

Forest Management Strategies for the Future

SUNY ESF Forest Properties

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SUNY ESF & The Ranger School



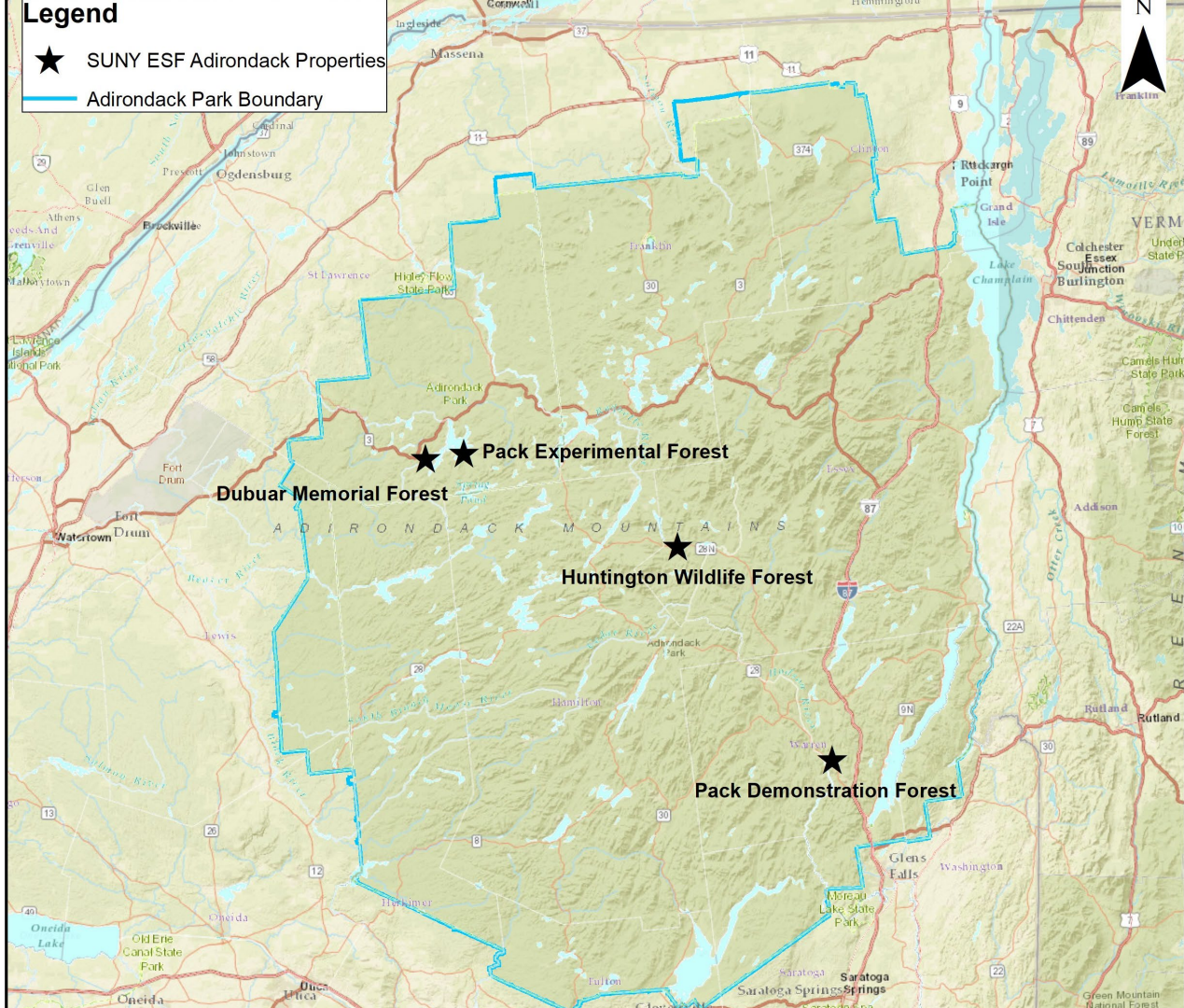
Syracuse, NY

- Founded in 1911 as the New York State College of Forestry at Syracuse University
- ESF is one of the nation's premier colleges focused on the study of the environment, developing renewable technologies, and building a sustainable future. We work to address the Earth's most pressing problems — and students come here because they want to be part of the solution.
- 27 undergraduate programs and 54 graduate areas



Wanakena, NY

- Established in 1912
- Students come to the Ranger School to pursue an associate degree in Environmental and Natural Resources Conservation, Forest Technology, or Land Surveying Technology. While here, they engage in hands-on learning in the 2,800-acre forest that is part of ESF's campus in the Adirondacks.
- Field based education



SUNY ESF Adirondack Properties – 20,000 acres



These are working forests – Managed for teaching, research, and demonstration

Traditional Management Techniques





2011



2021







New management strategies



Managing for biodiversity & complexity



Hemlock Management



Climate Adaptive Management

- Resistance, Resilience, Transition
- Managing for "the winners"



CLIMATE CHANGE CAPABILITY TABLE.
Capability is a rating of the species' ability to cope or persist with climate change. Species are organized into poor, fair, good, and mixed capability ratings. Species with new suitable habitat or low model reliability are excluded from this table. See the Tree Species Projections table legend on the following page for more information on ratings.

NOTE: Capability rating may not reflect severe forest health issues (e.g., emerald ash borer).

POOR CAPABILITY

Balsam fir	Northern white-cedar
Balsam poplar	Pitch pine
Black ash	Red pine
Black spruce	Striped maple
Bur oak	Tamarack (native)

FAIR CAPABILITY

Eastern hemlock	Sweet birch
Eastern white pine	White ash
Jack pine	White spruce
Red spruce	Yellow birch
Shagbark hickory	

GOOD CAPABILITY

American basswood	Mockernut hickory
American beech	Northern pin oak
American holly	Northern red oak
Bigtooth aspen	Post oak
Black cherry	Quaking aspen
Black oak	Red maple
Blackgum	Sugar maple
Chestnut oak	Sweetgum
Eastern redcedar	White oak
Hackberry	Yellow-poplar

MIXED CAPABILITY

American elm	Pignut hickory
Flowering dogwood	Scarlet oak
Paper birch	

Assisted migration plantings







Prescribed Fire

Integrated Pest Management

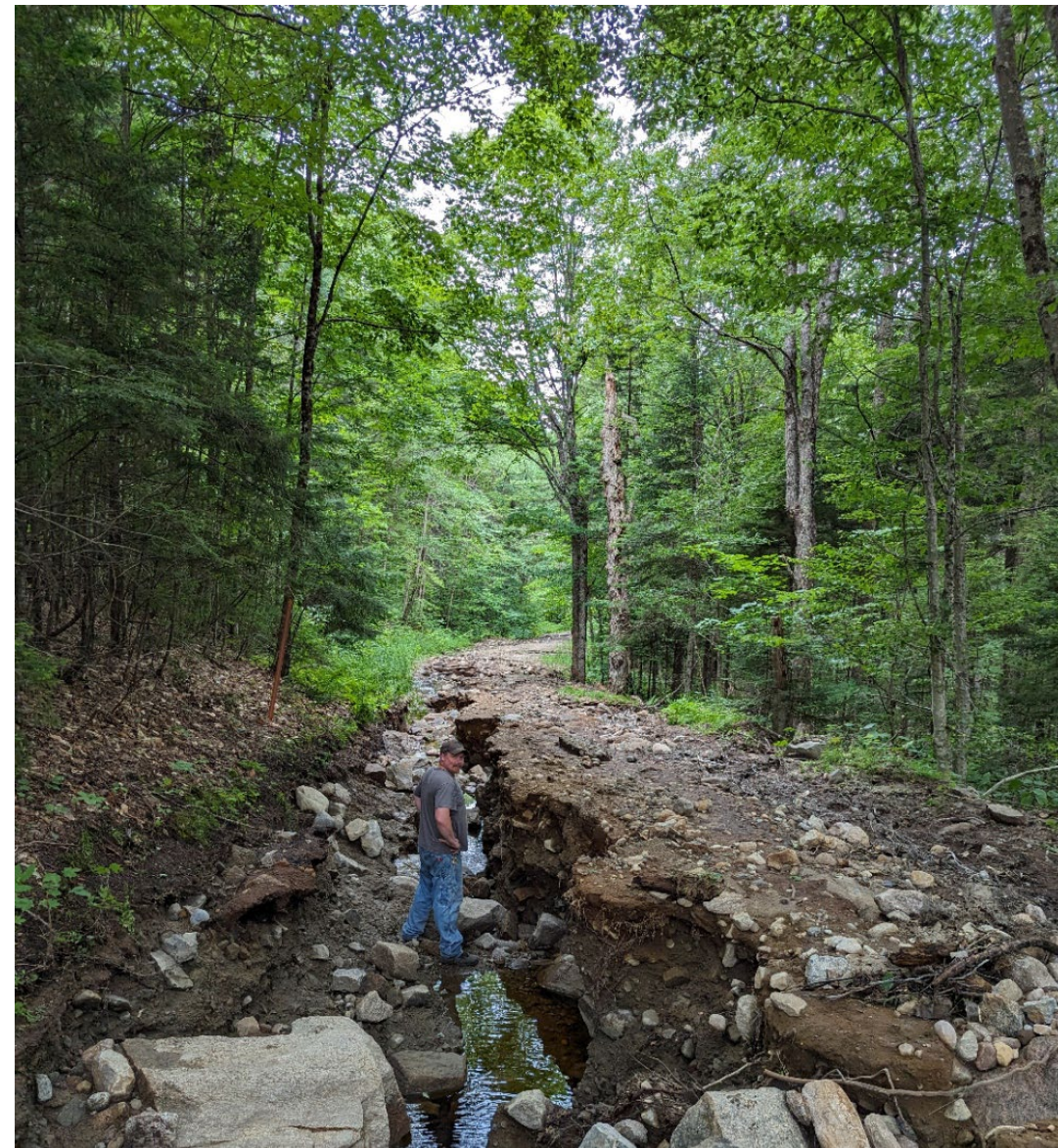




Best Management Practices for Water Quality

- All upcoming timber sales emphasize BMP's before, during and after the harvest
- What used to work no longer does
- Considerations for the extra time and money needed









Beech Treatment





Log Landings for Pollinators & Wildlife



Impacts from Deer

- Worked with Warren County Soil & Water and Capital Region PRISM to establish two ¼ acre deer exclosures
- Easily accessible for demonstration



Deer Fencing





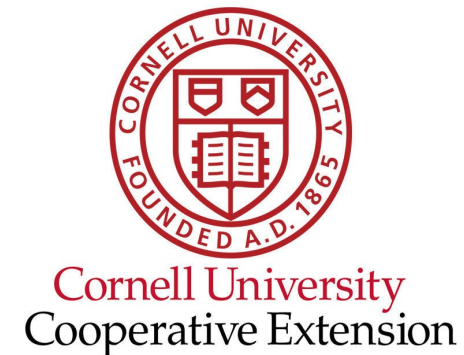
FINCH PAPER WILL STOP MAKING ITS OWN PULP



@GLENFALLSCHRONICLE



You are not alone!







You get out what you put in.....



Thank you!

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