**US-Syv: Sylvania Wilderness Area Soil readme**

 **Soil Bulk Density**

Soil bulk density was calculated as a measure of dried soil mass separated from other matter (roots, rocks, etc.) per unit volume (g/cm3). Each sample was collected at a consistent ¼ ounce volume using a modified syringe, dried, sieved with a 2mm sieve, and weighed. Each subplot had six samples, with three subsamples each at depths of 0 cm, 15 cm and 30 cm (not including litter layer). Averages for each plot (tower/sugar maple plot and hemlock plot) were calculated separately. Averages account for each depth profile within each plot.

**Inorganic Carbon Test**

To explain the ID, SYL stand for Sylvania and the letters after SYL denote which subplot the sample was taken from. Two samples were taken from each subplot so the number following the letters signifies whether it was the first or the second sample. HCL was poured on a sample of soil to test whether or not it contained any inorganic material. The no bubbling from all of the samples signaled there was no inorganic carbon in the samples. These samples were not the same samples that were tested for carbon and nitrogen content.

**Soil Carbon and Nitrogen**

To explain the ID, SYL stands for Sylvania and the letter after SYL denotes which subplot the sample was taken from. A-D is the plot around the tower and E-H is the Hemlock plot. The number after the letter denotes which level the sample was taken from. So for example, 1 is from the surface, 2 if from 15cm underground, and 3 is form 30 cm underground.

**Soil Temperature**

To explain the ID, SYL stands for Sylvania and the letter after SYL denotes which subplot the sample was taken from. A-D is the plot around the tower and E-H is the Hemlock plot. The temperature for each reading was taken at the base of the sample which was taken from 30cm underground.