

Control of Vegetation on Dams



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Taylor Lake, July 15, 2004



Taylor Lake, July 2, 2008



Taylor Lake, July 2, 2008



Pine Hollow Reservoir, June 9, 2004



Pine Hollow Reservoir, June 9, 2004



Pine Hollow Reservoir, June 9, 2004



Pine Hollow Reservoir, June 6, 2010



Pine Hollow Reservoir, June 6, 2010



Crow Creek Reservoir Emergency Spillway, June 28, 2010



Crow Creek Reservoir Emergency Spillway, June 28, 2010



Crow Creek Reservoir Emergency Spillway, November, 2011



Camp Baldwin, August 26, 2004



Camp Baldwin, November 6, 2011



Leafy spurge



Scotch broom



Manual brush treatments

Re-sprouting hardwoods



Low Volume Foliar Application



Boomless Nozzles 187 FL (30 – 40 GPA)



Handgun With Boomless Nozzle 140R



Broadleaf weed and brush treatments

Goals and objectives drive treatment

□ **Selective vegetation management**

- Effective broad-spectrum broadleaf weed and woody plants control while promoting establishment of competitive grasses
- Reduces soil erosion and improves water quality
- Prevents or reduces spread of invasive/noxious weeds along transportation corridors
- Helps protect adjacent natural resources and timber investment
- Chemical pruning of trees along roadsides improves line-of-sight
- Use in riparian seasonally dry wetlands

Broadleaf weed and brush treatments

Selective control prescriptions

- Garlon 4 Ultra or Garlon 3A @ 1- 4 qt/a
 - Add Opensight @ 3.3 oz/a or Milestone @ 7 oz/a
 - Improve spectrum of activity
 - Residual broadleaf weed and seedling broom control
 - Add 2,4-D @ 2 - 4 qt/a
 - Add Escort @ 1-2 oz/acre
- Capstone @ 4-8 qt/a
 - Non-volatile option that can be used adjacent to water
 - Rates above 9 pt/a limited to spot treatments
 - Add Escort @ 1 oz/a
- Crossbow @ 1-2 gal/acre

Add a surfactant at 1-2 qt/100 (NIS, MSO...)

WTC vs. EPA Buffers

salmon supporting waters

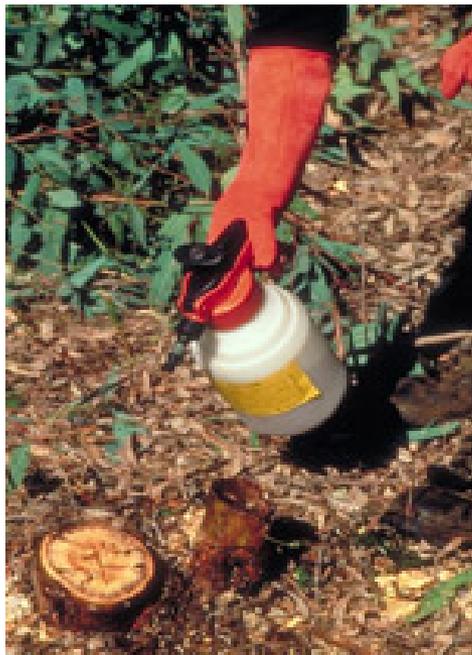
- ❑ **Triclopyr esters – Biological Opinion Complete**
 - **Buffers no longer required**
 - Garlon 4 Ultra, Element 4, Crossbow, many others...
 - Broadcast foliar
 - ❑ Ground 60 feet
 - ❑ Air 300 feet
 - Individual plant treatments
 - ❑ Basal, cut stump
 - ❑ **1 yard buffer**
- ❑ **Triclopyr amine formulations – buffers**
 - **Buffers do not apply.** Use per label directions or state regulations
 - Garlon 3A, Element 3A, Milestone VM Plus, others
 - Triclopyr amine (Garlon 3A, others) approved for aquatic uses

Selective Brush Control with Garlon 4 Ultra + Opensight - Grasses/Forbs Preserved



Individual Plant Treatments

Basal, Cut Stump, Hack & Squirt, Foliar IPT treatments



Individual Plant Treatments

Cut Stump

- ❑ Trees too large for basal application
- ❑ **Water soluble herbicide** is applied to the exposed cambium layer
- ❑ Treat **immediately to < 30 minutes** after cutting:
 - Cut the stump (level) leaving roughly 3 to 6 inch stump
 - Remove sawdust/debris before treating
 - Spray or paint the freshly cut stumps and stubs with or 50% - 100% herbicide concentrations in water using Garlon 3A, Capstone, Rodeo, Accord or Tordon 101M
 - Cambium area next to the bark is the most vital area
 - Treatment **must** include any bark tear or wound areas

Individual Plant Treatments – Cut Stump

Garlon 3A, Capstone, Rodeo



Individual Plant Treatments

Basal Bark Application

- ❑ Very effective treatment
- ❑ Basal bark applications are made any time of year
- ❑ Used often during the dormant season to prevent “brownout”
- ❑ Herbicide penetrates the bark and moves in the phloem/xylem of the plant
- ❑ Generally applied using an oil or oil/water carrier





LOW-VOLUME BASAL

Low volume basal coverage



Opensight @ 3.3 oz/acre - Jefferson, OR

Applied November 2009 Evaluation May 2010



Thank You
