

# ORMAP Grant Application

Section I. County and Grant Information			
A. County: Benton		B. Funding Cycle: Spring 2009	
C. Project will help meet ORMAP Goal(s): 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 X 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>		D. Fund Request: \$65,560.00	
Section II. Summary of Project			DOR Assessment
A. Brief Overview of the Request.			<input type="checkbox"/> Pass <input type="checkbox"/> Fail
The intent of this project is to collect Survey Grade GPS Mapping Control and re-map remaining Urban areas and Rural Residential areas on the outskirts of North Albany – (see attached map). This data would be adjacent to ORMAP format data created in previous projects.			
Scope and Deliverables			
Check	Deliverables	Brief description of the deliverables	
<input checked="" type="checkbox"/>	Taxlot Conversion	1852 taxlots Re-mapped from original data sources.	
<input checked="" type="checkbox"/>	Tax Map Conversion	62 Maps, Re-mapped from original data sources.	
<input checked="" type="checkbox"/>	Control Points	Collect a minimum of 200 Survey-grade GPS Mapping Control points	
<input type="checkbox"/>	Scanning		
<input type="checkbox"/>	Reports		
<input type="checkbox"/>	Development		
<input type="checkbox"/>	Other Assistance		
<input type="checkbox"/>	Other Deliverable		
<input type="checkbox"/>	Hardware/Software		
B. Timeline (funding not to exceed one year from award date)			
July 2009 – June 2010			
C. Costs of Total Project (add lines as necessary)			
Deliverable	Number of Items	Cost per Item	Total Cost
Survey grade GPS Mapping Control	200 points	\$50/point	\$10,000
Re-map in ORMAP-ESRI format	1852 Taxlots	\$30/Taxlot	\$55,560.00
D. Partnerships and Contributions (add lines as necessary):			
Partner	Contribution		
Benton County Public Works - Survey Division	Technical Assistance, access to GPS equipment, office space, workstation, vehicle.		
Benton County GIS	Software, GIS Coordinator Assistance, GIS Intern assistance, aerial photography		
Benton County Assessment Department	Supervision, Office space, workstation		
A. Assessor's Signature & Date:		See File Copy	
F. Fiscal Coordinator – Name & Contact Number:		Doug Sackinger, 541.766.6601	
G. Project Coordinator – Name & Title:		Doug Sackinger, GIS Coordinator	
E-mail address:		<a href="mailto:douglas.a.sackinger@co.benton.or.us">douglas.a.sackinger@co.benton.or.us</a>	
Phone Number:		541.766.6601	
Mailing Address:		360 SW Avery Ave Corvallis, OR 97333	

## Section III. Detail Project Information – Answer all questions

### A. Overview

**1. Describe what the project is trying to accomplish.**

This project concentrates on controlling and re-mapping areas in or near larger urban centers that have already been re-mapped. In particular, remaining Urban areas and Rural Residential areas on the outskirts of North Albany – (see attached map).

**2. Does this project relate to any previous ORMAP-funded projects? If yes, please explain.**

This project only relates to previous projects in that it is adjacent to re-mapped ORMAP areas in North Albany and would complete the North Albany City Limits.

**3. What is the status/outcome of the previous ORMAP-funded projects? (Please include contract numbers and a status map.)**

#1022

2002-2003 Assessment Map Inventory Project - completed, Countywide Goal 2 ESRI shapefile polygon product.

#1021

2002-2003 Project – completed, T12R5 (South Corvallis) re-map in AutoCAD format.

#1348

2005-2006 Project (extension to 2007) – completed, T11R5 (North Corvallis City Limits) GPS control and re-map in ORMAP-ESRI geodatabase format.

#1561

2006-2007 Project– completed and delivered June 2008. Philomath & North Albany GPS control and re-map in ORMAP-ESRI geodatabase format.

#1848

2007-2008 Project – convert T12R5 AutoCAD format data to ORMAP-ESRI geomodel format, Completed December 2008, delivered February 2009.

#1921

2008-2009 Project – GPS control and re-map north Corvallis Urban Growth Boundary and Rural Residential Areas. North half of T11R5.

### B. Project Design – Current Proposal

**1. Identify the ORMAP and the regional/county goal(s) that this project addresses.**

Benton County has a functional, countywide Goal 2 ‘cartoon’ of taxlot polygons. By investing resources in ORMAP re-mapping, including GPS control, COGO, and migrating to the ORMAP-ESRI format, Benton County will have a good-quality GIS database that also serves to produce DOR-spec Assessment Maps.

Benton County has primarily concentrated its re-mapping efforts to Urban areas. This project continues the re-mapping process to Rural Residential areas as well. This process is somewhat different from Urban mapping because of tree-canopy effects on GPS, access issues, and the possible source document issues in rural interface areas that may not be described by Subdivision Plats.

**2. Describe in detail your technical approach to the project (mapping methodology).**

Steps include:

1. Geo-reference any existing scanned Assessment Maps for reference and QC
2. Research Plats & Subdivisions in project area, find accessible and useful monuments.
3. Collect GPS Mapping Control.
4. COGO Plats and Surveys, fit to Mapping Control.
5. Annotate, add Cartographic Lines

**3. Describe the project deliverables. (DOR will bill against these deliverables)**

The primary deliverable will be an ORMAP-ESRI format geodatabase – fully populated feature classes to produce a DOR-spec Assessment Map.

**4. Will this proposal fund staff that is doing work other than ORMAP projects? If so, describe how the time and cost will be tracked for the different projects.**

The Mapping Control work will be done by a Survey Technician, working in conjunction with the GIS Cartographer and the GIS Coordinator. The Survey Technician and all Public Works staff use a cost-accounting program to allocate time to different projects, so ORMAP projects are specifically listed.

Re-mapping work will be done by the Assessment Department GIS Cartographer and possibly by other Assessment Cartography or Public Works Staff. Hours spent on ORMAP work that will be charged to ORMAP will be documented.

**5. Who will be doing the work (county staff, contractor, DOR staff, etc.)? Please define their role(s).**

Survey Technician in the Survey/Engineering Division of the Public Works Department – research and GPS field work.

GIS Cartographer in the Assessment Department – re-mapping, including COGO linework, fitting, annotating.

GIS Coordinator - Oversight, technical assistance, and collaboration

GIS Interns have assisted in ORMAP projects in the past, particularly helping with annotation feature classes.

**6. Define the role of the County Cartographer in the project.**

The current role of the GIS Cartographer is to do the more demanding and technically difficult task such as re-mapping, fitting to control, judging sources. More repetitive tasks such as Annotation or some COGO work may be performed by other staff.

**7. Describe the maintenance plan for this product.**

Benton County is currently implementing and using ORMAP-ESRI Map Production and Map Maintenance Tools for approximately 68% of the taxlots in Benton county. Areas that have been re-mapped and converted are being maintained in the ORMAP-ESRI format.

New subdivisions are GPS'd by the County Surveyor's office as part of the post-monumentation plat check. This control allows accurate maintenance and update of the ORMAP-ESRI format database over time.

**8. Will this comply with Oregon Cadastral Data Exchange Standard?**

Yes, because the ORMAP-ESRI format was designed with/by DOR, there are conversion methods that produce a CDES compliant product.

**9. Describe where this project fits within the County's overall mapping/GIS work plan.**

This project continues the efforts of Benton County to convert all Assessment Maps to ORMAP-ESRI format. Once converted, AutoCAD format and Pen & Ink maps will be retired and the ORMAP-ESRI data will be maintained.

**10. Provide a project timeline with milestones or phase-completion dates**

July 2009 Start Project  
November 2009 Complete GPS mapping control  
January 2010 – 50% completion, linework & annotation  
June 2010 – 100% completion

**11. Does this project promote partnerships, if so, with whom?**

Yes, this project provides Assessment Taxlot data in a standardized GIS format to the City of Albany within their City Limit. The City of Albany has maintained a “Parcel” GIS dataset in Benton County since 1997. Business practice and technological barriers (CAD vs. GIS, ground vs. grid, access to gps control, etc) have made data exchange more difficult than it needed to be. Having GIS data for the entire City of Albany in one GIS format, maintained at the Assessment Departments of Linn and Benton Counties, will be a vast improvement for all parties.

**12. Describe any innovations that will be utilized by this project.**

The intent is to use similar tools and techniques to those that have been used on previous projects.

**13. Detail Costs (who is paying for what).**

Survey Technician:2 months, control planning, collection	ORMAP \$10,000
GIS Cartographer:9 months, control planning, re-mapping, QC	ORMAP \$55,560
GIS Coordinator: QC, technical assistance, oversight, grant administration	Benton County \$4800
GIS Software: ArcGIS Arc/Info	Benton County \$9000
Benton Public Works Office space, Computer, Vehicle, GPS equipment (2 months)	Benton County \$500

**C. Quality Control**

**1. Who will be responsible for quality control?**

The Benton County Assessment Cartographer, the County Surveyor’s Office, and the GIS Coordinator.

**2. Will county cartography staff review the deliverables?**

Yes

**3. Will there be a review by Department of Revenue cartography staff?**

It is assumed that DOR reviews and uses the project deliverables and may perform some quality control of the deliverables.

**4. Describe quality control procedures.**

Match taxlot polygons by matching against Assessment database  
Compare line and polygon features to GPS control  
Compare line and polygon features to City of Albany 6” orthophotos  
Compare line and polygon features to existing Assessment Maps  
Measure line lengths and compare with annotation from deeds and plats.

**D. Data Availability**

**Identify this product’s restrictions on data sharing or licensing issues.**

This product is currently available to the Public for the cost of reproduction – for download, that cost is currently \$0.00. Benton County has signed a Data Sharing agreement with the State of Oregon and all State Agencies are welcome to use the data.

**E. Background Information**

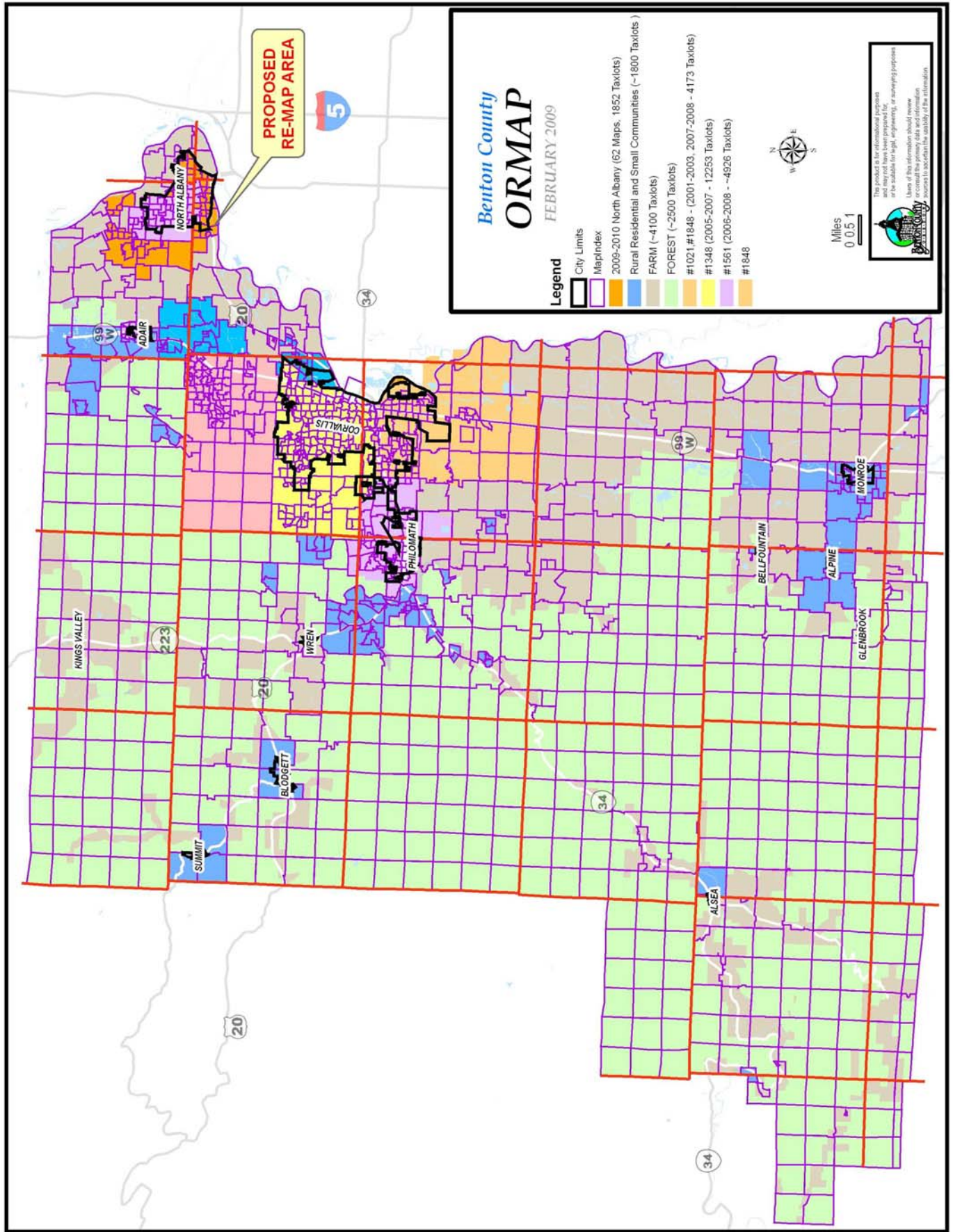
**Any other information that you feel may help support the project. Please attach an updated copy of your county's ORMAP business plan if it has not been updated on the ORMAP website.**

We have attached maps showing the geographic extent of the ORMAP project(s). We find it useful for discussion of re-mapping strategy.

**G. Other Issues - Please identify.**

**Submit completed forms to:**

<b>Mail</b>	<b>Contact Information</b>
ORMAP Project Coordinator Oregon Department of Revenue Property Tax Division - CDOT 955 Center St. NE Salem OR 97301-2555	Tel: 503-945-8493 Fax: 503-945-8737 <a href="mailto:or.map@state.or.us">or.map@state.or.us</a>



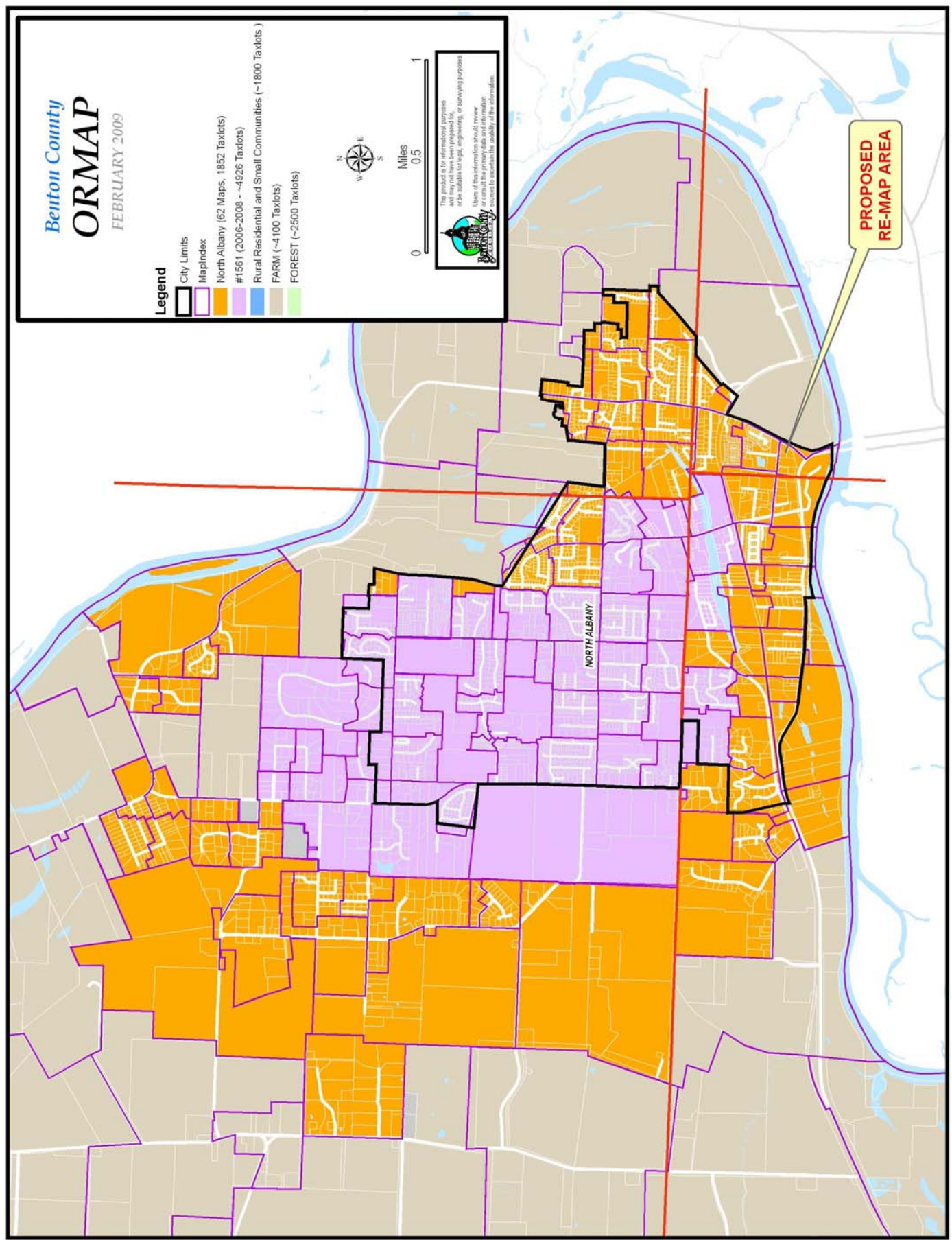
Benton County  
**ORMAP**  
 FEBRUARY 2009

- Legend**
- City Limits
  - MapIndex
  - North Albany (62 Maps, 1852 Taxlots)
  - #1561 (2006-2008 - ~4926 Taxlots)
  - Rural Residential and Small Communities (~1800 Taxlots)
  - FARM (~4100 Taxlots)
  - FOREST (~2500 Taxlots)



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The product is for informational purposes only and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review the sources to ascertain the accuracy of the information.



**PROPOSED  
 RE-MAP AREA**