

Stream Spatial Data and Perenniality

Roland Owens 7/25/16

TRC Conference Call

Stream Spatial Datasources

- Old paper USGS Topo maps
- National Hydrography Dataset (NHD)
 - Originally largely digitized from USGS Topo
 - Updated by States through formal USGS process
 - Not a lot happening in Virginia right now
- New Topo Quadrangles – National Map
 - Uses NHD data to represent stream
 - Updated on 3-year cycle
 - GeoPDFs and GIS Map Services

Stream Spatial Datasources

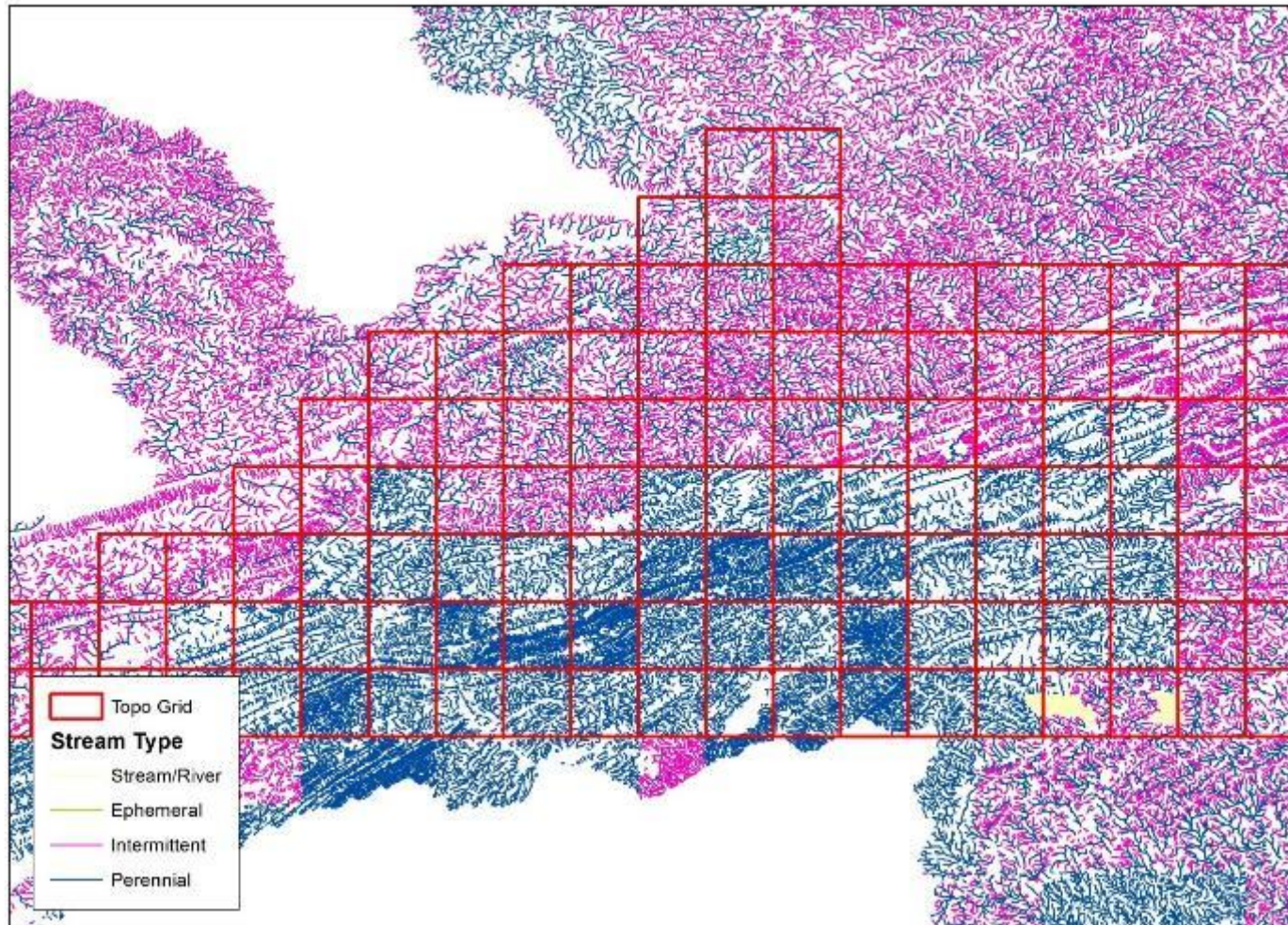
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Stream Spatial Data and Perenniality

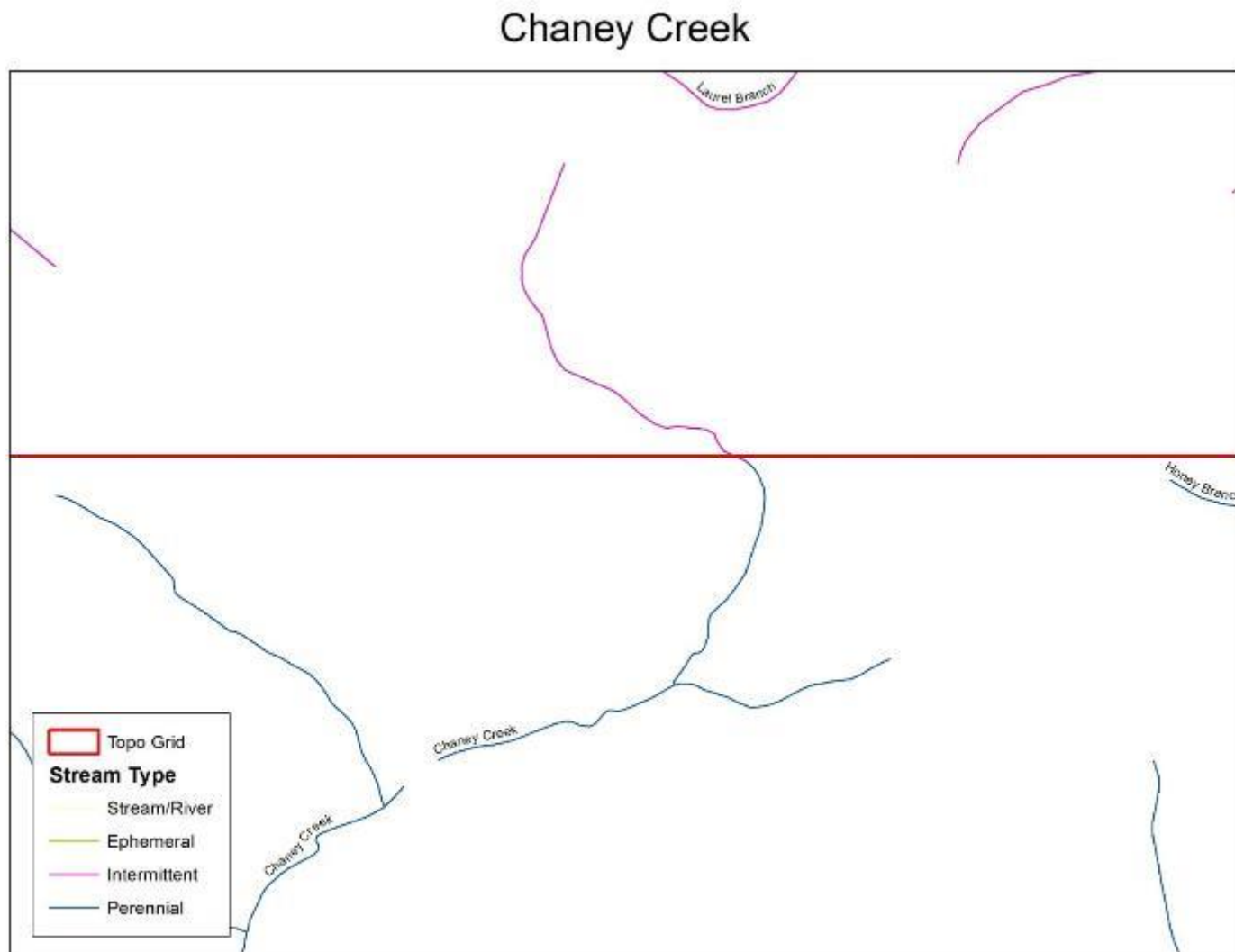
- Original paper Topo maps were never that accurate
 - Entire sheets in Virginia defined as perennial
- Since the paper Topos were not accurate, the NHD is not accurate, so the new digital Topo maps are not accurate
- Example

Southwestern VA NHD Data

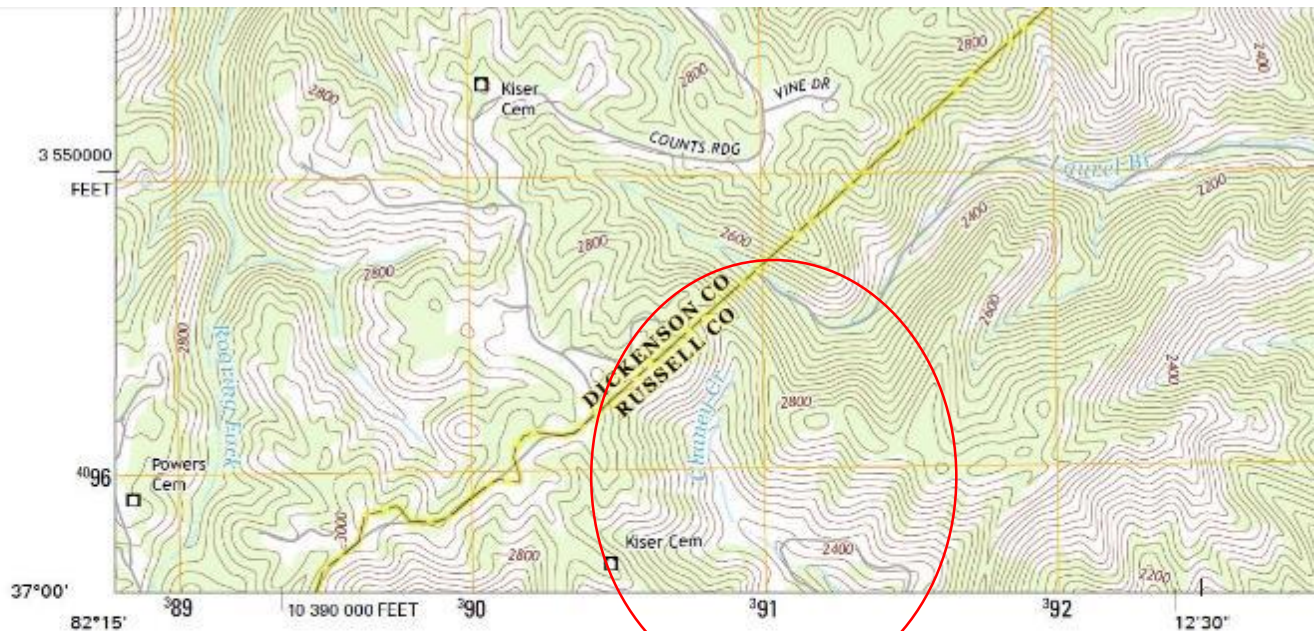
Southwestern Virginia



Chaney Creek NHD Detail



Chaney Creek Topo Detail



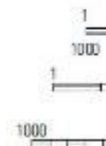
Produced by the United States Geological Survey
 North American Datum of 1983 (NAD83)
 World Geodetic System of 1984 (WGS84). Projection and
 1 000-meter grid: Universal Transverse Mercator, Zone 17S
 10 000-foot ticks: Virginia Coordinate System of 1983 (south
 zone)

Imagery.....NAIP, June 2012
 Roads.....©2006-2012 TomTom
 Names.....GNIS, 2013
 Hydrography.....National Hydrography Dataset, 2012
 Contours.....National Elevation Dataset, 1999
 Boundaries.....Census, IBWC, IBC, USGS, 1972 - 2012

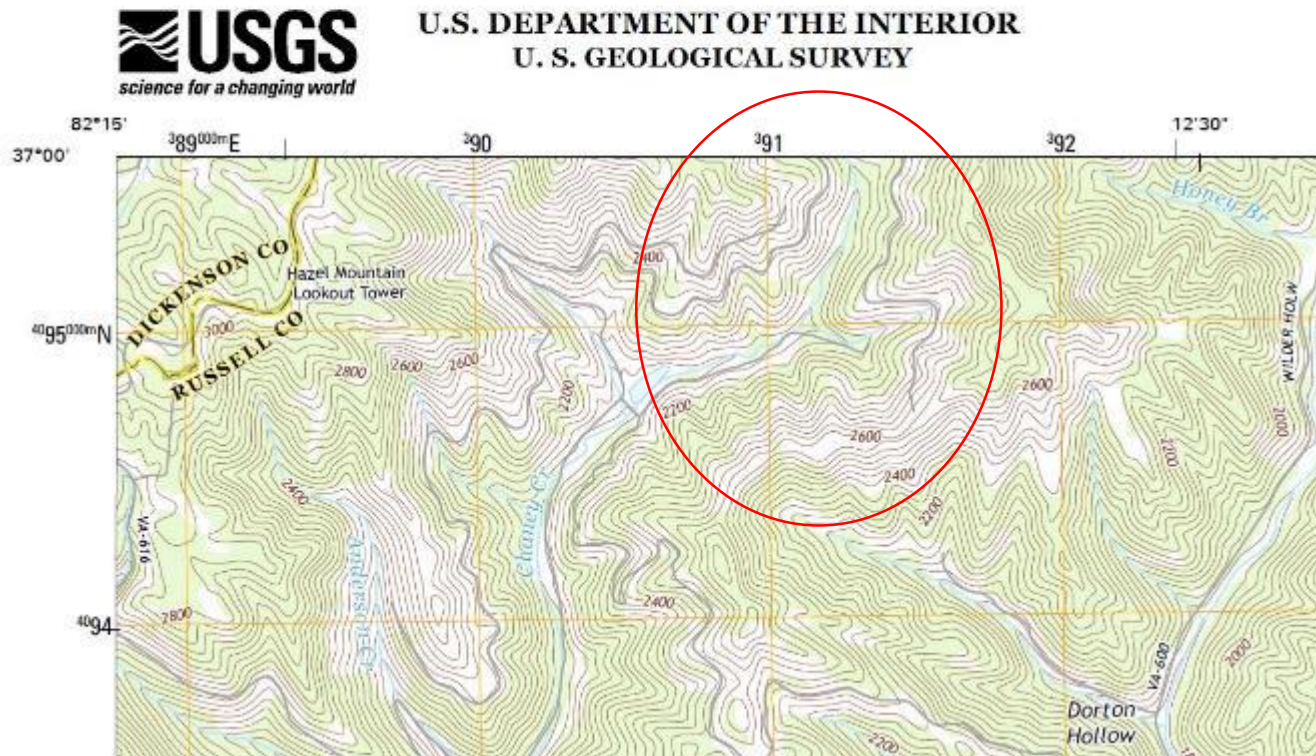
UTM GRID AND 2013 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

6° 56' 123 MILS
 0° 43' 13 MILS

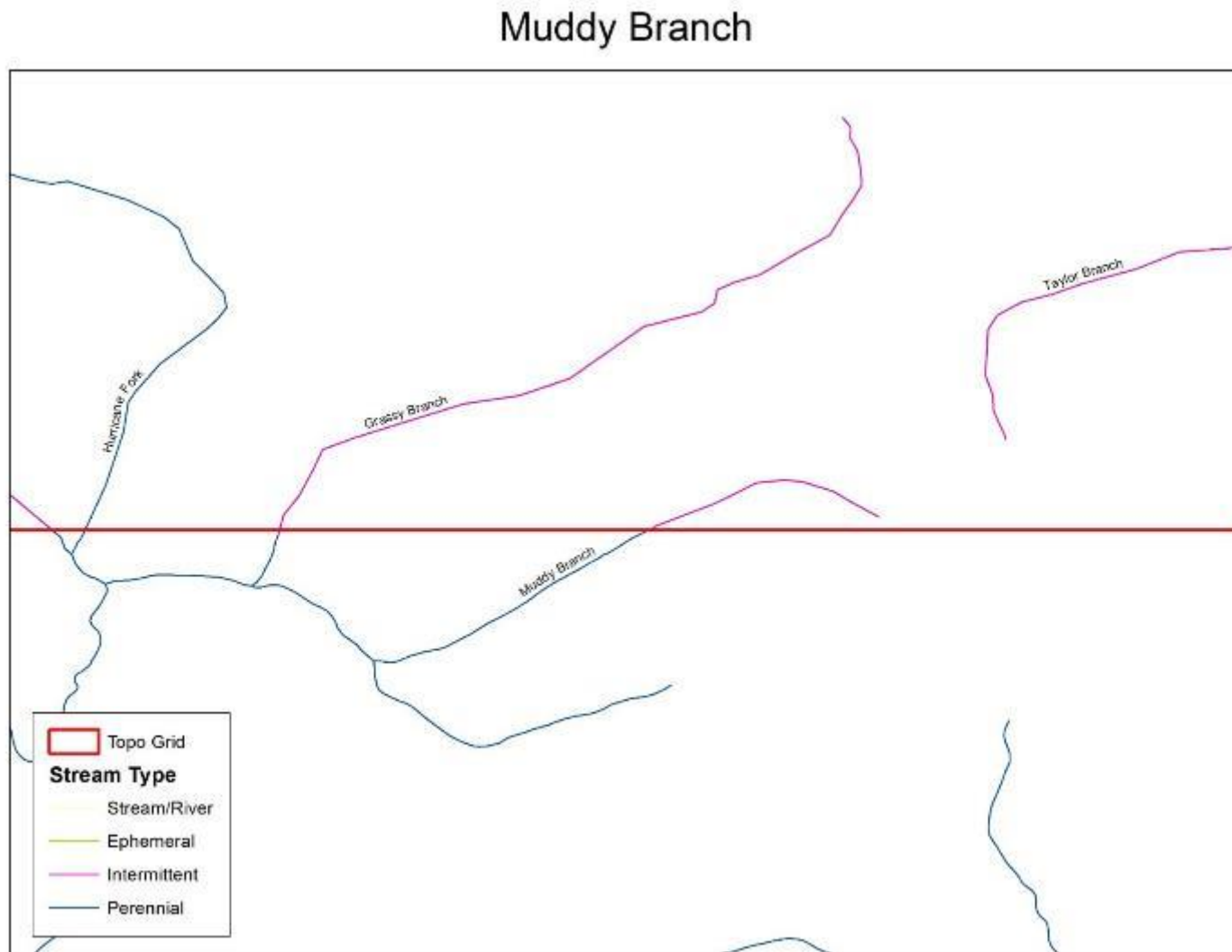
U.S. National Grid
 100,000-m Square ID
 100
 LB MB
 1 100



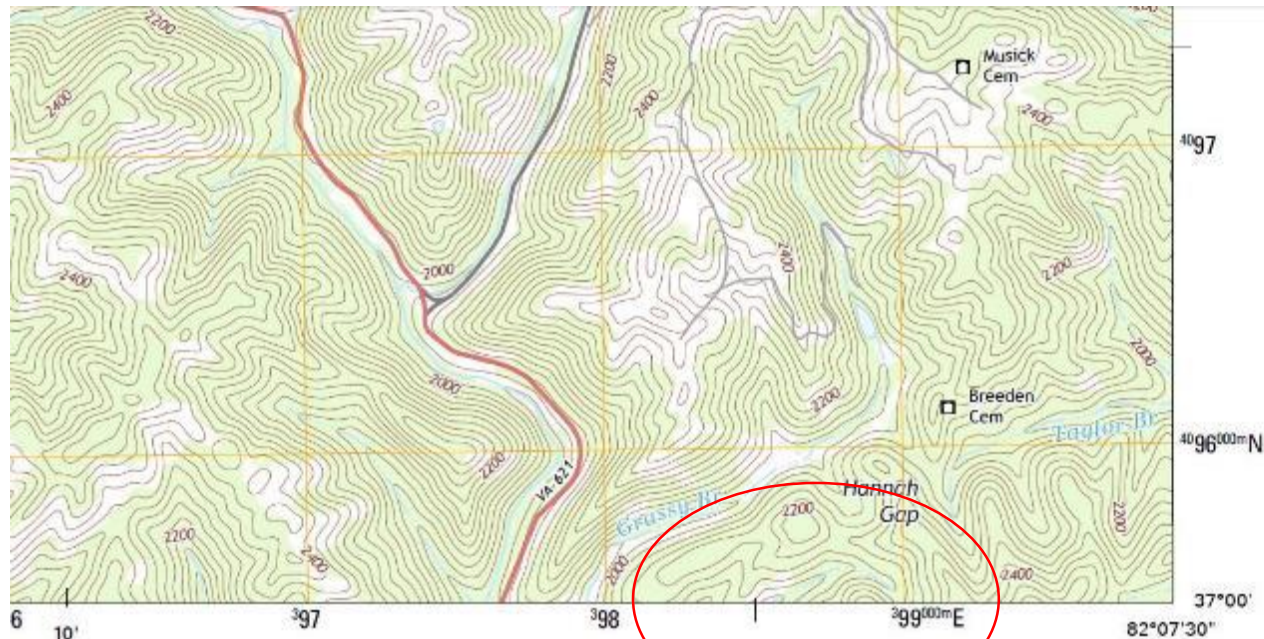
Chaney Creek Topo Detail



Muddy Branch NHD Detail



Muddy Branch Topo Detail



QUADRANGLE LOCATION

Haysi	Prater	Vansant
Nora	Duty	Big A Mountain
Saint Paul	Carbo	Lebanon

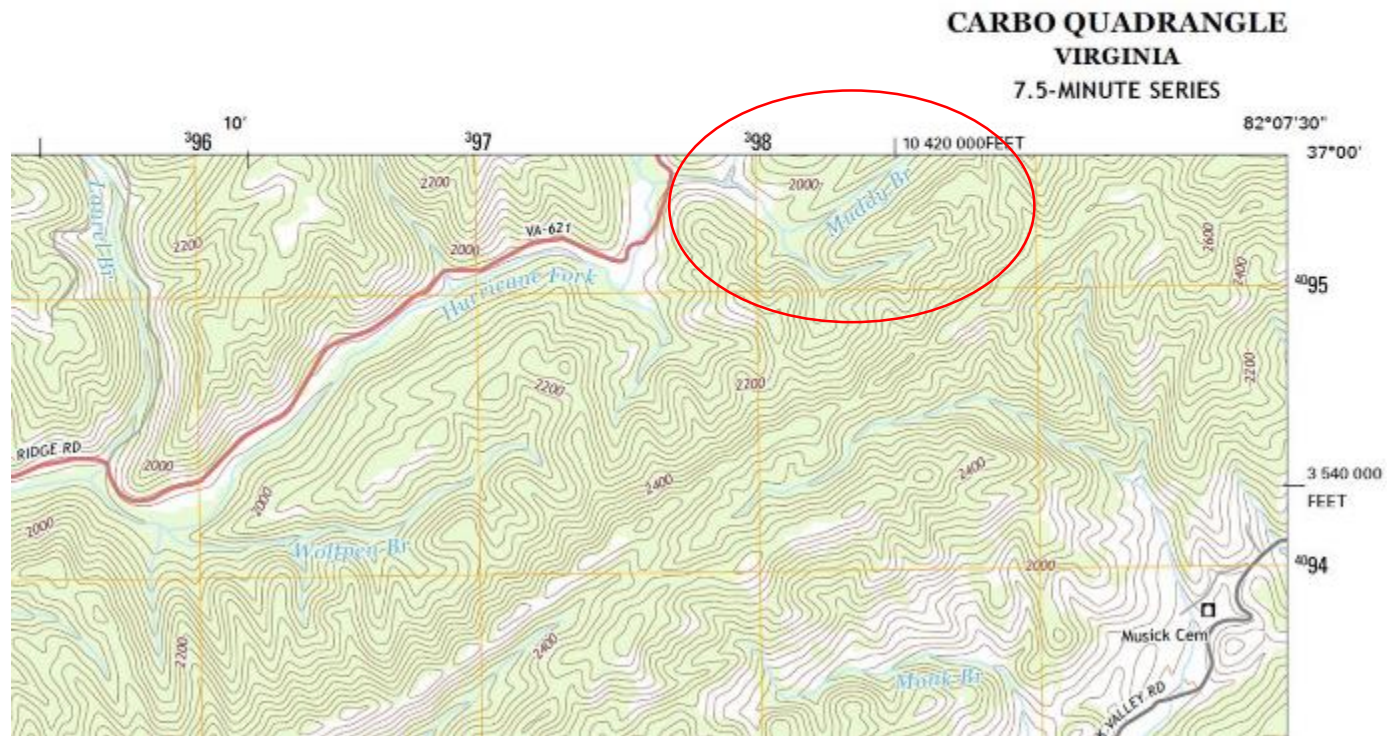
ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

DUTY, VA

2013

Muddy Branch Topo Detail



RMP Module

- NHD Layer always displayed at solid blue line
 - Do not use this feature class to determine perenniality
 - Can turn off in the TOC
- Use

RMP Module

- NHD Layer always displayed at solid blue line
 - Do not use this feature class to determine perenniality
 - Can turn off in the TOC
- Use USGS Topos Base Map to 'official' perennial/intermittent determination from the Topo map
- Example

RMP Module Example

DCR ~ RMP Details

https://dswcappstest.dcr.virginia.gov/BMPTracking/RMP/Info/181

Apps AgBMP/CP/RMP App AgBMP/CP/RMP UAT AgBMP/CP/RMP Train Logi 10 Ad Hoc CP/RMP Document L BugTracker Intellicast - Bridgewater

Tools Map Export Location Search Go VBMP Imagery


Land Units Features TOC

Identifier	Name	
<input type="checkbox"/> 1	1	edit update delete
<input type="checkbox"/> 4	4	edit update delete
<input type="checkbox"/> 3	3	edit update delete
<input type="checkbox"/> 2	2	edit update delete

Merge Selected

Create New Land Unit

Draw



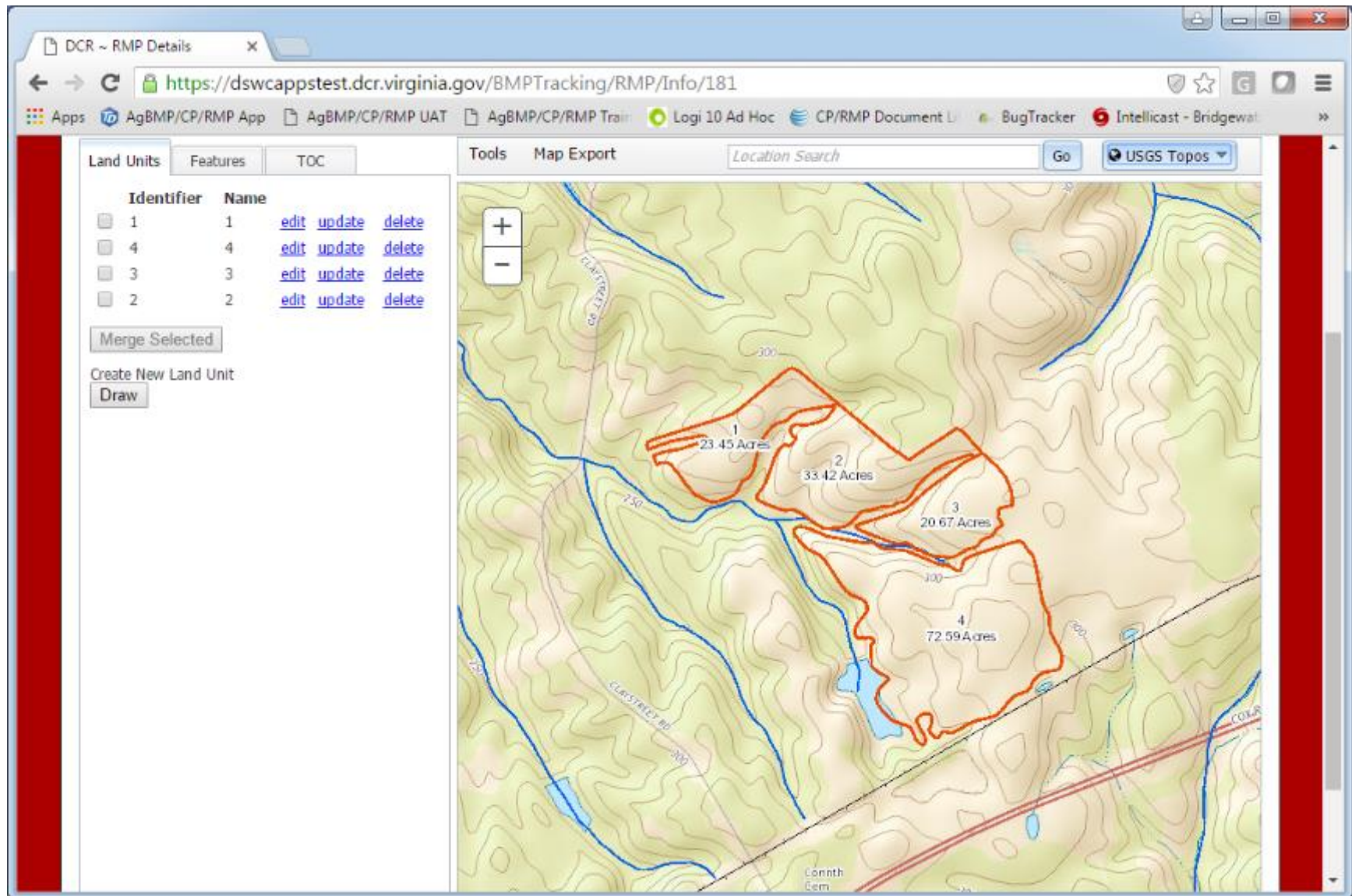
1 23.45 Acres

2 33.42 Acres

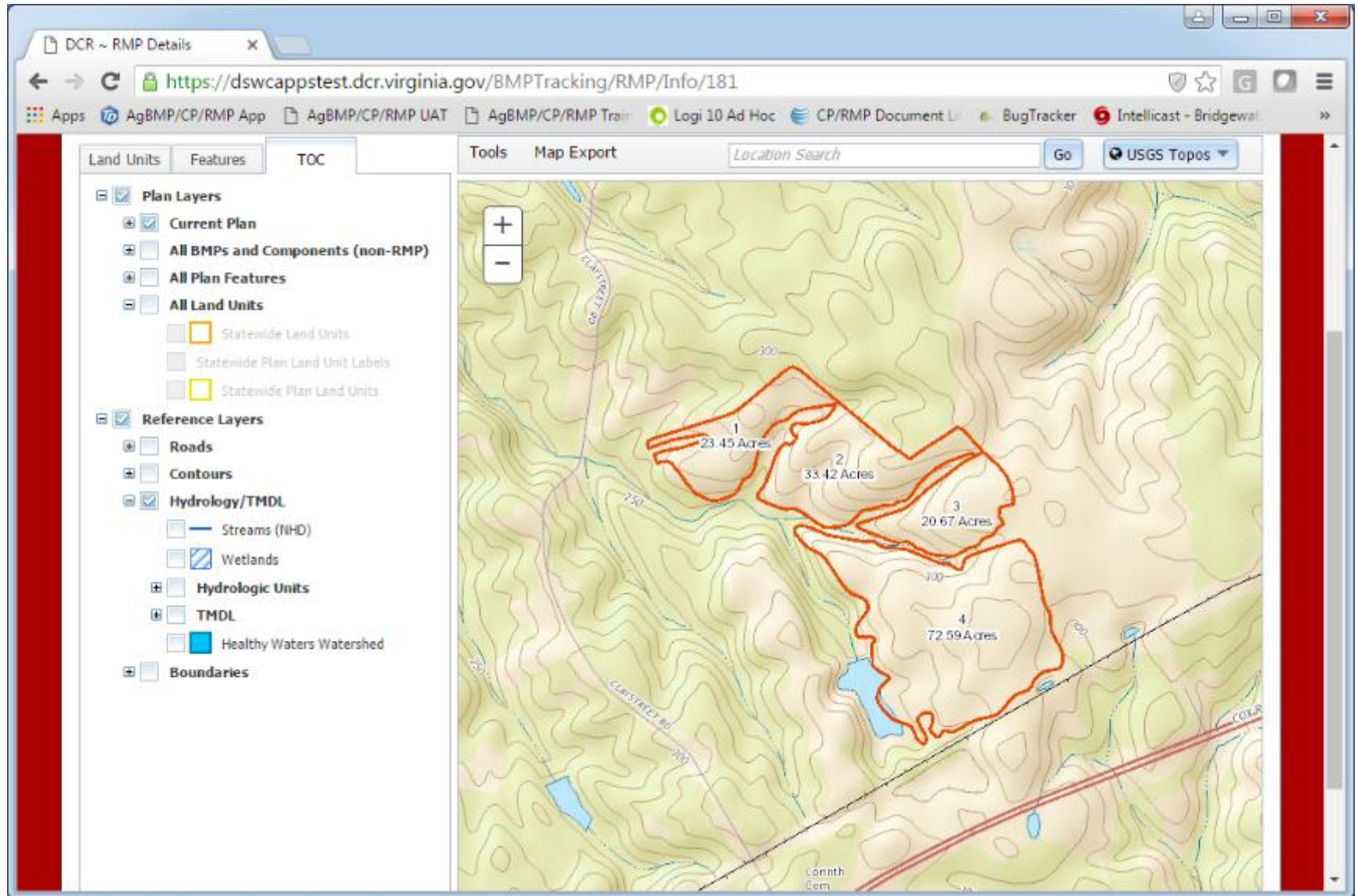
3 20.67 Acres

4 72.59 Acres

RMP Module Example



RMP Module Example



Questions?