Mylar Tax Maps to the Parcel Fabric In Morrow County

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Maps, Apps and Bridging Gaps

2016 Ohio GIS Conference September 28 – 30, 2016



Hyatt Regency Columbus Columbus, Ohio

Morrow County Stats

407 Square Miles 23 Political Subdivisions Just under 28,000 parcels (Initially 25,000 parcels) Esri software user



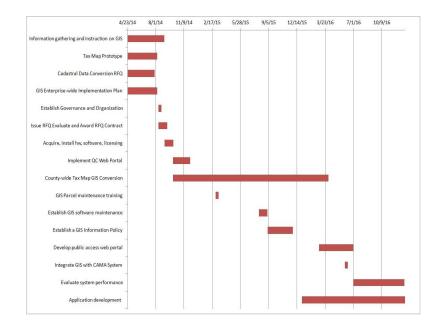
- * Implementation Plan
- * Data Conversion RFP
- * Data Conversion
- * GIS Infrastructure Implementation

Implementation Plan

- System Architecture / Technology
- GIS Software Infrastructure: In-house or out-sourced?
- Hardware Recommendations
- Software Recommendations
- Parcel Management Workflows
- Governance and Organization Structure

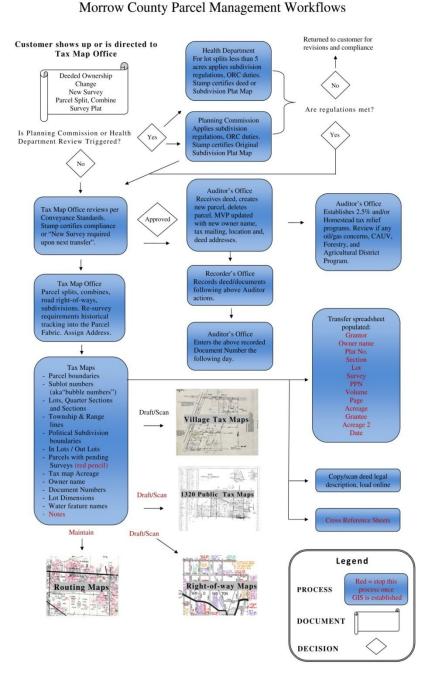
Implementation Plan

Detailed Task List for 2014, 2015 1nd 2016



Morrow Cour Project

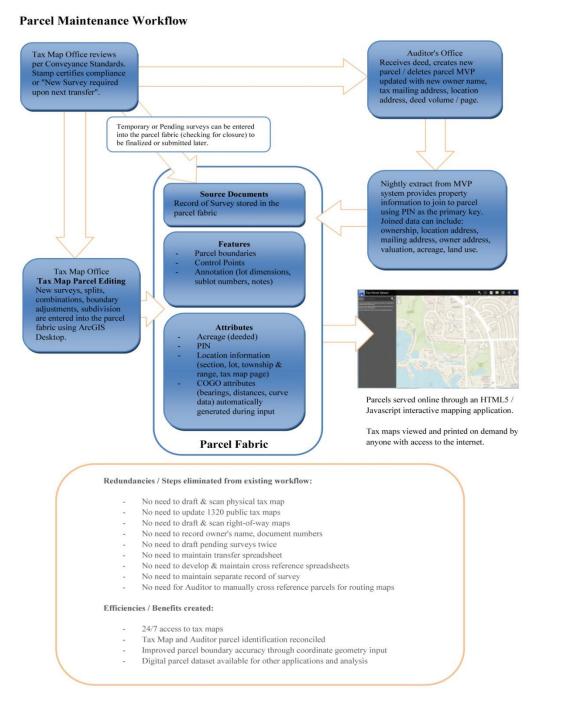
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Data Conversion RFP

Parcel Fabric

- Parcel boundaries
- Sublot numbers (aka "bubble numbers")
- * Lots, Quarter Sections, & Sections
- * Township & Range lines
- * Political Subdivision boundaries
- * In Lots / Out Lots
- * Parcels with pending surveys (red pencil)
- * Tax map Acreage
- * Owner name
- * Document Numbers
- * Lot Dimensions
- * Water feature names
- * Notes

NOTE: There are NO Parcel Identification Numbers (PIN) on the Tax Maps. The Auditor's Office maintains the PINs.

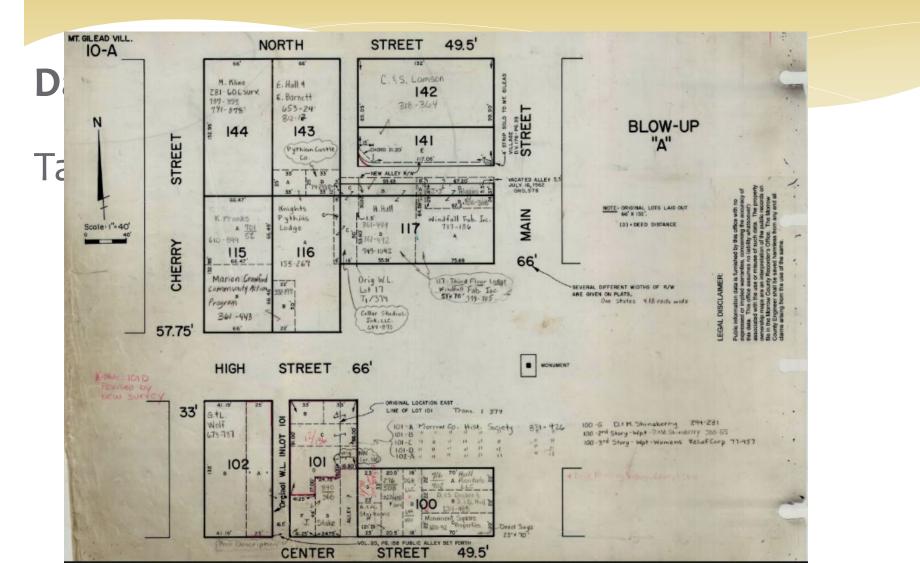
Data Conversion RFP

- * Source document conversion, reports and manuals
- * QA/QC and Public Access Web Portals
- * Amazon EC2 Cloud GIS
- * GIS Systems Integration
- * Implementation , Training and Support

Data Conversion

Completeness of Parcel Number assignment - **99.7**% (89 remaining)

Further research needed – **0.8**% (224 remaining)



Data Conversion

PLAT NO.		SEC.	LOT		PPN	VOL.	PAGE	
55	Roger & Brenda Beall	12		vol 9 pg 524.pdf	G19-001-00-341-01	286	136	0.83
56	Jessica L. Abdon & Elizabeth M. Shiflet, co-trustees or their successors as trustees of the Shiflet	12		vol 11 pg 326.pdf	G19-001-00-347-01	756	531	3.368
57	Donald & Connie McNamee	12			G19-001-00-331-01	300	472	1
58	Billy & Doris McManis	12		vol 9 pg 407.pdf		328	614	0.733
60	Bruce & Deborah M. Campbell	12		vol 9 pg 408.pdf	G19-001-00-345-01	389	606	1.212
61	Roger & Brenda Beall	12		vol 10 pg 125.pdf		286	136	0.245
62	David R. Wise	12		vol 10 pg 124.pdf		242	245	0.246
63	Billy & Doris McManis	12		vol 9 pg 407.pdf		328	614	
64	Robert & Donna Hoelscher	12		vol 10 pg 123.pdf		317	502	0.304
65	Rick & Jan Lower	12		vol 10 pg 431.pdf	G19-001-00-329-01	335	824	1.282
66	Donald & Rhonda Graham	12		vol 10 pg 507.pdf	G19-001-00-346-01	315	486	2.661

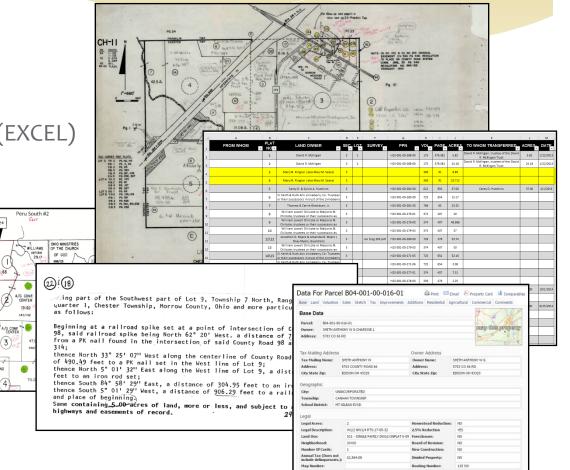
Morrow County Source Documents

- * Tax Maps (PDF)
- * Transfer Spreadsheets (EXCEL)

E. DESMOND

54.79

- * Legal Descriptions (PDF)
- * Surveys (PDF)
- * Routing Maps (PDF)
- * Auditor's Website



Morrow County - Parcel Conversion Overview

Data Conversion

Georeference Scanned Tax Maps

Digitize Parcels

Assign Attributes

Assign Auditor's Parcel Number

Upload to Parcel Fabric

Resolve Duplicate Parcel Numbers

Enter Lot Dimensions

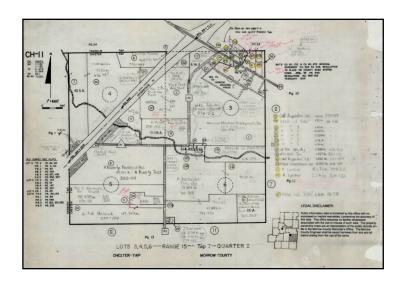
Digitize Pending Surveys

Additional Layers

Morrow County - Parcel Conversion Georeference Scanned Tax Maps

Data Conversion

- * ~ 1,025 Scanned Tax Maps
 - * Converted from PDFs to TIFs
 - Georeferenced using LBRS Road Centerlines and 2013
 Orthoimagery





Morrow County - Parcel Conversion Digitize Parcels

- Parcels digitized based on
 'Apparent Lines of
 Occupation'.
- Source documents (surveys, legal descriptions)
 referenced if georeferenced
 tax map was unclear.



Morrow County - Parcel Conversion Digitize Parcels (cont.)

- * Tax Parcels: ~27,500
- * Sublots, ROWs: ~12,000
- * PLSS: 2,101
- * Historic (combinations, pending): ~6,100
- * Total polygons: ~47,630

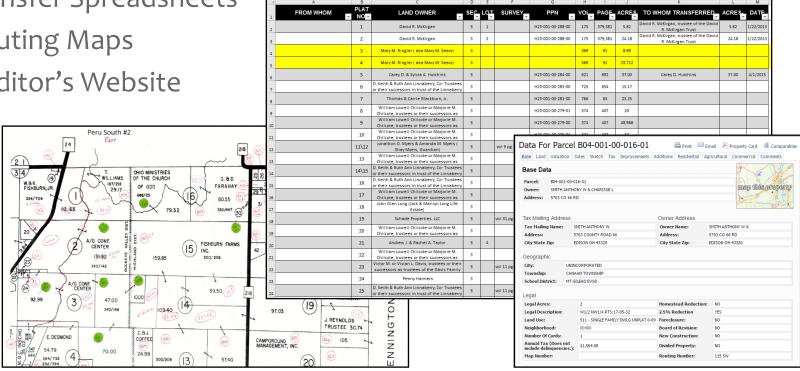
Morrow County - Parcel Conversion Assign Attributes

* Attributes assigned while digitizing

- * Tax Map Page
- * Jurisdiction
- Attributes assigned from Transfer Spreadsheets and other sources
 - * Owner Name
 - * Document Numbers
 - * Acreage
 - * Parcel Number

Morrow County - Parcel Conversion Assign Auditor's Parcel Number

- Parcel Assigned from one of many sources *
 - Transfer Spreadsheets *
 - **Routing Maps** *
 - Auditor's Website



Morrow County - Parcel Conversion Parcel Fabric Upload - Overview

- * Add fields to default Parcel Fabric schema
- * Create other Cadastral layers from Parcel base
- * Load Parcel layer into Staging File Geodatabase
- Fix Topological Errors
- * Load data into Parcel Fabric
- * Join attribute data to Parcel Fabric

Morrow County - Parcel Conversion, Parcel Fabric Upload Add Fields to Parcel Fabric

* Fields added to Parcel Fabric

- * TM_ID 'Bubble' or Lot number
- * TM_ID_Type 'Bubble' or 'Lot'
- * TM_Owner Owner on Tax Map
- * TM_Page Tax Map Page
- * TM_Jurisdiction Community parcel is in
- * TM_TaxDistrict Tax District name
- TM_SchoolDistrict School District name
- * TM_Documents Current documents for parcel
- * TM_Survey Reference to current scanned survey
- * TM_Notes Miscellaneous notes
- * TM_Pending Flag to denote pending survey
- * TM_Historic Flag to denote parcel for labelling
- * TM_Acreage Tax Map acreage

Morrow County - Parcel Conversion, Parcel Fabric Upload Add Fields to Parcel Fabric (cont.)

- * Additional Fields added to Parcel Fabric
 - * A_Owner Auditor's Owners Name
 - * A_PropertyAddress Auditor's Property Address
 - * A_MailingAddress Auditor's Mailing Address
 - * A_Landuse Auditor's Land Use Classification
 - * A_Acreage Auditor's Acreage

Morrow County - Parcel Conversion, Parcel Fabric Upload Create Other Cadastral Layers

* PLSS Layers

- * Township & Range
- * Quarters & Sections
- * Lots & Quarter Sections
- (Morrow County is covered by 3 different land survey systems – Congress Lands 1795-1804, Congress Lands 1819, & US Military District 1796-1802)
- * Sublots Lots & Outlots

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Morrow County - Parcel Conversion, Parcel Fabric Upload Staging File Geodatabase

- Layers are loaded into Local Government Information Model Staging Geodatabase
- * ESRI Parcel Fabric Seminars
- ArcMap for Desktop Help Manage Data / Editing / Editing parcels / Local Government Information Model / Load parcel polygons http://desktop.arcgis.com/en/arcmap/latest/manage-data/editingparcels/dataloading-polygons.htm
- * Following this workflow allows the topology to be validated and the features to be classified correctly

Morrow County - Parcel Conversion, Parcel Fabric Upload Validate Topology

- * [Lines] Must Be Covered By Boundary Of [Polygon]
- * [Lines] Must Not Self-Overlap
- * [Lines] Must Not Self-Intersect
- * [Lines] Must Be Single Part
- * [Lines] Must Not Intersect Or Touch Interior
- * [Polygon] Boundary Must Be Covered By [Lines]
- * Often found it was easier to edit source data and reload data than edit through topology interface

Morrow County - Parcel Conversion, Parcel Fabric Upload Load Topology to Parcel Fabric

- * 'Load A Topology To A Parcel Fabric' tool
- Data is loaded from the Staging Geodatabase after topology has been validated and the features have been classified – Tax Parcel, Lots, Quarter Sections, etc ...
- The Local Government Data Model automatically applies a default symbology and configuration for the defined cadastral types

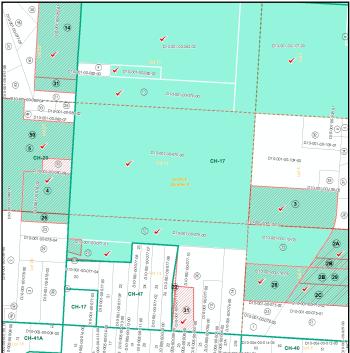
Morrow County - Parcel Conversion, Parcel Fabric Upload Join Attribute Data

 For fields outside the default Parcel Fabric schema, the source data is joined based on the parcel identification number (PIN) and attributes are Field Calculated over into the 'TM' fields created previously (TM ID, TM Owner, etc ...)

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Morrow County - Parcel Conversion Resolve Duplicate Parcel Numbers

- * Duplicate Parcel Numbers Multiple Causes
 - * Parcel overlaps Tax Map pages
 - Legitimate Combination (One Legal Description)
 - Erroneous Combination (Multiple Legals, One PIN)



Morrow County - Parcel Conversion Resolve Duplicate Parcel Numbers (cont.)

- * Parcel overlaps Tax Map pages
 - * Parcels marked as valid duplicates
 - * Adjacent pages noted
- * Legitimate Combination (One Legal Description)
 - * Individual pieces are displayed separately on Tax Map with distinct bubble or lot numbers despite a valid combination
 - These pieces were combined and old polygons marked Historic

Morrow County - Parcel Conversion Resolve Duplicate Parcel Numbers (cont.)

- * Erroneous Combination (Multiple Legals, One PIN)
 - Decades ago a previous County Auditor combined adjacent parcels with the same ownership regardless of legal descriptions
 - These parcels were marked with a distinct phrase in TM_Notes to be isolated later and corrected in the Auditor's database

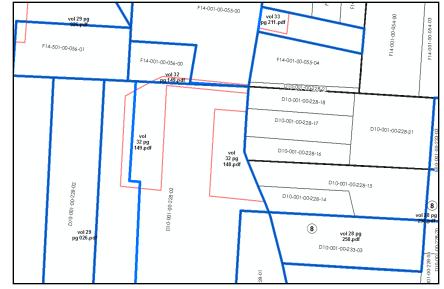
Morrow County - Parcel Conversion Enter Lot Dimensions

- The Parcel Fabric can store recorded distances on parcel lines in spite of geometry lengths.
- Due to this functionality, lot dimensions were entered for all sublots for labeling purposes rather than using static annotation.
- * 54,634 dimensions entered.



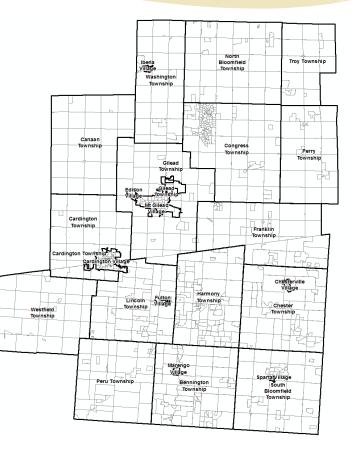
Morrow County - Parcel Conversion Digitize Pending Surveys

- Pending and Unrecorded Surveys are sometimes draw on the Tax Maps
- These were digitized into the Parcel Fabric as Historic (future) parcels



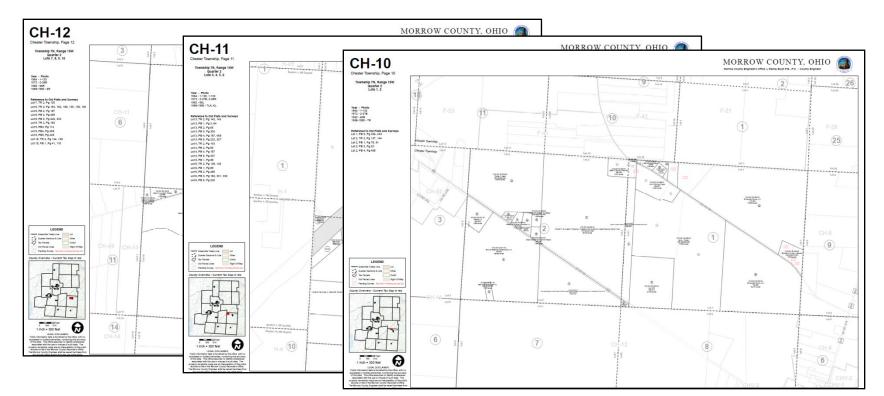
Morrow County - Parcel Conversion Additional Layers

- * Tax Map Index
 - * Critical to Tax Map Mapbook
- * Jurisdictions
- * School Districts
- * Tax Districts



Morrow County New Tax Maps

* The Parcel Fabric & Tax Map Index was used to create a 'new' tax map mapbook. These maps also acted as checkplots.



Morrow County Parcel Updates

Governmax Extract (Auditor's data) Retrieve .txt extract file from remote FTP server

> Import Extract Import file into Microsoft SQL Server

Parcel Fabric Upload Parcel Fabric uploaded from Tax Map

Parcel Fabric Copied Fabric backed up

Update Tax Parcels Run SQL scripts to update Auditor's data in Parcel Fabric / Tax Parcels

Morrow County GIS Infrastructure – Internal Use

Amazon Web Services (AWS) EC2 Instance – m3.large 2 CPUs, 7.5GB RAM SQL Server 2012 Standard ESRI ArcGIS for Server 10.4

ESRI License Manager ArcGIS for Desktop Standard Concurrent licenses

License

Checkout

Enterprise Geodatabase (EGDB) Data Store for ArcGIS Online Web Maps

Data

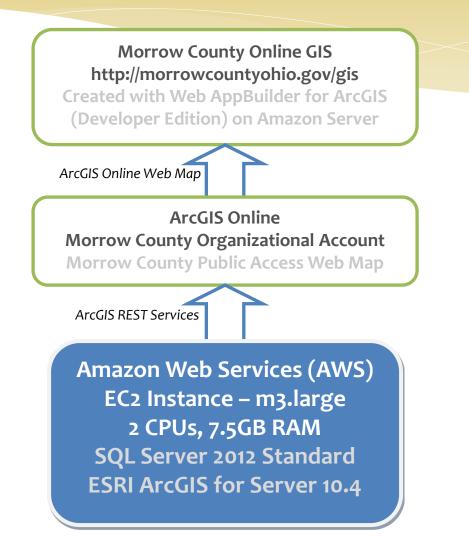
Transfer

Tax Map Workstation

ArcGIS for Desktop 10.4 Standard

File Geodatabase – Parcel Fabric Editing

Morrow County GIS Infrastructure – External Use



Morrow County GIS Website

