

Combined Hemlock Help Clinic & Facilitator Training Workshop for South Carolina Participants

This is an in-depth course designed for people who want to fully understand the hemlock problem, learn the actual process for treating the trees, and then be of service within the community.

The Facilitator program is similar to the Master Gardener program in that it provides a great deal of good information and practical skills that should be useful to individual property owners to save their own trees **AND** prepares volunteers to find their personal stewardship niche using their knowledge and skills to help others.

CONTENT – Starting with an overview of what’s killing the hemlocks, what can be done to save them, and why it’s so important to do so, this class provides complete how-to instruction covering the trees, the insects, assessing infestations, cultural practices, chemical treatments, biological controls, cost considerations, personal and environmental safety. It also prepares volunteers to advise and assist other property owners and to work with the U. S. Forest Service and DNR to save trees on our public lands.

An outline for the training begins on the next page.

COST – This training is free for anyone who has joined or renewed their Save Georgia’s Hemlocks membership since last December. It is also free for employees of public land management agencies. For other individuals who are not yet SGH members or who need to renew their membership, we do ask for a tax-deductible \$20 membership donation to help support the work of SGH.

REGISTRATION – **Registration is required.** Contact Carolyn Dawson at 864-638-5889 x 115 or dawson4@clemson.edu and be sure to provide both your phone number and email.

WHAT TO BRING –

* **Something to take notes with.** We recycle the training guides but will give you a DVD containing the complete guide, a scripted version of the training presentation, and lots more useful materials at the end of class.

* **Your personal calendar.** Each person completing the course is asked to sign up to help with at least one educational or service event during the year through the Cooperative Extension Service office.

* **A sack lunch.** We will eat lunch in the classroom around noon. We’ll also provide bottled water and some additional snacks.

* **Your membership donation** (cash or check) if applicable. You can take care of this at the beginning of class, and we’ll mail you a thank-you / tax receipt letter afterwards.

WHAT TO WEAR – Part of the class will be outdoors for a demo of the treatment techniques and some hands-on practice so please dress for the weather, including long-sleeved shirt, long pants, and sturdy footwear with socks.

Professional CEUs are available. Please bring your pesticide applicator’s license if you wish to apply for credits.



Outline of Hemlock Help Clinic

- A. The role and importance of hemlocks
 - Aesthetic value
 - Ecological value to wildlife and plants
 - Environmental value
 - Economic value to the community
 - Personal value to individuals and families
- B. The invasive insect that's killing them and how it does so
- C. How to recognize the problem and assess the level of infestation
- D. What property owners can do to save their own trees
 - Cultural controls to maintain the health of the trees
 - Chemical treatment to kill the pests
 - Personal and environmental safety
 - Cost of do-it-yourself approach or professional service
- E. The consequences of not taking timely action
- F. How property owners, volunteers, and organizations can help others in their community save hemlocks on private and public land
- G. FREE help available through the SGH Hemlock Help Line, the SGH web site, and our SGH Facilitators

Outline of Facilitator Training Workshop

SECTION I: INTRODUCTION

Problem Statement
The Stakes
Hemlock Help Program
Role of Facilitators

SECTION II: HEMLOCKS

Description – Eastern hemlock
Description – Carolina hemlock
Hemlock Structure
Value of Hemlocks

SECTION III: HEMLOCK WOOLLY ADELGID

History and Distribution
Hosts
Identification
Impact of HWA on Hemlocks
Adelgid Lifecycle

SECTION IV: CULTURAL CONTROLS

General Approach and Recommendations
Care of Landscape Ornamentals
Forest Management Practices
Removing Untreated Trees
Water Needs of Trees
Advantages of Cultural Controls
Disadvantages of Cultural Controls

SECTION V: CHEMICAL CONTROLS

General Approach and Recommendations
Overview of Chemical Treatment Process
Choosing the Trees to Treat
Determining the Level of Infestation
Systemic or Non-Systemic Material
How Systemic Treatment Works
Imidacloprid or Dinotefuran
Product Choices
Timing of Treatment
Choosing an Application Method
Generally Not Recommended
Summary of Treatment Decisions
Determining Diameter at Breast Height (DBH)
How to Do Soil Injection with Imidacloprid
How to Do Soil Drench with Imidacloprid
Helpful Hints for Soil Application
How to Do Trunk Spray with Safari 20 SG
How to Do Foliar Spray
Expectations Following Treatment
Special Notes about Chemical Controls
Advantages of Chemical Controls
Disadvantages of Chemical Controls

SECTION VI: BIOLOGICAL CONTROLS

The Challenge
The Hope
Hemlock Conservation Areas
Other Research Efforts
Information for Property Owners

SECTION VII: WORKING WITH PROPERTY OWNERS

About Property Owners
Your Message
Overview of a Facilitator Visit
The Flow

SECTION VIII: ADDITIONAL FACILITATOR INFORMATION

Knowledge of Treatment Materials and Safety
Parts and Usage of Kioritz Soil Injector
Product Use and Storage
Rough Estimate of Product Amount & Cost
Reliable Estimate of Product Amount & Cost
Understanding Professional Standards
Understanding Average Professional Rates
Dealing with Pest Control Failure
Record Keeping for Volunteer Facilitators
Important SGH Web Pages
Thank You and A Reminder

APPENDIX A: INTRODUCTORY MATERIALS

Press Release July 1, 2009
Hemlock Clinic Announcement July 8, 2009
SGH Hemlock Help Program Description
SGH Brochure – Hemlock Help for Property Owners
SGH Brochure Insert – Information for Property Owners
SGH Hemlock FAQs
SGH Hemlock Facts & Fiction
SGH Rack Card
Web Site Map

APPENDIX B: TREATMENT INSTRUCTIONS

SGH Introduction to Treating Hemlocks
SGH Applying Imidacloprid 75 WSP (1.6 oz) by Kioritz Soil Injector
SGH Applying Imidacloprid 75 WSP (1.6 oz) by Soil Drench
SGH Imidacloprid Quick Reference Sheet
SGH Applying Safari 20 SG by Kioritz Soil Injector
SGH Applying Safari 20 SG by Basal Trunk Spray
SGH Safari 20 SG Quick Reference Sheet
Testing & Adjusting Kioritz Soil Injector Calibration

APPENDIX C: CHEMICAL PUBLICATIONS (SAMPLES)

Product Label for Imidacloprid (Bayer's Merit 75 WSP)
Material Safety Data Sheet for Imidacloprid (Bayer's Merit 75 WSP)

APPENDIX D: OTHER EDUCATIONAL & INSTRUCTIONAL MATERIALS

Caring for Your Hemlock Sapling
Caring for Your Hemlock Seedling
Chemicals – Contacts – Sources
Instructions for Planting or Transplanting a Hemlock
Neighborhood Hemlock Project Planning Guide

APPENDIX E: FACILITATOR MATERIALS

Facilitator Job Description
Lead Area Facilitator Job Description
Checklist – Educational Event
Checklist – Facilitator Visit
Checklist – Volunteer Project
Chemical Calculator
Maintaining a Kioritz Soil Injector
Quarterly Activity Log
Rosellinia Needle Blight
Spruce Spider Mites
Elongate Hemlock Scale

HANDS-ON DEMONSTRATION & PRACTICE

Soil Injection, Soil Drench, and Trunk Spray
Care and Use of Kioritz Soil Injector

SIGN-UP FOR VOLUNTEER ACTIVITIES & INTERESTS