





GreenWood Resources

Global Investment and Asset Management Company for Plantation Forestry and Biomass Feedstock











Workshop
Vancouver, WA
October 15, 2015

Poplar Farms as a Wastewater Management Tool

- Site Preparation
- Multiple rotation operational stand at Lower Columbia Tree Farm (LCTF)
- Prepped for planting
- Alleyways cultivated for new planting bed
- Minimal mechanical work in previous stump row





AHB/IBSS demonstration site

- Plant stock cuttings
- Mississippi location
- Material in back is good quality
- Material in front is reject (too small caliper)





- Whip planting stockButt diameter < 1.3 inches







- Plant stock poles
 Butt diameter 2 3 inches





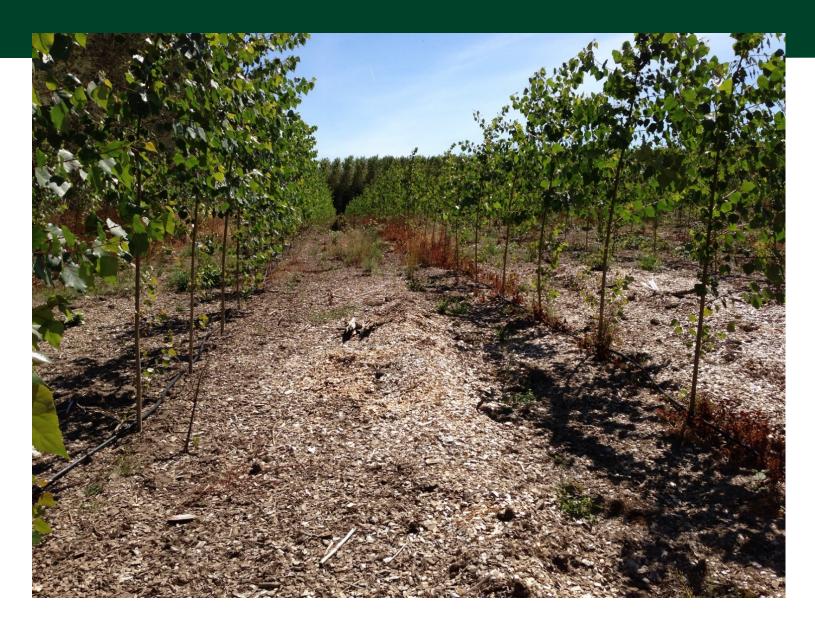
• Two month old cutting with root and shoot development





Riverbend

- Landfill phytoremediation
- August of 2nd growing season
- Whip planting stock
- OP367 Varietal
- Drip Irrigation
- 5.5 feet X 13 feet





Riverbend

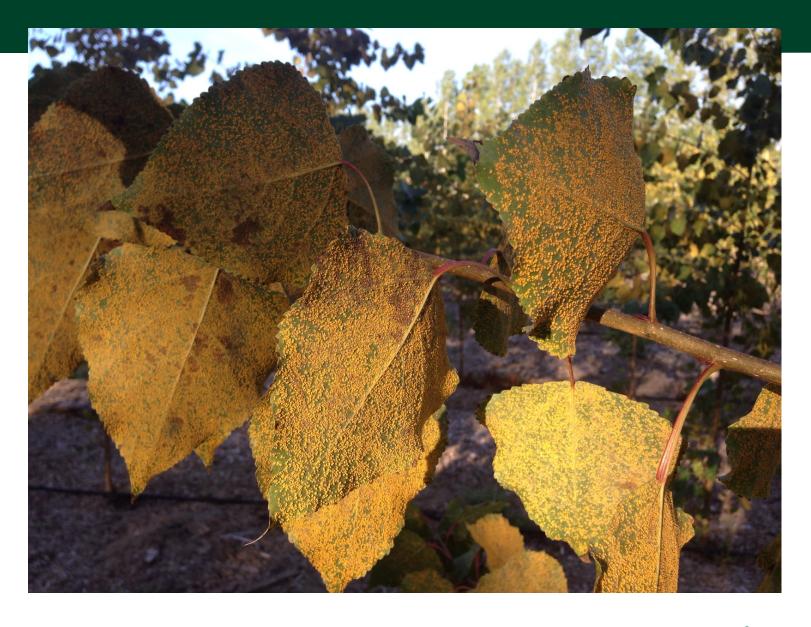
- SEVERE RUST
- September of 2nd growing season
- Whip planting stock
- OP367 Varietal
- Drip Irrigation
- 5.5 feet X 13 feet





Riverbend

• Close up of rust





AHB demonstration site

- August of establishment year
- Proprietary DxM varietal
 High density biofuel planting
 3 feet by 10 feet



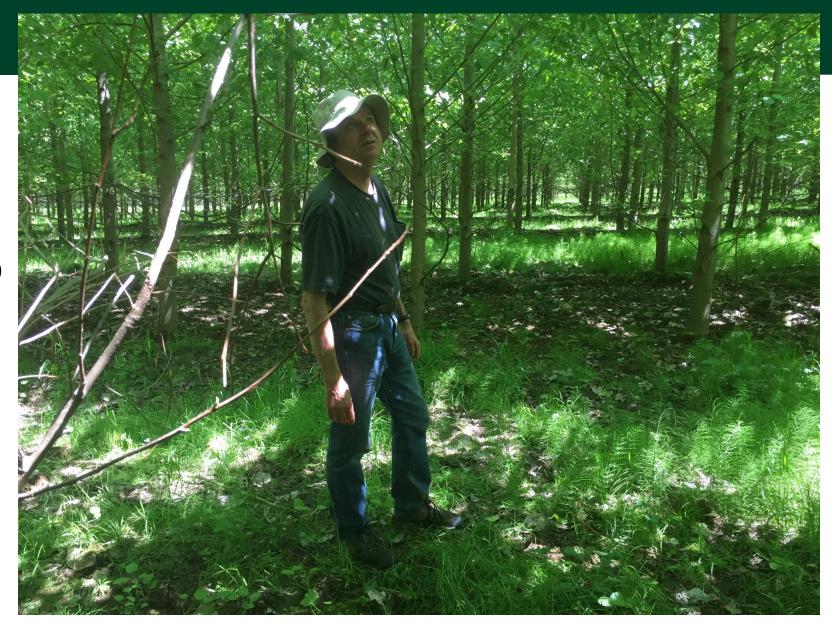




- Operational stand
- Two varietals
- Proprietary *p. generosa* (TxD or DxT) varietals

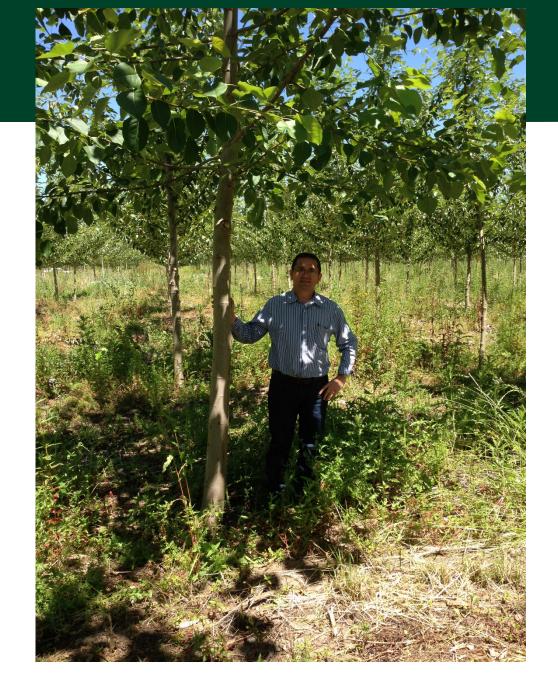


- May of 5th growing season
- Operational stand
 9 feet X 15 feet spacing (equivalent)
- Proprietary DxM varietal





- Municipal wastewater site
- June of third growing season
- 14 feet X 14 feet
- Micro- sprinklers at 28 feet X 28 feet
- Trees have been pruned
- Proprietary DxM varietal



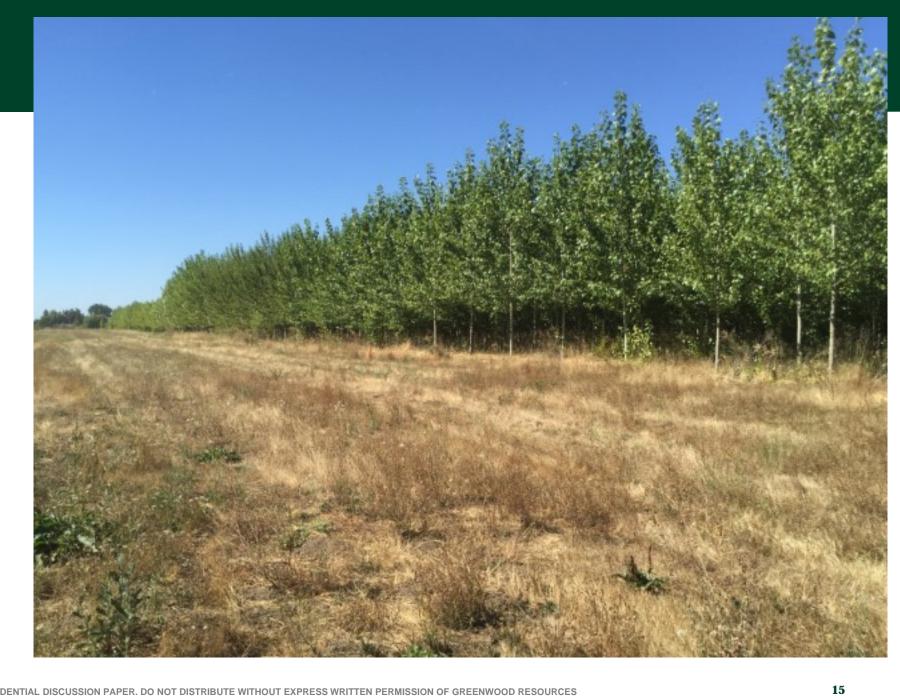


- October of third growing season
- Trees have been pruned again
- Proprietary DxM varietal





- August of 4th growing season
 Multiple varietals



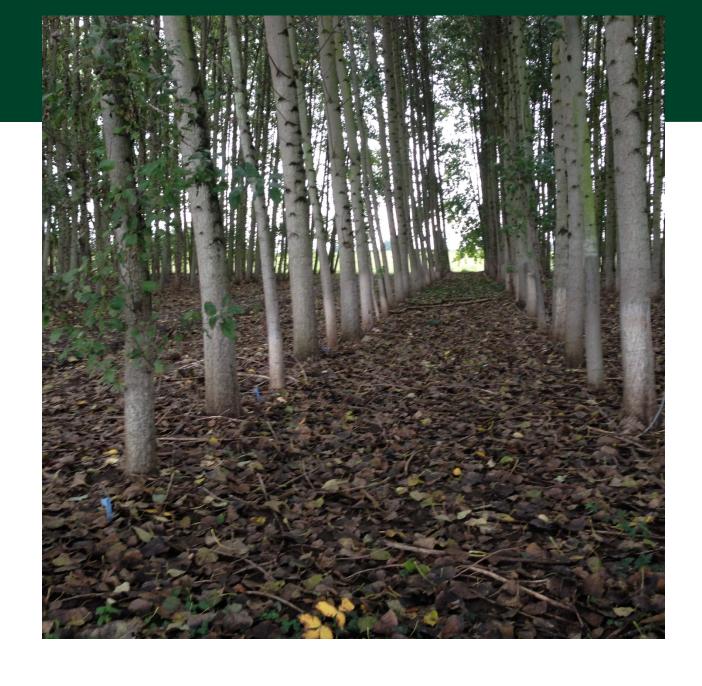


- August of 4th growing season
 Multiple varietals





- Municipal wastewater site
- 14+ year stand
- 6.5 feet X 13 feet
- Stands have differentiated due to high density stocking & stand age
- Micro sprinkler irrigated
- Bio-solid application on portions of poplar plantings
- 52-225 varietal



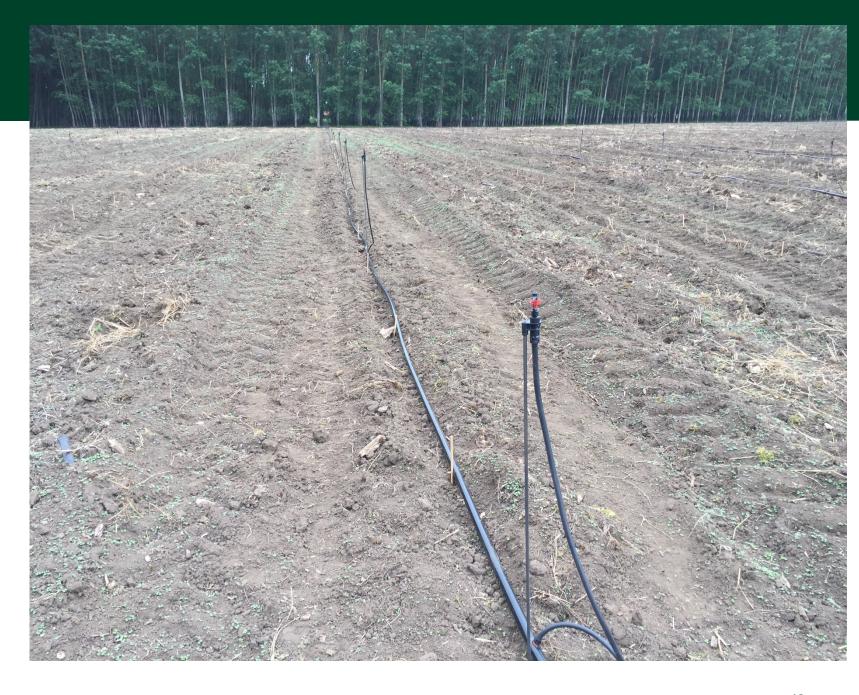


- 14+ year stand
- 6.5 feet X 13 feet
- Stands have differentiated due to high density stocking & stand age
- Micro sprinkler irrigated
- Bio-solid application on portions of poplar plantings
- 15-29 varietal



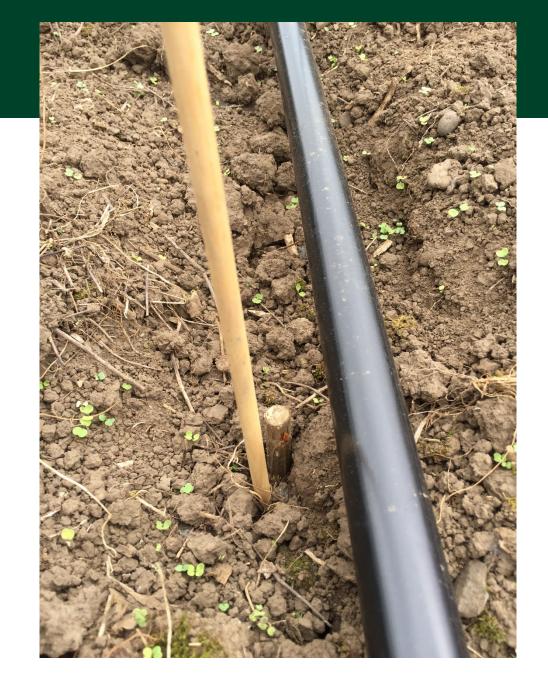


- Disked, tilled, and herbicides applied
- Irrigation system in place and planting locations marked May planting



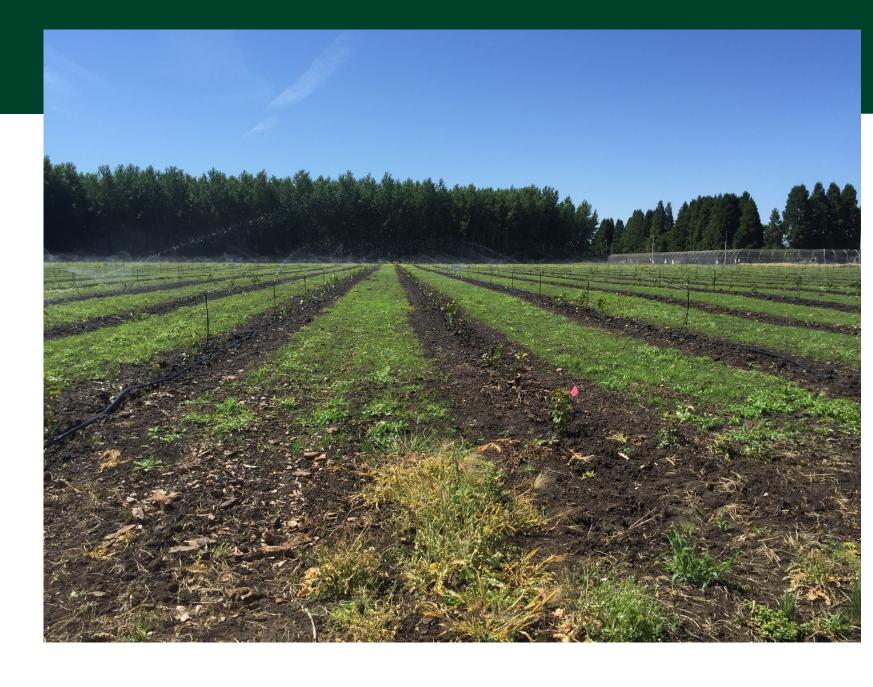


- Newly planted cuttingWeed seeds sproutingMay



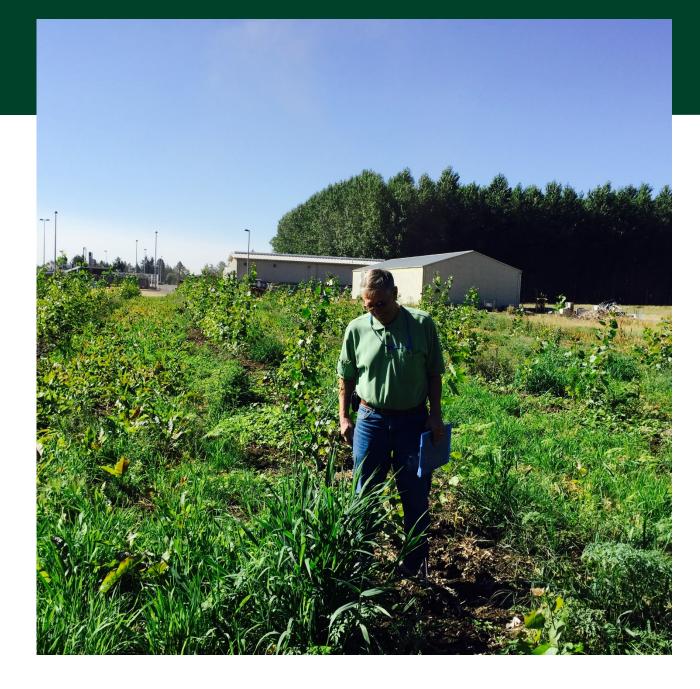


- Establishment yearJuly





- Establishment year
- August





- Establishment year
- August



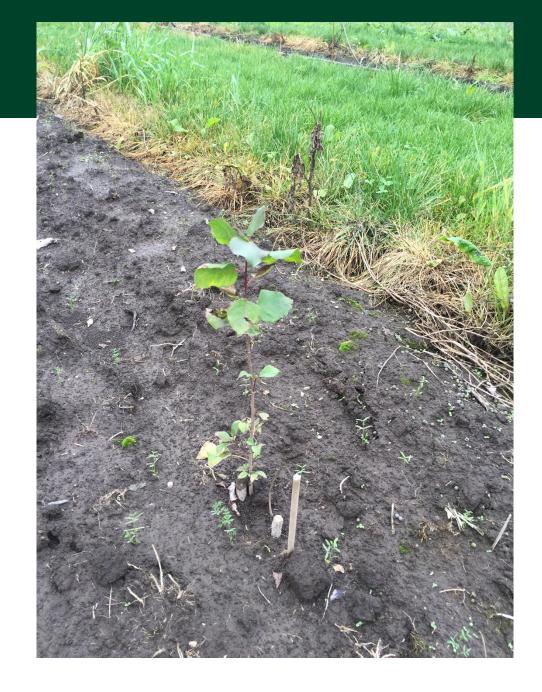


- Establishment yearOctober



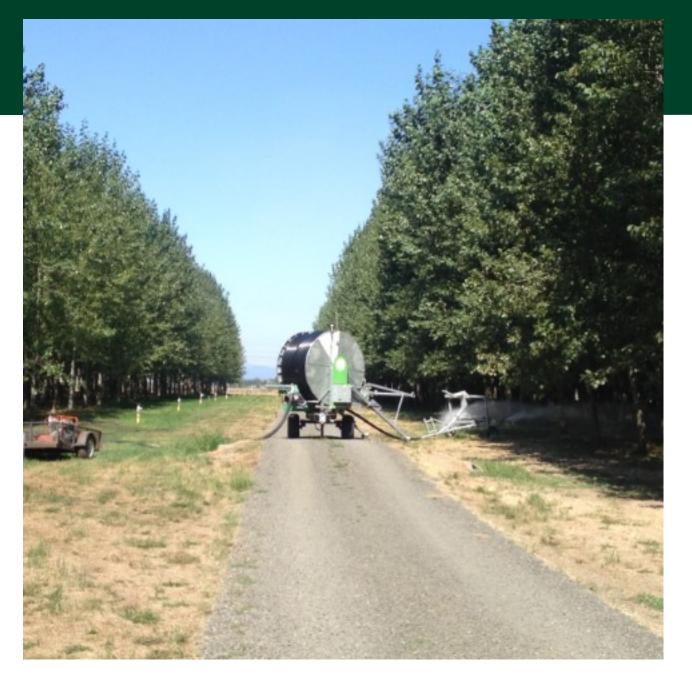


- Replant (July) next to dead original cutting October picture



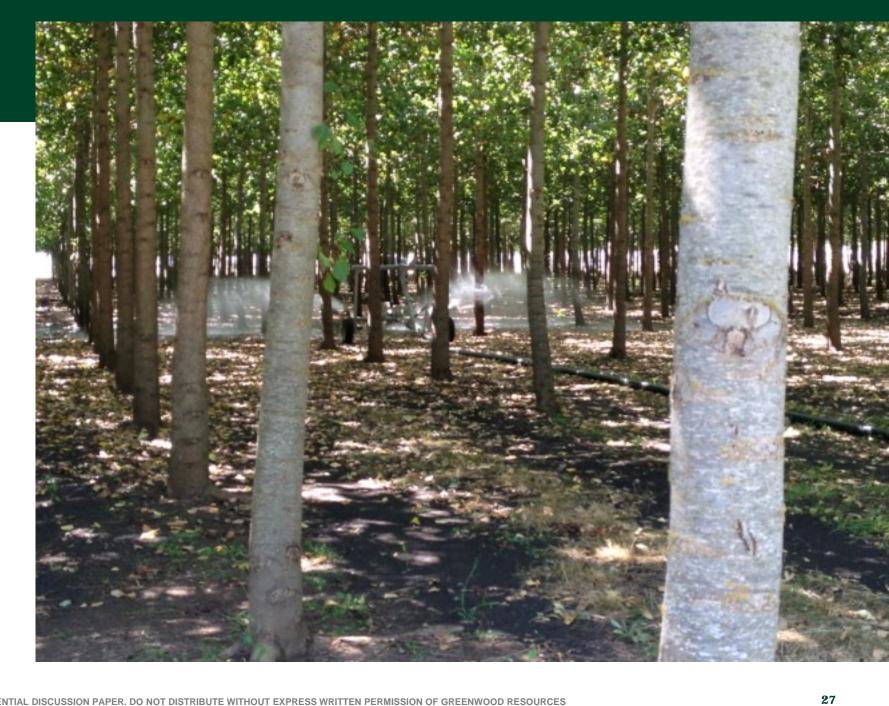


- Gun type irrigation14 feet by 14 feet





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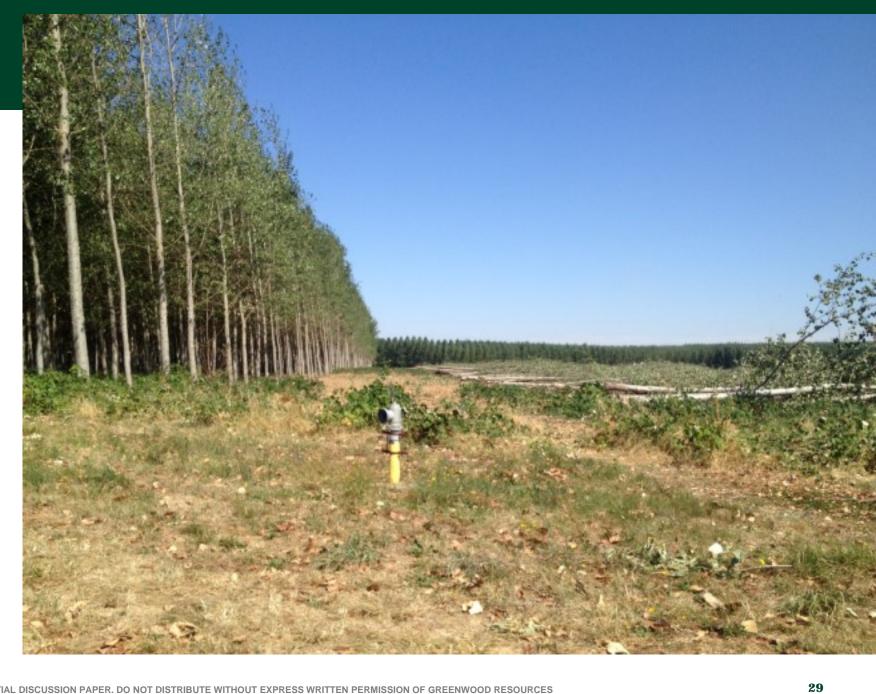


- MWMC
- Near end of 6th growing season





• Harvesting





• Post harvest





- Harvesting 12 year old trees





- Harvesting 12 year old trees





