

# ArcGIS 9.1 Desktop Functionality Matrix

## Mapping

| <b>Map Interaction</b>                                      | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| <b>Map Navigation</b>                                       |                  |                |                  |                |
| Pan and Zoom the Map  | X                | X              | X                | X              |
| Zoom to the Extent of a Layer                               | X                | X              | X                | X              |
| Use Spatial Bookmarks                                       | X                | X              | X                | X              |
| Access Hyperlinks   | X                | X              | X                | X              |
| Use Dynamic MapTips   | X                | X              | X                | X              |
| Use Magnification Window                                    | X                | X              | X                | X              |
| Interactively Reveal Areas beneath a Specific Layer (Swipe) | X                | X              | X                | X              |
| Pan and Zoom to Selected Features                           |                  | X              | X                | X              |
| Create Hyperlink to External Application, Macro, or URL     |                  | X              | X                | X              |
| Create and Manage Spatial Bookmarks                         |                  | X              | X                | X              |
| Use Overview Window   |                  | X              | X                | X              |
| <b>Queries</b>  |                  |                |                  |                |
| Identify Features in the Map                                | X                | X              | X                | X              |
| Measure Distances   | X                | X              | X                | X              |
| Find Features in the Map                                    | X                | X              | X                | X              |
| Select Data by Location                                     |                  | X              | X                | X              |
| Select Data by Attribute                                    |                  | X              | X                | X              |
| Nationwide USA Point-to-Point Street Routing                |                  | X              | X                | X              |

| <b>Map Display</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| <b>General Mapping</b>  |                  |                |                  |                |
| Visualize the Map Page or a Specific Set of Data                      | X                | X              | X                | X              |
| Perform On-the-Fly Projection of All Data                             | X                | X              | X                | X              |
| Enable Full Cartographic Visualization of Any PMF File                | X                | X              | X                | X              |
| Interactively Set Percent Transparency for All Data Layers            | X                | X              | X                | X              |
| Set a Minimum and Maximum Scale to Display Data                       |                  | X              | X                | X              |
| Clip the Map Display to a Feature or Graphic                          |                  | X              | X                | X              |
| Create Graticules, Measured Grids, and Reference Grids                |                  | X              | X                | X              |
| Create Extent Rectangles for Other Data (Reference and Overview Maps) |                  | X              | X                | X              |
| Variable Depth Layer Masking  |                  | X              | X                | X              |
| <b>Tabular Data</b>   |                  |                |                  |                |
| Create On-the-fly Dynamic Joins between Different Databases           |                  | X              | X                | X              |
| Create and Use Many-to-One and One-to-Many Relationships              |                  | X              | X                | X              |

| <b>Map Display</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| Create Statistics  |                  | X              | X                | X              |
| Summarize Data   |                  | X              | X                | X              |
| Create Charts and Reports                                    |                  | X              | X                | X              |
| Build Detailed Reports Using Crystal Reports                 |                  | X              | X                | X              |
| Sort by Multiple Attributes                                  |                  | X              | X                | X              |
| Connect to and Use Remote Database Tables                    |                  | X              | X                | X              |
| Display Tabular X,Y Point Data From a File or Table on a Map |                  | X              | X                | X              |
| <b>Vector Data Display</b>                                   |                  |                |                  |                |
| Control Selection Color for Each Dataset                     |                  | X              | X                | X              |
| Create MapTips   |                  | X              | X                | X              |
| Fix Symbology to a Specific Map Scale                        |                  | X              | X                | X              |
| Interactively Exclude Specific Features from the Display     |                  | X              | X                | X              |
| Control Which Features to Display Using a SQL Query          |                  | X              | X                | X              |
| Control Which Data Fields Are Accessible from the Map        |                  | X              | X                | X              |
| <b>Thematic Vector Data Classifications</b>                  |                  |                |                  |                |
| Single Symbol  |                  | X              | X                | X              |
| Unique Value   |                  | X              | X                | X              |
| Match to Predefined Style                                    |                  | X              | X                | X              |
| Graduated Colors or Symbols                                  |                  | X              | X                | X              |
| Proportional Symbols   |                  | X              | X                | X              |
| Dot Density Mapping  |                  | X              | X                | X              |
| Chart Mapping Including Pie and Bar Chart                    |                  | X              | X                | X              |
| Bivariate and Multivariate Data Rendering                    |                  | X              | X                | X              |
| Interactive Histogram for Data Classification                |                  | X              | X                | X              |
| <b>Symbology</b>   |                  |                |                  |                |
| Use Interactive Symbol Composer                              |                  | X              | X                | X              |
| Select Advanced Drawing Options for Control over Draw Order  |                  | X              | X                | X              |
| Access More Than 18,000 Predefined Symbols                   |                  | X              | X                | X              |
| Use Halos and Advanced Background Symbols                    |                  | X              | X                | X              |
| Define Symbols for Fill, Lines, Outlines, and Points         |                  | X              | X                | X              |
| Support User-Imported Graphic Fill Patterns                  |                  | X              | X                | X              |
| <b>Surface Display</b>                                       |                  |                |                  |                |
| Display Faces, Nodes, and Triangles                          |                  | X              | X                | X              |
| Slope  |                  | X              | X                | X              |
| Hillshade  |                  | X              | X                | X              |
| Aspect   |                  | X              | X                | X              |
| Elevation  |                  | X              | X                | X              |
| Modifying the Sun Position to Customize the Surface Display  |                  | X              | X                | X              |

| <b>Page Layout and Printing</b> | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---------------------------------|------------------|----------------|------------------|----------------|
| <b>Map Elements</b>             |                  |                |                  |                |
| Title                           |                  | X              | X                | X              |
| Text                            |                  | X              | X                | X              |

| <b>Page Layout and Printing</b>                             | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| Neatlines   |                  | X              | X                | X              |
| Legend  |                  | X              | X                | X              |
| North Arrows  |                  | X              | X                | X              |
| Scale Bar   |                  | X              | X                | X              |
| Scale Text  |                  | X              | X                | X              |
| Pictures  |                  | X              | X                | X              |
| OLE Objects   |                  | X              | X                | X              |
| Measured Reference Grid                                     |                  | X              | X                | X              |
| Graticules  |                  | X              | X                | X              |
| <b>Export Formats</b>                                       |                  |                |                  |                |
| Enhanced Metafile (EMF)                                     |                  | X              | X                | X              |
| Windows Bitmap (BMP)  |                  | X              | X                | X              |
| Encapsulated PostScript (EPS)                               |                  | X              | X                | X              |
| Tagged Image File Format (TIFF)                             |                  | X              | X                | X              |
| Portable Document Format (PDF)                              |                  | X              | X                | X              |
| Joint Photographics Experts Group (JPEG)                    |                  | X              | X                | X              |
| Portable Network Graphics (PNG)                             |                  | X              | X                | X              |
| Graphic Interchange Format (GIF)                            |                  | X              | X                | X              |
| Scalable Vector Graphics (SVG)                              |                  | X              | X                | X              |
| Adobe Illustrator (AI)                                      |                  | X              | X                | X              |
| PostScript Color Separates (With Page Marks)                |                  | X              | X                | X              |
| <b>Print with the Following Print Drivers</b>               |                  |                |                  |                |
| Windows   | X                | X              | X                | X              |
| PostScript  |                  | X              | X                | X              |
| ArcPress HP RTL (RGB, CMYK, and Monochrome)                 |                  | X              | X                | X              |
| ArcPress HP PCL (RGB, CMYK, and Monochrome)                 |                  | X              | X                | X              |
| Process Print Jobs on the Local Machine for Faster Printing |                  | X              | X                | X              |

| <b>Map Text</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Labels</b>  |                  |                |                  |                |
| Creating Dynamic On-the-Fly Labels                                       |                  | X              | X                | X              |
| Automatic Conflict Detection and Label Placement                         |                  | X              | X                | X              |
| Label Placement Rules for Setting Priority between Layers                |                  | X              | X                | X              |
| Placement Rules for Setting Importance of Labels vs. Features            |                  | X              | X                | X              |
| Many Predefined Label Styles (e.g., Highway Shields)                     |                  | X              | X                | X              |
| Labels Rotate from an Attribute Field                                    |                  | X              | X                | X              |
| Multiple Dynamic Labeling Schemes Built for Each Map Layer               |                  | X              | X                | X              |
| Control Which Features in a Layer Display Labels                         |                  | X              | X                | X              |
| Advanced Text Formatting Tags for Dynamic Label Symbolology              |                  | X              | X                | X              |
| <b>Annotation</b>  |                  |                |                  |                |
| Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text) |                  | X              | X                | X              |
| Create Text Annotation Data from Labels                                  |                  | X              | X                | X              |

| <b>Map Text</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Annotation Editing</b>  |                  |                |                  |                |
| Interactively Move, Rotate, and Scale Annotation   |                  | X              | X                | X              |
| Add Horizontal or Angled Annotation  |                  | X              | X                | X              |
| Add Annotation with a Leader Line  |                  | X              | X                | X              |
| Create Annotation That Follows a Curved Line or the Shape of an Existing Feature                   |                  | X              | X                | X              |
| Dynamically Pull Annotation Values from Layers in the Map  |                  | X              | X                | X              |
| Interactively Manage Annotation That Could Not Be Placed during Initial Annotation Creation        |                  | X              | X                | X              |
| Edit Each Word in an Annotation String Independently   |                  | X              | X                | X              |
| Interactively Stack and Unstack Annotation   |                  | X              | X                | X              |
| Flip Annotation Strings  |                  | X              | X                | X              |
| Interactively Modify the Curvature and Orientation of a Line                                       |                  | X              | X                | X              |
| Edit the Symbology of a Single Annotation Feature or a Group of Annotation Features Simultaneously |                  | X              | X                | X              |
| <b>Annotation and Dimensions Management</b>  |                  |                |                  |                |
| Store Annotation in a Geodatabase or a Map Document  |                  | X              | X                | X              |
| Create Annotation Subclasses   |                  |                | X                | X              |
| Create Aligned Dimensions Displaying the True Distance between Points                              |                  |                | X                | X              |
| Create Linear Dimensions Displaying Horizontal, Vertical, or an Angled Distance between Points     |                  |                | X                | X              |
| Create and Edit Feature-Linked Annotation Feature Classes in a Geodatabase                         |                  |                | X                | X              |

| <b>Advanced Labeling<sup>1</sup></b>     | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Advanced Label Placement Rule Set</b> |                  |                |                  |                |
| Street Placement                         |                  |                |                  | X              |
| Customizable Dynamic Stacking            |                  |                |                  | X              |
| Font Reduction                           |                  |                |                  | X              |
| Customizable Abbreviation                |                  |                |                  | X              |
| Polygon Boundary Placement               |                  |                |                  | X              |
| Repeated Labeling                        |                  |                |                  | X              |
| Character Spreading                      |                  |                |                  | X              |
| Word Spreading                           |                  |                |                  | X              |
| Label Overrun on Features                |                  |                |                  | X              |
| Curved Polygon Placement                 |                  |                |                  | X              |
| Graticule Labeling Alignment             |                  |                |                  | X              |
| User-Defined Point Label Zones           |                  |                |                  | X              |
| Background Labeling                      |                  |                |                  | X              |
| Land Parcel Placement                    |                  |                |                  | X              |
| Advanced Feature Weighting               |                  |                |                  | X              |
| Advanced Label Offsets                   |                  |                |                  | X              |

| <b>Advanced Labeling<sup>1</sup></b> | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--------------------------------------|------------------|----------------|------------------|----------------|
| Advanced Line Label Positions        |                  |                |                  | X              |
| Advanced Curved Label Placement      |                  |                |                  | X              |

<sup>1</sup> The advanced labeling functionality is available through the Maplex for ArcGIS extension, which can be purchased with ArcView or ArcEditor but is automatically included with an ArcInfo license.

| <b>Address Matching</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| <b>Geocoding Tools</b>  |                  |                |                  |                |
| Single or Batch Address Geocoding   |                  | X              | X                | X              |
| Tools for Processing Addresses That Could Not Be Found                                    |                  | X              | X                | X              |
| Client/Server Geocoding Using Multiuser Geodatabase                                       |                  | X              | X                | X              |
| Multiple Geocoding Services (Indexes) per Data Source                                     |                  | X              | X                | X              |
| Aggregate Multiple Geocoding Services into a Single Geocoding Service (Composite Locator) |                  | X              | X                | X              |
| <b>Geoprocessing</b>  |                  |                |                  |                |
| Automate Geocoding Indexes  |                  | X              | X                | X              |
| Create Address Locator  |                  | X              | X                | X              |
| Deautomate Geocoding Indexes  |                  | X              | X                | X              |
| Delete Address Locator  |                  | X              | X                | X              |
| Geocode Addresses   |                  | X              | X                | X              |
| Rebuild Geocoding Indexes   |                  | X              | X                | X              |
| Standardize Addresses   |                  | X              | X                | X              |
| USA Locator for Nationwide Address Matching   |                  | X              | X                | X              |
| <b>Data Management</b>  |                  |                |                  |                |
| Create Dynamic Features from Geocoded Locations   |                  |                | X                | X              |

## Data Support and Interoperability

| <b>Raster Data Support</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Direct Read of Raster Data</b>  |                  |                |                  |                |
| ARC Digitized Raster Graphics (ADRG)   |                  | X              | X                | X              |
| ArcSDE Rasters   |                  | X              | X                | X              |
| Band Interleaved by Line (ESRI BIL), Band Interleaved by Pixel (ESRI BIP), or Band Sequential (ESRI BSQ)   |                  | X              | X                | X              |
| Bitmap (BMP), Device Independent Bitmap (DIB) format, or Microsoft Windows Bitmap  |                  | X              | X                | X              |
| Compressed ARC Digitized Raster Graphics (CADRG)   |                  | X              | X                | X              |
| Controlled Image Base (CIB)  |                  | X              | X                | X              |
| Digital Geographic Information Exchange Standard (DIGEST), ARC Standard Raster Product (ASRP), or Universal Transverse Mercator (UTM)/Universal Polar Stereographic (UPS) Standard Raster Product (USRP) |                  | X              | X                | X              |
| Digital Terrain Elevation Data (DTED) Levels 0, 1, and 2   |                  | X              | X                | X              |
| ER Mapper  |                  | X              | X                | X              |

| <b>Raster Data Support</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| ERDAS 7.5 GIS, 7.5 LAN, and RAW  |                  | X              | X                | X              |
| Graphic Interchange Format (GIF)   |                  | X              | X                | X              |
| Intergraph Raster Files: CIT—Binary Data; COT—Grayscale Data                   |                  | X              | X                | X              |
| Joint Photographics Experts Group (JPEG), Joint File Interchange Format (JFIF) |                  | X              | X                | X              |
| JPEG 2000  |                  | X              | X                | X              |
| Multiresolution Seamless Image Database (MrSID Generations 2 and 3)            |                  | X              | X                | X              |
| National Imagery Transmission Format (NITF)                                    |                  | X              | X                | X              |
| Portable Network Graphics (PNG)  |                  | X              | X                | X              |
| <b>Direct Read and Write of Raster Data</b>                                    |                  |                |                  |                |
| ERDAS IMAGINE  |                  | X              | X                | X              |
| ESRI GRID and GRID Stack   |                  | X              | X                | X              |
| Tagged Image File Format (TIFF) (GeoTIFF tags are supported.)                  |                  | X              | X                | X              |
| <b>Map Display</b>   |                  |                |                  |                |
| Display Multiband Images by Assigning RGB Values to the Bands                  |                  | X              | X                | X              |
| Use Individual Band Settings   |                  | X              | X                | X              |
| Display Each Unique Value in Your Images with a Discrete Color                 |                  | X              | X                | X              |
| Display Image Values Using a Color Map   |                  | X              | X                | X              |
| Display Multiband Raster Data Using RGB Values                                 |                  | X              | X                | X              |
| Save Current Display Statistics to an XML File                                 |                  | X              | X                | X              |
| Control Raster Display Contrast and Brightness                                 |                  | X              | X                | X              |
| Display Raster Catalog Tiles as a Time Series                                  |                  | X              | X                | X              |
| Import Renderer or Statistics from Another Layer                               |                  | X              | X                | X              |
| Display Raster Values While Navigating the Map with MapTips                    |                  | X              | X                | X              |
| Display Raster Resolution in Map TOC   |                  | X              | X                | X              |
| <b>Display: Gradual Color Ramp Data Stretching Algorithms</b>                  |                  |                |                  |                |
| Standard Deviations  |                  | X              | X                | X              |
| Histogram Equalize   |                  | X              | X                | X              |
| Minimum-Maximum  |                  | X              | X                | X              |
| Custom   |                  | X              | X                | X              |
| None   |                  | X              | X                | X              |
| <b>Display Statistics</b>  |                  |                |                  |                |
| Based on the Entire Raster Dataset   |                  | X              | X                | X              |
| Based on the Display Extent  |                  | X              | X                | X              |
| Based on a Custom Extent   |                  | X              | X                | X              |

| <b>Raster Data Support</b>                     | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Display Resample Methods</b>                |                  |                |                  |                |
| Nearest Neighbor                               |                  | X              | X                | X              |
| Bilinear Interpolation                         |                  | X              | X                | X              |
| Cubic Convolution                              |                  | X              | X                | X              |
| <b>Display Classification Methods</b>          |                  |                |                  |                |
| Equal Interval                                 |                  | X              | X                | X              |
| Define Interval                                |                  | X              | X                | X              |
| Quantile                                       |                  | X              | X                | X              |
| Natural Breaks (Jenks)                         |                  | X              | X                | X              |
| Standard Deviation                             |                  | X              | X                | X              |
| <b>Raster Catalog Footprint Display</b>        |                  |                |                  |                |
| Footprints Only                                |                  | X              | X                | X              |
| Selected Footprints                            |                  | X              | X                | X              |
| <b>Geoprocessing Conversion</b>                |                  |                |                  |                |
| Raster to ASCII                                |                  | X              | X                | X              |
| ASCII to Raster                                |                  | X              | X                | X              |
| Raster to Float                                |                  | X              | X                | X              |
| Float to Raster                                |                  | X              | X                | X              |
| Raster to Point                                |                  | X              | X                | X              |
| Raster to Polygon                              |                  | X              | X                | X              |
| Raster to Polyline                             |                  | X              | X                | X              |
| Feature to Raster                              |                  | X              | X                | X              |
| DEM to Raster                                  |                  | X              | X                | X              |
| Raster to Other Format (Multiple)              |                  | X              | X                | X              |
| <b>Geoprocessing Transformation/Projection</b> |                  |                |                  |                |
| Mirror   |                  | X              | X                | X              |
| Project Raster (Single Input)                  |                  | X              | X                | X              |
| Rescale  |                  | X              | X                | X              |
| Rotate   |                  | X              | X                | X              |
| Shift  |                  | X              | X                | X              |
| Warp   |                  | X              | X                | X              |
| <b>Geoprocessing Raster Management</b>         |                  |                |                  |                |
| Batch Build Pyramids                           |                  | X              | X                | X              |
| Batch Calculate Statistics                     |                  | X              | X                | X              |
| Build Pyramids                                 |                  | X              | X                | X              |
| Calculate Statistics                           |                  | X              | X                | X              |

| <b>Raster Data Support</b>                                   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| Clip   |                  | X              | X                | X              |
| Composite Bands  |                  | X              | X                | X              |
| Copy Raster  |                  | X              | X                | X              |
| Create Raster Catalog Item                                   |                  | X              | X                | X              |
| Create Raster Catalog  |                  | X              | X                | X              |
| Create Raster Dataset  |                  | X              | X                | X              |
| Delete Raster Catalog Items                                  |                  | X              | X                | X              |
| Mosaic   |                  | X              | X                | X              |
| Mosaic to New Raster   |                  | X              | X                | X              |
| Resample   |                  | X              | X                | X              |
| <b>Geoprocessing Geodatabase Administration</b>              |                  |                |                  |                |
| Create and Manage Raster Catalogs in a Multiuser Geodatabase |                  |                |                  | X              |
| Mosaic Raster Data in a Multiuser Geodatabase                |                  |                |                  | X              |

| <b>Document and Data Support</b>                                      | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| <b>Map and Symbology Files</b>  |                  |                |                  |                |
| Read Published Map Files (from ArcGIS Publisher)                      | X                | X              | X                | X              |
| Create and Edit Map Documents (.mxd)                                  |                  | X              | X                | X              |
| Save Layer Files (.lyr) and Map Documents (.mxd) in ArcGIS 8.3 Format |                  | X              | X                | X              |
| Use Map Templates (MXT) to Standardize Maps                           |                  | X              | X                | X              |
| Import ArcView 3.x APR and AVL Files                                  |                  | X              | X                | X              |
| <b>Direct Read of Vector Data</b>                                     |                  |                |                  |                |
| Geodatabase   |                  | X              | X                | X              |
| Shapefiles  |                  | X              | X                | X              |
| ArcInfo Coverages   |                  | X              | X                | X              |
| PC ARC/INFO Coverages   |                  | X              | X                | X              |
| Smart Data Compression (SDC) Data                                     |                  | X              | X                | X              |
| Vector Product Format (VPF) Data                                      |                  | X              | X                | X              |
| Web Services  |                  | X              | X                | X              |
| ArcIMS Image Service  |                  | X              | X                | X              |
| <b>ArcIMS Feature Services</b>  |                  |                |                  |                |
| Geography Network Feature Service                                     |                  | X              | X                | X              |
| ArcIMS Map Service  |                  | X              | X                | X              |
| ArcGIS Server Services  |                  | X              | X                | X              |
| OGC Web Map Server (WMS)  |                  | X              | X                | X              |



| <b>Document and Data Support</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| <b>Direct Editing of Vector Data</b>  |                  |                |                  |                |
| Personal Geodatabase Simple Features (.mdb)                                   |                  | X              | X                | X              |
| Personal Geodatabase Simple Features Checked Out from a Multiuser Geodatabase |                  | X              | X                | X              |
| Shapefiles  |                  | X              | X                | X              |
| Multiuser Geodatabase Features  |                  |                | X                | X              |
| <b>Direct Read of CAD Data</b>  |                  |                |                  |                |
| Autodesk Drawing Exchange Format (DXF)  |                  | X              | X                | X              |
| AutoCAD Drawing File (DWG)  |                  | X              | X                | X              |
| MicroStation DGN Files  |                  | X              | X                | X              |
| <b>Direct Read of Other Data</b>  |                  |                |                  |                |
| ESRI TIN  |                  | X              | X                | X              |
| dBASE (DBF)   |                  | X              | X                | X              |
| Text (TXT)  |                  | X              | X                | X              |
| ESRI INFO Files   |                  | X              | X                | X              |
| OLE DB Connections  |                  | X              | X                | X              |
| ODBC Connections  |                  | X              | X                | X              |
| Microsoft Access  |                  | X              | X                | X              |

## Application Framework

| <b>Application Customization</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| <b>Application Look and Feel</b>  |                  |                |                  |                |
| Dockable/Floating Toolbars  |                  | X              | X                | X              |
| UNICODE Support for Multilanguage Attributes                            |                  | X              | X                | X              |
| Complies with Microsoft Windows Display Settings                        |                  | X              | X                | X              |
| <b>Customization</b>  |                  |                |                  |                |
| Customizable Look and Feel (Drag and drop to rearrange tools/toolbars.) |                  | X              | X                | X              |
| Creates New Toolbars or Menus without Programming                       |                  | X              | X                | X              |
| Creates and Saves Macros Using Visual Basic for Applications (VBA)      |                  | X              | X                | X              |
| Extends the Applications with any COM Compliant Development Environment |                  | X              | X                | X              |

# Data Automation

| <b>Data Editing</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>General Editing</b>   |                  |                |                  |                |
| Simultaneously Edit Multiple Layers  |                  | X              | X                | X              |
| Unlimited Undo/Redo Operations   |                  | X              | X                | X              |
| Integrate with ArcPad for Field Editing  |                  | X              | X                | X              |
| Provide Digitizer Support for Devices with Wintab Compliant Drivers                    |                  | X              | X                | X              |
| Make Measurements Using any Units That You Choose                                      |                  | X              | X                | X              |
| Optionally Scale Features When Individual Vertices Are Moved                           |                  | X              | X                | X              |
| Automatically Correct Ground Measures Appropriately in the GIS                         |                  | X              | X                | X              |
| Snap Tips Indicating What Is Being Snapped To  |                  | X              | X                | X              |
| Dockable Snapping Dialog That Makes It Quick and Easy to Change Snapping while Editing |                  | X              | X                | X              |
| <b>Snapping by Layer</b>   |                  |                |                  |                |
| Vertex   |                  | X              | X                | X              |
| Edge   |                  | X              | X                | X              |
| Endpoint   |                  | X              | X                | X              |
| <b>Snapping to New Geometry</b>  |                  |                |                  |                |
| Edges  |                  | X              | X                | X              |
| Vertices   |                  | X              | X                | X              |
| Perpendicular  |                  | X              | X                | X              |
| <b>Snapping to Topology Nodes</b>  |                  |                |                  |                |
| Endpoint   |                  | X              | X                | X              |
| Vertex   |                  | X              | X                | X              |
| Midpoint   |                  | X              | X                | X              |
| Edge   |                  | X              | X                | X              |
| <b>Snapping Tolerance</b>  |                  |                |                  |                |
| By Pixels  |                  | X              | X                | X              |
| By Map Units   |                  | X              | X                | X              |
| Interactively  |                  | X              | X                | X              |
| <b>Geometry Construction Options</b>   |                  |                |                  |                |
| Constrain the Next Segment by Direction  |                  | X              | X                | X              |
| Constrain the Next Segment with a Deflection Angle from Last Segment                   |                  | X              | X                | X              |
| Constrain the Next Segment by Length   |                  | X              | X                | X              |
| Specify an Exact X,Y Location  |                  | X              | X                | X              |
| Specify an X,Y Difference from the Last Vertex   |                  | X              | X                | X              |

| <b>Data Editing</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| Constrain the Next Segment to Be Parallel to the Last Segment  |                  | X              | X                | X              |
| Constrain the Next Segment to Be Perpendicular to the Last Segment   |                  | X              | X                | X              |
| Constrain the Next Segment Based on an Angle from an Existing Feature Segment in the Map                   |                  | X              | X                | X              |
| Create Geometry from Existing Features in the Map  |                  | X              | X                | X              |
| Create a Curve Tangent to the Last Segment   |                  | X              | X                | X              |
| Finish a Polygon by Generating Perpendicular Segments from the First and Last Segment                      |                  | X              | X                | X              |
| Flip the Orientation of the Geometry   |                  | X              | X                | X              |
| Trim Geometry to a Specific Length   |                  | X              | X                | X              |
| <b>Geometry Creation Tools</b>   |                  |                |                  |                |
| Point and Click On-Screen Digitizing   |                  | X              | X                | X              |
| Stream Digitizing  |                  | X              | X                | X              |
| Add a Coordinate Based on an Angle from One Location and a Distance from Another                           |                  | X              | X                | X              |
| Add a Coordinate Based on the Implied Intersection of Two Segments   |                  | X              | X                | X              |
| Construct a True Curve   |                  | X              | X                | X              |
| Construct a Tangent Curve  |                  | X              | X                | X              |
| Add a Coordinate Based on a Distance from Two Known Locations  |                  | X              | X                | X              |
| Add a Coordinate at the Midpoint between Two Known Locations   |                  | X              | X                | X              |
| Add Coordinates along Existing Coordinates   |                  | X              | X                | X              |
| <b>Feature Manipulation Tasks</b>  |                  |                |                  |                |
| Create Features Using New Geometry   |                  | X              | X                | X              |
| Create New Polygons Using the Geometry of Existing Features (Autocomplete Polygons)                        |                  | X              | X                | X              |
| Reshape Existing Features  |                  | X              | X                | X              |
| Cut Polygon Features   |                  | X              | X                | X              |
| Create Mirror Copies of Existing Features  |                  | X              | X                | X              |
| Extend or Trim Existing Features   |                  | X              | X                | X              |
| Add, Delete, Interactively Move, or Modify the Coordinate Values for Vertex Locations of Existing Features |                  | X              | X                | X              |
| <b>Feature Editing Tools Including</b>   |                  |                |                  |                |
| Move, Rotate, Delete, Copy, and Paste  |                  | X              | X                | X              |
| Split a Line at a Distance or Percentage   |                  | X              | X                | X              |
| Divide a Line, Based on a Distance, a Number of Segments, or a Measure Value (M Coordinate)                |                  | X              | X                | X              |
| Buffer Features  |                  | X              | X                | X              |
| Copy Lines Parallel to Their Existing Location   |                  | X              | X                | X              |

| <b>Data Editing</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| Merge Existing Features  |                  | X              | X                | X              |
| Create New Features by Merging Features in the Same or Another Layer (Union) |                  | X              | X                | X              |
| Create New Features from the Buffer of Existing Features                     |                  | X              | X                | X              |
| Create New Polygons by Intersecting Existing Feature Classes                 |                  | X              | X                | X              |
| Clip One or More Polygons with Another Polygon                               |                  | X              | X                | X              |
| Extend and Trim Lines with Other Features in the Map                         |                  | X              | X                | X              |
| <b>Attribute Editing</b>   |                  |                |                  |                |
| Modify Each Selected Row Individually or as a Group (Attributes Dialog)      |                  | X              | X                | X              |
| Copy Attributes to One or More Rows Simultaneously                           |                  | X              | X                | X              |
| Calculate Attribute Values Using Scripts (Field Calculator)                  |                  | X              | X                | X              |
| Validate Attribute Values Using Rules Defining Valid Values (Domains)        |                  | X              | X                | X              |

| <b>Data Editing (continued)</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| <b>Multipart Features (Point, Line, and Polygon)</b>  |                  |                |                  |                |
| <b>Add and Delete Parts</b>   |                  | X              | X                | X              |
| <b>Zoom to Parts</b>  |                  | X              | X                | X              |
| <b>Add, Delete, and Edit Vertex Locations</b>   |                  | X              | X                | X              |
| <b>Create Separate Features from Each Part (Explode)</b>  |                  | X              | X                | X              |
| <b>Map Navigation While Editing</b>   |                  |                |                  |                |
| Zoom to Feature Vertices  |                  | X              | X                | X              |
| Zoom to Feature Parts   |                  | X              | X                | X              |
| Interactively Pan and Zoom Using the Editing Tools and Shortcut Keys  |                  | X              | X                | X              |
| Pan and Zoom to Unplaced Annotation or the Feature Associated with the Unplaced Annotation                          |                  | X              | X                | X              |
| <b>Vector Data Transformations</b>  |                  |                |                  |                |
| Rubber Sheeting Transformation  |                  | X              | X                | X              |
| Transformation—Affine Transformation  |                  | X              | X                | X              |
| Transformation—Similarity Transformation  |                  | X              | X                | X              |
| Transformation—Projective Transformation  |                  | X              | X                | X              |
| Edgematching Transformation   |                  | X              | X                | X              |
| Transfer Accurate Attributes from Features with Inaccurate Geometry to Features with Accurate Geometry (Conflation) |                  | X              | X                | X              |
| Copy Feature Geometry from One Location/Layer to a New Location/Layer   |                  |                | X                | X              |
| <b>Coordinate Geometry (COGO)</b>   |                  |                |                  |                |
| Create Fields to Store COGO Measurements  |                  |                | X                | X              |

| <b>Data Editing (continued)</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| Add New Features by Specifying Courses along a Traverse                 |                  |                | X                | X              |
| Split a Line At Specific Intervals (Proportion)                         |                  |                | X                | X              |
| Populate COGO Measurements from the Geometry of a Feature (Inverse)     |                  |                | X                | X              |
| Create a Curved Line at the Intersection of Two Existing Lines (Fillet) |                  |                | X                | X              |
| <b>Generalization</b>   |                  |                |                  |                |
| Smooth Line Features  |                  |                | X                | X              |
| Simplify the Shape of Line Features (Generalize)                        |                  |                | X                | X              |

| <b>Raster Editing and Vectorization<sup>2</sup></b>          | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Vectorize All Raster Formats Supported in ArcGIS</b>      |                  |                |                  |                |
| 1 Bit Raster Data  |                  |                | X                | X              |
| 8 Bit Raster Data (With Bi-Level Classification Applied)     |                  |                | X                | X              |
| <b>ArcGIS Integration</b>                                    |                  |                |                  |                |
| Vectorization into any Editable Vector Dataset               |                  |                | X                | X              |
| Seamless Integration with Vector Data Editing Environment    |                  |                | X                | X              |
| <b>Raster Snapping Geometry</b>                              |                  |                |                  |                |
| Centerline   |                  |                | X                | X              |
| Corner   |                  |                | X                | X              |
| Intersection   |                  |                | X                | X              |
| Ends   |                  |                | X                | X              |
| Solid  |                  |                | X                | X              |
| <b>Raster Snapping Environment</b>                           |                  |                |                  |                |
| Available to All Editor Sketch Tools                         |                  |                | X                | X              |
| Snap to Raster Linear Feature of Specified Width or Less     |                  |                | X                | X              |
| Snap to Solids within Specified Diameter                     |                  |                | X                | X              |
| Ignore Holes in Data while Snapping                          |                  |                | X                | X              |
| <b>Vectorization Tracing</b>                                 |                  |                |                  |                |
| Interactive Tracing Raster Lines                             |                  |                | X                | X              |
| Ignore Holes in Raster Linear Features                       |                  |                | X                | X              |
| <b>Automatic Vectorization</b>                               |                  |                |                  |                |
| Vectorize Entire Raster                                      |                  |                | X                | X              |
| Vectorize Specific Raster Area                               |                  |                | X                | X              |
| Simultaneously Capture Line and Polygon Vectors              |                  |                | X                | X              |
| <b>Vectorization Parameters</b>                              |                  |                |                  |                |
| Vectorize Raster Lines Less Than or Equal to Specified Width |                  |                | X                | X              |
| Reduce Vectors (Compression) on Creation                     |                  |                | X                | X              |
| Smooth Vectors on Creation                                   |                  |                | X                | X              |
| Jump Gaps (Dashes) within Raster                             |                  |                | X                | X              |
| Variable Methods for Resolving Intersections                 |                  |                | X                | X              |
| Save and Load Parameters                                     |                  |                | X                | X              |

| <b>Raster Editing and Vectorization<sup>2</sup></b> | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| <b>Vectorization Preview</b>                        |                  |                |                  |                |
| Dynamic Vectorization Preview                       |                  |                | X                | X              |
| Change Preview Symbology                            |                  |                | X                | X              |
| <b>Raster Cell Selection</b>                        |                  |                |                  |                |
| Selection of Foreground or Background Cells         |                  |                | X                | X              |
| Select Connected Cells Interactively                |                  |                | X                | X              |
| Select Connected Cells by Count                     |                  |                | X                | X              |
| Select Connected Cells by Diagonal Area             |                  |                | X                | X              |
| <b>Raster Cleanup Environment</b>                   |                  |                |                  |                |
| Undo/Redo Raster Cleanup Operations                 |                  |                | X                | X              |
| Erase or Fill Selected Cells                        |                  |                | X                | X              |
| Save Selected Cells to New Raster                   |                  |                | X                | X              |
| <b>Raster Cleanup Painting Tools</b>                |                  |                |                  |                |
| Brush   |                  |                | X                | X              |
| Erase   |                  |                | X                | X              |
| Basic Shapes (Line, Square, Ellipse, and Polygon)   |                  |                | X                | X              |
| Erase Connected Cells                               |                  |                | X                | X              |
| <b>Support Tools</b>                                |                  |                |                  |                |
| Discover Raster Line Width                          |                  |                | X                | X              |
| Discover Raster Solid Diameter                      |                  |                | X                | X              |

<sup>2</sup> The vectorization functionality is available through the ArcScan for ArcGIS extension, which can be purchased with ArcView but is automatically included with ArcEditor and ArcInfo licenses.

| <b>Mobile</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>GPS Support</b>                                     |                  |                |                  |                |
| Display Real-Time Location Points from a GPS Receiver  |                  | X              | X                | X              |
| Dynamically Center the Map on the Current GPS Point    |                  | X              | X                | X              |
| Store GPS Locations in a Log File                      |                  | X              | X                | X              |
| Filter by GPS Input by Time, Distance, or Deflection   |                  | X              | X                | X              |
| <b>Tablet PC</b>                                       |                  |                |                  |                |
| Support of Windows XP Tablet PC Edition                |                  | X              | X                | X              |
| Edit features or graphics with a Stylus                |                  | X              | X                | X              |
| Annotate the Map with Redlining and Highlighting Tools |                  | X              | X                | X              |
| Find Handwritten Notes within the Map                  |                  | X              | X                | X              |
| Convert Redlining Handwriting to Text                  |                  | X              | X                | X              |

| <b>Multiuser Geodatabase Editing</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>General Editing</b>   |                  |                |                  |                |
| Multiple Editors Can Simultaneously Edit the Same Feature Classes in a Multiuser Geodatabase |                  |                | X                | X              |

| <b>Multuser Geodatabase Editing</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| Isolate Editing Projects in Separate Versions (Create Version)<br>Enabling a Variety of Work Flows             |                  |                | X                | X              |
| Merge Versions (Reconcile and Post)  |                  |                | X                | X              |
| Delete Versions  |                  |                | X                | X              |
| <b>Disconnected Editing</b>  |                  |                |                  |                |
| Check Out Raster and Vector Data from a Multuser Geodatabase Using a Variety of Spatial and Attribute Filters  |                  |                | X                | X              |
| Package Edits Made to a Checkout Geodatabase in an XML File  |                  |                | X                | X              |
| Check in Edits to a Multuser Geodatabase from a Checkout Geodatabase   |                  |                | X                | X              |
| <b>Administration Geoprocessing</b>  |                  |                |                  |                |
| Modify Data Privileges for Data in a Multuser Geodatabase  |                  |                | X                | X              |
| Register SDE Data with the Geodatabase   |                  |                | X                | X              |
| Clean Up Versioning Tables (Compress)  |                  |                | X                | X              |
| Add and Remove Tables and Feature Class from the Versioning Environment (Register and Unregister as Versioned) |                  |                | X                | X              |
| <b>Versioning Geoprocessing</b>  |                  |                |                  |                |
| Alter Version  |                  |                | X                | X              |
| Create Version   |                  |                | X                | X              |
| Delete Version   |                  |                | X                | X              |
| Post Version   |                  |                | X                | X              |
| Reconcile Version  |                  |                | X                | X              |
| Register as Versioned  |                  |                | X                | X              |
| Unregister as Versioned  |                  |                | X                | X              |
| <b>Disconnected Editing Geoprocessing</b>  |                  |                |                  |                |
| Check In   |                  |                | X                | X              |
| Check In from Delta  |                  |                | X                | X              |
| Check Out  |                  |                | X                | X              |
| Export to Delta  |                  |                | X                | X              |

| <b>Spatial Referencing Image Data (Georeferencing)</b>           | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Tools</b>   |                  |                |                  |                |
| Image Shift, Flip, Rotate, or Fit to Display                     |                  | X              | X                | X              |
| Interactively Specify from and to Control Points                 |                  | X              | X                | X              |
| Save and Load Control Points with Error and Accuracy Information |                  | X              | X                | X              |
| <b>Transformation Methods</b>                                    |                  |                |                  |                |
| 1st Order Polynomial   |                  | X              | X                | X              |
| 2nd Order Polynomial   |                  | X              | X                | X              |
| 3rd Order Polynomial   |                  | X              | X                | X              |

| <b>Spatial Referencing Image Data (Georeferencing)</b> | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Save Spatial Reference Information</b>              |                  |                |                  |                |
| Create a New Dataset (Rectify)                         |                  | X              | X                | X              |
| Save Reference Information with the Image              |                  | X              | X                | X              |

## Data Management and Validation

| <b>Data Management</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>General</b>   |                  |                |                  |                |
| Move, Copy, and Paste GIS Data and All Associated Files  |                  | X              | X                | X              |
| Manage Raster Datasets and Raster Catalogs in a Personal Geodatabase   |                  | X              | X                | X              |
| Create Personal Geodatabases   |                  | X              | X                | X              |
| Create Personal Geodatabase Feature Classes  |                  | X              | X                | X              |
| Create Shapefiles  |                  | X              | X                | X              |
| Administer ArcGIS Server   |                  | X              | X                | X              |
| <b>Search for GIS Data By</b>  |                  |                |                  |                |
| Name   |                  | X              | X                | X              |
| Type   |                  | X              | X                | X              |
| Location   |                  | X              | X                | X              |
| Date   |                  | X              | X                | X              |
| Metadata Tag   |                  | X              | X                | X              |
| <b>Manage Coverage Data</b>  |                  |                |                  |                |
| Add/Modify Tic Locations   |                  |                | X                | X              |
| Set Coordinate System  |                  |                | X                | X              |
| Change the Data Extent   |                  |                | X                | X              |
| Create Coverage Relationship Classes   |                  |                | X                | X              |
| Create a New Coverage  |                  |                | X                | X              |
| Create a New INFO File   |                  |                | X                | X              |
| Modify Coverage Tolerances   |                  |                | X                | X              |
| <b>UML/CASE Tool Integration</b>   |                  |                |                  |                |
| Generate Geodatabase Schema from a UML Diagram Created in a CASE Tool (Via XML File or Microsoft Repository) |                  |                | X                | X              |
| Apply a Geodatabase Schema to Existing Features from a CASE Tool Design                                      |                  |                | X                | X              |
| <b>Geodatabase Administration</b>  |                  |                |                  |                |
| Create and Load Vector and Raster Data into a Multiuser Geodatabase  |                  |                | X                | X              |
| Create Tables/Feature Classes That Store Custom Objects/Features   |                  |                | X                | X              |
| Update RDBMS Statistics for GIS Data   |                  |                | X                | X              |
| <b>Interchange File Import/Export</b>  |                  |                |                  |                |
| XML  |                  |                | X                | X              |



| <b>Data Management</b>                               | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| ZIP (compressed text file with 4 GB file size limit) |                  |                | X                | X              |
| Z (compressed text file with no file size limit)     |                  |                | X                | X              |

| <b>Attribute Validation</b>                           | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| <b>Subtypes Geoprocessing</b>                         |                  |                |                  |                |
| Add Subtype   |                  | X              | X                | X              |
| Remove Subtype  |                  | X              | X                | X              |
| Set Default Subtype                                   |                  | X              | X                | X              |
| Set Subtype Field                                     |                  | X              | X                | X              |
| <b>Domains Geoprocessing</b>                          |                  |                |                  |                |
| Add Coded Value to Domain                             |                  | X              | X                | X              |
| Assign Domain to Field                                |                  | X              | X                | X              |
| Create Domain   |                  | X              | X                | X              |
| Delete Coded Value from Domain                        |                  | X              | X                | X              |
| Delete Domain   |                  | X              | X                | X              |
| Domain to Table                                       |                  | X              | X                | X              |
| Remove Domain from Field                              |                  | X              | X                | X              |
| Set Value for Range Domain                            |                  | X              | X                | X              |
| Table to Domain                                       |                  | X              | X                | X              |
| <b>Create and Edit Relationships between Features</b> |                  |                |                  |                |
| One-to-One  |                  |                | X                | X              |
| One-to-Many   |                  |                | X                | X              |
| Many-to-Many  |                  |                | X                | X              |
| Specify Cardinality Rules for Relationships           |                  |                | X                | X              |
| Store Attributes for Relationships                    |                  |                | X                | X              |
| <b>Geodatabase Relationship Behavior</b>              |                  |                |                  |                |
| Moving a Feature Moves the Related Feature            |                  |                | X                | X              |
| Deleting One Feature Deletes the Related Feature      |                  |                | X                | X              |
| <b>Relationship Class Geoprocessing</b>               |                  |                |                  |                |
| Create Relationship Class                             |                  |                | X                | X              |
| Table to Relationship Class                           |                  |                | X                | X              |

| <b>Topology</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Map Display</b>   |                  |                |                  |                |
| Display a Summary of the Errors and Exceptions in the Topology |                  | X              | X                | X              |
| Display the Feature Classes and Rules in the Topology          |                  | X              | X                | X              |
| Display Errors, Exception, and Dirty Areas in the Map          |                  | X              | X                | X              |
| <b>Editing</b>   |                  |                |                  |                |
| Construct and Edit Topologies Created from Layers in the Map   |                  | X <sup>3</sup> | X                | X              |

| <b>Topology</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| Move Topological Edges and Nodes  |                  | X <sup>3</sup> | X                | X              |
| Show or Select Adjacent or Connected Features   |                  | X <sup>3</sup> | X                | X              |
| Reshape Shared Edges between Features   |                  | X <sup>3</sup> | X                | X              |
| Modify the Coordinates of Shared Edges or Nodes                                       |                  | X <sup>3</sup> | X                | X              |
| Split Shared Edges at a Specific Point, Distance, or Percentage along the Edge        |                  | X <sup>3</sup> | X                | X              |
| Move Edges and Nodes to a Specific Location   |                  | X <sup>3</sup> | X                | X              |
| Shift Edges and Nodes Based on an Offset from Their Current Location                  |                  | X <sup>3</sup> | X                | X              |
| Merge Connected Edges   |                  | X <sup>3</sup> | X                | X              |
| Control Which Adjacent or Connected Features Move When a Shared Edge or Node Is Moved |                  | X <sup>3</sup> | X                | X              |
| Construct Polygons from Lines or Lines from Polygons                                  |                  |                | X                | X              |
| Split Lines Where They Intersect  |                  |                | X                | X              |
| Validate a Specific Area or the Entire Topology                                       |                  |                | X                | X              |
| Search for Errors of a Specific Type within One Area or the Entire Topology           |                  |                | X                | X              |
| Inspect Errors by Zooming, Panning, or Selecting the Features                         |                  |                | X                | X              |
| <b>Geodatabase Topology Rule Violation Fix Operations</b>                             |                  |                |                  |                |
| Delete Features   |                  |                | X                | X              |
| Subtract Features   |                  |                | X                | X              |
| Create Features   |                  |                | X                | X              |
| Merge Features  |                  |                | X                | X              |
| Snap Features   |                  |                | X                | X              |
| Extend Lines  |                  |                | X                | X              |
| Trim Lines  |                  |                | X                | X              |
| Split Lines   |                  |                | X                | X              |
| Explode Features  |                  |                | X                | X              |
| Simplify Features   |                  |                | X                | X              |
| <b>Geodatabase Topology Management</b>  |                  |                |                  |                |
| Create and Manage Geodatabase Topology  |                  |                | X                | X              |
| Specify a Hierarchy for Vertex Snapping During Topology Creation                      |                  |                | X                | X              |
| <b>Geodatabase Topology Rules</b>   |                  |                |                  |                |
| Polygons Contain Points   |                  |                | X                | X              |
| Polygons Must Not Overlap   |                  |                | X                | X              |
| Polygons Must Not Have Gaps   |                  |                | X                | X              |
| Polygons Must Not Overlap with Polygons in Another Feature Class                      |                  |                | X                | X              |
| Polygons Must Be Covered by One Polygon in Another Feature Class                      |                  |                | X                | X              |
| Polygons Must be Covered by One or More Polygons in Another Feature Class             |                  |                | X                | X              |
| Polygons from Two Feature Classes Must Cover Each Other                               |                  |                | X                | X              |

| <b>Topology</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| Polygon Boundaries Must Be Covered by Lines of Another Feature Class                      |                  |                | X                | X              |
| Polygon Boundaries Must Be Covered by the Boundaries of Polygons in Another Feature Class |                  |                | X                | X              |
| Lines Must Not Overlap  |                  |                | X                | X              |
| Lines Must Be Single Part   |                  |                | X                | X              |
| Lines Must Not Self-Overlap   |                  |                | X                | X              |
| Lines Must Not Overlap with Lines in Another Feature Class                                |                  |                | X                | X              |
| Lines Must Not Have Dangles   |                  |                | X                | X              |
| Lines Must Not Have Pseudo Nodes  |                  |                | X                | X              |
| Lines Must Not Intersect  |                  |                | X                | X              |
| Lines Must Not Self-Intersect   |                  |                | X                | X              |
| Line Endpoints Must Be Covered by Points of Another Feature Class                         |                  |                | X                | X              |
| Lines Must Be Covered By Polygon Boundaries of Another Feature Class                      |                  |                | X                | X              |
| Lines Must Not Intersect or Touch Interior  |                  |                | X                | X              |
| Lines Must Be Covered by Lines of Another Feature Class                                   |                  |                | X                | X              |
| Points Must Be Covered by Lines of Another Feature Class                                  |                  |                | X                | X              |
| Points Must Be Inside Polygons  |                  |                | X                | X              |
| Points Must Be Covered by the Endpoints of Lines  |                  |                | X                | X              |
| Points Must Be Covered by the Boundary of Polygons of Another Feature Class               |                  |                | X                | X              |
| <b>Geoprocessing</b>  |                  |                |                  |                |
| Add Feature Class to Topology   |                  |                | X                | X              |
| Add Rule to Topology  |                  |                | X                | X              |
| Create Topology   |                  |                | X                | X              |
| Remove Feature Class from Topology  |                  |                | X                | X              |
| Remove Rule from Topology   |                  |                | X                | X              |
| Set Cluster Tolerance   |                  |                | X                | X              |
| Validate Topology   |                  |                | X                | X              |

<sup>3</sup> Only available with simple features in map-based topologies

| <b>Networks</b>                    | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|------------------------------------|------------------|----------------|------------------|----------------|
| <b>Utility Network Analysis</b>    |                  |                |                  |                |
| Trace Upstream                     |                  | X              | X                | X              |
| Trace Downstream                   |                  | X              | X                | X              |
| Find Common Ancestors              |                  | X              | X                | X              |
| Find Connected Network Features    |                  | X              | X                | X              |
| Find Loops in Network              |                  | X              | X                | X              |
| Find Disconnected Network Features |                  | X              | X                | X              |
| Find Path                          |                  | X              | X                | X              |
| Find Path Upstream                 |                  | X              | X                | X              |

| <b>Networks</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| Find Upstream Accumulation  |                  | X              | X                | X              |
| Isolate a Point on the Network  |                  | X              | X                | X              |
| <b>Data Management</b>  |                  |                |                  |                |
| Create and Manage Utility Networks  |                  |                | X                | X              |
| Create Complex Edge Features that Maintain Connectivity Without Splitting the Feature |                  |                | X                | X              |
| <b>Geometric Network Connectivity Rules</b>   |                  |                |                  |                |
| Edge—Junction   |                  |                | X                | X              |
| Edge—Edge via Junction  |                  |                | X                | X              |
| <b>Geometric Network Editing</b>  |                  |                |                  |                |
| Connect and Disconnect Network Features   |                  |                | X                | X              |
| Enable and Disable Network Features   |                  |                | X                | X              |
| Set Flow Direction for a Network  |                  |                | X                | X              |
| Verify, Repair, and Rebuild Connectivity in a Network                                 |                  |                | X                | X              |
| Verify the Geometry of Network Features   |                  |                | X                | X              |
| Review and Repair Network Creation Errors   |                  |                | X                | X              |

| <b>Linear Referencing (Routes)</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Display</b>   |                  |                |                  |                |
| Find and Display Dynamic Segmentation Events (Point, Linear, and Continuous) on Routes                             |                  | X              | X                | X              |
| <b>Editing</b>   |                  |                |                  |                |
| Interactively Modify M Coordinate Values   |                  | X              | X                | X              |
| Interactively Drop M Coordinates   |                  | X              | X                | X              |
| Create Routes for Selected Lines Using the Length of the Features, a Field Value, or Specific From and To Measures |                  | X              | X                | X              |
| Edit a Portion of a Line Without Affecting the Measures on the Rest of the Line                                    |                  | X              | X                | X              |
| Adjust One Route Using Points along the Routes (Calibrate)   |                  | X              | X                | X              |
| Calculate Measures Using from and to Measures for a Line   |                  | X              | X                | X              |
| Set the Digitized Direction of the Line to Match Measure Values  |                  | X              | X                | X              |
| Calculate Measures Based on Length of Line   |                  | X              | X                | X              |
| Drop All the Measures for a Line   |                  | X              | X                | X              |
| Calculate Unknown Measures Using Interpolation Based on Existing Measures  |                  | X              | X                | X              |
| Add a Value to All Measures on a Line  |                  | X              | X                | X              |
| Multiply All Measures on a Line by a Factor  |                  | X              | X                | X              |
| Add a Vertex at a Specific Measure   |                  | X              | X                | X              |
| <b>Geoprocessing</b>   |                  |                |                  |                |
| Make Route Event Layer   |                  | X              | X                | X              |
| Create Routes  |                  | X              | X                | X              |
| Adjust All Route Measures Using Points along the Routes (Calibrate)  |                  | X              | X                | X              |
| Dissolve Route Events  |                  | X              |                  | X              |

| <b>Linear Referencing (Routes)</b> | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|------------------------------------|------------------|----------------|------------------|----------------|
| Locate Features along Routes       |                  | X              |                  | X              |
| Overlay Route Events               |                  | X              |                  | X              |
| Transform Route Events             |                  | X              |                  | X              |

| <b>Metadata</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>General</b>   |                  |                |                  |                |
| Automatically or Manually Generate Metadata for Data Files |                  | X              | X                | X              |
| Import/Export Metadata                                     |                  | X              | X                | X              |
| <b>View Metadata Using a Variety of Styles</b>             |                  |                |                  |                |
| FGDC   |                  | X              | X                | X              |
| FGDC Classic   |                  | X              | X                | X              |
| FGDC ESRI  |                  | X              | X                | X              |
| FGDC FAQ   |                  | X              | X                | X              |
| FGDC Geography Network                                     |                  | X              | X                | X              |
| ISO  |                  | X              | X                | X              |
| ISO Geography Network                                      |                  | X              | X                | X              |
| Raw XML  |                  | X              | X                | X              |

## Data Manipulation and Analysis

| <b>Coverage Geoprocessing</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Application Framework</b>   |                  |                |                  |                |
| Full-Featured Management and Analysis Environment for ArcInfo Coverage Data Format |                  |                |                  | X              |
| ARC Macro Language (AML) Scripting Environment                                     |                  |                |                  | X              |
| Operates on Both Windows and UNIX  |                  |                |                  | X              |
| <b>Analysis</b>  |                  |                |                  |                |
| Select Data  |                  |                |                  | X              |
| Clip   |                  |                |                  | X              |
| Select   |                  |                |                  | X              |
| Split  |                  |                |                  | X              |
| Erase  |                  |                |                  | X              |
| Identify   |                  |                |                  | X              |
| Intersect  |                  |                |                  | X              |
| Union  |                  |                |                  | X              |
| Update   |                  |                |                  | X              |
| Buffer   |                  |                |                  | X              |
| Near   |                  |                |                  | X              |
| Point Distance   |                  |                |                  | X              |
| Point Node   |                  |                |                  | X              |
| Thiessen   |                  |                |                  | X              |

| <b>Coverage Geoprocessing</b>     | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|-----------------------------------|------------------|----------------|------------------|----------------|
| <b>Conversion</b>                 |                  |                |                  |                |
| Export to DLG                     |                  |                |                  | X              |
| Export to Interchange File        |                  |                |                  | X              |
| Export to S57                     |                  |                |                  | X              |
| Export to SDTS                    |                  |                |                  | X              |
| Export to VPF                     |                  |                |                  | X              |
| Ungenerate                        |                  |                |                  | X              |
| Advanced TIGER Conversion         |                  |                |                  | X              |
| Basic TIGER Conversion            |                  |                |                  | X              |
| Generate                          |                  |                |                  | X              |
| Import from DLG                   |                  |                |                  | X              |
| Import from Interchange File      |                  |                |                  | X              |
| Import from S57                   |                  |                |                  | X              |
| Import from SDTS                  |                  |                |                  | X              |
| Import from VPF                   |                  |                |                  | X              |
| <b>Aggregation</b>                |                  |                |                  |                |
| Append                            |                  |                |                  | X              |
| <b>Composite Features</b>         |                  |                |                  |                |
| Line Coverage to Region           |                  |                |                  | X              |
| Line Coverage to Route            |                  |                |                  | X              |
| Polygon Coverage to Region        |                  |                |                  | X              |
| Region to Polygon Coverage        |                  |                |                  | X              |
| <b>Generalization</b>             |                  |                |                  |                |
| Aggregate Polygons                |                  |                |                  | X              |
| Simplify Building                 |                  |                |                  | X              |
| Collapse Dual Lines to Centerline |                  |                |                  | X              |
| Dissolve                          |                  |                |                  | X              |
| Eliminate                         |                  |                |                  | X              |
| Find Conflicts                    |                  |                |                  | X              |
| Simplify Line or Polygon          |                  |                |                  | X              |
| <b>Table Management</b>           |                  |                |                  |                |
| Drop Index                        |                  |                |                  | X              |
| Index Item                        |                  |                |                  | X              |
| Add Item                          |                  |                |                  | X              |
| Drop Item                         |                  |                |                  | X              |
| Join Information Tables           |                  |                |                  | X              |
| Add X,Y Coordinates               |                  |                |                  | X              |
| Renumber Nodes                    |                  |                |                  | X              |
| Update IDs                        |                  |                |                  | X              |
| <b>Projections</b>                |                  |                |                  |                |
| Define Projection                 |                  |                |                  | X              |
| Project                           |                  |                |                  | X              |
| Transform                         |                  |                |                  | X              |

| <b>Coverage Geoprocessing</b> | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|-------------------------------|------------------|----------------|------------------|----------------|
| <b>Topology</b>               |                  |                |                  |                |
| Build                         |                  |                |                  | X              |
| Clean                         |                  |                |                  | X              |
| Create Labels                 |                  |                |                  | X              |
| VPF File Topology             |                  |                |                  | X              |
| <b>General</b>                |                  |                |                  |                |
| Create Coverage               |                  |                |                  | X              |
| Tolerance                     |                  |                |                  | X              |

| <b>Geoprocessing</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| <b>Environment</b>   |                  |                |                  |                |
| String Together Geoprocessing Tools Using a Visual Modeling Environment (ModelBuilder) |                  | X              | X                | X              |
| Contents Geoprocessing Tool View   |                  | X              | X                | X              |
| Index Geoprocessing Tool View  |                  | X              | X                | X              |
| Search Geoprocessing Tool View   |                  | X              | X                | X              |
| Favorite Tools Geoprocessing Tool View   |                  | X              | X                | X              |
| Create and Share New Geoprocessing Tools Using Models or Scripts                       |                  | X              | X                | X              |
| Save Tools in a Geodatabase or on the File System                                      |                  | X              | X                | X              |
| Use Shortcuts to Geoprocessing Tools through a Command Line                            |                  | X              | X                | X              |
| <b>Supported Scripting Environments</b>  |                  |                |                  |                |
| JavaScript   |                  | X              | X                | X              |
| VBScript   |                  | X              | X                | X              |
| Visual Basic   |                  | X              | X                | X              |
| VBA  |                  | X              | X                | X              |
| C++  |                  | X              | X                | X              |
| Visual Studio .NET   |                  | X              | X                | X              |
| Python   |                  | X              | X                | X              |
| Perl   |                  | X              | X                | X              |
| <b>General Data Management</b>   |                  |                |                  |                |
| Append   |                  | X              | X                | X              |
| Copy   |                  | X              | X                | X              |
| Delete   |                  | X              | X                | X              |
| Merge  |                  | X              | X                | X              |
| Rename   |                  | X              | X                | X              |
| Select Data  |                  | X              | X                | X              |
| <b>Table Management</b>  |                  |                |                  |                |
| Copy Rows  |                  | X              | X                | X              |
| Create Table   |                  | X              | X                | X              |
| Delete Rows  |                  | X              | X                | X              |
| Flip   |                  | X              | X                | X              |
| Analyze  |                  |                | X                | X              |

| <b>Geoprocessing</b>                    | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| Change Privileges                       |                  |                | X                | X              |
| Get Count                               |                  |                | X                | X              |
| Pivot Table                             |                  |                | X                | X              |
| <b>Field Management</b>                 |                  |                |                  |                |
| Add Field                               |                  | X              | X                | X              |
| Calculate Field                         |                  | X              | X                | X              |
| Delete Field                            |                  | X              | X                | X              |
| Assign Default to Field                 |                  | X              | X                | X              |
| <b>Feature Class Management</b>         |                  |                |                  |                |
| Append Annotation Feature Classes       |                  | X              | X                | X              |
| Create Feature Classes                  |                  | X              | X                | X              |
| Update Annotation Feature Classes       |                  | X              | X                | X              |
| Calculate Default Cluster Tolerance     |                  | X              | X                | X              |
| Calculate Default Spatial Grid Index    |                  | X              | X                | X              |
| Integrate                               |                  | X              | X                | X              |
| <b>Feature Management</b>               |                  |                |                  |                |
| Add X,Y Coordinates                     |                  | X              | X                | X              |
| Check Geometry                          |                  | X              | X                | X              |
| Copy Features                           |                  | X              | X                | X              |
| Multipart to Single Part                |                  | X              | X                | X              |
| Repair Geometry                         |                  | X              | X                | X              |
| Delete Features                         |                  | X              | X                | X              |
| Feature Envelope to Polygon             |                  |                |                  | X              |
| Feature to Line                         |                  |                |                  | X              |
| Feature to Point                        |                  |                |                  | X              |
| Feature to Polygon                      |                  |                |                  | X              |
| Feature Vertices to Points              |                  |                |                  | X              |
| Polygon to Line                         |                  |                |                  | X              |
| Split Line at Vertices                  |                  |                |                  | X              |
| <b>Generalization</b>                   |                  |                |                  |                |
| Eliminate                               |                  |                |                  | X              |
| Simplify Line                           |                  |                | X                | X              |
| Smooth Line                             |                  |                | X                | X              |
| Dissolve                                |                  | X              | X                | X              |
| <b>Data Projection</b>                  |                  |                |                  |                |
| Define Projection (Single Input)        |                  | X              | X                | X              |
| Batch Vector Project                    |                  | X              | X                | X              |
| Create Spatial Reference                |                  | X              | X                | X              |
| Vector Project (Single Input)           |                  | X              | X                | X              |
| <b>Conversion</b>                       |                  |                |                  |                |
| Table to dBASE (Multiple)               |                  | X              | X                | X              |
| Feature Class to Feature Class          |                  | X              | X                | X              |
| Feature Class to Geodatabase (Multiple) |                  | X              | X                | X              |
| Import CAD Annotation to Geodatabase    |                  | X              | X                | X              |



| <b>Geoprocessing</b>                                  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| Import Coverage Annotation to Geodatabase             |                  | X              | X                | X              |
| Import From CAD to Geodatabase                        |                  | X              | X                | X              |
| Raster to Geodatabase (Multiple)                      |                  | X              | X                | X              |
| Table to Geodatabase (Multiple)                       |                  | X              | X                | X              |
| Table to Table  |                  | X              | X                | X              |
| Feature Class to Shapefile (Multiple)                 |                  | X              | X                | X              |
| Add CAD Fields  |                  |                |                  | X              |
| Create CAD XData                                      |                  |                |                  | X              |
| Export to CAD   |                  |                |                  | X              |
| Set CAD Alias   |                  |                |                  | X              |
| Feature Class to Coverage                             |                  |                |                  | X              |
| <b>Layers and Table Views</b>                         |                  |                |                  |                |
| Make Feature Layer                                    |                  | X              | X                | X              |
| Make Query Layer                                      |                  | X              | X                | X              |
| Make Raster Catalog Layer                             |                  | X              | X                | X              |
| Make Raster Layer                                     |                  | X              | X                | X              |
| Make Table View                                       |                  | X              | X                | X              |
| Make X,Y Event Layer                                  |                  | X              | X                | X              |
| Save to Layer File                                    |                  | X              | X                | X              |
| Select Layer by Attribute                             |                  | X              | X                | X              |
| Select Layer by Location                              |                  | X              | X                | X              |
| <b>Core Analysis</b>                                  |                  |                |                  |                |
| Clip  |                  | X              | X                | X              |
| Intersect   |                  | X              | X                | X              |
| Union   |                  | X              | X                | X              |
| Buffer  |                  | X              | X                | X              |
| Multiple Ring Buffer                                  |                  | X              | X                | X              |
| Select  |                  | X              | X                | X              |
| Table Select  |                  | X              | X                | X              |
| Summary Statistics                                    |                  | X              | X                | X              |
| Split   |                  |                |                  | X              |
| Erase   |                  |                |                  | X              |
| Identity  |                  |                |                  | X              |
| Symmetrical Difference                                |                  |                |                  | X              |
| Update  |                  |                |                  | X              |
| Near  |                  |                |                  | X              |
| Point Distance  |                  |                |                  | X              |
| Frequency   |                  |                |                  | X              |
| <b>Spatial Statistics Analysis</b>                    |                  |                |                  |                |
| Average Nearest Neighbor                              |                  | X              | X                | X              |
| High/Low Clustering (Getis-Ord General G)             |                  | X              | X                | X              |
| Spatial Autocorrelation (Morans I)                    |                  | X              | X                | X              |
| Cluster and Outlier Analysis (Anselin Local Morans I) |                  | X              | X                | X              |
| Hot Spot Analysis (Getis-Ord Gi*)                     |                  | X              | X                | X              |

| <b>Geoprocessing</b>                                   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| Central Feature  |                  | X              | X                | X              |
| Directional Distribution (Standard Deviatonal Ellipse) |                  | X              | X                | X              |
| Linear Directional Mean                                |                  | X              | X                | X              |
| Mean Center  |                  | X              | X                | X              |
| Standard Distance                                      |                  | X              | X                | X              |
| Calculate Areas  |                  | X              | X                | X              |
| Collect Events   |                  | X              | X                | X              |
| Export Feature Attribute to ASCII                      |                  | X              | X                | X              |
| Cluster/Outlier Analysis with Rendering                |                  | X              | X                | X              |
| Hot Spot Analysis with Rendering                       |                  | X              | X                | X              |
| Collect Events with Rendering                          |                  | X              | X                | X              |
| Count Rendering  |                  | X              | X                | X              |
| Z-Score Rendering                                      |                  | X              | X                | X              |
| <b>Workspace Management</b>                            |                  |                |                  |                |
| Create Feature Dataset                                 |                  | X              | X                | X              |
| Create Folder  |                  | X              | X                | X              |
| Create Personal Geodatabase                            |                  | X              | X                | X              |
| Compact  |                  | X              | X                | X              |
| Compress   |                  |                | X                | X              |
| Create ArcInfo Workspace                               |                  |                |                  | X              |
| <b>Table Joins</b>                                     |                  |                |                  |                |
| Add Join   |                  | X              | X                | X              |
| Remove Join  |                  | X              | X                | X              |
| <b>Data Indexing</b>                                   |                  |                |                  |                |
| Add Attribute Index                                    |                  | X              | X                | X              |
| Add Spatial Index                                      |                  | X              | X                | X              |
| Remove Attribute Index                                 |                  | X              | X                | X              |
| Remove Spatial Index                                   |                  | X              | X                | X              |
| <b>Cartography</b>                                     |                  |                |                  |                |
| Cul-de-Sac Masks                                       |                  |                |                  | X              |
| Feature Outline Masks                                  |                  |                |                  | X              |
| Intersecting Layers Masks                              |                  |                |                  | X              |

## Data

| <b>Data and Maps</b>   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|------------------------|------------------|----------------|------------------|----------------|
| <b>United States</b>   |                  |                |                  |                |
| States                 |                  | X              | X                | X              |
| States (Generalized)   |                  | X              | X                | X              |
| State Boundaries       |                  | X              | X                | X              |
| Counties               |                  | X              | X                | X              |
| Counties (Generalized) |                  | X              | X                | X              |
| County Boundaries      |                  | X              | X                | X              |

| <b>Data and Maps</b>                           | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| Cities   |                  | X              | X                | X              |
| Populated Places Points                        |                  | X              | X                | X              |
| Populated Places Areas                         |                  | X              | X                | X              |
| ZIP Code Points                                |                  | X              | X                | X              |
| ZIP Code Areas (Three Digit)                   |                  | X              | X                | X              |
| ZIP Code Areas (Five Digit)                    |                  | X              | X                | X              |
| Census Urbanized Areas                         |                  | X              | X                | X              |
| Census Tracts                                  |                  | X              | X                | X              |
| Census Block Groups                            |                  | X              | X                | X              |
| Census Block Centroid Populations              |                  | X              | X                | X              |
| 108th Congressional Districts                  |                  | X              | X                | X              |
| 109th Congressional Districts                  |                  | X              | X                | X              |
| Core Based Statistical Areas                   |                  | X              | X                | X              |
| Telephone Area Code Boundaries                 |                  | X              | X                | X              |
| County Population Estimates 1900 (Table)       |                  | X              | X                | X              |
| County Population Estimates 2000 (Table)       |                  | X              | X                | X              |
| Census Feature Class Codes (Table)             |                  | X              | X                | X              |
| Detailed Streets (StreetMap USA)               |                  | X              | X                | X              |
| Major Roads                                    |                  | X              | X                | X              |
| Major Highways                                 |                  | X              | X                | X              |
| Highways                                       |                  | X              | X                | X              |
| Drainage Systems (Generalized)                 |                  | X              | X                | X              |
| Lakes (Generalized)                            |                  | X              | X                | X              |
| Rivers (Generalized)                           |                  | X              | X                | X              |
| Rivers and Streams                             |                  | X              | X                | X              |
| Water Bodies                                   |                  | X              | X                | X              |
| Parks  |                  | X              | X                | X              |
| Hospitals                                      |                  | X              | X                | X              |
| TANA/GDT Airports                              |                  | X              | X                | X              |
| TANA/GDT Institutions                          |                  | X              | X                | X              |
| TANA/GDT Large-Area Landmarks                  |                  | X              | X                | X              |
| TANA/GDT Park Landmarks                        |                  | X              | X                | X              |
| TANA/GDT Recreation Landmarks                  |                  | X              | X                | X              |
| TANA/GDT Transportation Terminals              |                  | X              | X                | X              |
| Cultural Points—Buildings                      |                  | X              | X                | X              |
| Cultural Points—Cemeteries                     |                  | X              | X                | X              |
| Cultural Points—Churches                       |                  | X              | X                | X              |
| Cultural Points—Golf Courses                   |                  | X              | X                | X              |
| Cultural Points—Hospitals                      |                  | X              | X                | X              |
| Cultural Points—Locales                        |                  | X              | X                | X              |
| Cultural Points—Populated Places               |                  | X              | X                | X              |
| Cultural Points—Schools                        |                  | X              | X                | X              |
| Cultural Points—Summits                        |                  | X              | X                | X              |
| National Transportation Atlas Interstate Roads |                  | X              | X                | X              |
| National Transportation Atlas Railroads        |                  | X              | X                | X              |

| <b>Data and Maps</b>  | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|---|------------------|----------------|------------------|----------------|
| National Atlas of the United States Airports                      |                  | X              | X                | X              |
| National Atlas of the United States Cities                        |                  | X              | X                | X              |
| National Atlas of the United States Urbanized Areas               |                  | X              | X                | X              |
| National Atlas of the United States Federal and Indian Land Areas |                  | X              | X                | X              |
| National Atlas of the United States Federal Land Lines            |                  | X              | X                | X              |
| National Atlas of the United States Water Feature Areas           |                  | X              | X                | X              |
| National Atlas of the United States Water Feature Lines           |                  | X              | X                | X              |
| National Atlas of the United States Public Land Survey            |                  | X              | X                | X              |
| National Atlas of the United States Historic Earthquakes          |                  | X              | X                | X              |
| National Atlas of the United States Volcanoes                     |                  | X              | X                | X              |
| State Plane Zones for NAD 1927                                    |                  | X              | X                | X              |
| State Plane Zones for NAD 1983                                    |                  | X              | X                | X              |
| USGS Topographic 1:24,000 Quadrangle Series Indexes               |                  | X              | X                | X              |
| USGS Topographic 1:100,000 Quadrangle Series Indexes              |                  | X              | X                | X              |
| USGS Topographic 1:250,000 Quadrangle Series Indexes              |                  | X              | X                | X              |
| <b>World</b>  |                  |                |                  |                |
| Countries (Generalized)   |                  | X              | X                | X              |
| Countries 2005  |                  | X              | X                | X              |
| Countries 1992  |                  | X              | X                | X              |
| Administrative Units  |                  | X              | X                | X              |
| Continents  |                  | X              | X                | X              |
| Regions   |                  | X              | X                | X              |
| Country Watch Demographics (Table)                                |                  | X              | X                | X              |
| Country Memberships of Political Organizations (Table)            |                  | X              | X                | X              |
| Cities  |                  | X              | X                | X              |
| Gazetteer   |                  | X              | X                | X              |
| Drainage Systems  |                  | X              | X                | X              |
| Lakes   |                  | X              | X                | X              |
| Rivers  |                  | X              | X                | X              |
| World Wildlife Fund Terrestrial Ecoregions                        |                  | X              | X                | X              |
| World Wildlife Fund Marine Ecoregions                             |                  | X              | X                | X              |
| UTM Zones   |                  | X              | X                | X              |
| Time Zones  |                  | X              | X                | X              |
| Latitude and Longitude Grids                                      |                  | X              | X                | X              |
| Named Latitudes and Longitudes                                    |                  | X              | X                | X              |
| World Map Background  |                  | X              | X                | X              |
| <b>Europe</b>   |                  |                |                  |                |
| Germany One-Digit ZIP Code Areas                                  |                  | X              | X                | X              |
| Germany Two-Digit ZIP Code Areas                                  |                  | X              | X                | X              |
| Germany Five-Digit ZIP Code Areas                                 |                  | X              | X                | X              |
| Countries   |                  | X              | X                | X              |
| Level 1 Provinces   |                  | X              | X                | X              |
| Level 2 Provinces   |                  | X              | X                | X              |
| Level 3 Provinces   |                  | X              | X                | X              |

| <b>Data and Maps</b>                   | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| Cities                                 |                  | X              | X                | X              |
| Places                                 |                  | X              | X                | X              |
| Urbanized Areas                        |                  | X              | X                | X              |
| Major Roads                            |                  | X              | X                | X              |
| Roads                                  |                  | X              | X                | X              |
| Railroads                              |                  | X              | X                | X              |
| Railroad Stations                      |                  | X              | X                | X              |
| Major Water                            |                  | X              | X                | X              |
| Water Bodies                           |                  | X              | X                | X              |
| Ferries                                |                  | X              | X                | X              |
| Province/State Demographics            |                  | X              | X                | X              |
| Country Demographics                   |                  | X              | X                | X              |
| Regional Demographics                  |                  | X              | X                | X              |
| <b>Canada</b>                          |                  |                |                  |                |
| Provinces                              |                  | X              | X                | X              |
| Major Cities                           |                  | X              | X                | X              |
| Middle Cities                          |                  | X              | X                | X              |
| Municipalities                         |                  | X              | X                | X              |
| Regional Municipalities                |                  | X              | X                | X              |
| Indian Reserves                        |                  | X              | X                | X              |
| Highways                               |                  | X              | X                | X              |
| Railways                               |                  | X              | X                | X              |
| FSA Postal Centroids                   |                  | X              | X                | X              |
| Telephone Area Code Boundaries         |                  | X              | X                | X              |
| National Parks                         |                  | X              | X                | X              |
| Provincial Parks                       |                  | X              | X                | X              |
| Water Bodies                           |                  | X              | X                | X              |
| <b>Mexico</b>                          |                  |                |                  |                |
| States                                 |                  | X              | X                | X              |
| Cities                                 |                  | X              | X                | X              |
| Municipalities                         |                  | X              | X                | X              |
| Urban Areas                            |                  | X              | X                | X              |
| Roads                                  |                  | X              | X                | X              |
| Railroads                              |                  | X              | X                | X              |
| Contours                               |                  | X              | X                | X              |
| Water Bodies                           |                  | X              | X                | X              |
| Rivers and Streams                     |                  | X              | X                | X              |
| <b>Image Data</b>                      |                  |                |                  |                |
| North America Digital Elevation Models |                  | X              | X                | X              |
| North America Shaded Relief            |                  | X              | X                | X              |
| World Shaded Relief                    |                  | X              | X                | X              |
| World Topography and Bathymetry        |                  | X              | X                | X              |
| WorldSat Color-Shaded Relief Image     |                  | X              | X                | X              |
| World Cloud Free                       |                  | X              | X                | X              |

| <b>Data and Maps</b>                     | <b>ArcReader</b> | <b>ArcView</b> | <b>ArcEditor</b> | <b>ArcInfo</b> |
|--|------------------|----------------|------------------|----------------|
| World at Night                           |                  | X              | X                | X              |
| World with Clouds                        |                  | X              | X                | X              |
| World with Ice                           |                  | X              | X                | X              |
| Global Digital Elevation Model (ETOPO2)  |                  | X              | X                | X              |
| Global Digital Elevation Model (GTOPO30) |                  | X              | X                | X              |

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