



Best Management Practices Water Bars and Rolling Dips

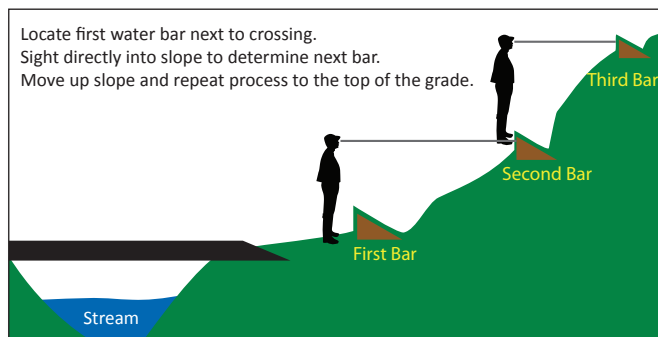
Examples

Forestry Topic 45

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Proper closeout of haul roads and skid trails may require water bars and or rolling dips. Use this fact sheet to assist in the installation.



Water Bars



Caption

- ◆ Use rolling dips on roads with steeper grades (above 12%) and broad-based dips on lower grades.
- ◆ About 50 feet of road is needed to install a proper dip.
- ◆ Road should be reverse graded and rounded over to facilitate traffic.

- ◆ Water bars should be installed at an angle of 30 to 45 degrees.
- ◆ Water bar should cross the entire road or trail, and the outlet should be open and extend beyond the road or trail.
- ◆ **Water bars are NOT dams, they are designed to intercept and divert water.**

Road Grade	Distance Between Bars
2 %	250 ft.
5 %	135 ft.
10 %	80 ft.
15 %	60 ft.
20 %	45 ft.
30 %	35 ft.

Use rolling dips on roads that are to remain open and in use.



Broad-Based Dip



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