



What is ArcGIS?

- An integrated collection of GIS software products for building a complete GIS

Desktop, Mobile, Server, On-line, Developer Tools and Viewers

- FWS primarily uses the **Desktop** family



Why ArcGIS?

- The defacto GIS software standard within the FWS

Who else uses ArcGIS?

- Most Federal & State Land Management Agencies
USGS, Forest Service, NPS, BLM, FWS



Who is ESRI ?

- Environmental Systems Research Institute,
Redlands, CA

<http://www.esri.com/index.html>



Are there other GIS software packages?



<http://www.intergraph.com/>



<http://www.pbinsight.com/welcome/mapinfo/>



<http://grass.osgeo.org/>



<http://www.qgis.org/en/site/>



ArcGIS Desktop, Versions 10.1 - 10.2.2

Basic - \$



Standard - \$\$



Advanced - \$\$\$





ArcGIS Desktop, Versions 8.3 - 10.0

ArcView - \$



ArcEditor - \$\$

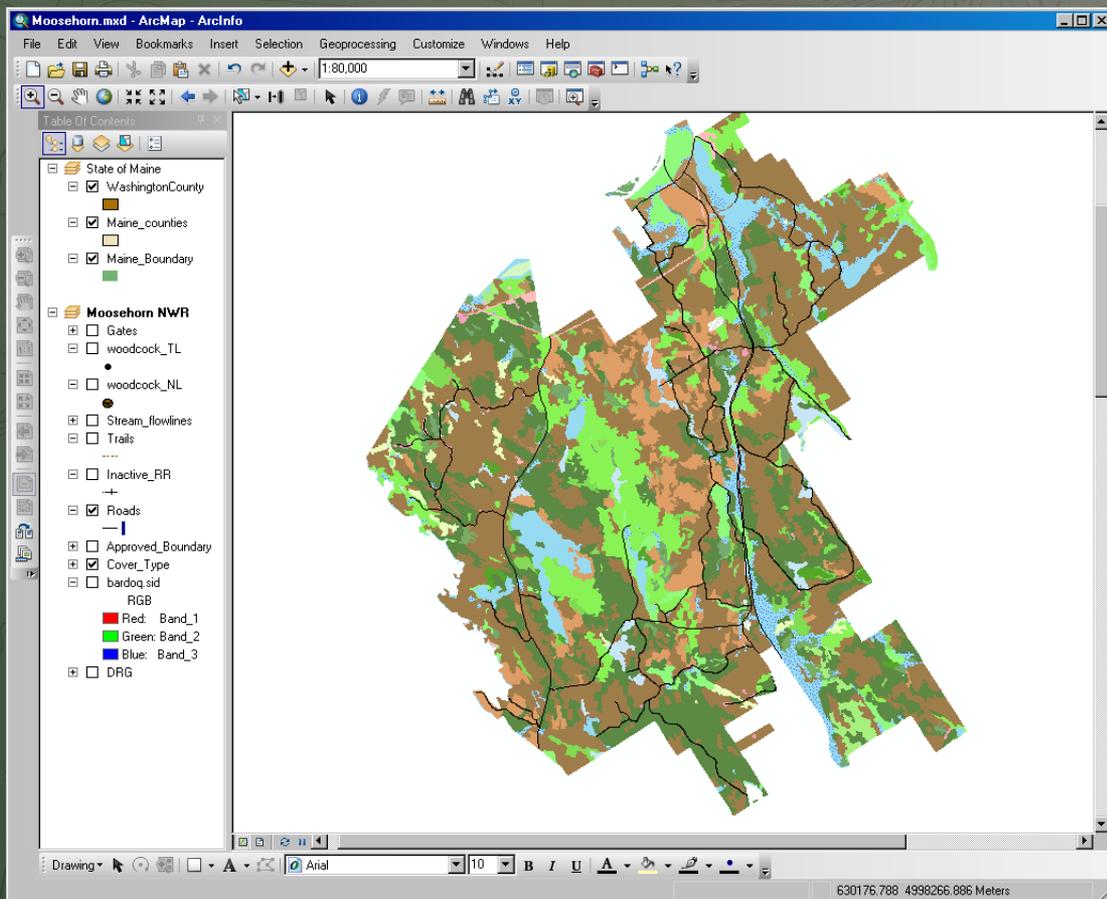


ArcInfo - \$\$\$





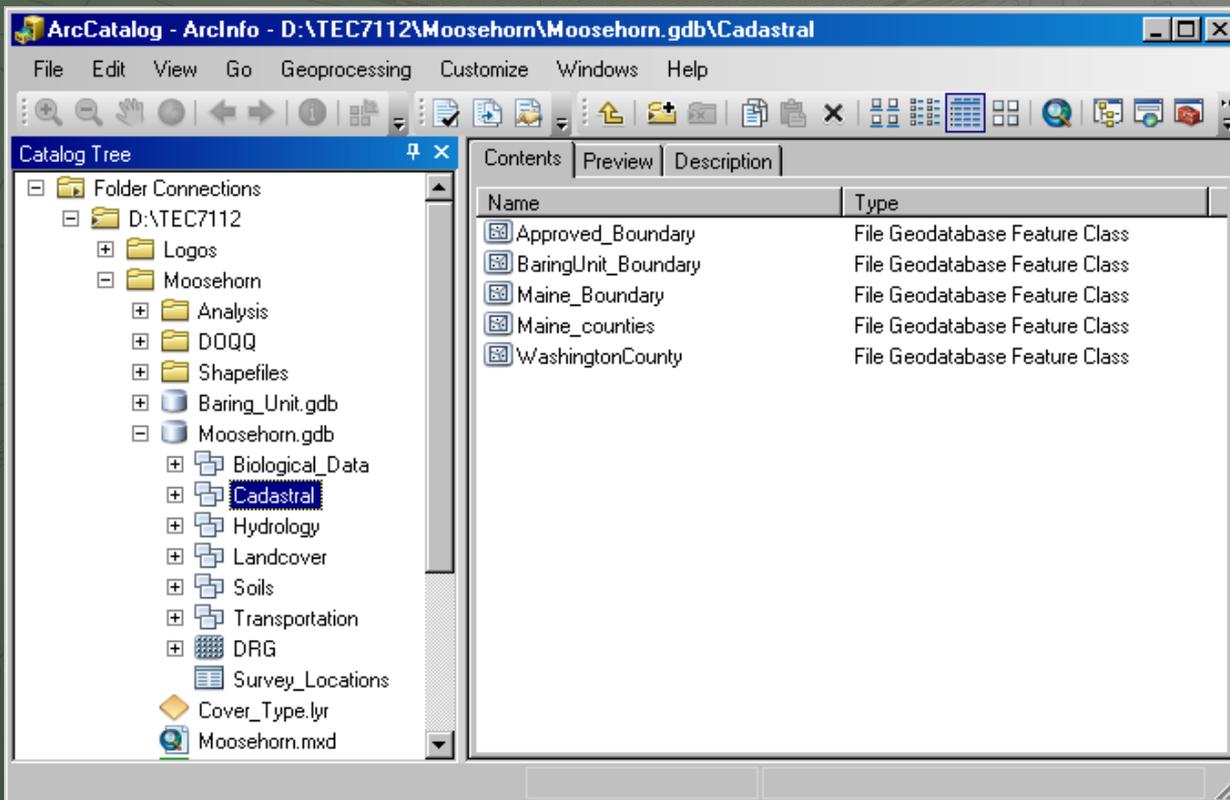
ArcMap



View GIS data
(graphically or in tables)
& create maps



ArcCatalog



Manage & organize
GIS files



ArcToolbox



Manipulate GIS data
(reproject & transform)

The screenshot shows the ArcMap interface with the Buffer tool dialog box open. The dialog box is titled "Buffer" and contains the following fields and options:

- Input Features:** A dropdown menu with a folder icon to its right.
- Output Feature Class:** A text input field with a folder icon to its right.
- Distance [value or field]:** A radio button for "Linear unit" is selected, with a text input field containing "Meters" and a dropdown menu.
- Field:** A radio button for "Field" is unselected, with a text input field.
- Side Type (optional):** A dropdown menu set to "FULL".
- End Type (optional):** A dropdown menu set to "ROUND".
- Dissolve Type (optional):** A dropdown menu set to "NONE".
- Dissolve Field(s) (optional):** A text input field.

At the bottom of the dialog box are buttons for "OK", "Cancel", "Environments...", and "Show Help >>". The ArcToolbox is visible on the left side of the window, showing a tree view of tool categories including 3D Analyst Tools, Analysis Tools, Extract, Overlay, Proximity, Buffer, Create Thiessen Po, Generate Near Tab, Multiple Ring Buffer, Near, Point Distance, Statistics, Cartography Tools, Conversion Tools, Data Interoperability Tools, Data Management Tools, Geocoding Tools, Geostatistical Analyst Tools, Linear Referencing Tools, Network Analyst Tools, Spatial Analyst Tools, and Spatial Statistics Tools.



ArcInfo Workstation (1981-1999) Versions 1.0 - 8.0

- High end developers tool – High geek factor
- Hosted on a Unix, IBM mainframe or Prime Mini computer
- Command line - **Arc:**
- Proprietary Programming Language - AML
- Not user-friendly or for the casual user!



The old ArcView (1991-Present) Versions 1.0 – 3.3

- Originally developed for non-GIS specialists - Biologist, Managers, Recreation Planners
- GUI Graphical User Interface
- User-friendly, sort of
- Proprietary Programming Language - Avenue
- Reads Shape files and Coverages



DOI ESRI Enterprise License Agreement (ELA):

- The ELA is a set yearly cost for software, extensions, virtual campus, ESRI International User Conference passes, ArcGIS online credits and more...
- The cost is paid nationally through IT Shared Costs that are incurred by Regions/Programs - individual field offices/programs are not billed
- How to obtain a desktop license, installation guides/scripts are found on the Geospatial Services SharePoint site



The ELA also includes :

- Category A Software (other software can be purchased through ESRI with GSA prices)
- ArcPad
- Unlimited ESRI Virtual Campus Seats for standard & premium classes
- Limited complementary ESRI Annual User Conference Passes
- Authorized tech support callers (25). Please contact your Regional Representative to have ESRI tech support call you back



FWS GeoSpatial Services SharePoint

<https://fishnet.fws.doi.net/projects/GIS>

- Regional Points of Contact
- FWS GIS Listserve
- ESRI Authorized Callers
- ESRI On-line Training
- NCTC Training/Courses/Workshop

Must be on the **FWS Active Directory** to gain access