



October 17, 2011

California Citrus Exporters:

The California Citrus Quality Council (CCQC) is sending this message to provide recommendations for control of Septoria spot caused by *Septoria citri* for shipments to Korea.

Korea

This is an advisory for all California orange packinghouses in all counties regarding the first preharvest field-application of zinc-copper-lime for all orange blocks eligible to ship to Korea in the 2011/12 season. The first field application of zinc-copper-lime is **highly recommended** for all oranges planned for export to Korea. The zinc-copper-lime treatment **should be applied between October 15 and November 30** for all California oranges including Navels and Valencias shipped to Korea. Registered alternatives such as Quadris-Top[®] (azoxystrobin and difenoconazole) and Abound[®] (azoxystrobin) are also highly effective and could be used as rotational treatments if additional applications of fungicides are needed later in the season.

These fungicide applications are protective treatments for management of Septoria spot. Copper-zinc lime treatments or registered alternatives should be applied prior to winter rains. These treatments are much less effective if applied after precipitation.

Timing of the second and third fungicide treatments will be based on the accumulation of temperatures below -1 degree C and subsequent accumulation of precipitation. Industry advisories will be made based on forecasted weather conditions and the risk assessment model developed by the University of California. Additional applications might be needed later in the year depending on environmental conditions.

Attached for you information are voluntary Good Agricultural Practices (GAPs) that have been developed by the citrus industry and the University of California to provide guidance on the Septoria program including sampling procedures for the Navel and Valencia Exports to Korea (NAVEK) program. Also attached are the guidelines for the first copper field treatment for shipments to Korea.

Please contact me by telephone at (530) 885-1894 or via e-mail at jcranney@calcitrusquality.org if you have questions or need additional information.

TABLE 1

**First Application 2011-12 Season
Zinc-Copper-Lime Applications
Fixed coppers (e.g., copper hydroxide and copper oxide)**

Application Volume		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 spray component (e.g., 4 lb metallic zinc, 3 lb metallic copper, and 4 lbs of lime per acre) within the range provided.

TABLE 2

**First Application 2011-12 Season
Zinc-Copper Bordeaux Applications
(Zinc monohydrate + Copper pentasulfate)**

Application Volume		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 spray component (e.g., 3.34 lb metallic zinc, 2.45 lb metallic copper, and 67 lbs of lime per acre) within the range provided.