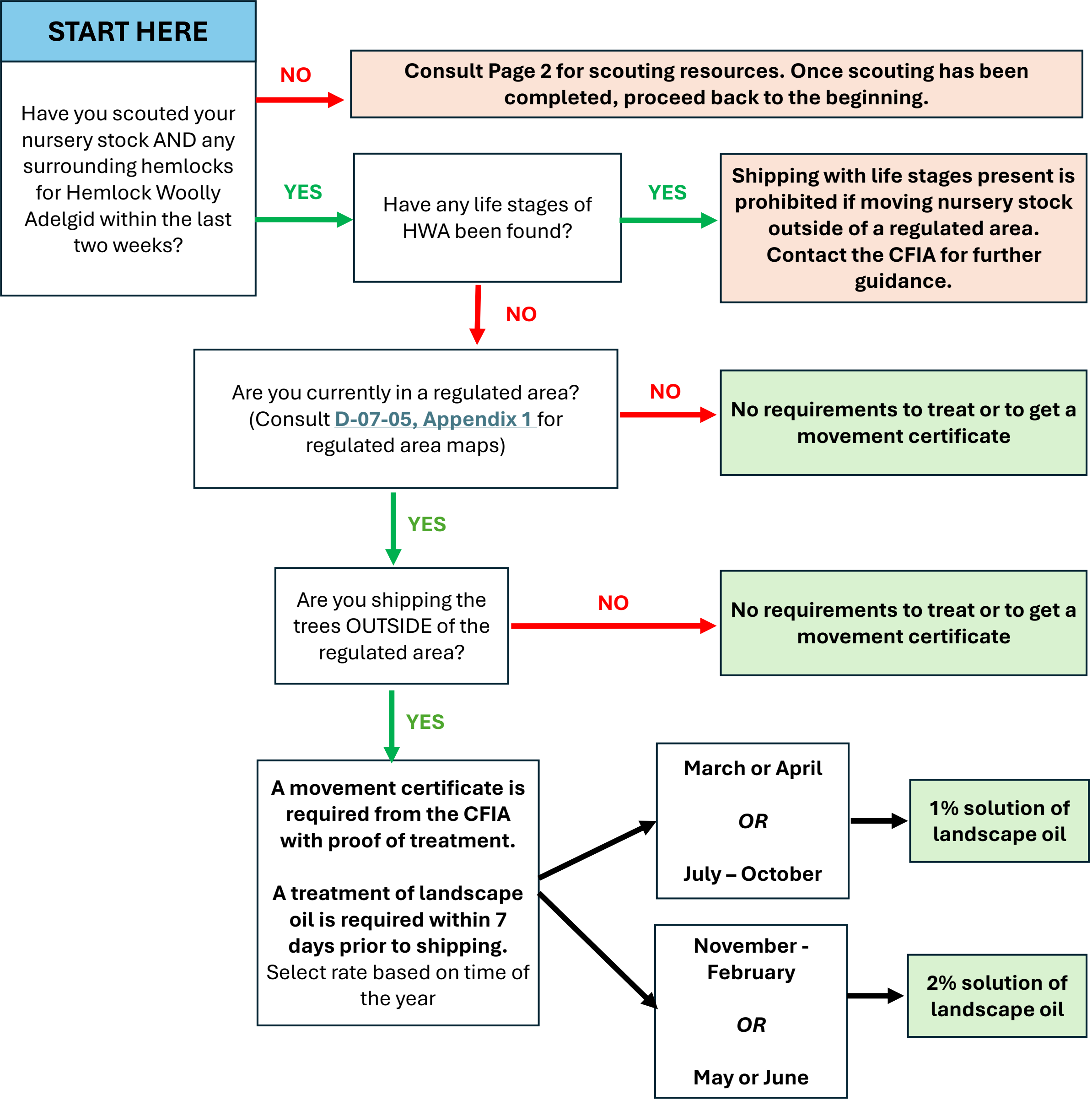


# Decision Guide for Hemlock in Ontario

## *Do I need to apply a treatment prior to shipping?*

This infographic is only to be used for the 2026 shipping season and when no other sprayable or injectable products can be used on nursery hemlock stock in Ontario.



### Cautions

The label is law. See the Health Canada website for the most up to date label for pesticide products registered in Canada and their proper use. Neither the CFIA nor OMAFA are responsible for damage trees due to products applied.

### It is not recommended to apply landscape oil:

- If trees are stressed.
- If temperatures drop below 2°C within 48 hours of spraying.
- If temperatures exceed 26 °C during or after a spray.
- Do not apply oil with or near an application of certain multisite fungicides and/or insecticides. Consult product labels for tank mix restrictions.

## Scouting resource for Hemlock in Ontario

It is recommended that grower's sample multiple trees in each production area, focusing on inspecting new growth with a hand lens with at least 10x magnification.

### Adults & Egg sacs

Woolly masses are located on the undersides of branches at the bases of needles, including adults & egg sacs (not mobile).

Can be seen without magnification.  
Best time to scout is between November – May and/or June - July.

Woolly masses left from past generations can remain on older branches and can be seen year-round.



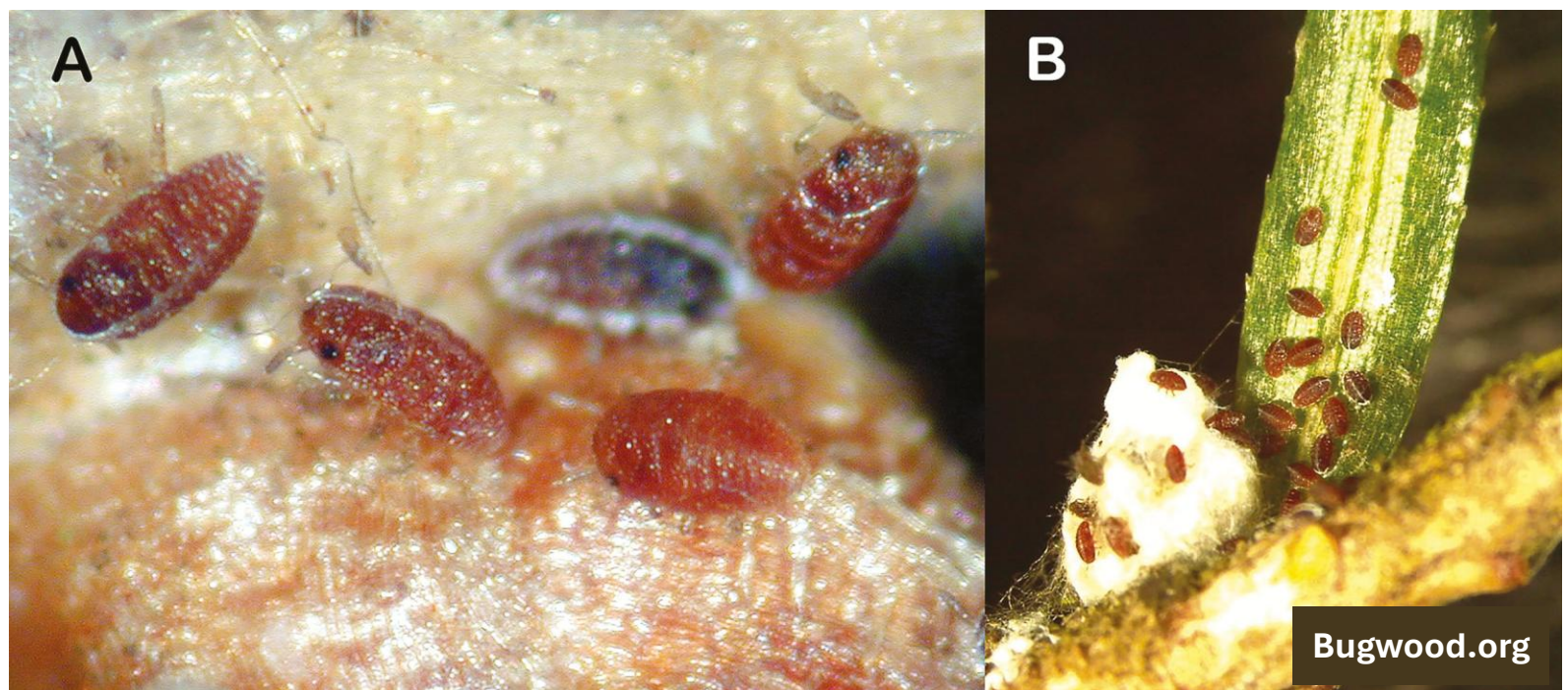
### Crawlers

(1<sup>st</sup> instar nymphs)

Small brown crawlers with no visible wool on their bodies. The only **mobile** stage of the insect that can move to new growth or to other trees.

Must be seen with magnification.

Most observed between March – April or July - October



### Nymphs

Small dark nymphs at the base of needles on new growth with small amounts of wool around their bodies (not mobile).

Must be seen with magnification.

Will be located at the base of a needle on **new** growth.

Most often observed between April - May and October – December.



Additional resources to support proper identification and scouting can be found at the following websites:

**ONnurseryCrops Blog:** <https://onnurserycrops.wordpress.com/>

**Invasive Species Centre:** <https://www.invasivespeciescentre.ca/invasive-species/meet-the-species/invasive-insects/hemlock-woolly-adelgid/>

**CFIA:** <https://inspection.canada.ca/en/plant-health/invasive-pests-and-plants/insects/hemlock-woolly-adelgid>

**HWA Cornell Blog:** <https://blogs.cornell.edu/nyschemlockinitiative/hemlock-woolly-adelgid/hwa-phenology/>