Tool Descriptions – Vegetation\_Tools

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**fieldPlants.xlsm**

1. Purpose

This spreadsheet is intended for collecting field vegetation data that conforms to the expectations of the Tennessee Stream Quantification Tool (via CVS Level 2-3). The tool contains a tab each for woody stems and herbaceous coverage. Another tab contains a chart listing all plant species that are found in Tennessee according to the USDA in addition to several unlisted invasive species. Macros are provided to create report-ready version of the collected data.

1. Usage

Upload the spreadsheet to a mobile device. One spreadsheet can be used for one vegetation plot. The units of entry for the spreadsheet are inches unless otherwise noted.

On the “Woody” tab, enter in the project name, plot, crew and date in B1:B4. The plot size (C2) is typically 100 sq m but can be adjusted. For each tree species found, enter its common name in Column A starting in row 6. There is room for up to 95 unique species. The spreadsheet will attempt to find the scientific name for the species in Column B. Columns F through R are used to record instances of the species. For each occurrence in a given height or DBH category increment the value in the cell by 1. Column S is unique, since the Tennessee SQT requires that all trees with a DBH over 40cm/15.7in have their exact DBH recorded. To record trees of this size, enter their DBH in columns to the right of row R (i.e., beginning in Row S) in inches. Notice that cell S4 will change from “unbounded” to whatever the average DBH of all trees over 40cm DBH in the plot is. Cells F5:S5 show the number of trees in that plot of a given size. Row C gives the count of a given species. U2:X4 is a chart given the count and average size of seedling, saplings and trees in the plot. To produce a report-ready version of the woody species, click the “Generate Report”. Note that only the first 24 species will be listed.

On the “Coverage” tab enter common names in Column A starting in row 5. There is room for 99 unique species. The spreadsheet will attempt to find the scientific name for the species in Column B. If a scientific name is found, then Columns E through F will display if the species is a tree, a shrub, herbaceous and invasive. In Column G enter the tree coverage of the species in the plot. In Column E enter the shrub coverage. In Column I enter the herbaceous coverage. Cell B3 displays the total herbaceous coverage in the plot, excluding invasive species. Cell B3 displays the total canopy (tree+shrub) coverage in the plot excluding invasives. To produce a report-ready version of the woody species, click the “Generate Report”. Note that only the first 27 species will be listed.

1. Notes

Unfortunately macros do not work on mobile devices. Reports must be generated using a desktop version of Excel. The spreadsheet also contains two hidden tabs containing blank report templates. Do not modify these.

Before generating reports, remove any blank rows and enter scientific names if needed.

**TSMP\_veg\_report.xlsm**

1. Purpose

This workbook is intended to tabulate vegetation data collected for TSMP monitoring projects on a project level.

1. Usage

Copy tabs from your field data sheets into this workbook. Two example tabs (VP1 and VP2) are included. Notice that Columns J and K are already linked to these tabs. Link more tabs as need to the appropriate columns. Make sure to link both the Species and Invasive Species tables.

1. Notes

Overstory trees have yellow rows.

**TSMP\_veg\_worksheet.xlsm**

1. Purpose

An excel version of the standard TSMP vegetation monitoring form intended for field data collection.

1. Usage

Use as you would fill out a paper version of the vegetation sheet. The form will tally stems and coverages for you. It will also attempt to match common names to scientific names.

1. Notes

None.

**masterPlantList.xlsx**

1. Purpose

A chart of all plant species that are found in Tennessee according to the USDA in addition to several unlisted invasive species.

1. Usage

Generally just used as a repository of plant data for spreadsheets that need to use plant lookups.

1. Notes

None.

**SQT\_Veg\_Sheet\_Mobile.xlsx**

1. Purpose

An Excel version of the CVS Level 2-3 vegetation data collection sheets.

1. Usage

Fill out as your normally would a CVS Level 2-3 sheet. The worksheets will attempt to match scientific names to entered common names.

1. Notes

None.