

# → HEMLOCK WOOLLY ADELGID

**Zylam® Liquid Systemic Insecticide** is a highly systemic third generation neonicotinoid containing dinotefuran. Dinotefuran provides control of Hemlock Woolly Adelgid (HWA) which causes damage to hemlock trees found in landscapes.

HWA feeds by sucking the sap and nutrients from hemlock needles; this prevents growth and also causes the needles to discolor and drop prematurely. The loss of needles caused by HWA infestation triggers tree health to deteriorate and die. Since the characteristics of **Zylam Liquid** promote movement from the vascular system into the intracellular tissue, **Zylam Liquid** is ideal for control of invasive hemlock woolly adelgids. Rapid uptake throughout the plant and knockdown of insects with extended systemic activity is what sets **Zylam Liquid** apart from the competition.

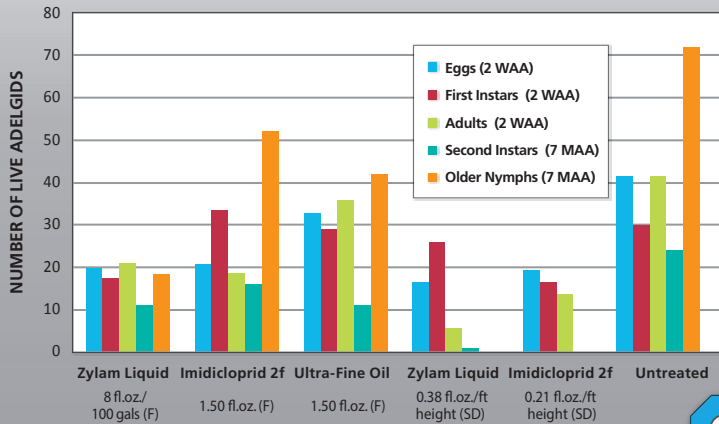


HWA completes two generations per year on hemlock. During March and April, adults will lay 50 to 300 eggs. The spring generation will be mature by mid-June and will begin to reproduce. Crawlers hatch in early July and settle on new growth. They are dormant until mid-October, when they resume feeding. Nymphs feed and develop during the winter and mature by spring. When **Zylam Liquid** is applied in the spring, soil drench, bark banding and foliar applications provide control throughout the growing season.

**Zylam Liquid** can be used for HWA control on landscape trees in residential, commercial and industrial areas, golf courses, parks, around athletic fields, & schools, as a soil drench, bark banding (trunk spray) or foliar application.



**HEMLOCK WOOLLY ADELGID CONTROL – UNIVERSITY OF GEORGIA**  
**FOLIAR (F) OR SOIL DRENCH (SD) APPLICATION**  
 2 weeks after application (2WAA) and 7 months after application (7MAA)



## OTHER TREE & SHRUB PESTS CONTROLLED:

(See product label for application & timing)

- Armored Scale (such as the hemlock elongate scale)
- Soft Scale
- Aphids
- Borers
- Many Others

### APPLICATION REFERENCE GUIDE

<b>Use Sites</b>	<b>Landscape Trees</b> <ul style="list-style-type: none"> <li>• In Residential, Commercial and Industrial Areas</li> <li>• Golf courses</li> <li>• Parks</li> <li>• Around Athletic Fields and Schools</li> </ul>
<b>Pest</b>	Hemlock Woolly Adelgid
<b>Zylam Liquid Rate</b>	<b>SOIL DRENCH</b> 0.8 fl. oz. per every 1" DBH*
	<b>BARK BANDING</b> 16 fl. oz. will treat 36" DBH* <i>Requires the addition of 1.0 fl. oz. of 100% silicone surfactant per gallon of spray solution.</i> or 0.43 fl. oz. per every 1" DBH*
	<b>FOLIAR</b> 8 fl. oz. to 16 fl. oz. per 100 gallons. treats 20,000 sq.ft.
<b>Application Timing</b>	For optimum control, apply late spring for extended control throughout the growing season.

\*DBH – Diameter at Breast Height (4.5 ft. above soil surface)