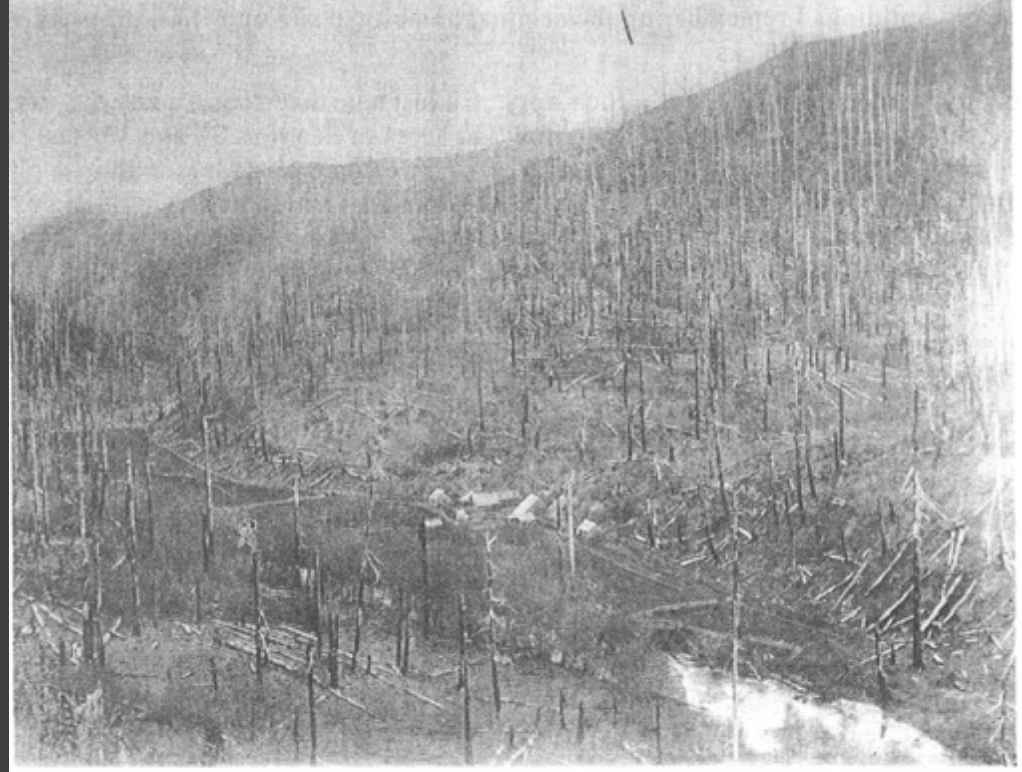


Photocopy of a print given to author in 1955 by Glae Gould, who was a grandson of the family who were the settlers of the Elkhorn Ranch. Photo is about 1890.
Location: Section 26, T23S RI I W, on the West Fork Millicoma River.

Research Framework at ESRF

The next century

OSU College of Forestry Exploratory Committee

- **Katy Kavanagh** – Associate Dean of Research
- **Matt Betts** – Landscape ecologist (emphasis on biodiversity)
- **Ashley D'Antonio** – Recreational ecologist (managing environmental consequences of nature-based recreation)
- **Shannon Murray** – College of Forestry (Continuing Education Program Coordinator)
- **Klaus Peuttmann**- Silviculture (focus on forest ecology)
- **Meg Krawchuk** – Landscape ecologist (fire & conservation science)
- **John Sessions** –Forest Engineer (Forest Operations Planning & Management)
- **Ben Leshchinsky** – Geotechnical engineer with a focus on forest road design, hydrologic process, landslides, slope stability
- **Jenniffer Bakke** – Wildlife Biologist (Environmental services manager with Hancock Natural Resource Group)

Exploratory Committee

- **Goal:** To maximize participation and dialogue in the College around the feasibility and opportunity for establishing an Elliott State Research Forest.
  - Objective 1: Identify what a world-class research program at the forest would include.
  - Objective 2: Collaboratively develop the vision and goals that would position the Elliott State Research Forest to serve as a world-leading source of scientific knowledge and discovery in advancing forest management and conservation.

Guiding Principles

- **Research**: Advance and sustain transformational research
- **Enduring:** Remain relevant across many years, generations, and social, economic and environmental contexts
- **At Scale**: Leverage the unique opportunity the forest offers for experiments at large spatial and long temporal scales.
- **Tailored to the Landscape:** will be tailored to the Elliott based on existing biological, physical, social, and economic conditions.
- **Practical, Relevant, and Collaborative**: Programs conducted on the forest must be relevant to forestry issues and challenges

Overarching Research Theme

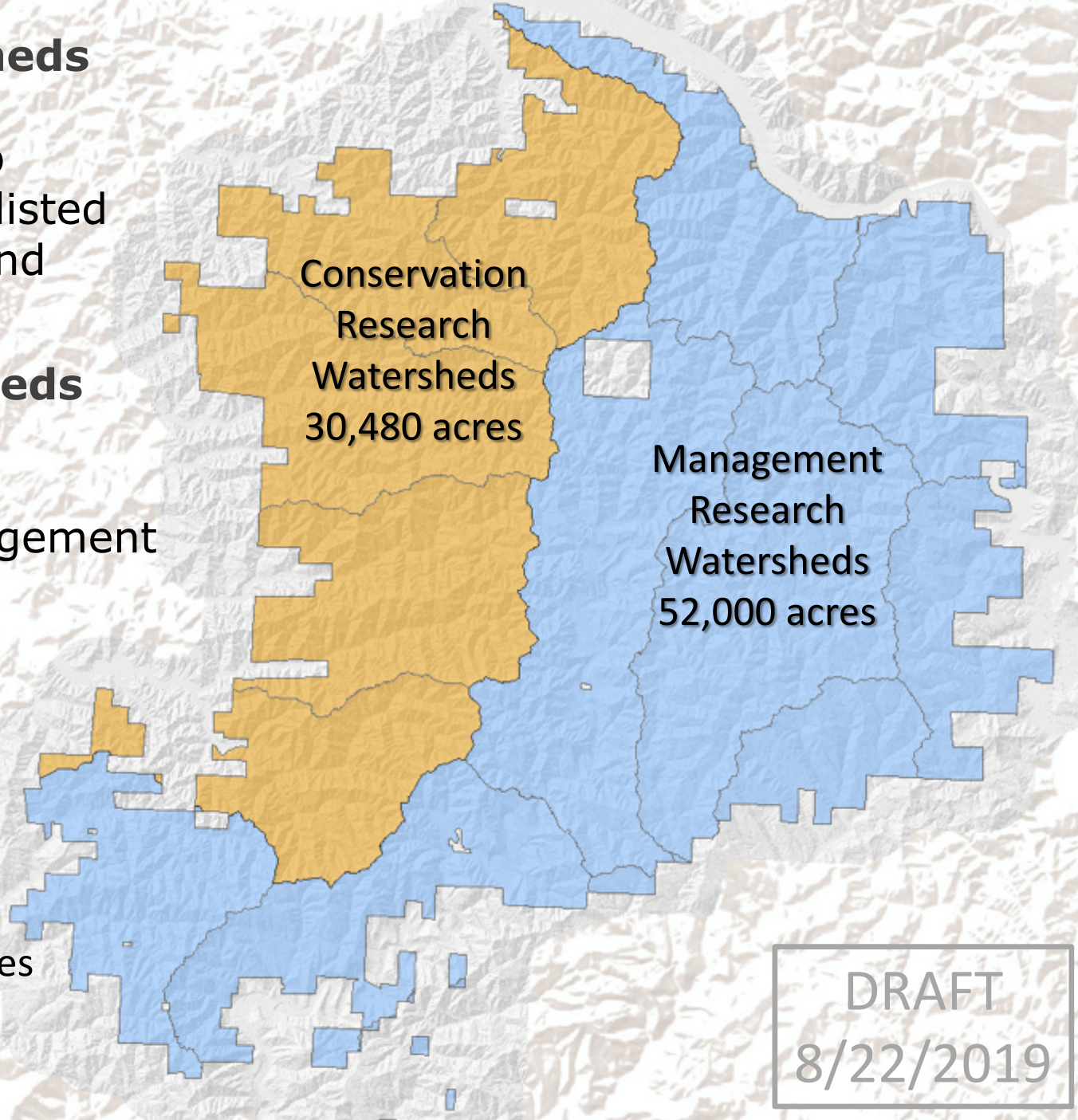
- **Systems-level understanding of synergies and tradeoffs for conservation, production, and livelihood objectives on a forested landscape within a changing world.**

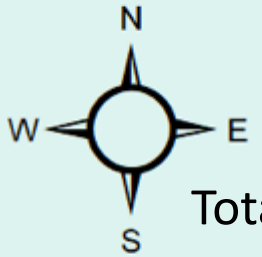
Conservation Research Watersheds

- Protected areas designated to prioritize the conservation of listed species and their terrestrial and aquatic habitats.

Management Research Watersheds

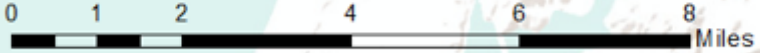
- 46 sub watersheds
- Replications of the four management treatments





Total Analysis Area = 82,480 acres

DSL Lands Only

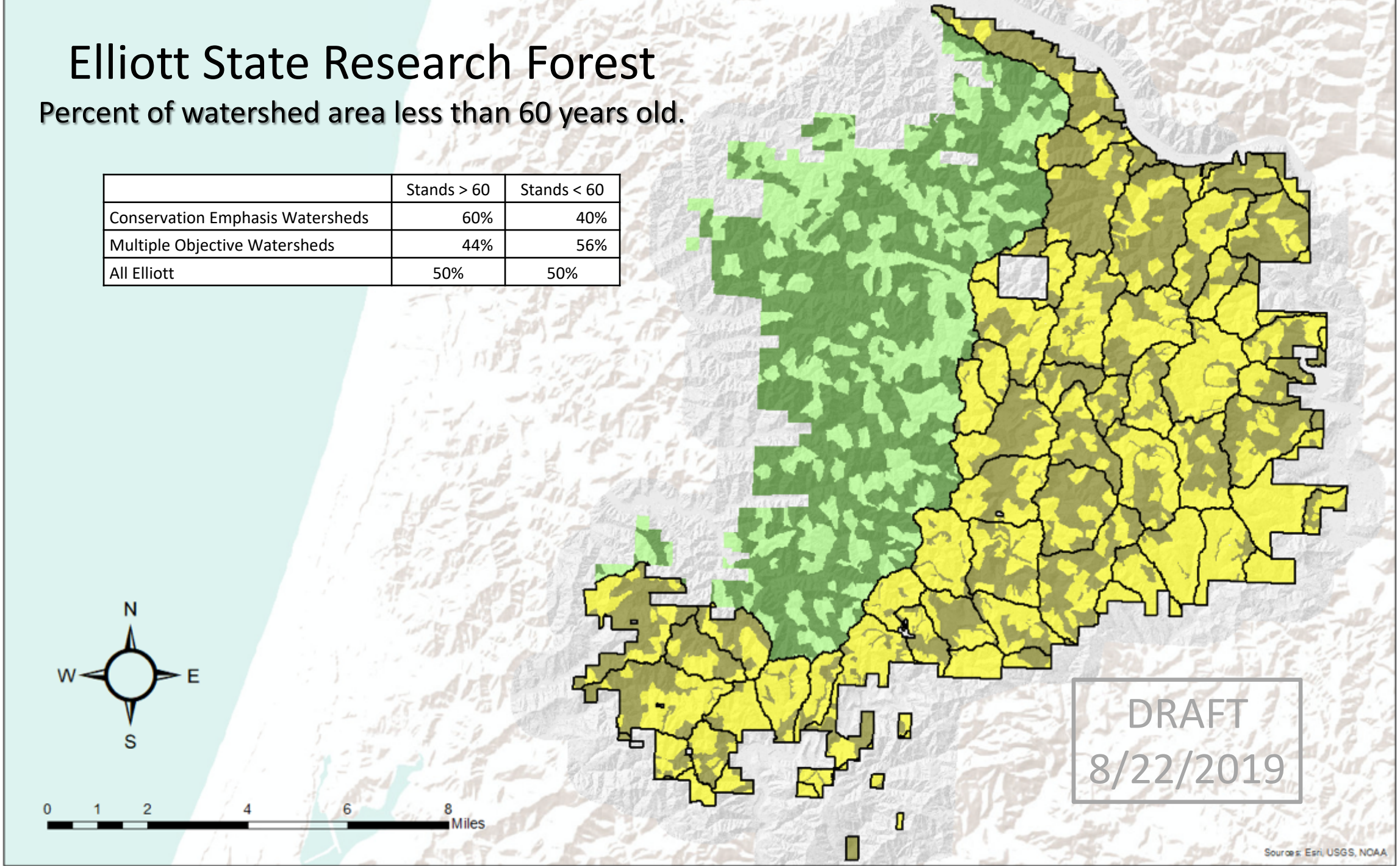


DRAFT
8/22/2019

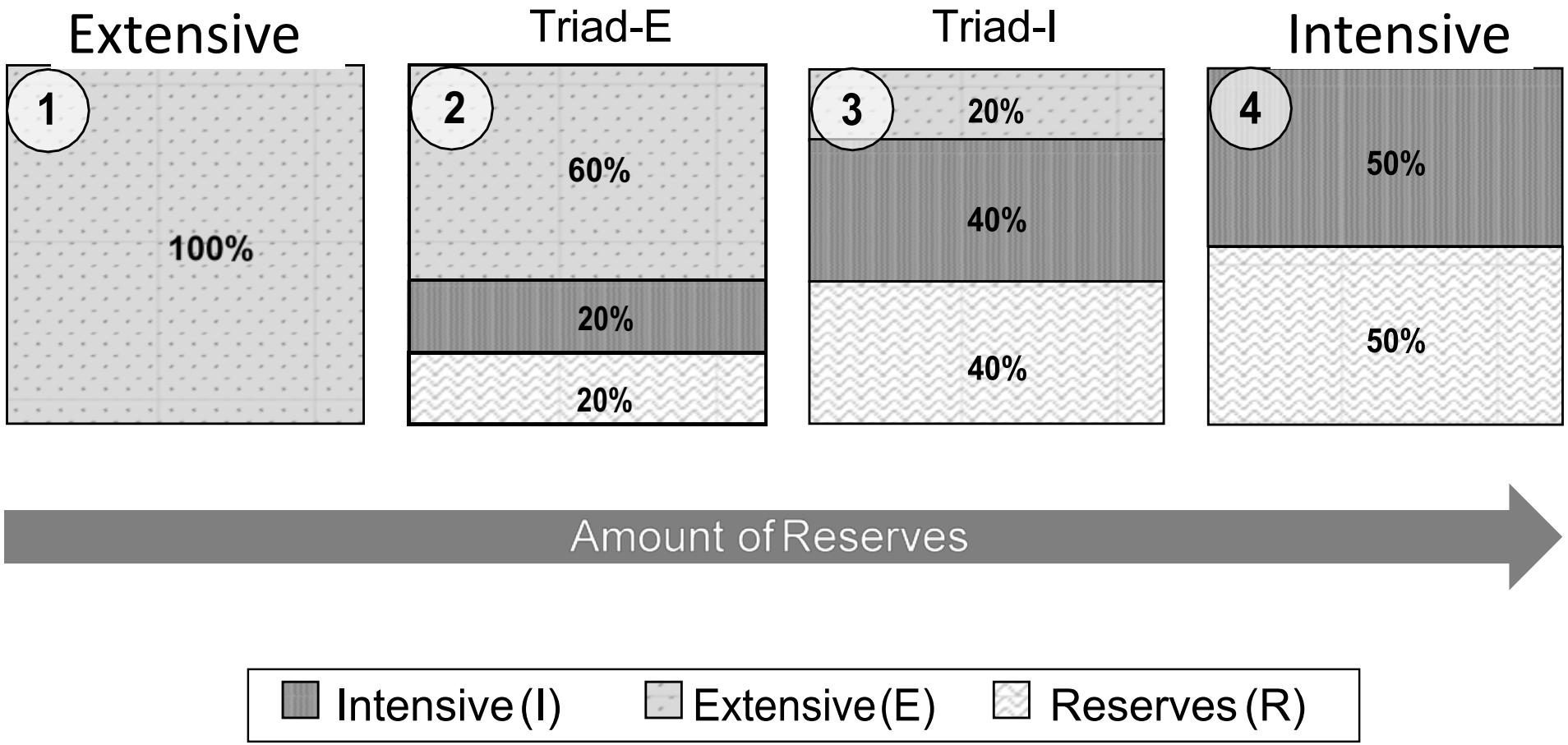
Elliott State Research Forest

Percent of watershed area less than 60 years old.

	Stands > 60	Stands < 60
Conservation Emphasis Watersheds	60%	40%
Multiple Objective Watersheds	44%	56%
All Elliott	50%	50%



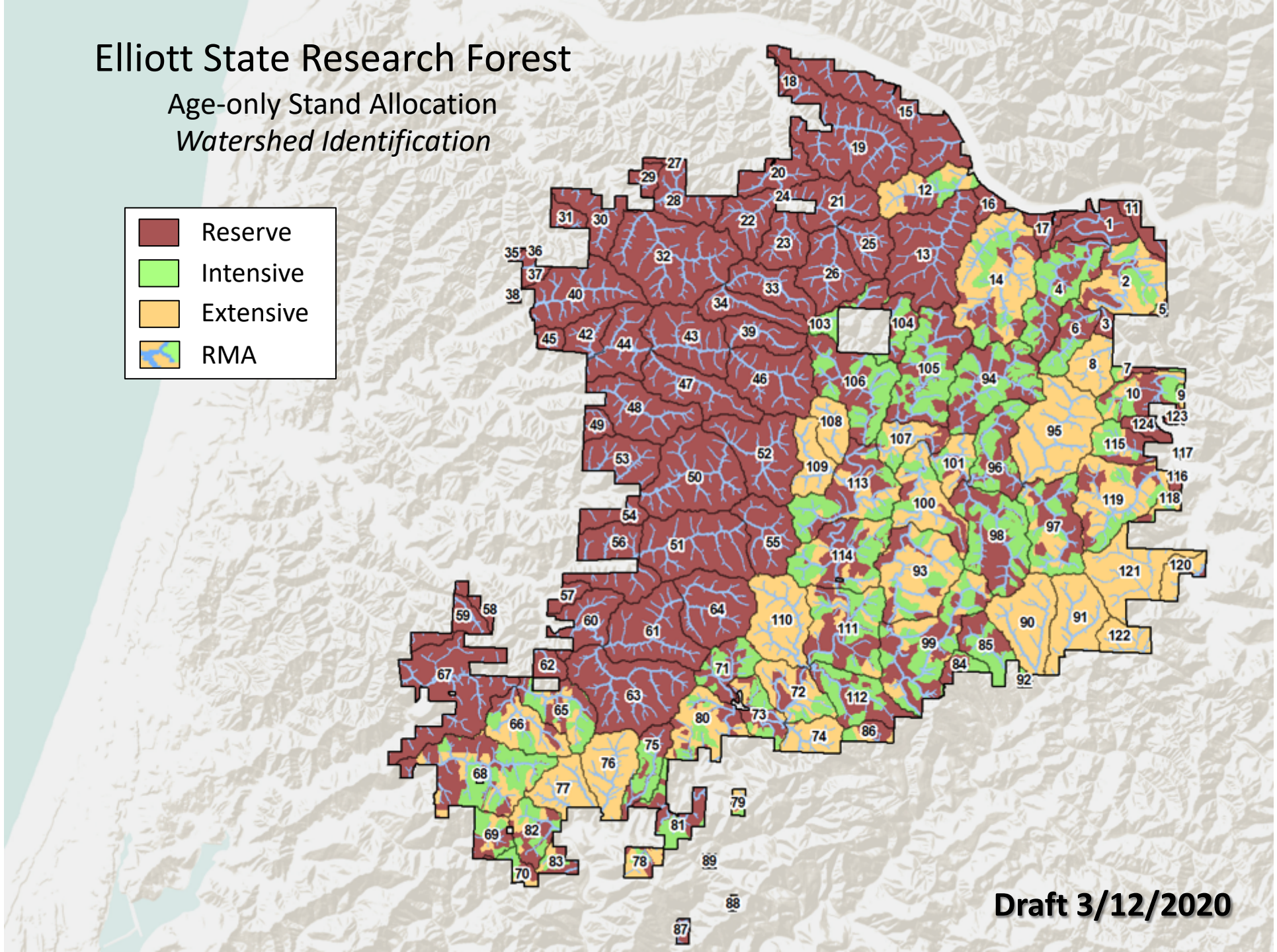
The triad design is a triangle with its endpoints being reserve, intensive and extensive stand management practices applied in varying proportions to individual sub watersheds (400-2000ac).

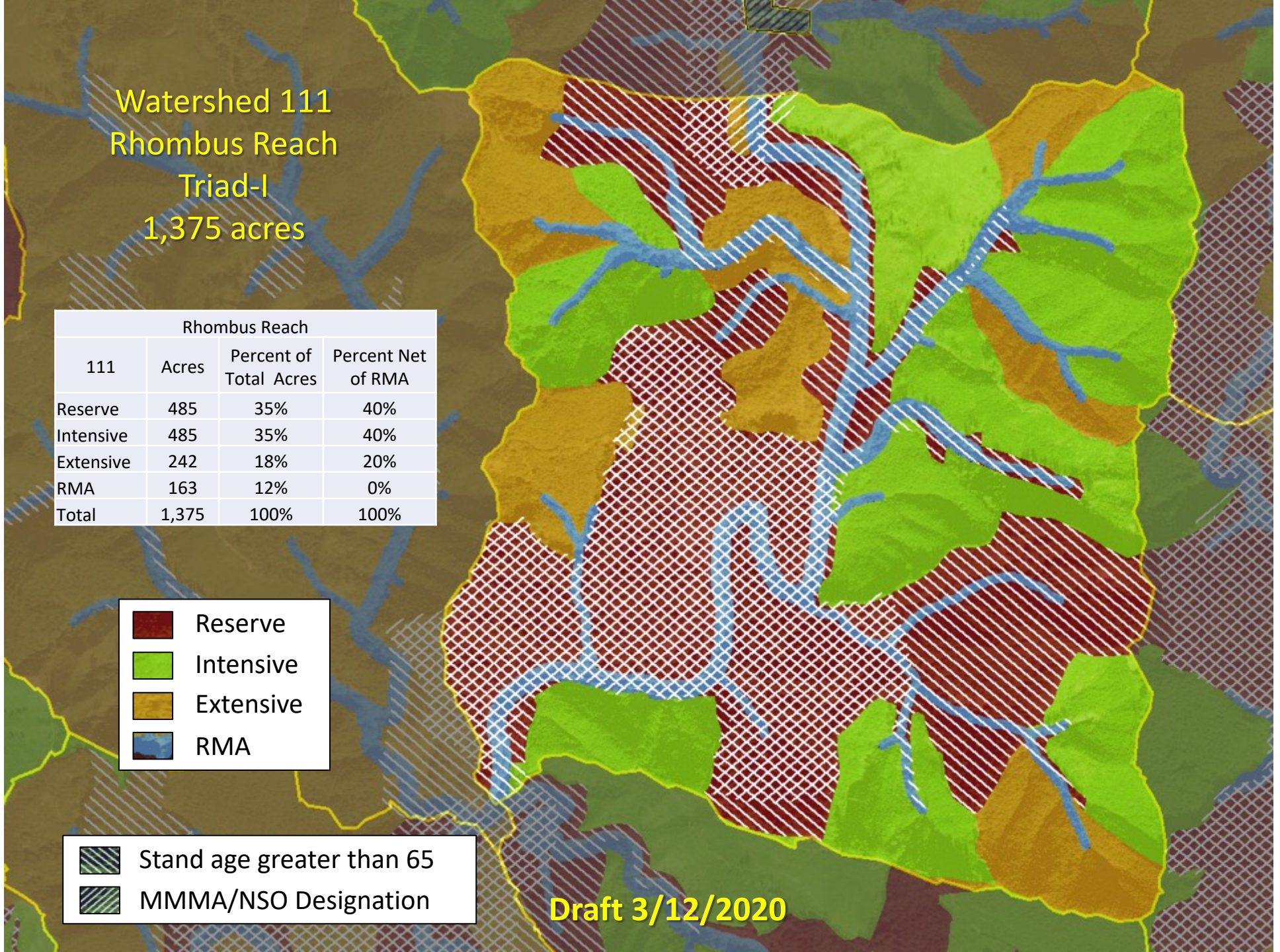


Elliott State Research Forest

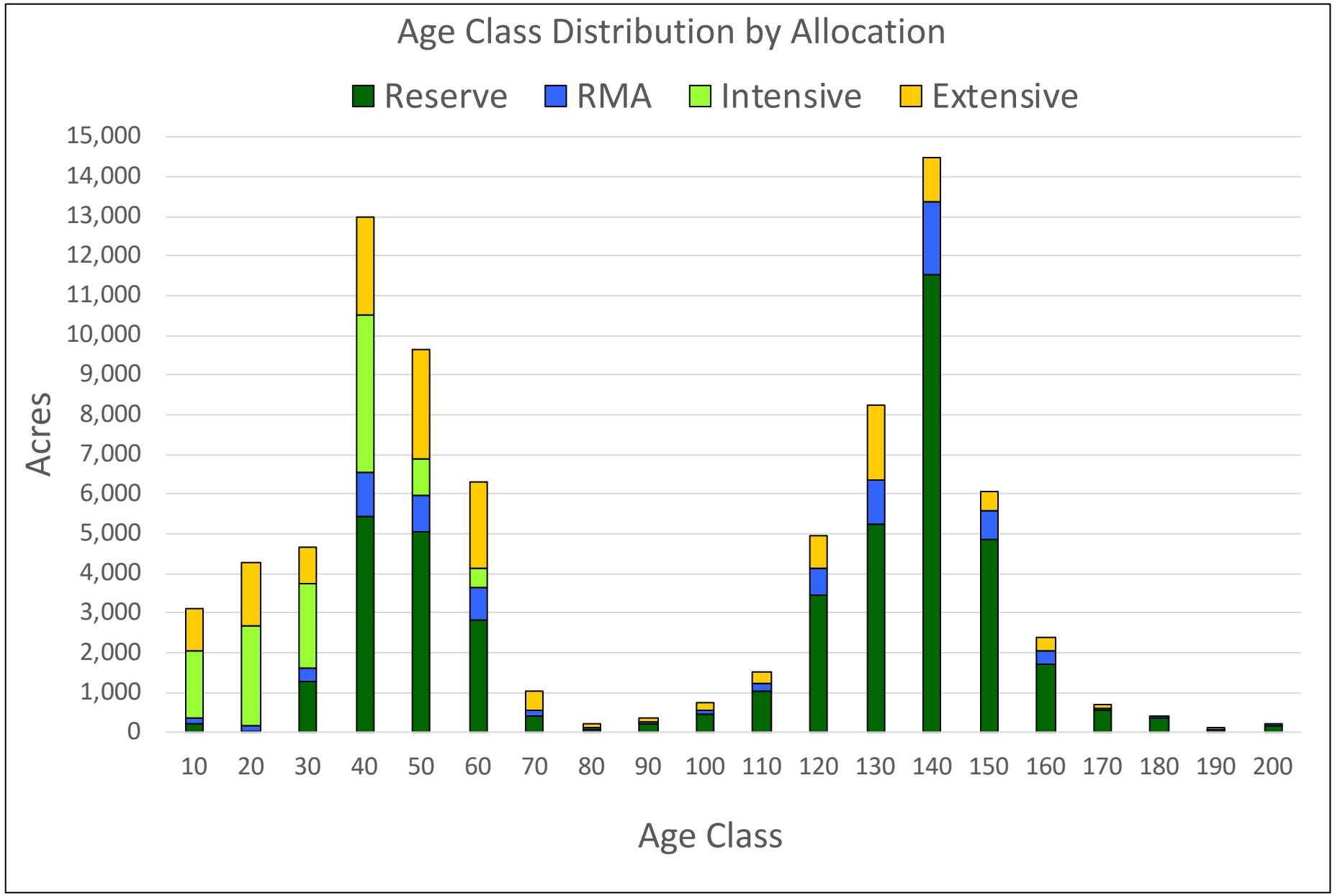
Age-only Stand Allocation

Watershed Identification





Rhombus Reach			
111	Acres	Percent of Total Acres	Percent Net of RMA
Reserve	485	35%	40%
Intensive	485	35%	40%
Extensive	242	18%	20%
RMA	163	12%	0%
Total	1,375	100%	100%



Draft 3/18/2020

Using this framework the fundamental aspiration for an ESRF is to:

- have an experimental framework that is broadly applicable,
- capable of testing basic knowledge,
- answering why and how,
- be based on experimentation,
- developing and deploying solutions
- all while maintaining the capability of addressing the current and next generation of forest-related research and policy questions.

Ortwig et al 2018. Eastern Hemlock