

AZOMITE® and Citrus Crops

J.F.L. Childs, Ph.D., U.S.D.A., Retired, was the Study Director for the various citrus research summarized herein. Research was published in the Proc. Florida State Horticulture Society 94. Article was titled, "Control of Citrus Blight Disease."

CITRUS DECLINE SYMPTOMS

The term "Decline" includes a number of other names such as young tree decline, citrus blight, sand hill decline and rough lemon decline. In the order of their development the general symptoms associated with decline are: dehydration, delayed leaf flushes and blooming, deficiency symptoms (especially zinc), defoliation, twig and branch die-back (usually accompanied by vigorous sprout growth from the trunk and lower branches), fruit production declines during the entire decline development period, and the tree dies.

CITRUS DECLINE - CURE THEORY

The necessary unidentified essential trace elements are contained in **AZOMITE®**. Good soil management practices, plus treatment of the soil under the drip line with **AZOMITE®** will avoid and reverse the effects of citrus decline.

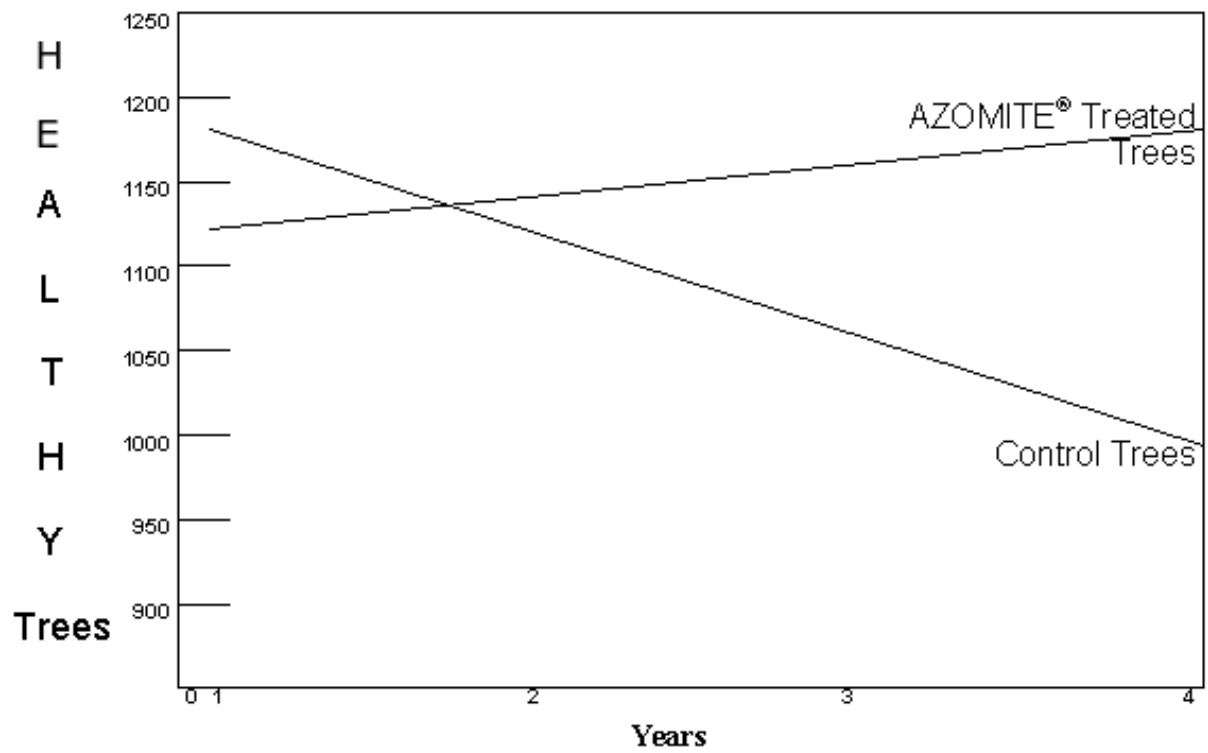
Citrus Research

VALENCIA ORANGE TREES ON ROUGH LEMON ROOTSTOCK

Researcher reports all treated trees had an annual application of 1.8 to 2.2 kg of **AZOMITE®** for a four-year period.

	Treated Trees			Check Trees		
	Healthy	Decline	Percent	Healthy	Decline	Percent
Start	1,086	293	21.2%	1,173	242	17.1%
After 4 Years	1,151	228	16.5%	989	426	30.1%

Research reported that the owner pulled all trees that appeared decline-affected, including about 135 **AZOMITE®** treated trees that the researcher believed had started to recover. Even from the owner's perspective there was a 22% decline decrease in the **AZOMITE®** treated trees compared to a 76% decline increase in the check trees.

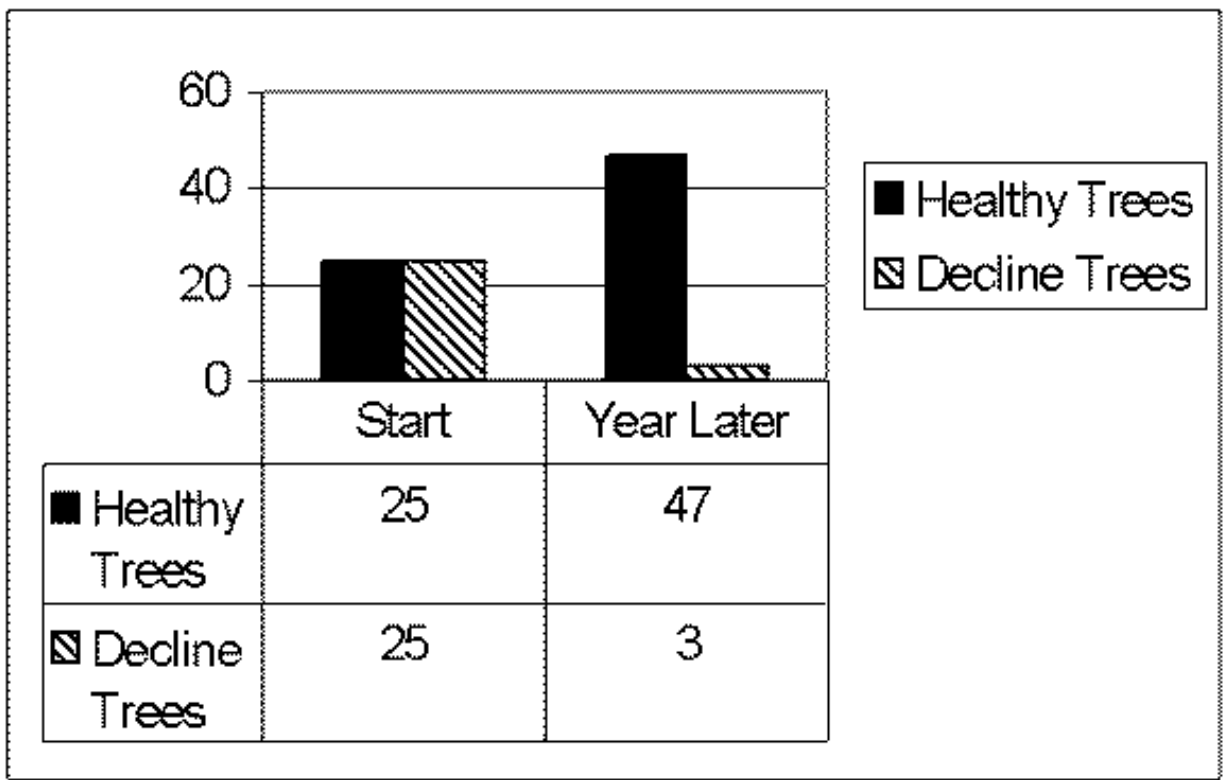


MURCOTT ORANGE TREES ON ROUGH LEMON ROOTSTOCK

Researcher reports that this small study was designed to test the effects of heavier treatments of **AZOMITE®**. Decline trees received 6.8 kg of AZOMITE® spread by hand within the drip line and raked in by hand. Healthy trees received 4.5 kg of AZOMITE® applied in the same manner.

	Treated Trees		
	Healthy	Decline	Total
Start	25	25	50
After 1 Year	47	3	50

Researcher reported all healthy trees remained healthy and 22 of the 25 decline-affected trees showed almost complete recovery.



Valencia Orange trees in decline were recovered and became healthier with increased productivity with 2 kg/tree/year of **Azomite®** in 4 years.

Murcott Orange trees in decline were recovered in 1 year with 7 kg/tree.



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