only)	Great Britain (G & O only)	Japan (G & O only)	Korea (G & O only)	Taiwan (G & O only)
Trifluralin	Trifluralin, Treflan, Trilin	0.05		0.1	0.01	0.01	0.05	0.01	0.05
zeta-cypermethrin	Mustang	0.5 (G, P), 0.3 (O, T, L)	0.5 (G, P), 0.3 (O, T, L)	1	2 (E 12/1/20)	2	2	0.3	2
Tolerance for unlisted materials=>		None	None	0.1	0.01	0.01	0.01	0.01	None
Updated=>		Mar-25	Mar-25	Mar-25	Mar-25	Mar-25	Mar-25	Mar-25	Mar-25
Last Updated: September 11, 2025									
Please send suggestions to:									
Mark A. Ritenour (ritenour@ufl.edu)									
Professor - Postharvest Physiology & Handling									
University of Florida - Indian River Research and Education Center									
ritenour@ufl.edu									