# CZO Metadata Worksheet

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| Data File Name | SH\_CZO\_VegSurvey\_2010.xlsx |
| Date Prepared | 1/21/2011 |
| Descriptive Title | Shale Hills Susquehanna Critical Zone Observatory Vegetation Survey for LiDAR Validation |
| Update Frequency | N/A |
| Abstract | A vegetation survey was conducted May through July, 2010 to validate the LiDAR data collected in July. Thirty-nine 30-diameter circular plots were chosen. Within each plot, trees over 18cm diameter were counted, species names recorded, and height and diameter measured. In meadow and wetland plots, average vegetation height and dominant plant species were recorded. In meadow and wetland plots, average vegetation height and dominant plant species were recorded. Leaf Area Index (LAI) and canopy closure (CC) data were collected between July 14 and July 23, 2010 for meadow (M), wetland (W), and forest (Leading Ridge – LR) sites in addition to the Shale Hills catchment. LAI was measured using a LAI-2200 instrument (LI-COR Biosciences). Canopy closure was measured with a spherical densiometer, Model C Forest Densiometers). See “Notes” and “Key” sheets for additional details. |
| InvestigatorContact Info | Dr. David Eissenstat, Professor of Woody Plant Physiology, The Pennsylvania State University, 103 Tyson Building, University Park, PA, 16802, 814.863.4384, dme9@psu.edu. |
| Data Value Descriptions | * AvgLAI: Average of LAI for the site number listed across all measurement locations in the site
* SiteSD: Site standard deviation based on average above
* SiteSE: Site standard error
* PCC: Percent canopy closure
* X: X GPS coordinate
* Y: Y GPS coordinate
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| Keywords | Leaf area index, vegetation survey, canopy closure, crown closure, spatial data, plant species, tree height, tree diameter |
| Methods | * Leaf Area Index (LAI):LAI-2200, LI-COR Biosciences
* Canopy closure: Spherical Densiometer, Model C, Forest Densiometers
* Tree height:

Laser rangefinder, TruPulse 360 B, Laser Technology Inc.* Diameter at breast height (DBH): "Pro Tape" Diameter tape, Spencer Products Company
* GPS coordinates were collected with Trimble Nomad during leaf off conditions
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| Citation | The following acknowledgment should accompany any publication or citation of these data: Logistical support and/or data were provided by the NSF-supported Shale Hills Susquehanna Critical Zone Observatory. |
| Publications | None |
| Data Use Notes | The user of Shale Hills Susquehanna CZO data agrees to provide proper acknowledgment with each usage of the data. Citation of the name(s) of the investigator(s) responsible for the data set, in addition to the generic statement above, constitutes proper acknowledgment. Author(s) (including Shale Hills Susquehanna CZO investigators) of published material that makes use of previously unpublished Shale Hills Susquehanna CZO data agree to provide the Shale Hills Susquehanna CZO data manager with four (4) copies (preferably reprints) of that material for binding as soon as it becomes available. The user of Shale Hills Susquehanna CZO data agrees not to resell or redistribute shared data. The user of these data should be aware that, while efforts have been taken to ensure that these data are of the highest quality, there is no guarantee of perfection for the data contained herein and the possibility of errors exists. These data are defined as either public or private, such that a password may be required for access. |