



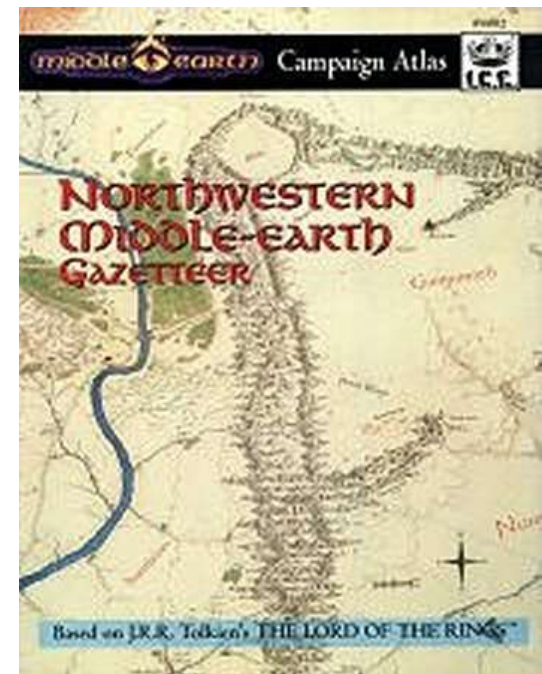
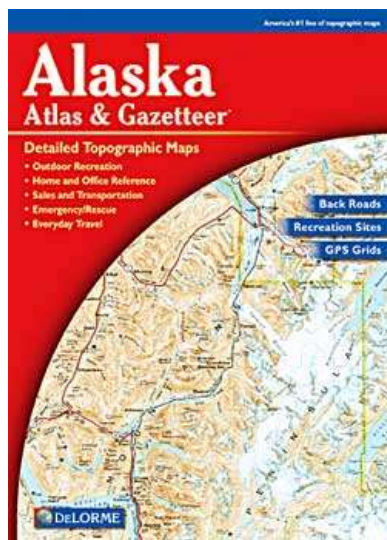
Map Book Production in ArcGIS Desktop

[Topics Covered]

- What is a Map Book
- Need for Map Books
- Map Book applications available
- Features of Map Book applications
- Map Books in action
- Map Books at ArcGIS10

What is a Map Book?

- A map book is a multi-page document based on a dataset and an index grid representing the pages
- e.g. Atlas, corridor maps



[Need for a Map Book]

- Print & export multiple maps with one command
- Automate redundant tasks
- Support variations in a map series
- Map production is limited in ArcMap
 - One map per document
 - Bookmarks do not automate printing/exports

[Map Books]

- DS Map Book
- NW Map Book
- Map Production System (MPS) Atlas
- Detail Area Inset Tools

Map Book Comparison

■ DS Map Book

- Free developer sample
- Source code = fully customizable
- No ESRI support
- No updates
- Attribute-driven text elements
- Attribute driven map scale & rotation
- Adjacent map labels
- Generate new map tile polygons

Map Book Comparison

■ NW Map Book

- Free sample from ESRI Northwest Regional Office
- Source code = fully customizable
- Possible ESRI support
- All the features of DS map book
- Dynamic definition queries
- Layer visibility control
- Detail insets

Map Book Comparison

■ MPS Atlas

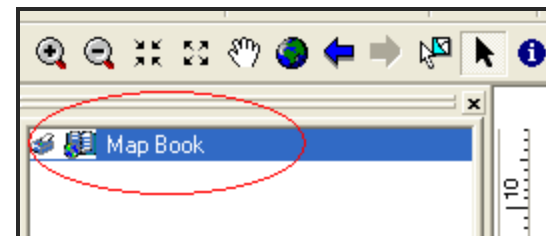
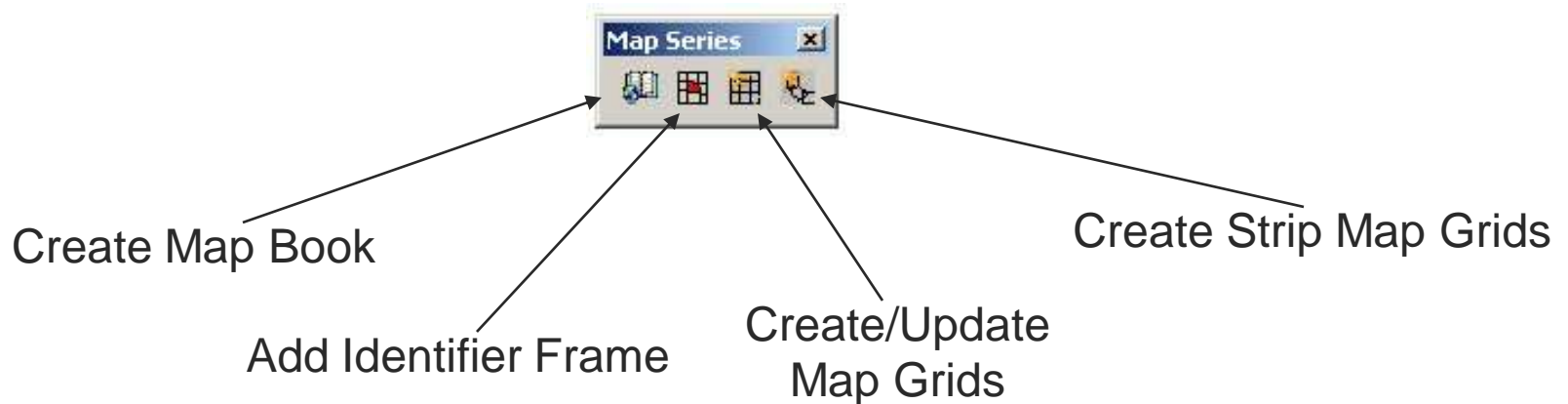
- ArcGIS Extension
- ESRI support
- No source code
- Regular updates
- Works with Geodatabase only?
- All the features of DS map book
- Dynamic definition queries
- Layer visibility control
- Different print size per map sheet
- Variable spatial reference
- Robust dynamic text

[Map Book Comparison]

- Detail Area Inset Tools
 - Free utility from ESRI Denver Tech Marketing Center
 - Generates smaller inset maps
 - Works within a map book or independently

Map Book Fundamentals

- New tab on the TOC & new toolbar

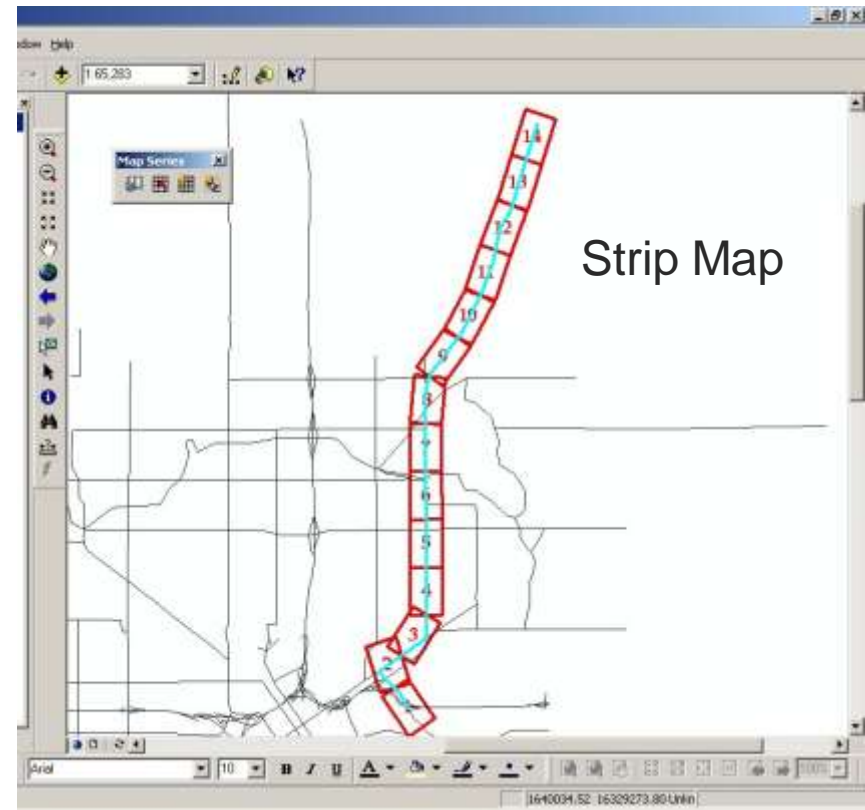
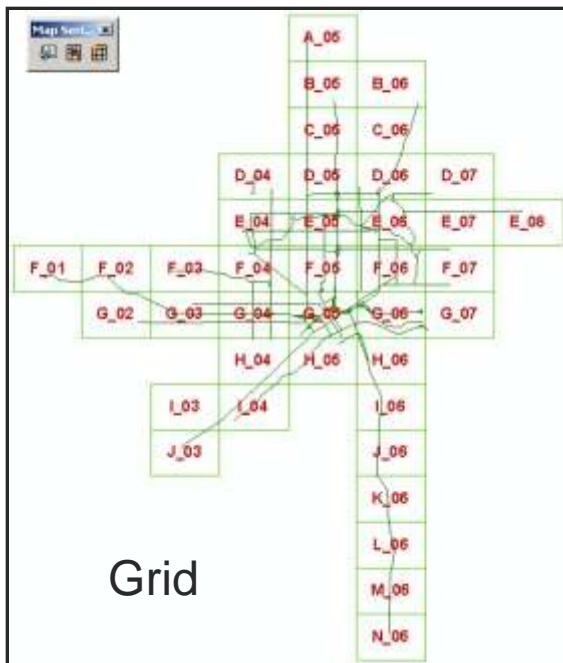


[Map Book Fundamentals]

- The Index 'Grid'
 - Determines what will be on each page
 - Can be an existing shapefile
 - Map Book can generate one for you
- Requirements
 - Must be polygon shapefile
 - Must contain field with unique names

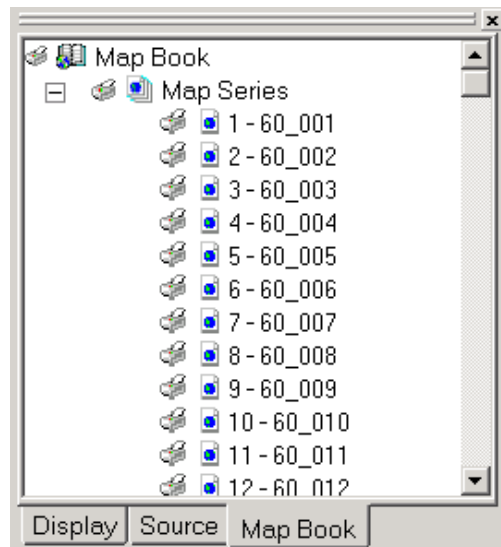
Map Book Fundamentals

- Create an Index (Grid) Layer
 - Manually or with Wizard



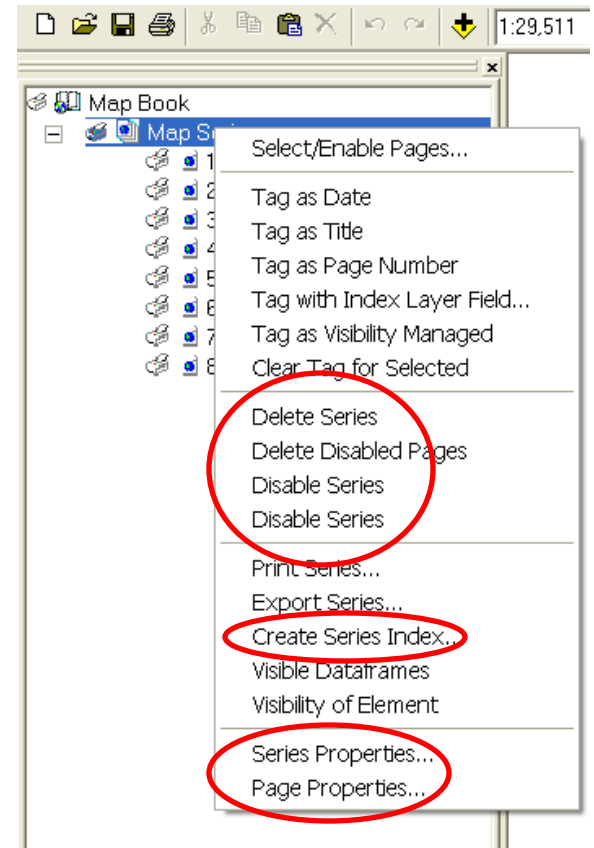
Map Book Fundamentals

- Generate a map series
 - Need index grid & map layout



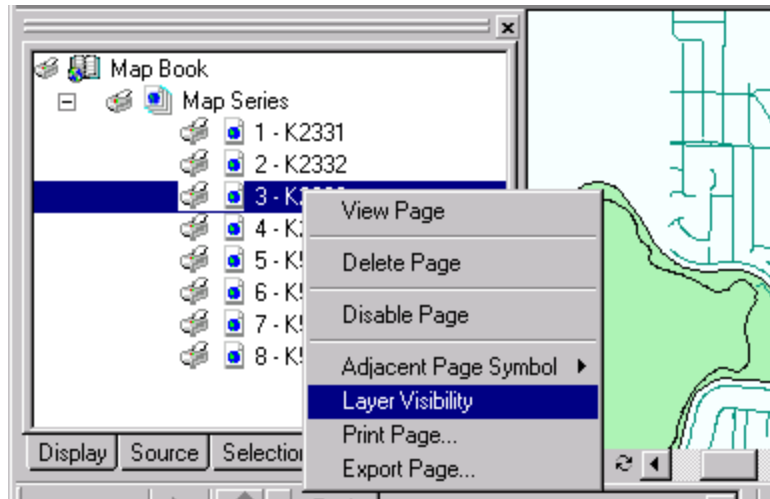
Map Book Fundamentals

- Modify the map series
 - Delete or disable series
 - Series properties
 - Page properties
 - Create series index



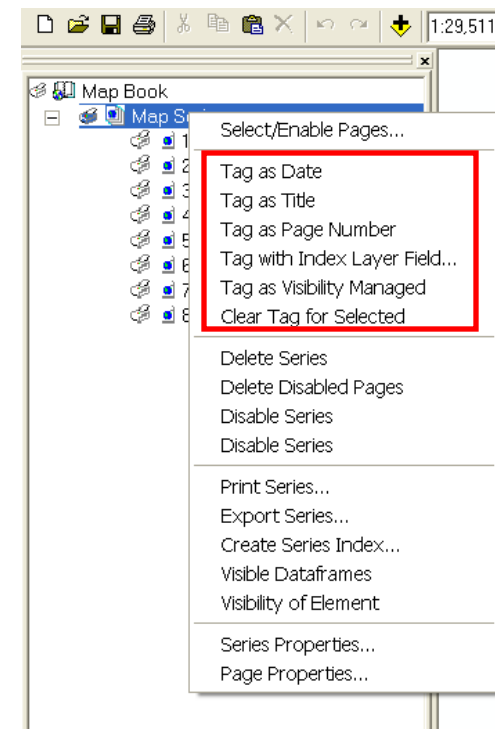
Map Book Fundamentals

- Modify the page properties
 - Set visibility
 - Disable or delete
 - Print/Export individual pages



[Map Book Fundamentals]

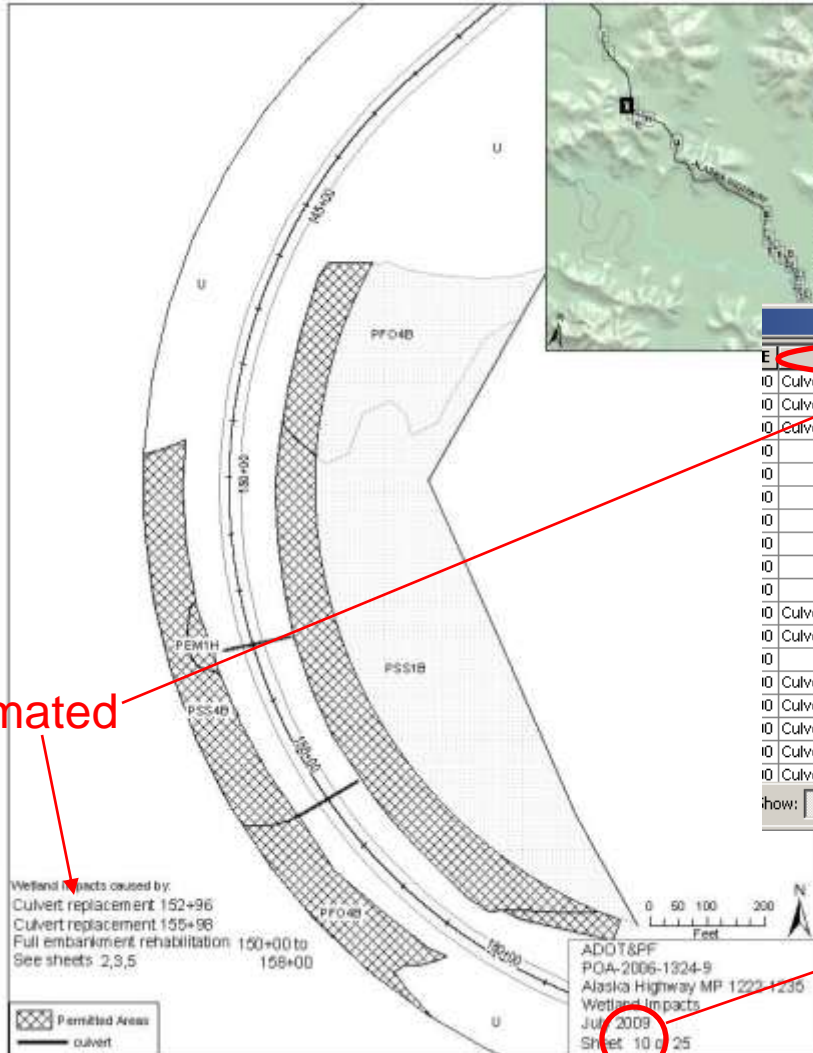
- “Tag as...”
 - “...Date”
 - Populates selected text with date
 - “...Title”
 - Populates text with page name
 - “...Index layer field”
 - Populates text with attribute values



[Map Book in Action]

- Permits for 13 miles of Alaska Highway for DOT project
 - USACE
 - ADF&G Habitat
- Automate map production and meet Corps standards
- Easy to update as design changes

Map Book in Action



Automated

	Culvert	Rehab	Thaw	Figures	sheet
00	Culvert replacement 638+18	Culvert replacement 638+58	Full embankment rehabilitation	2,3,5	25
00	Culvert replacement 614+50		Drainage rehabilitation	2,3,6	23
00	Culvert replacement 614+50		Drainage rehabilitation	2,3,6	24
00			Drainage rehabilitation	6	22
00			Drainage rehabilitation	6	20
00		Partial embankment rehabilitation	Drainage rehabilitation	4,6	21
00			Drainage rehabilitation	6	18
00			Drainage rehabilitation	6	19
00			Drainage rehabilitation	6	16
00			Drainage rehabilitation	6	17
00	Culvert installation 455+09	Culvert replacement 461+55	Drainage rehabilitation	2,3,6	15
00	Culvert replacement 250+95	Full embankment rehabilitation		2,3,5	14
00		Partial embankment rehabilitation	Drainage rehabilitation	2,3,4,6	12
00	Culvert installation 190+95			2,3	13
00	Culvert replacement 152+96	Culvert replacement 155+98	Full embankment rehabilitation	2,3,5	10
00	Culvert replacement 167+95	Partial embankment rehabilitation	Drainage rehabilitation	2,3,4,6	11
00	Culvert replacement 50+30	Partial embankment rehabilitation	Drainage rehabilitation	2,3,4,6	9
00	Culvert replacement 24+82			2,3	8

how: All Selected Records (0 out of 18 Selected) Options

[Issues]

- DS Map Book

- Problems with printing/exporting large map series
- Vista installation
- Index layer name cannot change
- Would be nice to populate text based on attributes from features other than index grid

[Future of Map Books]

- Map series functionality with core desktop at 10
- No more VBA support after 9.3?

[Additional Resources]

- ESRI Developer Network:
 - <http://edn.esri.com>
- Other sites:
 - <http://arcmapbook.googlepages.com>
 - <http://code.google.com/p/arcmapbook/>
 - <ftp://ftp.modot.gov/TMSPublic/mogis/detailinset.zip>
- ArcScripts
 - <http://arcscripts.esri.com/>

[Thank You]

- Questions?

- Contact

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