

# ArcGIS

## 5.1 Viewing layers in ArcMap (for your notes)

## 5.2 Introduction to ArcMap

ArcMap allows the user to display and query maps, create quality hardcopy maps and perform many spatial analysis tasks. ArcMap provides an easy transition from viewing a map to editing its spatial features.

### **The following is from ESRI:**

ArcMap is the central application in ArcGIS Desktop for all map-based tasks including cartography, map analysis, and editing. ArcMap is a comprehensive map authoring application for ArcGIS Desktop.

ArcMap offers two types of map views

- Geographic data view—an environment where geographic layers are symbolized, analyzed, and compiled into GIS data sets. A table of contents interface organizes

and controls the drawing properties of the GIS data layers in the data frame. The data view is a window into any GIS data set for a given area.

- Page layout view—an environment where map pages contain geographic data views as well as other map elements such as scale bars, legends, north arrows, and reference maps. The page layout view is used to compose maps on pages for printing and publishing.

### **5.3 Introduction to ArcToolbox**

ArcToolbox™ provides an environment for performing geoprocessing operations (i.e., operations that involve alteration or information extraction). Tools step the user through the many geoprocessing tasks. ArcToolbox is embedded in both ArcCatalog and ArcMap.

#### **The following is from ESRI:**

ArcToolbox contains a comprehensive collection of geoprocessing functions including tools for: data management, data conversion, coverage processing, vector analysis, geocoding, and statistical analysis.

ArcToolbox is embedded in ArcCatalog and ArcMap and is available in ArcView, ArcEditor, and ArcInfo.

### **5.4 Introduction to ArcCatalog**

ArcCatalog™ allows the user to easily access and manage geographic data that is stored in folders on local disks or relational databases that are available on the user's network. Data can be copied, moved, deleted, and quickly viewed before it is added to a map. In addition, metadata can be either read or created using this ArcGIS application.

#### **The following is from ESRI:**

The ArcCatalog application organizes and manages all GIS information such as maps, globes, data sets, models, metadata, and services. It includes tools to: browse and find geographic information; record, view, and manage metadata; define, export, and import

geodatabase schemas and designs; search and browse GIS data on local networks and the web; and administer an ArcGIS server.

Users employ ArcCatalog to organize, find, and use GIS data as well as document data holdings using standards-based metadata. A GIS database administrator uses ArcCatalog to define and build geodatabases. A GIS server administrator uses ArcCatalog to administer the GIS server framework.