

BIOLOGY AND MANAGEMENT OF THE CRAPEMYRTLE BARK SCALE: LANDSCAPE AND NURSERY GROWERS

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Crapemyrtle bark scale (*Acanthococcus lagerstromiae* [Hemiptera: Eriococcidae]) was reported for the first time in the United States (US) in 2004 near Dallas, Texas. Although initially thought to be a population of the native azalea bark scale (*Acanthococcus azaleae*) feeding on crapemyrtles, it was later discovered that the scale in question was an introduced species from Southeast Asia, where crapemyrtles and the crapemyrtle bark scale are considered native.

The crapemyrtle bark scale has since spread across the US, occupying over 12 states from the east to west coasts. For the current distribution, visit <https://stopcombs.com/crapemyrtle-bark-scale/monitoring/>. An infested crapemyrtle can be visually identified by the presence of small—less than 1/8 inch in length—white, scale-like insects on the bark and twigs, especially in bark furrows and crevices. When crushed, these scales exude a pink fluid called hemolymph. Crapemyrtle bark scale feeding results in the production of honeydew, which is the leftover sugary solution from feeding on the plant sap. High infestations can result in black sooty mold on leaves, twigs, branches, trunks, and surfaces below. As of the writing of this publication, all commercially available cultivars (*Lagerstroemia indica*, *L. founiei*, and hybrids) of crapemyrtles appear to be susceptible to the crapemyrtle bark scale, although some cultivars may be slightly less susceptible than others.

BIOLOGY

Immature crapemyrtle bark scales hatch from eggs and are considered the most mobile stage, often referred to as “crawlers.” Once settled, immature crapemyrtle bark scales start feeding on vascular tissue through the bark. Like other felt scale species, crapemyrtle bark scale

develops a white waxy coat as they mature, eventually fully encapsulating themselves in a protective waxy layer. Females only produce one egg mass, in contrast to mealybug females that can lay multiple egg masses. Dissections of 20 female crapemyrtle bark scales found as many as 250 eggs per egg sac. Males pupate and emerge as winged adults that can disperse via flight.

The mechanism of dispersal of immature crapemyrtle bark scales is not yet well-documented. Similar scale species can travel by wind, by hitching a ride on larger insects, squirrels, or birds, or from the movement of pruned materials or cuttings from infested stock.

Crawler emergence can be monitored on crapemyrtles by wrapping double-sided sticky tape around a branch and counting the numbers by removing the tape and inspecting with a hand lens or microscope (Fig. 1).



Figure 1. Crapemyrtle bark scale crawlers trapped on double-sided sticky tape as seen under a microscope. Red arrows point out some of the crawlers.

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Table of Contents Crapemyrtle A Growers Thoughts Paperback

1. Understanding the eBook Crapemyrtle A Growers Thoughts Paperback
 - The Rise of Digital Reading Crapemyrtle A Growers Thoughts Paperback
 - Advantages of eBooks Over Traditional Books
2. Identifying Crapemyrtle A Growers Thoughts Paperback
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Crapemyrtle A Growers Thoughts Paperback
 - User-Friendly Interface
4. Exploring eBook Recommendations from Crapemyrtle A Growers Thoughts Paperback
 - Personalized Recommendations
 - Crapemyrtle A Growers Thoughts Paperback User Reviews and Ratings
 - Crapemyrtle A Growers Thoughts Paperback and Bestseller Lists

5. Accessing Crapemyrtle A Growers Thoughts Paperback Free and Paid eBooks
 - Crapemyrtle A Growers Thoughts Paperback Public Domain eBooks
 - Crapemyrtle A Growers Thoughts Paperback eBook Subscription Services
 - Crapemyrtle A Growers Thoughts Paperback Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Crapemyrtle A Growers Thoughts Paperback Compatibility with Devices
 - Crapemyrtle A Growers Thoughts Paperback Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Crapemyrtle A Growers Thoughts Paperback
 - Highlighting and Note-Taking Crapemyrtle A Growers Thoughts Paperback
 - Interactive Elements Crapemyrtle A Growers Thoughts Paperback
8. Staying Engaged with Crapemyrtle A Growers Thoughts Paperback
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Crapemyrtle A Growers Thoughts Paperback
9. Balancing eBooks and Physical Books Crapemyrtle A Growers Thoughts Paperback
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Crapemyrtle A Growers Thoughts Paperback
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Crapemyrtle A Growers Thoughts Paperback
 - Setting Reading Goals Crapemyrtle A Growers Thoughts Paperback
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Crapemyrtle A Growers Thoughts Paperback
 - Fact-Checking eBook Content of Crapemyrtle A Growers Thoughts Paperback
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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