9:30 AM – PCT Analysis

Eric Turnblom & Jason Cross

- Type I installations are comparing No PCT, Uniform PCT & Best Tree Selected PCT
- Will use Type I stands to understand effects of PCT
- Objective: Describe yield changes
- Large yield differential between what best tree could achieve and what was actually implemented
  - Took derivatives for all variables to calculate optimum values
    - Theoretical global maximums (from the model): Age at PCT is 9 yrs old, Remove 20%
    - Optimum planted ISPA: No PCT – 462, Uniform – 604, Best – 748 ISPA (give max yield
  - Best Tree: Window 7-9 years
  - Thin early, lightly: max yield at 20% removed
• Next steps: Implement in TGDB
• 2 Working Papers
• Repeat in Type III’s? – several expressed much interest in this, since PCTs often conducted in ~1000+ per acre stands

10:30 AM – Sinuosity in Douglas-fir: Potential causes
Pranjal Dwivedi
• Sinuosity denotes the ratio [actual path length / shortest length] (unitless)
• Genetic propensity for sinuous growth
• Can be caused by nutrient deficiencies (Cu, B, Zn, Ca) in some species
• May occur during periods of intensive, fast growth
• Leduc (2011) developed indexes of sinuosity in loblolly: [rectangular area/height] was best
• Can also estimate using destructive methods
• Propose to use vibrational spectroscopy to measure sinuosity
  o NIR or MIR
• Proposed: Type IV – 13-14 yr old trees
  o Looking at genetic gain trials (for genetic component)
  o Also looking at spacing and veg control
  o Could also look at high soil or foliar N
    ▪ SMC Recommendations:
      • Limit scope – it is MS project
      • Have a good research question
        o Better index for quick field assessment?
        o Nutrient balance in foliage?

11:20 AM – Type VI (Late-Rotation Fertilization) update
Kim Littke, Mason Patterson, Eric Turnblom and Jason Cross
• 6 regions: WA & OR East and West, Vancouver Island, Southern BC
• Predominantly Douglas-fir
• 30-50 yr tree age
• ¼ to 1/3 acre plots
• US: 18/20 cooperators submitted stands
• 60 areas with potential stands
• Assigning plots that are not different by KS two sample test at each site
  o Oregon West – Matthew Creek – only site selected so far
  o Oregon East – Middle Fork & Molalla; 2 un-named (Weyerhaeuser)
  o WA West – Railroad Camp; Un-named (Weyerhaeuser)
  o WA East – Un-named (Olympic RM); Nisqually Dog; Conlay Road
• Timeline
  o Installed this year & next year – aim for 30 between 2 years
  o PRS Probes installed & soil sample Spring 2017
  o Still selecting stands
• Bob Feedback: Requesting maps for areas where installations are being installed
  o Keys as well
• If ~70 trees per plot, that’s okay
11:40 AM – Plantation Yield Calculator

- Yield metrics etc. all fit & going into plantation yield calculator
- Trying to optimize solutions for 3 yield metrics simultaneously (basal area, QMD, TPA)
- Been running since Sept 19th – still going, fits looking good, but predictor set still dropping variables
- May look at new, faster fitting algorithm

11:45 – New/Old Business

- Policy advisory meeting – not March 2nd
  - Proposed 2nd or 3rd full week in March
  - Week of 20th? – 23rd of March (prelim consensus)
- Location of Spring Meeting possibilities (currently set for: April 20th)
  - Olympia
  - South Sea-Tac
  - Astoria ← possibilities for field trip with Greenwood (tentative preference)
  - Email membership soon about possibility for field trip, 1 vs 2 day, location preferences
- Type I Harvesting
  - Pushed back from original schedule
  - Response rate not complete for updates
  - 2018 Kitten Knob (711);
  - 2018 Forks Sorting Yard (735) [learned subsequent to meeting]
  - 2019 Mason Lake (not flexible)
  - 2020 Sandy Shore (flexible) - ORM
  - Flexibility of cooperator important for sun-setting sampling
- IRC meeting after SMC Spring Meeting (currently set for: April 20th)
  - Develop study plan for hemlock plots

12:10 – Adjourned