Root Disease – The Hidden Menace (2-day Workshop)

Hayden, Idaho, July 11-12, 2013

Agenda

DAY 1 (July 11, 2013)

8:30 am – 8:45 am **Welcome and Intro** *(Chris Schnepf)*

8:45 am – 9:30 am **The Hidden Menace – What is it?** *(Dan Miller)*

- Why we call it the Hidden Menace
- Importance
  - Historic roles
  - Ecosystem impacts
  - Growth loss, mortality
- Distribution – where do we find it and why??
  - Site characteristics related to distribution
  - Hazard models to determine expected distribution

9:30 am – 10:00 am **Do You Have It?** How to diagnose and recognize root diseases (*Paul Zambino)*

- Pattern on the landscape
  - Individual trees
  - Major symptoms common to all root diseases
    - Crown symptoms
    - Basal symptoms
    - Symptom progression

10:00 am – 10:15 am **Break and look at samples**

10:15 am- – 10:45 am **Specifics of the Major Root Diseases in Northern Idaho**

- Annosus & Schweinitzii Root Diseases *(Dan Miller)*
  - Signs, symptoms and diagnosis
  - Biology/Life cycle
  - Taxonomy
  - Host Susceptibility

10:45 am – 12:00 am **Specifics of the Major Root Diseases in North Idaho (continued)**

- Armillaria & Tomentosus Root Diseases *(Paul Zambino)*
  - Signs, symptoms and diagnosis
  - Biology/Life cycle
  - Taxonomy
  - Host Susceptibility
- Laminated Root Disease *(Paul Zambino)*
  - Signs, symptoms and diagnosis
  - Biology/Life cycle
  - Taxonomy
  - Host Susceptibility
- What is NOT root disease *(Dan Miller)*

12:00 pm Lunch **Lunch**

Paul:

DAY 1 (July 11, 2013) Continued

12:30 pm – 1:30 pm **How Bad is It?** *(Dan Miller)*

- Relationship to management objectives
- Discuss various survey techniques including aerial photography, belt transects, stump surveys, and line intercept transects
- How to conduct and interpret severity ratings
  - link to potential mortality rates

1:30 pm – 1:50pm **Interactions with Bark Beetles** *(Tom Eckberg)*

2:00 pm –4:30 pm **Field Trip to English Point**

- Focus primarily on identification and patterns of the most common root diseases

5:00 pm **Adjourn**

DAY 2 (July 12, 2013)

8:00 am – 10:30 am **What Can You Do About It?** *(Dan Miller)*

- What works in:
  - Pre-commercial Stands
  - Commercial stands
    - Thinning and Salvage
  - Regeneration Options
  - Special situations
    - Perched water tables,
    - unusual soils conditions
    - frost pockets
- Other management activities
  - Prescribed burning
  - Stump Removal
  - Chemical/fertilizer treatments
- What is your stand prognosis/trajectory?
    - What to expect if you do nothing

10:30 am – 4:30 pm **Field Trip/ Lunch**

- Rose Lake – untreated stands
- Lonesome Creek Horizon timber sale timber sale treatments and impacts

5:00 pm **Adjourn**

Program Speakers

- *Dan Miller*, Forest Pathologist, IDL (contracted)
- *Paul Zambino*, Forest Pathologist, USFS
- *Tom Eckberg*, Forest Entomologist, IDL
- *Chris Schnepf*, UI Extension

- 9 SAF CFE credits
- 13 Idaho Pro-Logger Credits
- 11 ISDA pesticide recertification credits (6 credits 1st day and 5 credits 2nd day)