

Forest Fertility Field Day

Forest fertility is currently one of the hottest issues in forest science. We are constantly learning more about forest fertility and its relationship to forest growth and health.

Forest Fertility Field Day will start indoors with UI Forest Tree Nutrition Cooperative staff orienting the group to the current state of knowledge regarding forest fertility, growth and health. An overview of current research on geology and its apparent effects on forest nutritional status will also be introduced. The program concludes with a field trip where participants will see forest health conditions in the field, and view first hand some of the relationships between forest health and underlying geology.

Course Outline

8:00 am Registration

8:15 am Welcome

Concepts of Forest Nutrition

8:40 am Nutrient Status and Relationships to Forest Health: Jim Moore, Director, Forest Tree Nutrition Cooperative (Bonner's Ferry) OR Peter Mika, Data Analyst, Forest Tree Nutrition Cooperative (Orofino)

9:00 am Nutritional Ecology of Tree Species: Terry Shaw, Research Associate/ Field Coordinator. Forest Tree Nutrition Cooperative

Evaluating Forest Sites for Nutritional Status

9:20 am Geology, Soil, Vegetation and Forest Structure Factors: Mariann Garrison, Forest Tree Nutrition Cooperative

10:00 am Cultural Practices to Enhance Forest Nutrition: Jim Moore (Bonner's Ferry) OR Mariann Garrison (Orofino)

10:20 am Break

Nutritional Management

10:40 am Fertilization Trials - Results and Operational Practices: Peter Mika

11:10 am Fertilizer Application Techniques: Terry Shaw

11:30 am *Depart for Field Trip*

12:30 pm Lunch on Site (bring sack lunch)

4:00 pm Close

Dates and Locations

The Forest Fertility Field Day is offered on the following alternative dates and locations, for your convenience:

Bonnors Ferry

8:00 a.m. to 4:00 p.m.

Saturday, June 28, 1997

UI - Boundary County Extension Office

Orofino

8:00 a.m. to 4:00 p.m.

Saturday, July 12, 1997

UI - Clearwater County Extension Office

Registration

Please return the registration form on the back of this flyer as soon as possible, to assure your place and help us plan. A \$5.00 registration fee includes refreshments and resource materials.

For program questions, contact Chris Schnepf (667-6426) or Randy Brooks (476-4434). For registration questions, contact the Extension office listed on registration form on back of this flyer.

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Chris Schnepf

Area Extension Educator - Forestry

Boundary, Bonner, Kootenai, and Benewah Counties

UI Kootenai County Extension Office

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Forest Geology / Forest Health

Katka Tour Log

Bonner's Ferry, Idaho

Cumulative mileage is shown in the left-hand column, and mileage between points is shown in parenthesis. Starting point for this tour is the Vista point located on County Road 24, approximately 7 miles east of Bonner's Ferry.

- 0.0 (0.0) **Stop 1.** Vista stop overlooking the Kootenai River Valley. Discuss geologic history of the area. See metadiorite/diabase outcrop, and discuss formation and occurrence of sills and dikes.
- 2.5 (2.5) **Stop 2.** Parking on wide spot on left (north) side of road. See glacial till directly across from parking area. See metasediment (Prichard formation) just past parking area. Discuss occurrence of the different parent material types, and discuss forest growth on the different parent materials. Ask participants to observe the change in parent materials and associated stand characteristics as we drive up to the next stop.
- 7.9 (5.4) **Stop 3.** Parking on wide spot on left (north) side of road. Walk back down the road (heading west) and observe stand conditions as we change from metasedimentary to glacial till parent materials.
- 8.9 (1.0) **Stop 4.** Metadiorite outcrop (similar to that at Vista Stop 1). Wrap up discussion of parent materials and possible effects on tree growth in mature stands in this area.
- 10.8 (1.9) **Stop 5.** Turn right on to Forest Road 314, drive up into a young plantation. Observe changes in parent material visible along road cuts and in stand area. Observe differences in stand growth and survival where parent material type changes.

Stop 6. Forest fertilization test area. Observe the tree growth on fertilized and unfertilized portions of this stand. Observe parent material effect. Discuss fertilization and fertilization techniques for non-industrial private land owners.