



Dendrochronology Study Proposal

The dendrochronology study of the building will consist of a site visit by William Flynt to obtain samples followed by sample preparation (mounting, sanding, species confirmation, ring counts), microscopic measuring, data analysis, and a written report, all conducted in Deerfield.

In undertaking a dendrochronology study of any timber frame structure, a number of parameters need to be met in order for the study to have a decent chance of success. It should be noted, however, that even if all the criteria are met, there is always a possibility that the results will be inconclusive.

The following parameters must be taken into consideration;

1. Ideally, 10-15 samples need to be obtained from each distinct period of construction that is being investigated. This is not always possible due to lack of suitable samples.
2. Timber species must be Oak, Pitch pine, Hemlock, or possibly Chestnut and White pine as these species are the only ones for which there currently exist regional dated master chronologies/ site chronologies.
3. Waney, or bark edge, timbers of sufficient numbers must be accessible for coring.
4. Timbers must have a minimum of 55-60 growth rings to be useful.
5. While not mandatory, it is best if the study has access to any current research pertaining to the structure/site. Floor/framing plans are also recommended and need to be made available for the study for plotting sample locations.

Fees

The cost of the complete study is based on obtaining 10-15 samples per building phase of interest, with a minimum fee set at \$750, should less than 8 samples be taken. In addition travel reimbursement will be figured in as a separate item based on .50/mile. If no suitable samples can be obtained, costs will be limited to a prorated daily rate of \$350, plus mileage.

10-15 samples per building phase @ \$100/sample-----	\$1000-1500
Mileage	Varies depending on location

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