

White Mountain National Forest
Forest Research

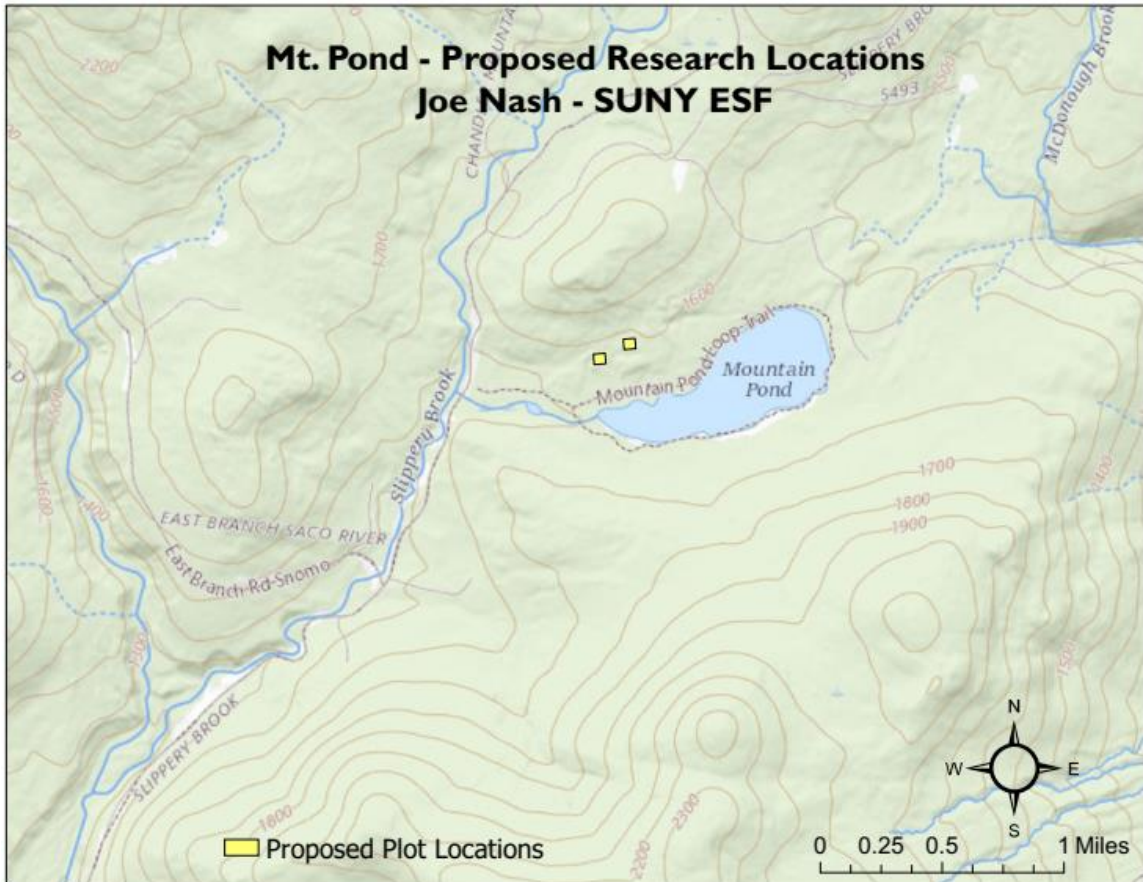
Basic Research Questions

Please provide the following information so we can evaluate your request. We will follow up with any questions and an eventual approval letter if there are no outstanding issues.

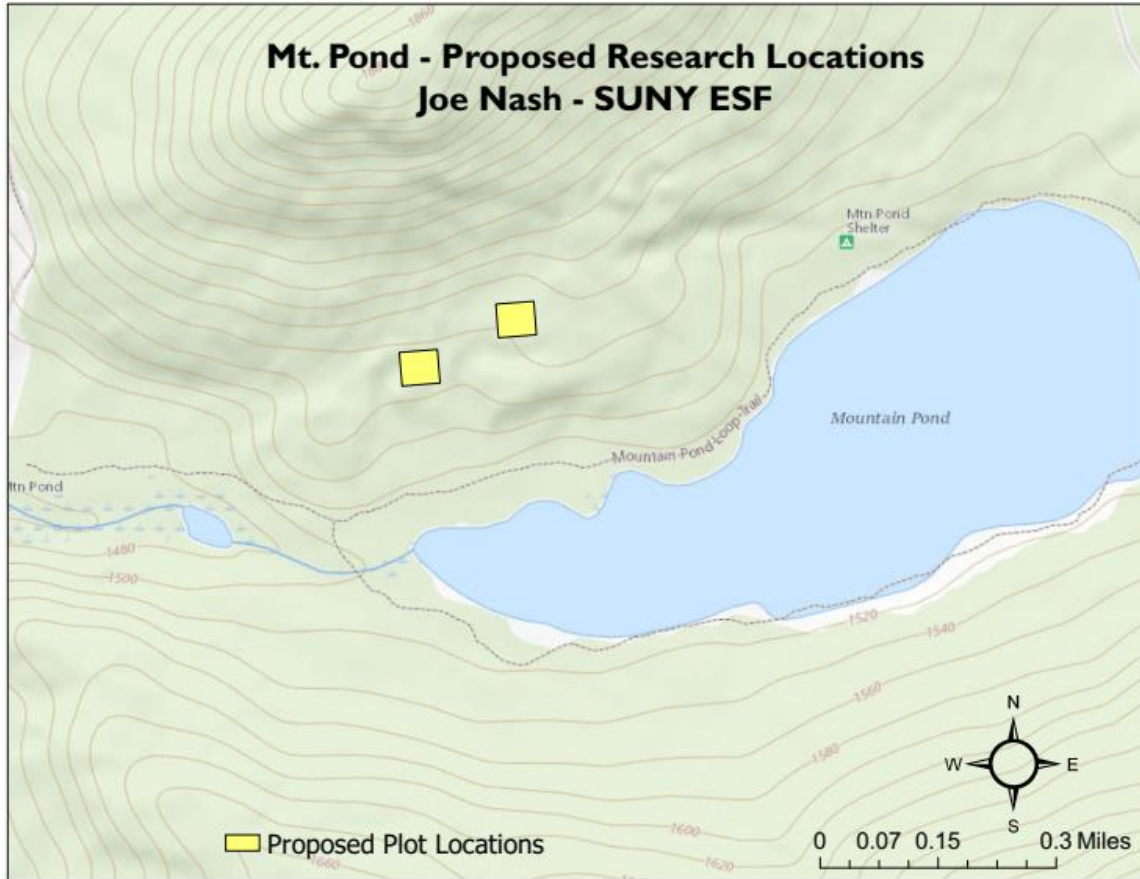
1. Identification Information:
 - Name, Affiliation, Mailing Address, Email Address, Phone Number
Joe Nash – SUNY ESF
3785 Timber Trail Liverpool, NY 13090
jnash2@esf.edu
(810) 841-7758
 - Name of Principal Investigator (if part of a larger project) or Advisor (students)
Dr. Ruth Yanai – SUNY ESF, Principal Investigator
2. Project Title
Downed wood and tree inventory in a chronosequence of northern hardwood forests in the White Mountains
3. Brief, clear, specific description of the subject of the research
Research will be focused on downed wood as well as living and dead standing trees, saplings, and seedlings.
4. Clear, complete statement of the specific objectives of the project
We intend to determine the forest stand structures (e.g., basal areas, diameter distributions, volumes and biomass of coarse woody debris), and recruitment dynamics (including regeneration densities) in a chronosequence of northern hardwood stands, including in old-growth forests using sample sites within a prime example of these communities: Mt. Pond. Mt. Pond is a great example for comparing downed wood and recruitment in northern hardwood forests to a true old-growth stand.
5. Statement of the essential work plan and methods to be used in attaining the stated objectives
We will establish one - two 70.7-by-70.7 m (0.5 hectare) plot(s) in the northern hardwood portion of the forest surrounding Mt. Pond designated on the attached map. Only non-destructive measurements will be taken. Within the plots we will conduct an inventory of live and dead standing trees. The tree inventory will occur on five 70 m transects. Beech trees ≥ 10 cm dbh will be given a rating based on the prevalence and severity of beech bark disease. Downed wood will be inventoried using the line intersect sampling method. Three clusters will be installed in the proposed plots. Each cluster is composed of three 25 m transects that will be used for line intersect sampling. No wood will be removed from the forest. During the field work, plot boundaries will be marked with nylon wire flags. Flagging will be removed immediately after measurements are made.
6. Identification of the number of people involved in the data collection/observations
3 – 5 people
7. An estimate of the maximum time likely to be required to complete the proposed research (provide a start date and end date).

July 29 – August 2, 2021

8. General text description of the location of the work and whether you plan to leave permanent markers for the site(s), as well as:
All research will be conducted within the northern hardwood portion of Mt. Pond, to the north of the pond itself.
- REQUIRED: Vicinity map – the extent of the map should be set to include all of the proposed study area(s) and sufficient reference points to allow for easy identification of the area(s) in the WMNF context



- AND, additional maps of individual proposed study location(s), if applicable, and GIS shapefiles (.shp format) for all locations.



With answers to the above questions, I will be better able to hand the request off to the appropriate Forest specialist to follow up with you. Please contact me if you have any questions.

Thank you.
Best,
Erica J. Roberts

Forest Research Coordinator
White Mountain National Forest
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