

# ORMAP Grant Application

## Section I. County and Grant Information

<b>A. County:</b> Curry	<b>B. Funding Cycle:</b> Fall 2008
<b>C. Project will help meet ORMAP Goal(s):</b> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/>	<b>D. Fund Request:</b> \$ 45,805

## Section II. Summary of Project

<b>A. Brief Overview of the Request.</b>	<b>DOR Assessment</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail
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The project entails:  
 In 2007-08, Curry County budgeted over \$103,000 for Enterprise GIS operations not including an amount which may be granted as a result of this request. Part of this amount is contributions from our enterprise partners other county departments. Additionally the County Assessor has budgeted over \$30,000 for map maintenance activities.

The completion of remapping of those tax parcels in Township Range 34s11w, 34s14w, 34s15w, 35s11w, 35s12w, 35s13w, 35s14w, 35s15w, and 36s13w which will bring Curry County up to ORMAP Goal 5 standard. The Project will meet OR MAP Technical Specifications and the Cadastral Data Exchange Standards.

### Scope and Deliverables

Check	Deliverables	Brief description of the deliverables
<input checked="" type="checkbox"/>	Taxlot Conversion	1,392 Tax lots in the Central Rural Area
<input checked="" type="checkbox"/>	Tax Map Conversion	33 Tax Maps
<input type="checkbox"/>	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)

November 2008 -- December 2009

### C. Costs of Total Project (add lines as necessary)

Deliverable	Number of Items	Cost per Item	Total Cost
Taxlot Conversion	1,392 taxlots	\$31.11/taxlot	\$43,305
Checking and Quality Control, Curry GIS Coordinator	50 hrs	\$50/hr	\$2,500

### D. Partnerships and Contributions (add lines as necessary):

Partner	Contribution
GIS Coordinator	Assisting with research, Mapping and checking
Curry county Cartographic Technician	Assisting with research
Curry County Enterprise GIS partners	Assisting with research and data exchange
Curry County Surveyor	Assisting with research and Control Points

<b>A. Assessor's Signature &amp; Date:</b>	<i>See File Copy</i>
<b>F. Fiscal Coordinator – Name &amp; Contact Number:</b>	Ken McCune 541-247-3232
<b>G. Project Coordinator – Name &amp; Title:</b>	John Hawkins GIS Coordinator
<b>E-mail address:</b>	<a href="mailto:hawkinsj@co.curry.or.us">hawkinsj@co.curry.or.us</a>
<b>Phone Number:</b>	541-247-3388
<b>Mailing Address:</b>	PO Box 746 Gold Beach OR 97444

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

**A. Overview**

- Describe what the project is trying to accomplish.**  
This project will fund the counties efforts in meeting the ORMAP goals and is a continuation of converting Curry County's parcel data to meet the ORMAP technical specifications.
- Does this project relate to any previous ORMAP-funded projects? If yes, please explain.**  
Previous ORMAP funded projects have included remapping, collection of GPS control points, assisting with the GIS Coordinator's salary and with the acquisition of a new set of orthophotos that contributed to the remapping effort. This project continues with the remapping.
- What is the status/outcome of the previous ORMAP-funded projects? (Please include contract numbers and a status map.)**

#1011	Phase 1	Harbor Bench Pilot	Completed
#1072	Phase 2	Resource Lands	Completed
#1119	Phase 3	South Rural	Completed
#1236	Phase 4	Brookings Urban	Completed
#1307	Phase 5	Gold Beach	Completed
#1527	Phase 6	Port Orford	Completed
#1761	Phase 7	Port Orford/Central Rural	Partially Completed

The Central Rural project was cancelled when the county lost its cartography in 2007, DOR will complete it with this grant.

As of July 2007, all the projects indicated above are completed including 578 out of 703 tax lot maps, and control points that supported the remapping effort.

**B. Project Design – Current Proposal**

- Identify the ORMAP and the regional/county goal(s) that this project addresses.**  
At the completion of this grant, Goal 5 data will be available for the county. This project will meet all of the Goal 5 ORMAP goals: the data will be accurate; the data will be widely accessible via ArcIMS and will be in one format with indexing.
- Describe in detail your technical approach to the project (mapping methodology).**
  - Data Gathering:** Research and gather as much existing digital data as possible.
    - Obtain USGS Digital Orthophoto Quads, Digital Line Graphs and Digital Raster Graphics.
    - Aerial mapping that may be available from other Federal, State or local agencies.

- City public works engineering base maps.
- Check for larger scale (more detailed) orthophotos done locally.
- Most current higher resolution conventional aerial photos.
- Obtain text files of the GCDB (Geographic Coordinate Data Base) from BLM (U.S. Bureau of Land Management).
- Obtain state plane coordinate data from the county surveyor for any monuments that they may have GPS (Global Positioning System) data and or calculated positions.
- Obtain copies of the county surveyor's survey index maps and/or his recorded survey database.
- Obtain county surveys, partition plats and subdivisions.
- Get a copy of the county road department's county road index map.
- Using ODOT (Oregon Department of Transportation) right of way map indexes, order strip maps of the entire project.
- Contact BPA (Bonneville Power Administration) for strip maps of power line right of ways (check for digital versions).
- If mapping around major hydroelectric reservoirs, check with USCE (U.S. Corps of Engineers) for water line maps. These may already be in raster form.

**2. Control Input & Assembly:** Use control points gathered and COGO (Coordinate Geometry) data to assemble a map and countywide base control network.

- Create control point files to cover the entire county made up of; converted GCDB points, city mapping control monuments, county surveyor GPS points and published NGS control stations.
- Create a countywide PLSS (Public Land Survey System) file for building the GLO (Government Land Office) plats of each township from the BLM GCDB supplemented with any additional GPS points.
- COGO entry of the highway strip maps from ODOT making sure to include all of the PLSS corner ties. The individual ODOT strip map digital files are copied into the county-wide highway file and fit to the orthophoto, PLSS and photogram metric maps.
- COGO all other strip map data from power and gas companies, railroads and county road departments. These digital files are also copied into countywide files. One being the railroad file and the other is the utility file.
- COGO the subdivisions, partition plats and surveys furnished by the county, again being careful to include all of the PLSS corner ties. Subdivision, partition plat and survey COGO work is copied into and positioned in the township control file.
- The PLSS file is now adjusted to fit the corner ties of the previous COGO work (if necessary).

**3. Line Work:** Complete the line work to Department of Revenue cadastral mapping standards.

- Some public road right of ways and major private access roads will still be missing and we map these from other digital sources. The DLG (Digital Line Graph) of the transportation layer of the Baseline 97 project gives us an approx. location for the roads. Generally these are accurate enough for the 1" = 2000' scale but not for larger scales. We then have to verify the road locations using the orthophoto reference file. For the public roads that had no surveys, digitize them using precision tools.
- Water features are added from the hydrograph DLG files and here again they are generally accurate enough for the township map but not the "blowups". The stream courses (shorelines for wider streams) must be digitized from the orthophoto image. When there are traverses of the stream they will be used and the digitized line strings tied into them.

**4. Text and Boundaries:** Complete the text work to Department of Revenue cadastral mapping standards.

- Essentially all text is entered onto the new map just as it appears on the old map. Care is taken however to include all of the county survey numbers that were used in the process as well as verifying spelling, street names, county road numbers and the completeness of the hydrograph and road access layers. Street names are verified from the ODOT city maps. The county road

names and numbers are verified from the county road index map. The hydrograph location and naming is verified against the published USGS (United States Geological Survey) quadrangle maps.

- The township files are edge matched to all of the surrounding files for accuracy and continuity.
- Parcel centroids are placed, map coverage and tax code boundaries are digitized, associated text is entered and graphic grouped as required.

**5. Quality Control:** Map work is checked for accuracy, completeness and edge matched to adjacent maps.

- Check plots are run and reviewed for accuracy and completeness.
- Files are checked for duplicate elements and are deleted.
- Check map boundary line for exact match to the parcel lines and adjacent map boundaries.
- Check code lines for exact match to parcel lines and edge match to code lines of adjacent townships.

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

1,392 Taxlots from DOR, for 33 taxmaps in the Central Rural Area from DOR. Curry County will provide additional Quality control checking. All data will have FGDC metadata.

**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.**

Yes. Hours worked on the remapping will be recorded and submitted monthly to ORMAP.

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

DOR will complete all work associated with the remap and Curry County staff will complete the QC.

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

The Curry County cartographer will assist in the QC of all maps and taxlots produced by DOR's Cadastral Unit.

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

Curry County will be maintaining the product.

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

Yes and FDGC metadata will accompany the product.

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

After the completion of this project (phase 7 of 9), the Northern Rural areas (phase 8) and countywide edgematching (phase 9) remain outstanding. We anticipate that we will complete these phases, as funding is available.

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

Data Gathering	November 2008 – January 2009
Control Input and Assembly	January 2009 – April 2009
Map Finishing (Line work & Text)	May 2009 – July 2009
QC	August 2009

The mapping and QC will be completed by August 2009

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

It is in the interest of local government and groups that the parcel lines in Curry County are accurate and complete. The Curry County Enterprise GIS partners have a significant interest in the timely, accurate completion of this project. We are in the process of making the taxlot data available to Emergency services in a stand-alone environment.

Enterprise Partners include:

City of Gold Beach, City of Brooking, City of Port Orford, South Coast and Lower Rouge Watershed councils , Coos Curry Electric, 15 Rural Fire Districts, Curry Weed Advisory Board, County Road Department, Sheriff's Department, and Cal-Ore Life Flight . In addition, data is being provided to State and Federal agencies

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

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

For the purposes of this fall 2008 ORMMap Grant, \$45,805 is requested to pay for Tax Lot Conversion and Quality Control.

### **C. Quality Control**

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

DOR

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

YES

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

YES

**4. Describe quality control procedures.**

**Before the conversion or remapping process starts the following are created, with the county cartographer having the final approval:**

- A corner control development plan for the whole county.
- A "Method of Mapping" document (i.e. the steps a vendor would take) to assure procedures followed will result in an accurate maintainable product.

**After digital conversion of assessor's map:**

All errors will be noted either digitally or on a hardcopy form as specified in the contract and sent back to vendor for correction.

1. Check text work on scaled printed copy assessor's map against old assessor's map.

- See Map
- Cancelled Numbers
- Taxlot numbers and acres
- Subdivision and Partition Plat names, lot and block numbers
- Tax Code numbers
- Road names, widths, and stationing
- Section numbers
- Government Lot numbers and acres
- DLC names
- Taxlot arrows, dimension arrows, and parcel hooks
- County Survey numbers
- City names
- Bearings and distances

2. Check line work on scaled printed copy against old assessor's map.

- Public Roads
- Private Roads
- Railroad
- Easements
- Hydro features
- Taxlot lines

- Supplemental Taxlot lines
  - Subdivision lines
  - DLC lines
  - Map boundaries
  - Tax code lines
  - Zone boundary
  - Vegetation lines
3. Check accuracy of digital linear features, following these steps will help determine a map's accuracy
    - Ensure correct level (layer) on all features.
    - Compare line work against control points.
    - Compare line work against construction layers.
    - Compare line work against legal descriptions when necessary.
    - Check geometry of taxlot, tax code, and map boundary polygons.
    - Check length of linear features in questionable areas.
    - Ensure closure of polygons for taxlots, tax code, map boundaries
    - Check taxlot, tax code, and map boundaries for gaps or overlaps
    - Check that taxlot, tax code, and map boundaries all have correct attributes
  4. Bring up orthophoto image or photogrammetric mapping behind the map as one last visual check for location.

**D. Data Availability**

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

Curry County Enterprise GIS will be the Data Steward for County data sets. County data will be freely shared with State and Federal Agencies.

**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.**

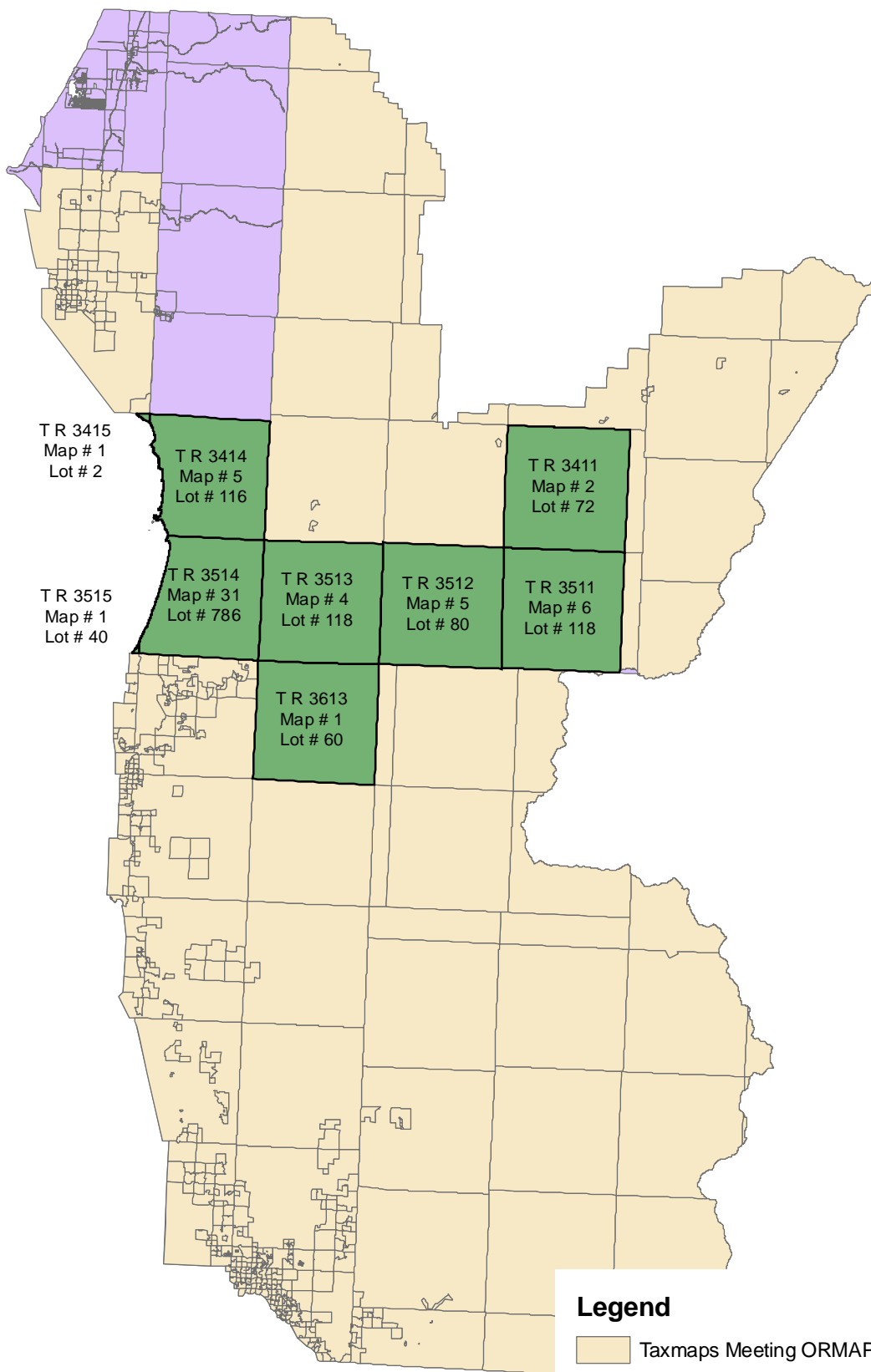
**G. Other Issues - Please identify.**

Township Range 35s14w, 34s15w, 35s14w, & 35s15w were remapped by Curry County in 2006-2007. These tax lots need to be review to assure compliance to ORMAP technical specifications.. If that work can be used, then the number then the remapping effort for this grant would be 305 tax lots and 18 tax maps.

**Submit completed forms to:**

Mail	Contact Information
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>

# Curry County Oregon ORMAP 2008 Planning



## Legend

- Taxmaps Meeting ORMAP Standards
- North Rural
- 2008 Proposed Area Centra \_Rural

