CONFRONTING
THE GIANT

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EUCALYPTUS CONTROL CHOICES

Option 1: Cut trees, treat   stumps,
             and remove debris

Option 2: Kill trees standing, and
let nature recycle debris

EUCALYPTUS CONTROL CHOICES

 Option 1: Cut and remove trees

Techniques:
- PULLING
- FELLING

Option 2: Kill trees standing

Techniques:
- GIRDLING
- DRILLING
- FRILLING
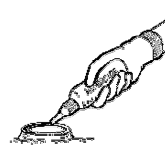- INJECTION
- BASAL BARK TREATMENT

FELLING

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STUMP TREATMENT

Herbicide must be applied to cambium
WITHIN ONE TO TWO MINUTES
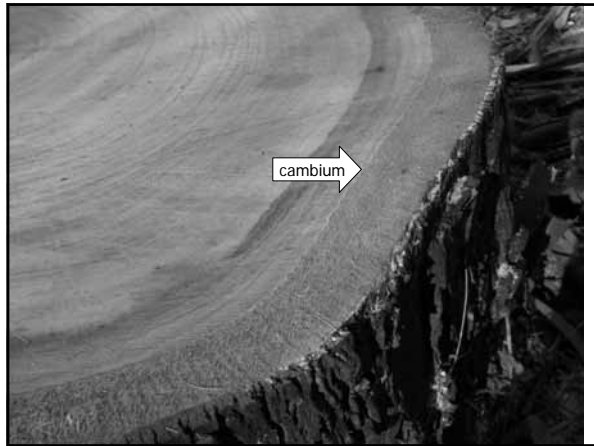after cut to prevent stump sprouting.

Recommended Herbicides

- For direct cambium contact
- (stump treatment, girdling, drilling, frilling and injection)
  - Roundup (glyphosate) at 50%, in water
  - Garlon 3A (Triclopyr- amine) at 50%, in water

- For basal bark application
  - Garlon 4 (Triclopyr- ester) 15% in Penevator (or other) basal oil.

-Not recommended: Imazapyr (Arsenal)

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Agency Removal (CDF)

| +	−
■ Usually least expensive option	■ High risk factor
	■ Requires constant supervision
	■ May not have necessary equipment
	■ May not do difficult felling
	■ Can only do sawing
	■ Crews may be called away at any time

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Contract Removal

+	**−**
■ Minimal supervision required	■ Higher Cost
■ High level of expertise	■ Choice of contractor can have a major bearing on how well the work will be done.
■ Proper equipment	
■ All needs of project can be met	
■ Work done correctly and on time	
■ Performance bond	
■ Risk of accidents reduced	
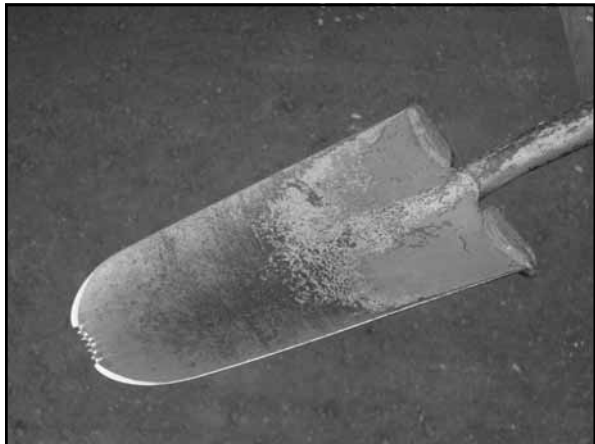
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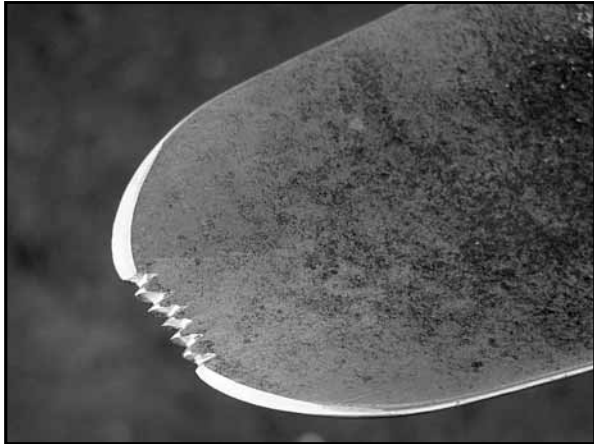
DISPOSAL

Off-Site
- Lumber
- Pulp
- Mulch
- Firewood
- Other uses ?
- Landfill

On-Site
- Chip and use as mulch
- Stack & Burn
- Leave to decompose

DISPOSAL

Off-Site
- Lumber
- Pulp
- Mulch
- **Firewood**
- Other Options
- Landfill?

On-Site
- Chip and use as mulch
- **Stack & Burn**
- Leave to decompose

Confronting the Giant

Skid-steer Loader

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Stump Grinder
The stump grinder is great at economically removing tree stumps from agricultural settings. Loader-mounted grinders are popular in landscaping and golf course applications.

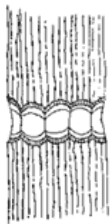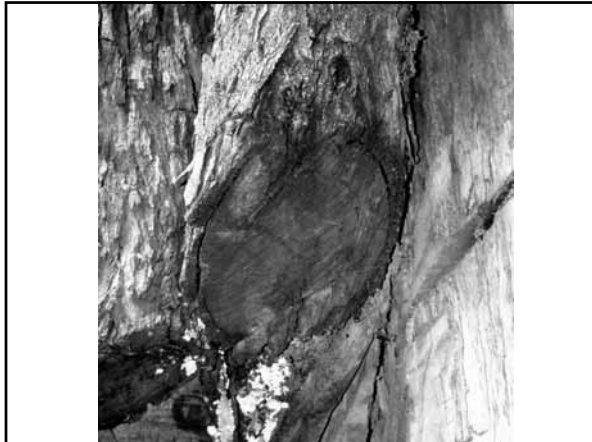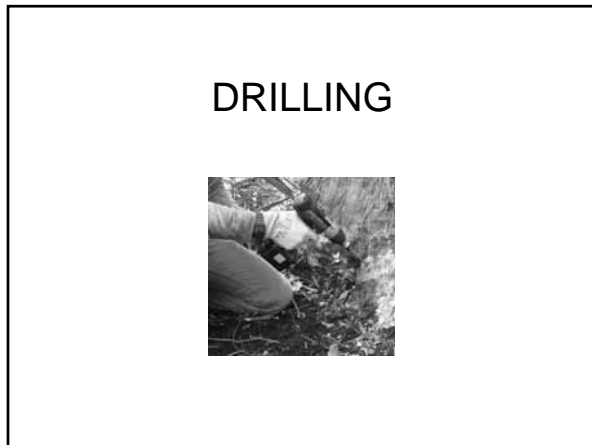GIRDLING

Figure 1   Figure 2

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"The Ringer"

DRILLING

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INJECTION

"E-Z-Ject Lance"

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"Woody 4 Stem Injector"

FRILLING

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"HypoHatchet"

BASAL BARK TREATMENT

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SUMMARY
Option 1: Remove Trees

+	−
■ Removal phase of project can be completed in shortest time	■ Significantly higher cost ■ Increased risk of injury or damage ■ Revegetation often needed, further increasing costs ■ Instant and dramatic visual impact to trigger adverse reaction ■ Potential impact on native species from felling and removing large trees ■ Disturbance regime is triggered, potentially increasing follow-up costs and project duration

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SUMMARY
Option 2: Treat Trees

+	−
■ Lowest cost	■ Long term project
■ Minimal visual impact	■ If trees must be removed later, dead wood is harder to cut
■ Visible change occurs slowly	
■ No stumps	■ In time, possible increase in incidence of falling limbs
■ Minimum ecological impact	
■ Trees remain to provide habitat	
■ No disturbance to alter succession, trigger type conversion, or encourage exotic species	

Planning for the inevitable at the powder works included planting ranks of eucalyptus trees to snag flying debris if one of the mills should explode. A case in point was the 1898 holocaust, above. At Powder Works siding, below, an S.P.C. 2-6-0 points uphill

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