

improve tree vigor.

Removing trees killed by bark beetles will not affect beetle reproduction unless this material is destroyed while the beetles are still under the bark. Adult beetles overwinter in the duff and litter. The following spring, they will use green logs and slash from late winter cuttings or stressed trees for reproduction. It is important to destroy or debark such material or remove it from the site for processing before spring arrives. Cuttings made during the fall or early winter generally are unsuitable for breeding because they have dried out by the time the beetles resume activity the following spring.

In areas with a large number of pines, DNR relies primarily on pheromone traps, thinning or harvesting stands, and tree traps. Using trap trees requires that trees be sacrificed to draw the beetle attack. These trap trees should be monitored closely by someone who is familiar with the bark beetle life cycle. Timing is critical and failure to remove and destroy trap trees before beetle emergence actually makes the problem worse. Assistance is available through the local DNR office.

Pheromone-baited traps use a synthetic lure to attack beetles to a trap where they are collected and killed. The value of pheromone traps for Ips pini control is still uncer-

tain, but DNR is currently conducting research trials on this technique.

Bark beetle populations probably will be high again this year, causing concern for pines. People wishing to receive a copy of the new publication "How to Identify and Manage Pine Bark Beetles" should contact their local DNR forestry office or possibly their county extension agent.

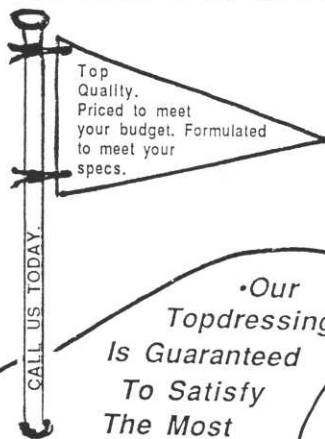
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- \* **The five most important words** are, *You did a good job.*
- \* **The four most important words**, *What is your opinion?*
- \* **The three most important words**, *It you please.*
- \* **The two most important words**, *Thank you.*
- \* **The single most important word**, *We.*
- \* **And the least most important word**, *I.*

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