DGDC Meeting Minutes
November 13, 2014

Attendance List:

Bruce Allen .....DelDOT
Roger Barlow .....USGS
Naomi Bates.....Landmark Engineering
Stephanie Belinske.....DPH
David Bennett.....DTI
Mark Biddle .....DNREC
Dave Braig .....JMT
Don Burris .....DelaSoft
Kim Cloud.....DTI
Dan Cook .....DTI
Lauri Dafner .....Esri
Lauren Devore.....DelDOT
Jim Galvin .....Dover-Kent MPO
Jay Gerner .....DelDOT
Jeremy Gibb.....City of Dover
Alice Guerrant .....DCHA
Danielle Lamborn .....Kent County
Nicole Minni.....UD-WRA
Miriam Pomilio.....OSPC
Mila Robinson.....DelDOT
Brooke Santiago.....City of Wilmington
Debbie Sullivan .....DTI
Josh Thomas.....DelDOT
Seth VanAken .....Esri
Art Walker .....USDA-NRCS
Despina Wilson .....DOE
George Yocher .....DPH

Welcome & Introductions

Miriam Pomilio started the meeting at 9:05 am. She welcomed everyone to the meeting and introductions were made.

Approval of August 2014 Meeting Minutes

Kim Cloud made a motion to approve the **August 14, 2014 meeting minutes** (PDF). Mark Biddle seconded the motion and it passed unanimously.

Regional GIS Conferences

Past Conferences

NSGIC Annual Meeting – September 14-18, 2014 – Charleston, SC – Kim Cloud reported it was a really good meeting. There were discussions regarding Transportation, E911, and other federal initiatives.

Delaware eDUG – October 1, 2014, Kent Co Building, Dover, DE – Deb Sullivan reported that the eDUG meeting went well with several presentations on UD's transportation project, ArcGIS Online, FirstMap, GeoEducation in Delaware, and Tips and Tricks.

MAC-URISA New Jersey – October 22-24, 2014 – Atlantic City, NJ – Seth from Esri and Dave from JMT attended and said it was a good conference with presentations on ArcGIS Online and other topics of interest. About 250 people attended and ESRI hosted pre-conference workshops.

APA DE/MD Conference – October 28-29, 2014 – Newark, DE – Josh Thomas reported many presentations were about web presence and census information. Jim Gavin reported it was a two day conference and over 300 people attended.

Upcoming Conferences

- GIS Day – November 19, 2014 – Dover, DE
  - Nicole – Everyone is excited. 300 students from 5 schools attending, giving the museum a donation for their use because of vendor sponsorships.
- Esri MUC – December 2-4, 2014 – Baltimore, MD
  - Miriam, Mike Townshend, Debbie Sullivan, Rick Steffers, and Don Burris, will be attending
  - Downtown Baltimore at the Hilton, preconference workshops by ESRI

DRAFT

    - Plenary is Allen Carroll, former National Geographic Cartographer, now in charge of Story Maps at Esri.
- ESRI Federal UC - February 9-10, 2015 – Washington, DC
- ESRI Developer Summit – February 11, 2015 – Washington, DC
- NSGIC Mid-Year – February 23-26, 2015 – Annapolis, MD
    - Still accepting presentations
    - Close by so more DE folks should look to attend
    - Grants available to pay for registration and accommodations
- Coastal Geo-Tools, March 30-April 2, 2015 – Charleston, SC
- TUGIS – March 17, 2015 – Towson, MD

Presentations

NRCS – Art Walker presented on Web Soil Survey Application, his presentation is attached to the meeting minutes.

Esri – Lauri Dafner from Esri presented on ArcGIS Pro which is available now. Lauri's presentation is attached to the meeting minutes.

Delaware Project Updates

eGIS Project - FirstMap Update

Miriam gave an update on the FirstMap. The system is in production and we are looking for agencies to start loading data as appropriate. Contact Firstmap@state.de.us to get set up to load data. New datasets that have been loaded include: 2012 LULC, FEMA flood maps. The revised 2007 LULC will go up shortly. When Delaware receives the new DEM from the LiDAR, it will be served via FirstMap. However the point cloud from the LiDAR will not be served there due to the fact it is mostly needed on local machines for processing. Delaware will rely upon hard drives for distributing the point cloud at this point.

Miriam will be doing outreach to various agencies. She has already met with Public Health and is scheduled to meet with Libraries soon. DTI has set up a distribution list on Blackboard and you can subscribe to that for updates on FirstMap. You can also follow FirstMap on Facebook and Twitter.

Maryland's iMap has a regional geocoder which includes Delaware address data and we've received permission to use that geocoder until the Delaware one is up and running. Once we launch our geocoding service, MD iMap will consume our data into theirs to maintain a regional service.

Land Use Land Cover Data for 2012

Miriam reported the 2012 LULC has been received and QA/QC'd by several state folks. It is now available on FirstMap. Also the Impervious Surface product is available. The revised 2007 LULC will be available soon as well.

Sandy Relief LiDAR Grant

Roger Barlow – Vendor has delivered data to USGS Missouri office for QA/QC. Corrections are due back to the vendor around Thanksgiving and any corrections will be made. Paying partners will receive the data sometime around January via a hard drive.

NOAA bathymetric LiDAR was flown into Early September. The data processing is ongoing and due January 15, 2014. It is anticipated that the final bathymetric LiDAR will be delivered in mid-April 2015. A Shoreline will be developed at 20,000 scale as part of the project.

Federal Update

USGS – Roger Barlow reported that the NHD Stewardship agreement has identified Scott Figurski from DNREC as the new steward; NHD group is reviewing the MOU. Watershed Boundary stewardship will be done by Mark Nardi, local USGS mapping office.

NRCS - Art Walker reported they are working on tool to covert vector soils to raster soils. It is anticipated that the new tool will be available in December, 2014.

Census – Anne Jeffers sent a report via email that Census will be doing a Boundary and Annexation Survey for 2015. It will be digital only. The BAS will be updated shortly for 2015 as well.

Academia Update

University of Delaware – Nicole Minni mentioned an interesting conference, Geo Philly, is being held November 20, 2014.

Open Comment Period

Alice Guerrant, Historic and Cultural Affairs, reported that the new CHRIS application (being built in ArcGIS Online) is close to being completed. Historic and Cultural Affairs hopes this new program will launch at the end of the year.

George Yocher, Delaware Public Health, reported he attended the Census Workshops held November 12. He found the workshop very informative and noted that Census also has a geocoder available for public use. Miriam noted that Census will be scheduling more workshops next year and hopes to gear a few towards the GIS user.

Seth Van Aken, Esri, reported that ArcGIS Pro can be used offline by enabling it before you go offline. He also noted the ArcGIS Pro website provides a comparison of its functionality with ArcGIS Desktop.

2015 Meeting Schedule

The 2015 DGDC Quarterly meeting schedule has been set. They will all begin at 9 am and be held in the Kent County Administrative Complex, Room 220. They are as follows:

February 12, 2015
May 14, 2015
August 13, 2015
November 12, 2015

Adjournment

Roger Barlow made a motion to adjourn the meeting and it was seconded by Dave Bennett. The meeting was adjourned at 11:30 am.

Web Soil Survey

By

Art Walker

GIS Specialist, USDA-NRCS

USDA is an equal opportunity provider and employer.

What is a Soil Survey?

- Science-based study of soil
- Three major parts of a survey are: soil mapping, soil descriptions, and soil interpretations
- Soil scientists play a major role in conducting these surveys

Brief History of NRCS Soil Surveys

- The last major soil survey to be completed in Delaware was in 1970
- Delaware NRCS celebrated 100 years of Soil Surveys (1899 – 1999)
- In 2010, NRCS completed its first digital mapping of a soil survey in New Castle County
- There are currently 1.3 million acres of soils digitally mapped throughout DE

Advantages of Digital Soil Surveys

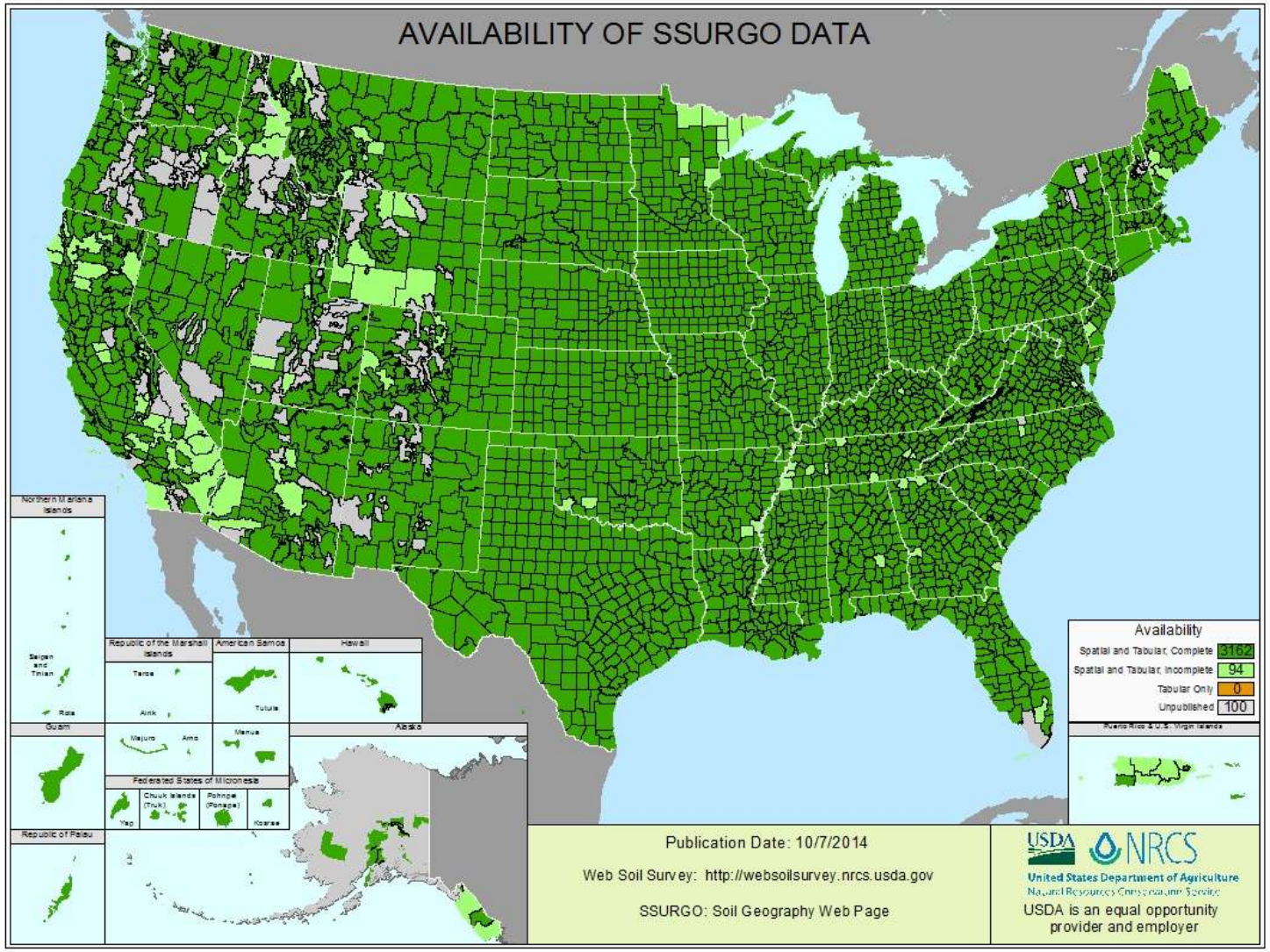
- Access to up-to-date soils data and maps
- Can be used in GIS software (ArcMap) or online
- Provide useful information to anyone who needs it

Who Uses Soil Surveys?

- Farmers
- Community Planners
- Realtors
- Homeowners
- Engineers
- Ecologists
- Sanitarians

What is the Web Soil Survey?

- A powerful tool used to analyze soil data
- Soil survey data consists of both spatial and tabular components
- Provides non-GIS and GIS users with electronic access to relevant soil information
- A product of NCSS


AVAILABILITY OF SSURGO DATA
Northern Mariana Islands
Saipan and Tinian
Rota
Republic of the Marshall Islands
Tarawa
Airik
American Samoa
Tutuila
Hawaii
Guam
Majuro
Arno
Manua
Alaska
Federated States of Micronesia
Chuuk Islands (Truk)
Pohnpei (Ponape)
Yap
Kosrae
Republic of Palau
Availability
Spatial and Tabular, Complete 3162
Spatial and Tabular, Incomplete 94
Tabular Only 0
Unpublished 100
Puerto Rico & U.S. Virgin Islands
Publication Date: 10/7/2014
Web Soil Survey: http://websoilsurvey.nrcs.usda.gov
SSURGO: Soil Geography Web Page
USDA
NRCS
United States Department of Agriculture
Natural Resources Conservation Service
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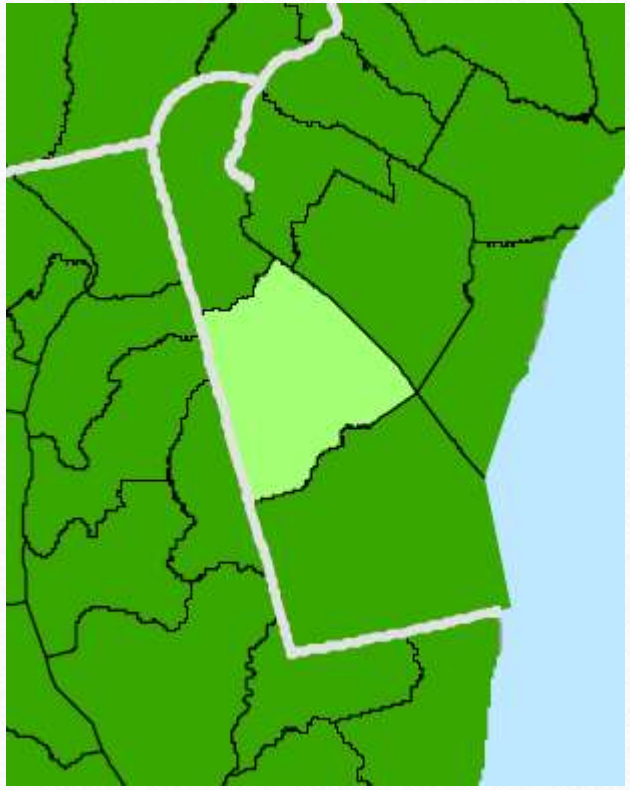


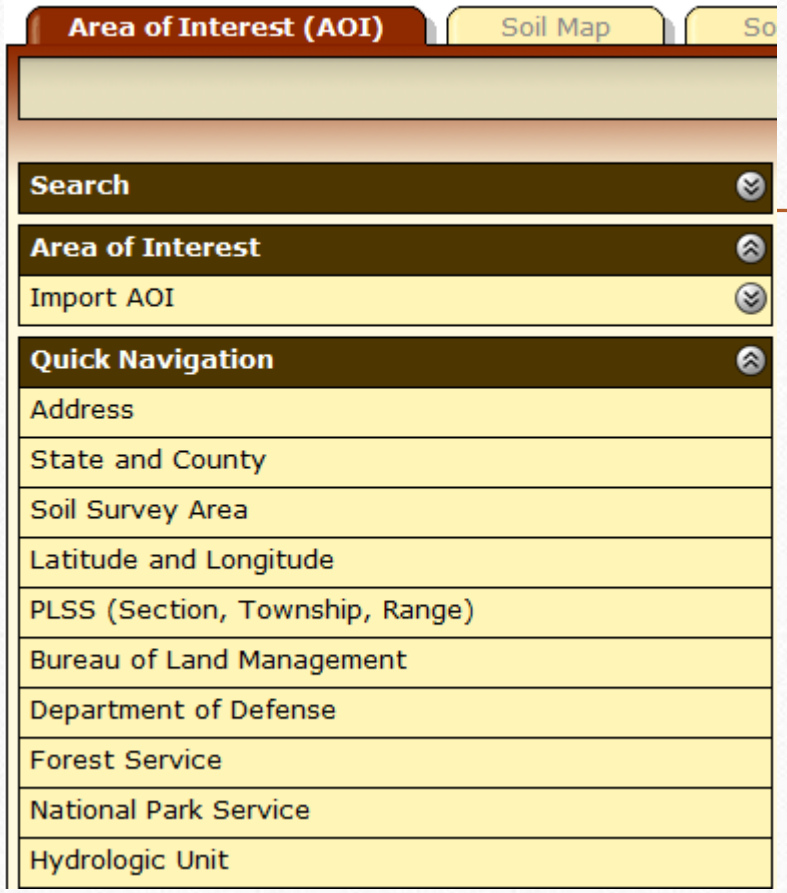
Accessing Web Soil Survey

- http://websoilsurvey.nrcs.usda.gov
- Click on

4 Basic Steps

- Define AOI
- View Map and Print Soils Report
- Explore Your Soils Information
- Check Out Items

Define Your AOI



View Your Soil Map

Area of Interest (AOI) | Soil Map | Soi

Search

Map Unit Legend

New Castle County, Delaware (DE003)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
FaA	Fallsington sandy loam, 0 to 2 percent slopes	0.2	0.1%
FgA	Fallsington loam, 0 to 2 percent slopes	20.7	6.2%
HoA	Hammonton-Fallsington-Mullica complex, 0 to 2 percent slopes	1.6	0.5%
ImB	Ingleside-Hammonton-Fallsington complex, 0 to 5 percent slopes	2.9	0.9%
MtA	Mattapex silt loam, 0 to 2 percent slopes	13.1	4.0%
MtB	Mattapex silt loam, 2 to 5 percent slopes	74.6	22.5%
OtA	Othello silt loam, 0 to 2 percent slopes	1.9	0.6%
SaB	Sassafras sandy loam, 2 to 5 percent slopes	132.6	40.1%
SaC	Sassafras sandy loam, 5 to 10 percent slopes	35.6	10.8%
SaD	Sassafras sandy loam, 10 to 15 percent slopes	38.1	11.5%
Za	Zekiah sandy loam, frequently flooded	9.5	2.9%
Totals for Area of Interest		**330.7**	**100.0%**

Map Unit Description

Printable Version

Report — Map Unit Description

New Castle County, Delaware

FaA—Fallsington sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2p7fq
Elevation: 0 to 120 feet
Mean annual precipitation: 42 to 48 inches
Mean annual air temperature: 52 to 58 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Fallsington, undrained, and similar soils: 40 percent
Fallsington, drained, and similar soils: 40 percent
Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Fallsington, Drained

Setting

Landform: Flats, depressions, swales
Landform position (three-dimensional): Talf
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Parent material: Loamy fluviomarine sediments

Typical profile

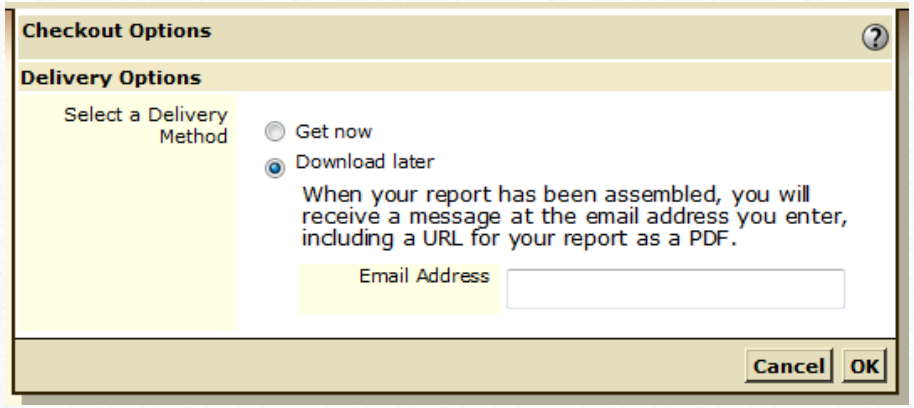
Ap - 0 to 10 inches: sandy loam
Btg - 10 to 32 inches: sandy clay loam
BCg - 32 to 39 inches: loamy sand
Cg1 - 39 to 46 inches: sandy clay loam
Cg2 - 46 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: Rare
Available water storage in profile: Moderate (about 8.2 inches)

Explore Your Soil Information

Check Out Items

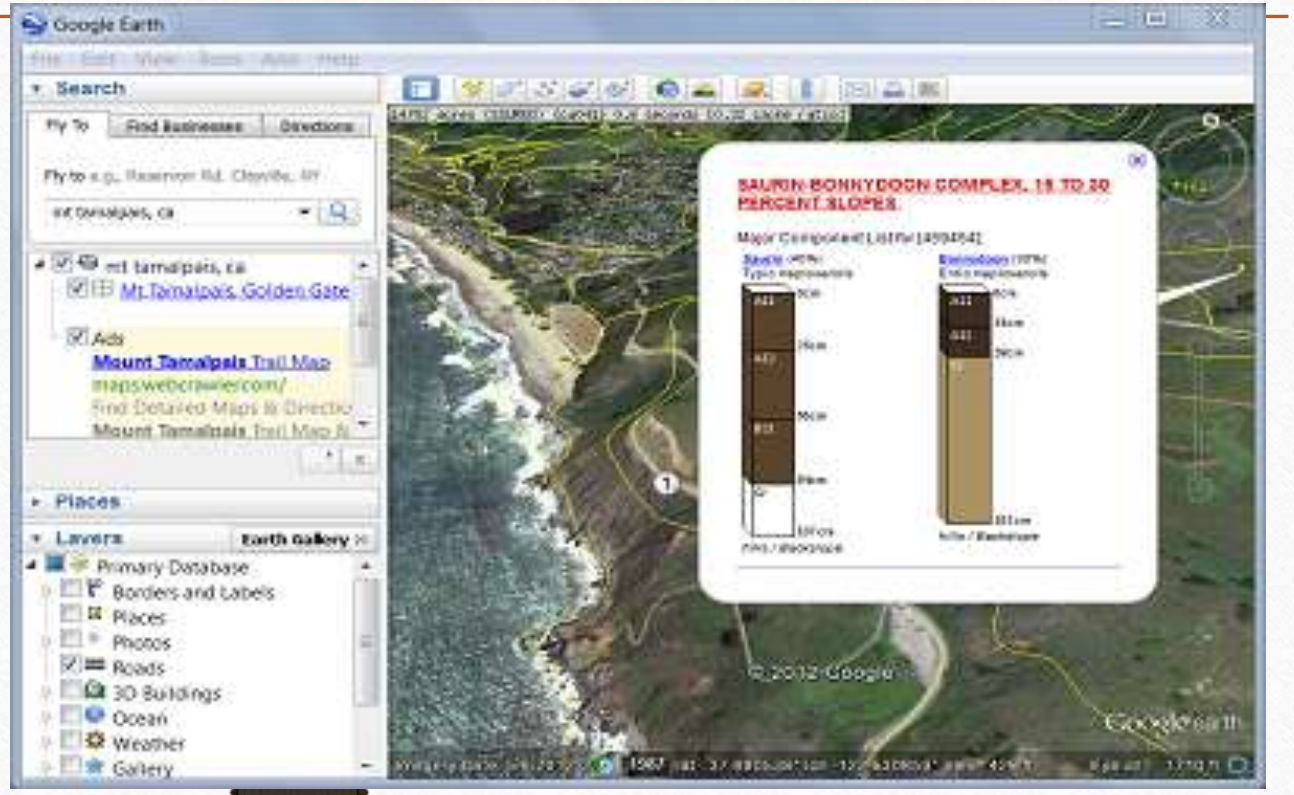


Other NRCS Soil Applications

- Soil Data Mart
- Soil Data Viewer
- SoilWeb

SoilWeb

Carrier
10:11 PM
Save
SoilWeb for iPhone
GPS Accuracy Threshold (m)
10
250
500
750
1000
outside clear
outside covered
indoors or dense canopy
I feel lucky
SoilWeb is developed and maintained by Dylan E. Beaudette and Anthony T. O'Geen of the Soil Resource Laboratory, Dept. LAWR, UC Davis. Data are provided for educational purposes only, and should not be used for final land-use decisions.
For more information on SoilWeb, please see:
Soil Survey (SSURGO) data was collected from the NRCS Soil-Data Mart.
California Soil Resource Lab
Department of
LAND, AIR AND WATER RESOURCES
University of California, Davis
Climate Change • Sustainable Agriculture
Environmental Quality • Landscape Processes


Google Earth
Search
Fly To
Find Businesses
Directions
Mt Tamalpais, Golden Gate
Ads
Mount Tamalpais Trail Map
Places
Layers
Earth Gallery
Primary Database
Borders and Labels
Places
Photos
Roads
3D Buildings
Ocean
Weather
Gallery
SAURON-BONNYDOON COMPLEX, 15 TO 30 PERCENT SLOPES
© 2012 Google
Google earth

Delaware Soil Facts

- Greenwich is Delaware's State Soil
- 80 soil series
- 195 soil map units (soil types)

Partners of NCSS

- Delaware Office of State Planning
- Delaware Department of Agriculture
- Delaware Department of Natural Resources and Environmental Control (DNREC)
- First State Resource Conservation and Development (RC & D) Council
- Delaware Conservation District
- University of Delaware

Important NRCS Soil Acronyms

- NCSS
- NASIS
- NSSC
- NSSL
- SSURGO

SOIL

PITS

Contact Info

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Phil King, State Soil Scientist, USDA-NRCS

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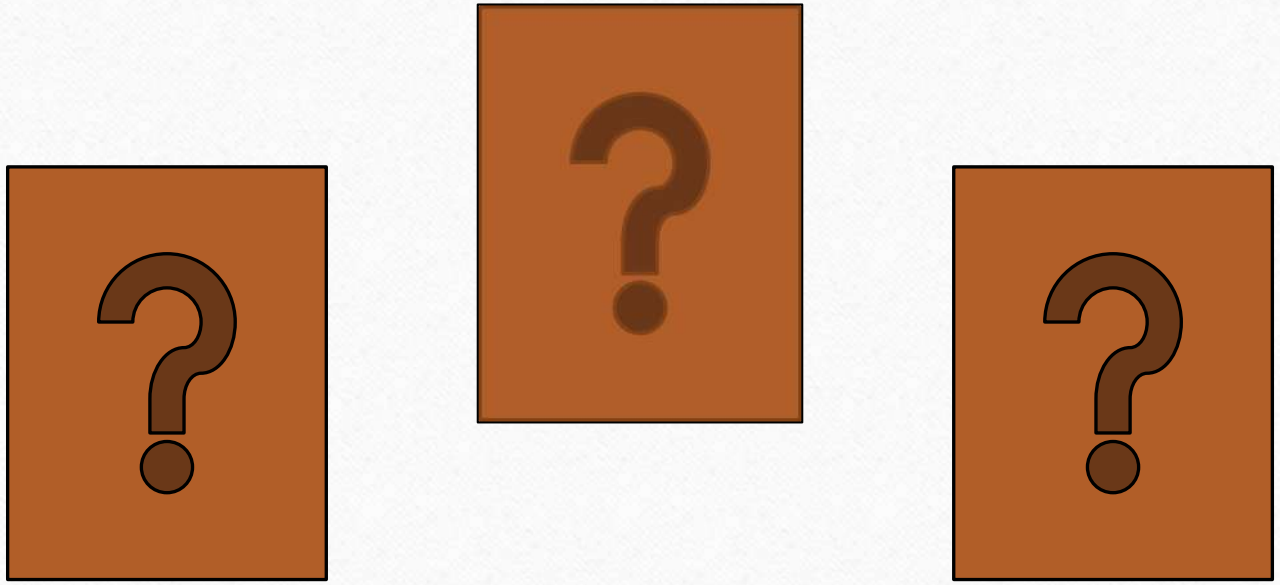
302-678-4172

Questions



ArcGIS Pro: An Introduction

Lauri Dafner

Seth Van Aken

Esri @ DGDC

November 13, 2014

Agenda

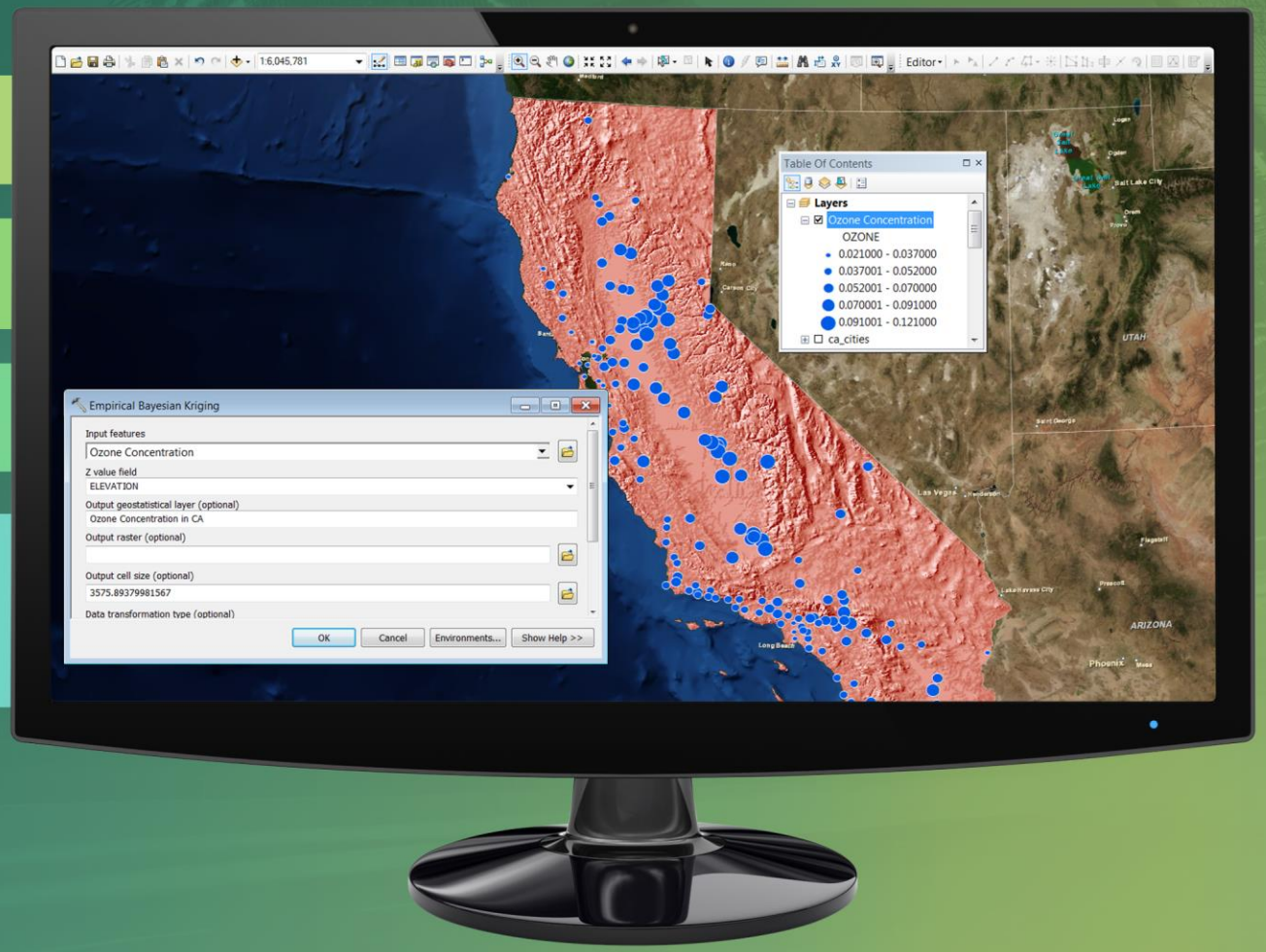
- **Introduction to ArcGIS Pro**
  - **What is ArcGIS Pro?**
  - **Functionality tour**
  - **Licensing**
  - **Additional resources**

Manage your Data

Perform Advanced Analysis

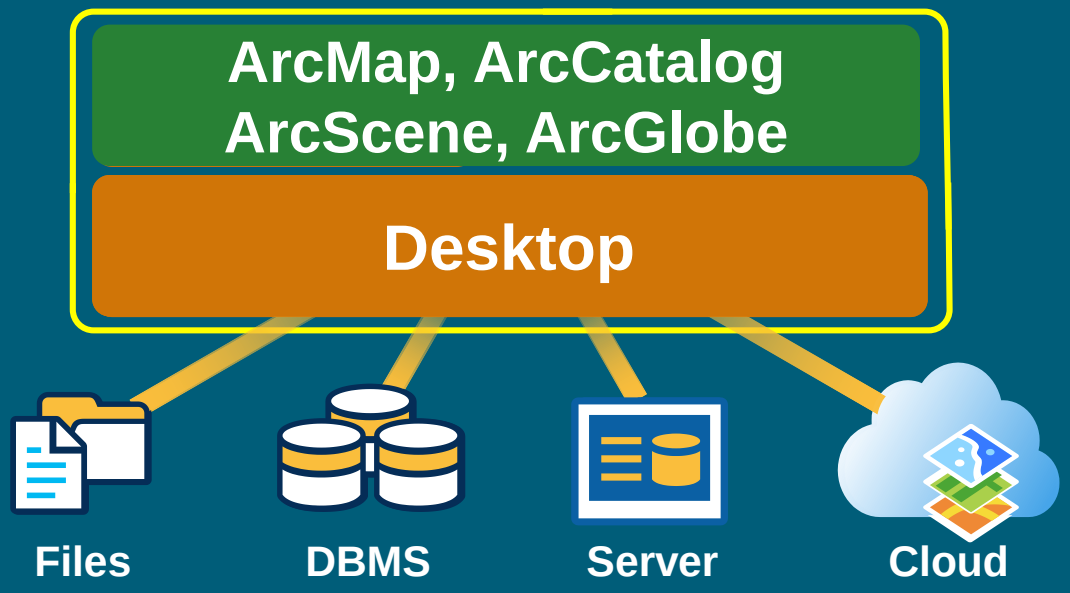
Model and Automate Workflows

Display your results on Professional Quality Maps



ArcGIS for Desktop *today*

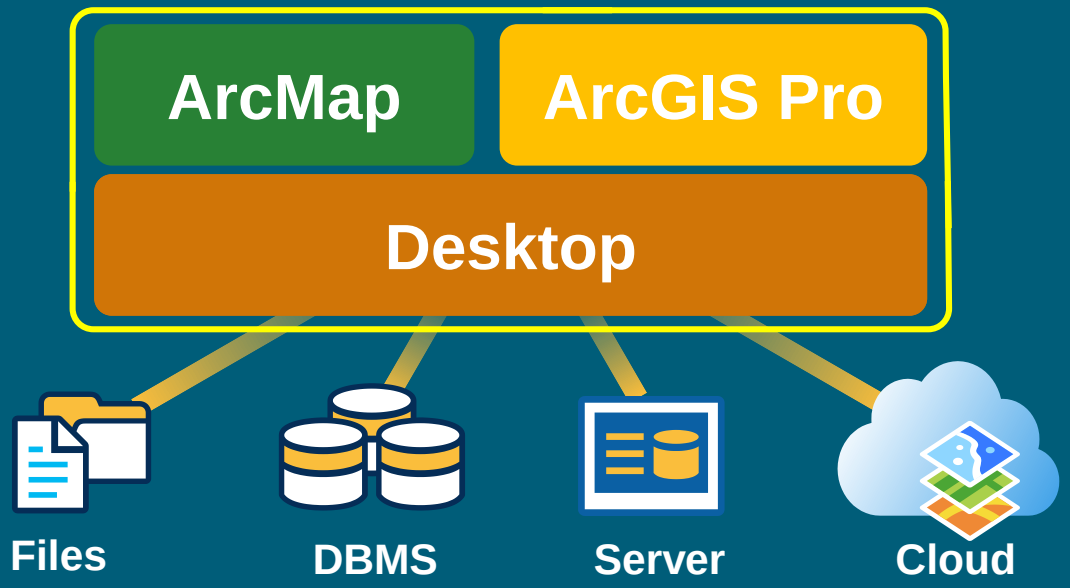
- Current release is version 10.2.2
- Licensed : Basic, Standard, Advanced



ArcGIS Pro

A New Application for Desktop

- Improved User Experience
- Very Fast, 64 bit
- Combined 2D and 3D
- Project focused
- Powerful Analysis
- Multiple Layouts



Is ArcGIS Pro a replacement for ArcMap? No

- It’s a new application, not a replacement
- ArcMap continues to get better
- ArcMap and Pro run side by side

Side-by-Side

Demo: Getting Started

Key ArcGIS Pro Takeaways

- 2D and 3D editing
- 64 Bit
- Multiple layouts
- Integration with ArcGIS Online
- Customization
  - Automate with Python
  - Extend using .NET API and SDK
- Tasks – capture workflow in series of steps and share it

Getting ready for ArcGIS Pro

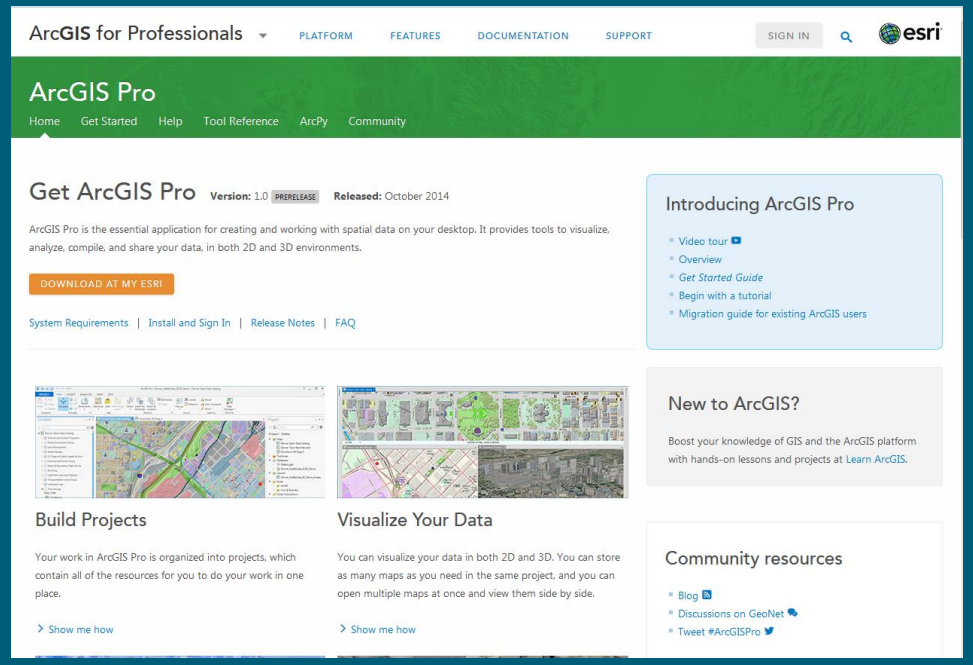
Know before you Pro!

ArcGIS 10.3 Pre-release is now available to all current customers!

For ArcGIS Pro (watch this):

1. Primary Maintenance Administrator:
   - Downloads from http://My.Esri.com
2. ArcGIS Online Administrator
   - Provision licenses for Pro

Additional Help for current Desktop:
Upgrading ArcGIS for Desktop 10.3



Whats New in Training for ArcGIS Pro

- **10.3 New and Updated Courses (Web and Instructor Led)**

❑ Getting Started with ArcGIS Pro

- Anticipated Release Date, Second Quarter of 2015

- Free Web Course (3 hours)

- Highlight the major interface components and workflows for mapping, analysis, and sharing of GIS data

- Quickstart for experienced ArcGIS for Desktop users

❑ Introduction to ArcGIS Pro for GIS Professionals

- Anticipated Release Date, Second Quarter of 2015

- Instructor Led Course (2 Days)

- Familiarize users with essential ArcGIS Pro terminology

- Complete tasks related to mapping, editing, geoprocessing, and analysis

- Prerequisite is ArcGIS 2: Essential Workflows

- Focus for experienced ArcGIS for Desktop users

- *Getting Started for ArcGIS Pro is for the beginning GIS user whereas the Introduction to ArcGIS Pro for GIS Professionals is for more advanced users.

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@ArcGISPro

esri

Understanding our world.