

## **NRCS Hydrology and Terrain Analysis Tools for Using LiDAR Data**

A set of tools were developed for experienced ArcGIS users of LiDAR data to aid in hydrologic and terrain analyses, and for the design of water and sediment control basins.

**Webinar 1:** An introduction to all the tools, presented by Peter Mead (formerly, USDA Natural Resources Conservation Service) on February 6, 2013.

View recording here: <https://umconnect.umn.edu/p86366488>

<b>Time</b>	<b>Topic</b>
0:00	Introduction to Tools and Utilities
<b>Field Office Tools</b>	
8:10	Create contours from AOI
12:25	Cross Sections/Profiles
14:00	Estimate Pool from Contours
16:54	Slope average by AOI
18:15	Slope percent by AOI (raster)
<b>Watershed Tools</b>	
<b>Watershed Delineation</b>	
19:28	Define AOI
21:35	Create stream network
23:40	Create watershed
26:08	Update watershed attributes
<b>Runoff Curve Number</b>	
27:15	Prepare soils and landuse
31:30	Calculate Runoff Curve Number
<b>Watershed Storage</b>	
32:50	Calculate stage storage
37:45	Create pool at desired elevation
39:25	<b>Project Geodatabase Structure</b>
40:25	Q&A

(From the Conservation Applications of LiDAR Project at [z.umn.edu/lidar](http://z.umn.edu/lidar).)