



County: Multnomah

Region: Rural and Metropolitan Area Partnership

1. Introduction & Purpose of Plan

Brief history of digital mapping of taxlots:

Multnomah County is in a unique position. We have the most taxlots of any county in the state. The geography represents dense urban areas, mixed with farm and forestlands. We have many unique condominium issues that may not occur in any other county in Oregon.

The assessor maps are 100% digital and created from millions of plats, deeds and other records. We were one of the first DOR Intergraph conversion projects and therefore have some unique CAD data issues. When Multnomah County was converted by DOR, survey control was used, but detailed records were not kept. Over time, the data has been projected and edited by many Cartographers. Although the data appears to have a high level of positional accuracy, evaluating the accuracy to meet ORMAP Goal 4 standards will be challenging.

The maps are in CAD format and are stored as files with levels of information within a specific map rather than as seamless GIS style themes over the entire county. Without editing and manipulation, the linework does not consistently generate closed polygons from the taxlot levels. There is no centroid to identify the polygons. Linework that is suppose to be identical at the edges of files, is not maintained consistently, and may overlap or gap somewhat at file edges. On paper, Multnomah County has extremely high quality maps. As GIS data, however, creating taxlot polygons or other polygons from the CAD files requires much effort.

Our strategy gradually moves Cartography from a CAD maintenance environment into a GIS-based maintenance environment, moving from maintaining thousands of map files to maintaining a single, seamless intelligent integrated GIS database. We place high priority on retaining our investment in the integrity and relative correctness of the existing data.

What ORMAP goals does the county currently meet? Goal 4

What are the county's primary limitations to moving forward with ORMAP?

- Money
- Staffing
- Time
- Training

What priority is this project for your Assessment department? Medium

What county departments support / use the cadastral base map?

- Assessment & Taxation
- Aging & Veterans Services
- Board of Commissioners
- County Counsel
- Community Corrections
- District Attorney
- Elections
- Emergency Medical Services
- Finance
- Health and Human Services
- Land Development
- Law Enforcement
- Library
- Planning
- Public Works
- Recording
- Roads
- Survey
- Traffic Engineering

2. Status of the Taxlot Base and Digital Production of Taxmaps

Status of Assessor Maps being produced to ORMAP Technical Specifications (Specs):

Map Type	Meet Specs	Do Not Meet	Total	% Completed
Township	15	0	15	100
Section	349	0	349	100
Quarter Section	479	12	491	98
Sixteenth	2379	152	2531	94
Supplemental	0	0	0	0
Detail	149	12	161	93
Totals	3371	176	3547	95 %

Approximately how many taxlots are in the county?	274415
How many taxlots meet ORMAP Technical Specifications?	256412
How often does the county update the taxlot layer?	Daily
Is the county layer distributed internally?	No
Is the county taxlot layer integrated with any other systems / databases?	Yes
If yes, briefly describe the other systems:	
Survey records and A & T tax roll	
Is the county goal 2 layer available publicly?	Yes

If yes, how are they available?

- On CD
- On the internet
- Other

If yes, is there a charge?

Yes

What is the predicted month and year that the county will have 100% of assessor maps to ORMAP Technical Specifications?

October, 2010

3. Remapping Procedures and Strategic Approach

What sources of geodetic control points does the county use?

- County Surveyor

What county department is responsible for digital taxmap creation?

- Assessment & Taxation

4. Staffing and Training

Will training be required for county personnel to use GIS as a tool for taxlot maintenance?

Yes

5. Timeline

Timeline to complete maps:

2001

- Obtain ORMAP funding for Strategic Plan for A GIS Ready
 - Obtain ORMAP funding for common Multnomah, Washington, Clackamas boundary
- 2002

- PlanGraphics delivers Strategic Plan
- ORMAP/Multnomah shared funding Aerial Photos and DEM
- Determine Multnomah County Goal 2 strategy. Purchase software and lead staff training, develop GOAL 2 maintenance processes, develop quality control processes.

GOAL2

2003 to PRESENT

- Develop and maintain GOAL 2 taxlot polygons 100% of taxlots complete as of 7/19/04.
- Format GOAL 2 ORMAP attributes to standard publication

GOAL 3,4

Design seamless GIS maintenance environment

Develop Data Model for GeoMedia and Oracle

- Consultant Hired, First on site visit completed 2/24/04. Model delivered June 6, 2004
- Develop Interoperability Plan to use data directly from Oracle Spatial (internally) or provide data in various GIS vendor environments internally and to external users.

- Develop Data Conversion Plan and Implement Procedures
- Develop and implement procedure to edgematch taxlots by file
- Develop and implement procedure to create aggregate polygons (levy codes, subdivision, etc.)
- Develop and implement procedure to import text and cartographic elements
- Develop Strategy to Align County Boundaries
- Develop Strategy to Adjust to GPS Control if needed
- Process CAD data and develop maintenance plan
- Plotting and Production maintenance tools

This timeline table is to summarize what your county's plans are for meeting the ORMAP Technical Specifications (Goal 6). This information is compiled with the plans from other counties and used by the Department of Revenue and the ORMAP Advisory Committee to administer the ORMAP Project. For each cycle that you will be requesting ORMAP funds, please include a brief description of the project, the estimated dollar amount to be requested, the approximate number of taxlots to be completed, and the actual number of taxlots and tax maps completed to date.

Funding Cycle Project Type	Taxlots Completed (per cycle)	Taxlots Completed (cum. %)	Maps Completed (per cycle)	Maps Completed (cum. %)	Funding Source		
					ORMAP	Other	Total
As of Spring 2004 Past Projects	0	0.0 %	0	0.0 %	\$241,218	\$10,580,000	\$10,821,218
Spring 2004 training, adjust datamodel and polygons, plan	0	0.0 %	0	0.0 %	\$77,600	\$55,000	\$132,600
Fall 2004 edgematch maps in 45 sections	435	0.2 %	39	1.1 %	\$58,287	\$36,400	\$94,687
Spring 2005 edgematch maps in 50 sections	828	0.5 %	74	3.2 %	\$49,022	\$36,400	\$85,422
Fall 2005 edgematch maps in 50 sections	6,722	2.9 %	573	19.3 %	\$30,000	\$36,400	\$66,400
Spring 2006 No Request	0	2.9 %	0	19.3 %	\$ 0	\$ 0	\$ 0

Fall 2006 edgematch maps in 50 sections	70,465	28.6 %	750	40.5 %	\$80,000	\$36,400	\$116,400
Spring 2007 No Request	0	28.6 %	0	40.5 %	\$ 0	\$ 0	\$ 0
Fall 2007 edgematch maps in 70 sections	93,164	62.5 %	941	67.0 %	\$60,000	\$72,800	\$132,800
Spring 2008 No Request	0	62.5 %	0	67.0 %	\$ 0	\$ 0	\$ 0
Fall 2008 edgematch maps in 70 sections	95,377	97.3 %	983	94.7 %	\$60,000	\$72,800	\$132,800
Total	266,991	97.3 %	3,360	94.7 %	\$656,127	\$10,926,200	\$11,582,327

6. Contact

Contact Information

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