

Metadata

Dataset Title:

Cary_Forest_Plots_2006_Mature_Tree_Data.csv

Cary Institute of Ecosystem Studies, Cary Forest Plot Data, Mature Tree Data from 2006

Abstract

This dataset is a contribution to the Cary Institute of Ecosystem Studies. The Cary Forest Plots were established in 1984 as part of The Cary Vegetation Study, which described the vegetation of the then Cary Arboretum. The project established 76 permanent plots referred to as the "Cary Forest Plots". Data collection in the plots was extensive and included a survey of mature trees, saplings, seedlings, shrubs and herbaceous species as well as soil analyses, tree ring data and physical descriptions of each plot. Subsequent re-surveys of the plots were done in 20 of the 76 original plots as part of the Forest Response to Stress and Damage (FORSTAD) project, which took place over approximately 10 years in the 1990's. These surveys included an annual canopy census of trees. Canopy census data were also collected in other plots studied in the FORSTAD project, including Nutrient Cycling Plots A & B and in the control plots in the Yellow, Teahouse grid and the Red, Henry Grid. Another resurvey of 43 of the Cary Forest Plots was done in 2006 by Dan Katz as part of his Research Experience for Undergraduates (REU) project and his senior thesis project at Bard College. His surveys included mature trees, saplings, seedlings, shrubs and herbaceous species as well as soil analyses. This repository includes Cary Forest Plot data from Dan Katz's 2006 project.

Publications:

GLITZENSTEIN, J. S., C. D. CANHAM, M. J. MCDONNELL, AND D. R. STRENG. 1990. Effects of environment and land-use history on upland forests of the Cary Arboretum, Hudson Valley, New York. *Bull. Torrey Bot. Club* 117: 106–122.

Katz, D.S.W., Lovett, G.M., Canham, C.D., & O'Reilly, C.M. 2010. Legacies of land use history diminish over 22 years in a forest in southeastern New York. *Journal of the Torrey Botanical Society* 137: 236–251.

Data provided in this dataset include data from mature trees collected in 2006 in 43 of the Cary Forest Plots.

The Cary Institute of Ecosystem Studies furnishes data under the following conditions: The data have received quality assurance scrutiny, and, although we are confident of the accuracy of these data, Cary Institute will not be held liable for errors in these data. Data are subject to change resulting from updates in data screening or models used. Data citation: Please click on the Cite button on the Figshare repository.

Those wishing to publish data from Cary Institute of Ecosystem Studies, Cary Forest Plots are encouraged to contact the data manager at datamanagement@caryinstitute.org.

Investigators

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Keywords

Cary Institute, Cary Institute of Ecosystem Studies, data, hardwood forest, tree inventory, land-use history, vegetation survey

Timeframe

2006

Geographic location

The Cary Institute of Ecosystem Studies is located in Millbrook, NY USA.

Methods

See Katz, D.S.W., Lovett, G.M., Canham, C.D., & O'Reilly, C.M. 2010. Legacies of land use history diminish over 22 years in a forest in southeastern New York. *Journal of the Torrey Botanical Society* 137: 236–251.

Data Table

Column name	Description	Unit or code explanation or date format	Empty value code
Plot_Number	Plot number, associated with grid square number within which plot was located		blank
Species	4-letter species identification		blank
Tree_Number	Each tree was assigned a number, but this is not the same as the tag number assigned to some trees nor is it the same as the tree number in the 1984 dataset		blank
Tree_dbh	Diameter at breast height	centimeters	blank
Tree_Crown_Class	Crown class C = Canopy: trees with greater than 25% of crown cross-sectional area exposed to the sky, SC = Sub-canopy: trees with less than 25% of crown area exposed to the sky, U = Understory: trees whose crowns were entirely overtopped by adjacent canopy and sub-canopy		blank

	trees, and D = Standing Dead: for standing dead trees.		
Tag_Number	Tag number on tree		blank

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