Tool Descriptions – Watershed Tools

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**Watershed\_chart.xlsx**

1. Purpose

Calculate reach runoff and infiltration coefficients for watersheds per TN SQT guidelines.

1. Usage

Columns D, E and F are used to enter the pixel count of a given landuse type in each lateral drainage area. In Column L enter the area of the later drainage area in acres. In Column M enter the length of the stream in the LDA. Columns Q:U and AD:AF require the user to correctly sum the landuse coverage for each row. This is dependent on drainage order. These sums should include everything upstream of the LDA (the catchment) but not the LDA itself. Cells in Column V represent the percentage of the planned buffer that is not already forested. Column X is the buffer width in feet. No columns other than the ones mentioned need to be adjusted.

1. Notes

The post construction infiltration factor should not change unless buffer is being constructed upstream AND has a non-zero conversion factor. If there is a change, check your sums.

The calculations assume that buffers convert open field into forested areas. If there is more buffer conversion than available open field, then the calculations will assume the amount of converted land is exactly the amount of open field available.