

Project List for a Farm located in

Bethlehem



All projects will provide education in at least one of, but not exclusive to, the following fields: Science, Math, Engineering, Natural History, Biology, Agriculture, Ecology, Historic Preservation, Building, and Education. By accepting a project, the Scout agrees to learn about and/or gain skills in the appropriate field necessary for completion of the project.

All pictures below are just visual examples to further explain the project. Under the guidance of FOJ- the Scout will design and create their own project and plan for execution.

Projects Already in the works that a Scout could be involved in:

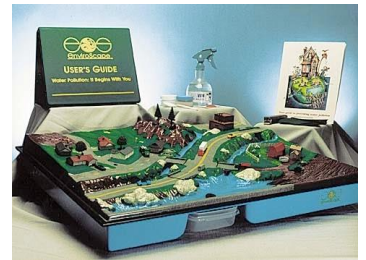
1. **Bog Project:** To be completed in 2018. Local undergraduate and graduate students are currently working with an engineering firm to create a wetlands delineation (drawing lines on a map to identify a watershed's boundaries) on the last remaining bog in Northampton County. A master plan is expected to be completed in May with big trees cleared this winter. A Scout could help to devise and complete a plan for human use of the bog by possibly creating and building trails, bridges, educational signage, and/or programs that teach about the bog and habitat restoration.
2. **New Agroforestry (a method and system of land management involving the simultaneous cultivation of farm crops and trees) Project:** starting in Spring 2018 a section of the farm will be cleared and reforested with trees and other crops such as fruit trees and bushes that could be harvested and sold to the public. Scout could research and help to pick which trees and crops to be planted, plant them, develop a trail through the area with educational signage and create programs to educate the community. Project could be split into several projects.

Other Projects:

1. **Art in Nature:** research and construct an outside art area for the new nature based preschool and other community education events. Plexi-glass will be installed along the fence in this area to be used for art and other items are needed (maybe slates and chalk, or something that incorporates outdoor music).
2. **An Outside Sluice:** solar powered waterfall to a plastic tub lined pit with sluices (a passage that carries a current of water and has a barrier, called a sluice gate, which can be opened and closed to control the flow of water). Scout could also develop the educational program materials and signage.



3. Permanent inside exhibit of an EnviroScape (portable interactive environmental education models intended for use in school and community education on issues that affect the environment). Built on a large wooden table frame with natural elements and maybe a water pump to teach about storm water runoff and pollution. Scout could also develop the educational program materials and signage.



4. Build a special-needs accessible "tree" house (tree will be planted in the center of it after it is built).
5. Improve Bird Banding program by designing and outfitting a field study site with interpretive signage, shelves, weather station. Run a BioBlitz event (an intense period of biological surveying to record all the living species within a designated area. Groups of scientists, naturalists and volunteers conduct an intensive field study over a continuous time - usually 24 hours)
6. Develop a database of all the natural history – animals and plants of the estate.
7. Install post and rail fencing along Route 191 and a walking path. Could be split into two projects.
8. Design, build and install a kiosk and GPS trail map at the front of the center's office building.
9. Develop a By Donation/Reduced Cost Farmer's Market at farm. Center would like to sell excess produce that is grown in their community garden. A wheeled cart with shelves and/or bins of some sort would need to be built to hold the available produce. Signage educating customers about the food and how they too can grow it and advertising of the sales in the community would need to be accomplished.
10. Corn Field Development: Research and decide what fruit and nut trees and shrubs should be planted in an old corn field
11. Develop environmental, educational and historic video documentaries from pictures, journals and other historical documents the farm has.
12. Create a Sensory Path: Walking trail with maybe a bench or two that incorporates different natural sights (colors, contrasts), sounds, smells and textures.
13. Design and build a Butterfly Conservatory with a solid roof and recycled screen doors.



14. Other smaller projects that could be combined or added to other projects: benches, nest boxes, clearing trails, bird blinds, informational or educational kiosks, educational or directional signage.