Working Woods Inventory and Report Request

Background

The Holden Arboretum wishes to better understand the structure of approximately 30 acres of former sugarbush. Once fully functioning in providing maple syrup, the site is now an educational center focused on sustainable forest management techniques. However, to understand what economic and personal forest management techniques should be demonstrated an inventory of the woodland is prudent.

Assignment

A sample plot forest inventory is requested to seek additional information. A report summarizing the findings is also requested. Stand information discussed should include:

- Species Composition
- Diameter Class Distribution
- Basal Area (per Acre)
- Total Trees (per Acre)
- Volume (Merchantable)
- Form (Age Class)
- Density (Stocking)
- Average total height
- Average dead length
- Existing Pests or Diseases
- Stand Pest and Disease Vulnerability

Recommendations on best forest management practices and techniques should complement the information discovered during the assignment. A map of the area assessed with stand classification should be included. Specific recommendations on best and most logical locations to implement demonstration plots focused on any or all of the following goals are also requested:

- Timber Production
- Wood Working
- Maple Syrup Production
- Hunting
- Fruit and Nut Production
- Passive Recreation
- Birding
- Agroforestry
- Firewood
- Ohio Forest Tax Credit
- Ecosystem Function
- Native Authenticity
- Biodiversity
- Sustainable Management
- Invasive Species Management
- Restocking/Reforestation
- Ecosystem Services and Carbon Sequestration

Deliverables

A result of the assignment and information would be specific deliverables. These should include data collected during the inventory and its corresponding report with map. Data should be in Access, Excel, or ESRI format with the report and map in a PDF format. Completion of the project is requested by August 2016, and sooner is preferred, with consideration also given to alternative time-frames.