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Pee Wee Hilton Progress Report

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Pee Wee Hilton Progress Report

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November 30, 2005



Object of research: To develop and extend a tree-ring width chronology for NE Ohio region that will contribute to the understanding of climate variability over the last several hundred years. Data collected from historical structures will assist in assessing the climatic change in the region as well as in a greater global context.

General: Eight cores were extracted from the beams of the Pee Wee Hilton structure at Pee Wee Hollow. Out of the eight cores sampled, four were datable. Two the undatable cores were not Oak (*Quercus*) and the other two remaining cores did not provide enough rings to match with other sample tree-ring widths.

Sampling went as planned and the cored taken were processed and crossdated for a ring-width tree-ring record at the Wooster Tree Ring Lab using standard dendrochronological techniques. These techniques include sanding the cores until each annual ring is visible, counting the number of rings and the range of years, and measuring the ring-width under a microscope to assist in visual cross dating. The Chronology (Figure 1) spans 129 years covering the interval 1673-1802 AD.

Table 1: Datable samples from Pee Wee Hilton

Samples	First Year	Last Year	Number of years
PW-1B	1711	1768	58
PW-10	1673	1749	77
PW-12	1691	1802	112
PW-13	1718	1770	53

Two rings date before 1700 with the oldest ring dated at 1673. The data received from the historical beams in Pee Wee Hilton crossdated well with each other and with other dendrochronologies from the region including Johnson Woods, Sigrist Woods, and Brown's Lake Bog.