

TABLE 1
First Application 2024-25 Season
Zinc-Copper-Lime Applications

Fixed coppers (e.g., copper hydroxide and copper oxide)

Application Volume	Rate	Metallic Zinc/100 gal	Metallic Copper/100 gal	Hydrated Lime/100 gal
400	gal/A	0.63-1 lb	0.41-0.75 lb	0.5-1.0 lb
600	gal/A	0.42-0.67 lb	0.28-0.5 lb	0.33-0.67 lb
800	gal/A	0.31-0.5 lb	0.21-0.38 lb	0.25-0.5 lb
Total*	lb/A	2.5-4	1.65-3	2-4 lbs

* - If the disease was observed or a positive NAVEK report was issued for Septoria spot in a grower lot last season, use a higher rate of each component within the range provided.

** - Lime can be substituted with a sticker adjuvant (e.g., NuFilm-17, Cohere, etc.) when using fixed coppers. Note that zinc sulfate is acidic and may need to be buffered in the spray tank to prevent phytotoxicity. Consult a PCA if lime is not applied.

TABLE 2
First Application 2024-25 Season
Zinc-Copper Bordeaux Applications
(Zinc monohydrate + Copper pentasulfate)

Application Volume	Rate	Metallic Zinc/100 gal	Metallic Copper/100 gal	Hydrated Lime/100 gal
400	gal/A	0.83 lb	0.41-0.62 lb	5-17 lb
600	gal/A	0.55 lb	0.28-0.41 lb	3.3-11 lb
800	gal/A	0.41 lb	0.21-0.31 lb	2.5-8.4 lb
Total*	lb/A	3.3	1.65-2.45	20-67

* - If the disease was observed or a positive NAVEK report was issued for Septoria spot in a grower lot last season, use a higher rate of each component within the range provided.

TABLE 3
Fungicides other than Cu-Zn-Lime Treatments
Second Application 2024-25 Season

Product	Product Amount (fl oz or oz/A)	Application volume (gal/A)*	Usage	PHI (days)
Presidio	4	10/Chemigation	Soil	30
Aliette	80	500	Foliar/Soil	30
Revus**	8	150-400	Foliar	0
	8-16	Chemigation	Nursery Container Soil	Non-bearing
Ridomil Gold	16-96	Variable/ Chemigation	Soil	0
Orondis**	2.4-9.6	Chemigation	Soil	0
Orondis Ultra**	5.5-8	150-400	Foliar	0

*- Ground applications volumes are suggested to provide sufficient coverage and may vary for citrus crop (tree size and canopy density). See individual labels for details.

** - Orondis Ultra and Revus have the highest efficacy and residual performance of foliar ground applications against brown rot of citrus but these fungicides can also be applied by air. Old labels of Orondis that allow for a foliar applications can still be used legally until supplies are exhausted.

Label Restrictions:

Product	Preharvest fungicide	Usage	Preharvest interval (days)	Max. Prod. Rate (fl oz/A)	Max. No. of Applications	Max. No. of Sequential Applications	Max. Product per Year (fl oz/A)
Presidio	Fluopicolide	Soil	30	4	1	0	4
Aliette	Fosetyl-Al	Foliar/Soil	30	80	4	2	320
Revus*	Mandipropamid	Nursery	Non-Bearing	8 to 16	2 to 4	2	32
		Foliar	0	8	2	2	16
Ridomil Gold	Mefenoxam**	Soil	0	32	3	2	6 lb ai
Orondis*	Oxathiapiprolin	Soil	0	9.6	2	2	19.2
Orondis Ultra	Oxathiapiprolin + Mandipropamid	Foliar	0	8	1	0	8

*-Foliar and soil applications rates of Orondis are different as shown. Similarly, foliar and nursery applications of mandipropamid have different rates. In contrast, fosetyl-Al has the same rates for either foliar or soil applications.If Orondis Ultra is used, the maximum amount of mandipropamid per season is established and prevents a second application of Revus for the season.

**-Mefenoxam is sold under proprietary and generic formulations and thus, active ingredient is only provided for the max. per year.

Note:

- MRLs have been established in many countries including Korea, but some countries may not have MRLs established for these fungicides. Check with the export country before making pre-harvest fungicide treatment/application decisions (MRLs are listed for several export markets in the GAPS).
- Additional materials may be needed for managing brown rot. A fixed copper may also be used with other fungicide treatments in a tank mixture for brown rot control.