

List of abstracts received – 2.2.21

- **Reforestation** –status, needs, policies, regeneration methods, reforestation prioritization and barriers, etc.
 - *Laws and Policies Directing Reforestation on National Forest System lands by David Gwaze*
 - *The reforestation chain: what are our weak links? By Dumroese and Balloffet.*
 - *The USDA Forest Service National Seed Laboratory: Supporting Reforestation and Restoration Efforts on National Forests by Victor Vankus, Botanist, S&PF, USDA Forest Service National Seed Laboratory, Dry Branch, GA*
 - *A long-term research-practice partnership leads to successful reforestation in northern California by Zhang et al.*
 - *A proposed protocol for prioritizing national forest seedlogs for reforestation and restoration given concerns of climate change by St.Clair et al.*
 - **Nurseries** – needs and production of quality plant materials (from NFS nurseries for both NFS and non-NFS customers)
 - *Testing the potential of biochar to improve bareroot nursery efficiencies by Page-Dumroese et al.*
 - *Assessing and improving conifer seedling preparation for drought by Godfrey and Pinto*
 - *Nurseries have a critical role in meeting forest restoration goals by Haase*
 - **Genetic Resource Management** – breeding for disease resistance, drought tolerance, seed zones, gene conservation, natural versus artificial regeneration, etc.
 - *Assisted migration and seed movement: applying existing tools and knowledge to a novel problem by Pike and Leites (eastern Region S&P)*
 - *The future forest: developing drought tolerant and disease resistant seedlings by Waring et al.*
 - *Developing an assisted migration plan for the uperior NaitonalForest by Handler et al., Frerker, Theimer, Miller*
 - *Poster: Using disease resistance breeding and silviculture to ensure a diverse, healthy forest for the future by Sniezko and Darbyshire*

- **Site Selection** – Landscape, stand, microsite to favor success in a changing climate and disturbance regimes
 - *Dominant and Co-Dominant Oak Saplings in Young Even-Age Stands: What Pre-Harvest Attributes and Conditions Contributed to their Success? By Brose et al.*
 - *REGEN MAPPER: A web-based tool for predicting post-fire conifer regeneration and prioritizing reforestation efforts in the Western United States by Zachary A. Holden et al.*
 - *Modeling historical and future potential land surface temperature as a tool for improving post-disturbance reforestation decisions on western U.S. Forests by Holden et al.*
 - *RNGR: A national resource for forest seedling production and outplanting programs by Haase et al.*
 - *Poster: Short Term Effects from Late-Season Freeze on White Oak (Quercus alba L.) Acorn Production in the Southeastern Coastal Plain.*

- **Site Condition** – managing the factors that facilitate or retard reforestation establishment such as microsites, shelter, seed/coppice availability, competing vegetation, animal damage, etc.
 - *Effects of logging-debris removal, vegetation control, and site quality on stand characteristics of coast Douglas-fir by Slesak and Harrington*
 - *Adaptive management of floodplain ecosystems along the Upper Mississippi River to invasive species and climate change by Windmuller-Campion et al.*
 - *Seven-year response of planted northern red oak (Quercus rubra) seedlings to regeneration harvests, burning, and herbicide treatments in western North Carolina by Clark et al.*

- **Planting** - arrangement, density, and composition (NEED abstracts)
 - *Establishing replacement tree species in black ash forests threatened by emerald ash borer and climate change by Palik et al.*

- **Afforestation opportunities or challenges on NFS lands – (FILLED)**
 - *The Influence of Hydroclimate and Harvest Method on Rates of Forest Regrowth across the Western U.S by Holyman et al*
 - *Regeneration of ‘iliahī: hemiparasitic relationships in Hawaiian tropical dry forests by Thyroff et al.*
 - *Effects of flooding on survival and performance of potential replacement species in black ash swamp hardwood forests by Gwendolen Keller et al.*

- **Early stand improvement** - status, needs, policies, methods, creating diverse structures, etc. (Need abstracts)
 - **Climate change and disturbances** –early stand improvement for climate change resilience.
 - **Genetic resource management** – considerations related to crop tree identification (Need Abstracts)
 - **Long-term effects from early release**
 - *Evaluating long-term seedling growth across densities using Nelder plots and FVS in the Black Hills, South Dakota, USA by Michael Battaglia*
 - **Alternative methods** to introduce compositional or structural diversity to meet non-timber objectives. (**FILLED**)
 - *Early stand improvement for multiple benefits using Adaptive Complexity Thinning in the Northern Rocky Mountains by Larson et al.*
 - *Smoke, Goats, and Oaks: The effects of targeted goat browsing and prescribed fire on woodland composition, structure, and fuel loading in Ozark Hardwood Ecosystems by Beebe et al.*
 - *Crop Tree Release: An Alternative Tending Method for Young Plantations in Northern Rocky Mountain Mixed-Conifer Forests by Berendzen, Jain and Byrne*
 - *Poster Title: Transitioning from even-aged to multi-aged forest structure in second-growth ponderosa pine by Shelagh Fox (NFS), Cheri Hartless (NFS), Sharon Hood (R&D), Justin Crotteau (R&D)*
 - *Adapting Gingrich Stocking Guides for Managing Oak Woodlands and Savannas by John M. Kabrick et al.*
 - *Regenerating and tending under the vision for resilience and function in the free selection system by Crotteau and Jain*
- **Terminology** – thinning, release, weeding, etc.