

**Deschutes County
ORMAP 5 Year Business Plan
January 2003 to June 2009**

July 2003

Deschutes County ORMAP 5 Year Business Plan January 2003 to June 2009

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1. Introduction & Purpose of Plan

1.1 Brief history of county digital mapping of taxlots.

Since 1991 Deschutes County has been involved in an effort to digitally map the County's parcel base and to produce taxmaps through the use of GIS software. The County has made substantial progress on the project however significant work remains to be performed. Through a combination of COGO and digitizing methodologies the County has completed its taxlot base and has met Goal 2 ORMAP requirements. Areas that were developed using COGO routines are very accurate and taxmaps are digitally produced for these areas. However, areas of the County that were rapidly developed through digitizing methodologies have positional accuracy problems. In addition, digital taxmaps cannot be produced for these areas until the linework is regenerated based on improved control and until other supporting layers such as annotation are developed.

1.2 Brief Strategic Plan Abstract.

This Business Plan describes the processes to be used by Descutes County in completing the digital remapping of the County's taxlot base and in the conversion of the remaining manually prepared taxmaps to digitally produced maps. The Business Plan was prepared at the request of the Oregon Department of Revenue as part of the requirements for the ORMAP project. The information in the plan is current as of the first quarter 2003. As with any complex project of this nature, the Business Plan will need to be revised during the course of the 5 year project.

1.3 What ORMAP goal(s) does the county currently meet?

Deschutes County presently meets ORMAP Goals 1 and 2. Tiff images of all County taxmaps are provided to the Oregon Geospatial Data Clearinghouse on a quarterly basis. A countywide digital taxlots shapefile that meets ORMAP Goal 2 standards is also produced on a weekly basis. The taxlots shapefile contains taxlot attribute information based on records that are downloaded on a weekly basis from our Assessment and Taxation Information System.

1.4 What are the counties primary limitations to moving forward with ORMAP goals?

There are no major limitations to moving forward with the project with the exception of the revenues required to support the achievement of Goal 4 in a more aggressive timeframe.

1.5 What priority is this project to the county?

The County's GIS Management Committee has established the remapping of the County's parcel base as the priority project for the County's GIS program and efforts are underway to address the parcel base's shortcomings. During the past 2 years two new GIS Specialists have been added to the Assessors' Office Cartography Division to exclusively work on the project. The Surveyors Office has actively been collecting additional survey coordinates and are developing an improved survey coordinate base. In addition, GIS staff from the Information Technology department are actively supporting the project.

1.6 What county departments are involved?

Several County Departments including the Assessors Office, the Surveyors Office and Information Technology are primarily involved in the taxmaps project. In addition, the Community Development Department, Clerks Office, and Road Department are involved but participate on the taxmaps project to a much lesser degree.

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

2. 1. Countywide Taxlot Coverage

2.1.1 What is the current status of the counties taxlot base and of the taxmaps project? Please include reference to the ORMAP Goals 2-4.

The County has made significant progress in the production of a Goal 2 compliant taxlots coverage and in the digital production of taxmaps. As may be observed in the following table, as of January 2003, the County had a total of 1,022 taxmaps that were produced and maintained using GIS software. This represents approximately 58 percent of the County's current taxmaps.

The digitally produced maps conform to Oregon Mapping Standards and meet ODR Goal 4 requirements. The maps are produced through custom developed Arc Info procedures and rely on a number of GIS coverages and annotation files. The vast majority of the digitally produced taxmaps utilize data that was generated using COGO routines and are based on very accurate survey coordinates.

As may also be observed in the table, the County still has 753 taxmaps that are manually maintained. Manual taxmaps account for 42 percent of the total taxmaps. Manual taxmaps are still maintained for developing areas East of Bend, areas in the South Hwy 97 corridor including Sunriver, Crosswater, and areas within La Pine. The current taxlot coverage for these areas was developed through digitizing methodologies and was not tied to adequate control. These areas require new survey coordinates, new taxlot linework tied to improved control, and the development of annotation and other supporting GIS coverages.

Status of the Taxmap Remapping Project January 2003

Map Type	GIS Produced	Manually Produced	Total	Percent
Township	58	35	93	5%
Section	138	181	319	18%
Quarter Section	160	399	559	31%
Sixteenth	582	108	690	39%
Supplemental	84	30	114	6%
Totals	1022	753	1775	100%

2.1.2 Does the county actively update this layer? How?

The countywide taxlots coverage conforms to the State of Oregon ORMAP Goal 2 standards and includes approximately 79,300 individual taxlots. The taxlot base is continuously updated by the County Assessors Office Cartography division through the use of Arc Info routines that are performed on individual section tiles. A new countywide taxlots shapefile is generated each week through an automated routine. The weekly routine also attaches taxlot attribute information to the shapefile based on records that are downloaded from the County Assessment & Taxation information system.

2.1.3 Is the county's layer distributed and/or used internally?

The County's taxlots layer is extensively utilized within Deschutes County. The taxlots layer is the most important GIS coverage and is used as the basis of developing and updating many additional GIS themes.

In addition, Deschutes County presently licenses the use of its taxlots layer as well as other GIS coverages. We have a number of intergovernmental agreements in place with area cities, federal agencies, state agencies, and service districts that allow the sharing of data at no cost. Agencies either access our files directly or utilize subscription based interactive web GIS applications.

We also sell data and license the use of the data to individual private clients. In all cases we do not allow the redistribution of the data to others.

2.1.4 Is the county's layer available publicly?

Deschutes County's taxlots shapefile is not directly available to the public. However, we maintain a free interactive web based GIS application that provides extensive taxlots mapping and land records retrieval. In addition, we maintain a free web based taxmaps application that allows users to download images of taxmaps as Tiff or PDF files. Individuals may search for the taxmap by entering either a situs address, taxlot number, or taxmap number. The taxmap images are updated on a continuous basis.

2.1.5 Is the counties layer integrated with any other systems or databases?

The County's taxlot layer is fully integrated with all other GIS layers and with extensive database tables. The database tables contain records that are downloaded from our Assessment & Taxation and our Permits Information Systems.

2.1.6 In what time frame does the county make updates?

The Assessors Office continuously maintains the taxlots base and has a goal of modifying the taxlots coverage within two weeks of a plat being recorded at the County Clerks Office. The taxlots coverage is also updated for minor partitions and lot line adjustments; although these changes are performed on a less aggressive schedule. The Surveyors Office contributes to maintenance activities as all plats are checked/verified for closure through Arc Info COGO routines with linework and attributes archived for later use by the Assessors Office.

2.2 Status of Digitally Produced Taxmaps

2.2.1 Does the county produce digital tax maps from this data?

The County has processes in place to produce digital taxmaps from its GIS data. The County presently produces and maintains approximately 1,025 digital taxmaps. Approximately 750 taxmaps are still produced through manual methods.

2.2.2 If partially what areas are done?

The County initially focused its efforts on the most populated areas of the County and digital maps are produced for the Bend, Redmond, Sisters, Terrebonne, Tumalo, and selected La Pine areas. In addition, approximately two thirds of the township level maps are digitally produced and maintained.

2.2.3 What standards do these maps conform to?

The digital taxmaps conform to ORMAP Goal 4 standards.

2.2.4 Are they used by the county and/or any other agencies?

Automated digital processes are used to print hard copy taxmaps and Tiff taxmap images. The hard copy maps and digital images are used extensively by public and private agencies. The taxmap images are available at no cost from the County's Internet web site.

2.2.5 Is there a manual system running alongside a digital one?

Manual maps are still maintained for areas that have not been converted to digitally produced maps. Whenever a new area is digitally mapped, the old manual map is retired and is no longer maintained.

2.2.6 What is the predicted date when the county will have 100% digital assessor's maps?

We presently estimate that the project will take approximately 5 additional years to complete. This estimate is based on a production rate of 3 maps per week over a 50-week year representing the production of 150 maps per year. If this production rate is sustained over the life of the project, it will take 5 years to convert the 753 existing manual maps into digitally generated maps. Accordingly, the project should be complete in 2008/2009.

It is important to emphasize that this timeline is only an estimate and that a number of factors can influence the actual rate of map production. Some of the factors that can impact the production rate are as follows:

- County development/growth rate - With the exception of the 2 GIS Specialists who are 100 % devoted to the remapping project, the 4 other Assessors Office Cartography staff must perform many other tasks including name changes, performing updates to the taxlots theme, creation of new taxmaps for areas that warrant breaking out maps, and other standard cartography activities. The

amount of time these 4 individuals can devote to the remapping project is dependent on the volume of development and property sales related activities that occurs within the County;

- Map Complexity – Until we actually begin to remap an area, we don't know specifically how accurate the manual maps are and how conflicting surveys were treated. We also don't know how much cogoing activity will be required versus the degree of digitizing that may be performed. If the remaining maps prove to be complex, we will not be able to sustain our production level.
- New Assessment & Taxation System – The Assessors Office is in the process of converting to a new information system. It is unclear what changes to business processes to maximize efficiencies may result from the conversion to the new information system;
- Commitment of funding for the project – There is no way to determine in advance the commitment of funds to this project over a 5 year period. There is no certainty regarding the availability of County funds or ORMAP funds; and
- Staff Turnover – There is no way to assure that current staff will remain with the County and whether trained staff can be retained to replace existing staff if any staff member unexpectedly decides to leave the County.

3. Remapping Procedures and Strategic Approach

What departments or agencies work together in remapping projects?

The departments with the primary responsibilities for the remapping project include the Assessors Office, the Surveyors Office, and Information Technology. In addition, the Community Development Department and the Road Department provide input regarding the prioritization of areas to be remapped.

3.1. Survey Coordinate Base Development:

3.1.1 What sources of control points does the county use?

The remapping project requires the tying of taxlots to map control points. The County has developed an extensive network of survey coordinates from which to map taxlots and continues to acquire additional survey coordinates in order to support the remapping project.

Areas that have previously been cogoed have relied on the high precision survey control for section and quarter corner coordinates. The coordinates are presently most dense within the urban portions of the County and work remains to be performed on collecting coordinates for other locations throughout the County.

The acquisition of new survey coordinates for areas undergoing remapping is being performed by the County Surveyors Office. The Surveyors Office continues to acquire coordinates in areas where additional control is needed.

3.1.2 In what portions of the county are the control points adequate to meet ORMAP goal 4?

Control points are adequate to meet Goal 4 requirements in all urban areas including Bend, Redmond, and Sisters. Control is also available in many unincorporated areas to meet requirements in resource land areas.

3.1.3 What number of control points are there currently and what number of control points still need to be developed?

As of January 2003, the County had a total of 599 high precision survey coordinates that are part of the Central Oregon grid. In addition, the County has collected 706 high precision survey coordinates that have a precision of 1 foot or less. Also within Deschutes County a total of 52,621 points are part of the BLM Geographic Coordinate Database (GCDB) and are available for use on the GIS project. Approximately 1,893 of the GCDB coordinates have a reported accuracy reliability of 1 foot or less, 362 additional coordinates have an accuracy of 3 feet or less, and 4,356 of the GCDB coordinates have a reported accuracy of 10 feet or less.

We presently estimate that we require a total of 145 additional section corner control points as well as additional quarter corner control points within these outstanding sections. The primary locations of the required survey coordinates are in the south

county HWY 97 corridor in the areas between Sunriver and La Pine. In addition, we require additional coordinates in areas between Bend and Sisters and at isolated locations throughout the County. We have a prioritization plan in place for coordinating the acquisition of the required coordinates and are attempting to acquire the control well in advance of the remapping activities.

3.1.4 Which county department(s) develop(s) control points?

The acquisition of new survey coordinates for areas undergoing remapping is being performed by the County Surveyors Office. The Surveyors Office continues to acquire coordinates in areas where additional control is needed. This work is being performed in consultation with the Assessors Office and other GIS staff.

3.1.5 What are the counties limitations regarding the development of control survey points?

The potential limitations are funding and the availability of County Surveyors to collect the required control.

3.2. Positional adjustments of taxlot boundaries

3.2.1 What department(s) are responsible for remapping activities within the county?

The Assessors Office Cartography Section is responsible for remapping activities at Deschutes County. County Cartography staff, a team of 4 Cartographers and 2 GIS Specialists, continue to actively perform remapping activities on an area by area basis. Areas are selected for remapping through a cooperative process that involves the Assessors Office, Surveyors Office, Information Technology Department, and Community Development Department. Areas are selected for remapping dependent on a number of factors including the availability of survey coordinates, the level of development activity occurring in the area, and/or the need to support other on-going County projects. If possible, remapping occurs for an entire township at one time.

3.2.2 What internal positions are this team made up of and will work be outsourced?

Work is being performed in-house by a combination of existing County staff and new employees retained to work exclusively on the taxlot remapping project. The primary development and refinement of linework is being performed by 3 Assessors Office GIS Analysts/Cartographers. The primary production of digital taxmaps including the development of map annotation, supporting themes, and the actual publishing of digital taxmaps is being performed by 2 Assessors Office GIS Specialists. Taxmap project supervision and quality control is being performed by the Assessors Office Chief Cartographer. Acquisition of survey control is being coordinated by a GIS Analyst in the Surveyors Office. Collection of control is being performed by a former County surveyor under contract to the County. Arc Info programming support is being performed by a GIS Programmer Analyst in the Information Technology Department. ODR ORMAP coordination, contracting, and proposal preparation is being performed by the GIS/Web Manager in Information Technology.

3.2.3 What methods are used in positional adjustments?

The specific methodology being deployed during the remapping of taxlots varies dependent on the accuracy of the existing base in relation to the new improved survey coordinates, the number of plats in the area, the presence of rivers or other water features, the density of taxlots, and other factors. For many areas development of new linework is required and COGO routines are used to generate the new taxlot boundaries. In other cases new linework is digitized. Rarely can the previously developed linework be warped, adjusted, or moved to the improved survey coordinates. In all cases, work is performed to meet or exceed ODR and ORMAP mapping accuracy standards.

3.2.4 What software is utilized in this process?

The Assessors Office utilizes its custom developed Arc Info menus and routines to COGO areas and to reposition taxlot linework. Work is performed in the primary Arc Info section based parcel library on a real time basis. Prior to performance of the remapping work, a copy of the primary parcel library sections to be remapped is transferred to a secondary library. This process allows for the continued generation of a useable countywide taxlots shapefile as a combination of the primary and secondary libraries are used to generate the countywide taxlots shapefile.

3.2.5 What other data sets does this process rely on?

The primary data sets relied upon are the survey coordinates, section line coverage, digital orthophotos, and images of recorded plats

3.2.6 For counties improving the positional accuracy of taxlots, what other processes are affected by the adjustment of taxlot boundaries?

After an area's taxlots are remapped and tied to control, other GIS coverages that have been built upon the taxlots coverage need to be modified. Examples of coverages needing to be adjusted are roads, zoning and comprehensive plan designations, overlay

zones, school and other boundary files, etc. These coverages are adjusted by other County Department's GIS staff who have maintenance responsibilities for the coverages. The County also provides e-mail notifications to subscribers of GIS data sets that informs them of areas that are being repositioned so that they can also perform required positional adjustments to any GIS data that they may have developed based on the original County taxlots theme.

3.3. Creation of Digital Taxmaps

3.3.1 What quality control procedures does the county have in place?

The County has a process in place for the creation of digital taxmaps where work that is performed by one individual is reviewed by a second individual. In addition, the Chief Cartographer is responsible for the overall accuracy of work.

3.3.2 How many maps does the county produce on an annual basis?

On an annual basis the County produces between 125 and 150 digital taxmaps. This estimate is presented as a goal but there are a large number of factors that can impact the actual rate of map production. Two GIS Specialists are 100 percent dedicated to the remapping project. The availability of other staff members working on the remapping project varies depending on other Assessors Office work activities as well as the number of new plats recorded, the number of segregations, etc. In addition, some areas can be rapidly remapped while others require extensive analysis and land conflict resolution. We will soon be working in areas around La Pine that have numerous existing mapping problems that will require resolution and which may take substantially more time to remap.

3.3.3 What department conducts the digital taxmap creation?

The Assessors Office is also actively working on converting manual taxmaps to GIS generated taxmaps. The focus of the effort is on areas that have recently received positional adjustments to the taxlots coverage. In particular, the work processes in the Assessors Office have 3 individuals focusing on performing the development of the improved taxlot linework and 2 GIS Specialists focusing on remapping the taxmaps. The GIS Specialists are responsible for developing required annotation and other supporting GIS coverages such as miscellaneous/phantom lines, map section lines, subdivision corners, property line direction changes, occasional easements, etc. This work is also performed using menu driven customized Arc Info procedures.

3.3.4 What happens to the manual taxmap once a digital one is created?

Once a map has been completed (published), the manual taxmap it replaced is retired and is no longer updated. A tiff image of the digitally produced taxmap is also automatically generated as part of the publishing process. The digitally produced taxmaps are developed to Oregon Department of Revenue standards and meet ORMAP Goal 1 and Goal 4 requirements.

3.3.5 How does the county store and archive taxlot maps?

Procedures have been developed to automatically save copies of old taxmaps that have been supplanted by new taxmaps. The old taxmaps, available as Tiff images, are date stamped and archived and may be digitally viewed by County staff if questions arise regarding the previous taxlot pattern. This application assists in resolving time consuming research on prior taxlot records.

3.4. Other Taxlot Related Activities

3.4.1 What other activities are related to digital taxlots within the county?

In addition to the remapping activities, the County conducts several other activities related to digital taxlots. One critical activity is keeping the taxlots base current. The Assessors Office maintains the existing parcel base using Arc Info routines operating on the section based parcel library and keeps it as up to date as feasible. The Goal is to have new plats on line within 2 weeks of being recorded at the County. The Clerk's Office's new image based recording system is utilized to obtain records of recently recorded activities. The Cartography section also maintains the corresponding tax roll information (Name changes, land values, etc) and keeps the data as up to date as possible. This is also a priority so that links of the tax roll to the newly created parcels will provide a full GIS product.

Each week the Information Technology Department creates a new version of a countywide taxlots shapefile through an automated routine. The routine is also used to attach records downloaded from the County's Assessment & Taxation Information System to the taxlots shapefile. A number of additional taxlot based tables are also created that can be joined or linked to the taxlots shapefile. The taxlots shapefile is available for use by other GIS staff as well as by numerous other County employees who access the GIS data through web-based applications. In addition, the shapefile and taxlot tables are placed on a County GIS FTP site for use by area public agencies and by private data subscribers.

The County also maintains taxmaps as Tiff and PDF images. Routines are in place to keep the digital images up to date so as to assure that they reflect the most current division of lands. A recently develop application is also available on the County's Internet web site that allows the public and businesses to download digital copies of the taxmaps. The taxmap images are available at no cost.

The County also maintains an interactive web-based GIS Application called LAVA, Local Area Virtual Atlas. LAVA allows searches for properties by address and taxlots and is capable of accurately portraying taxlots. A more extensive version of LAVA is also available for use by County employees, employees of other area public agencies and cities, and by individuals subscribing to the enhanced application.

3.4.2 What organizations use these Taxlot maps?

The County conducts extensive data sharing as well is active in sales and distribution of our data. The files are available at no cost to federal, state and local public agencies.

In addition, files are made available at low cost to businesses.

3.4.3 Are taxlot related GIS data sets maintained by other county departments?

Other data sets are maintained by several other County departments who are very active in the use of GIS software.

3.4.4 How is it distributed?

Data is available through a password protected GIS FTP site or is made available on CD-ROMs.

3.5 Coordination with other Counties

3.5.1 What region does the county participate in?

Deschutes County is a member of the Central Oregon Region.

3.5.2 What neighboring counties do you actively meet with to plan taxlot conversion projects with?

The Central Oregon region includes Deschutes, Crook and Jefferson counties. We do not meet specifically to discuss taxlot conversion projects. Each county has its own strategy in place.

3.5.3 Is there a regional strategic plan?

There is no formal plan. However, the primary regional strategy for edge mapping taxlots at the County boundaries involves relying on GCBD coordinates for positionally adjusting taxlots at the County boundaries. GCDB coordinates appear to be adequate since taxlots at County boundaries, with few exceptions, tend to be large resource properties. Initial testing indicates that the strategy is working adequately. Further testing and analysis will be conducted as each of the counties makes additional progress on their taxlot mapping projects. In addition, digital orthophotos are shared among the counties.

Deschutes County also has common borders with several other counties including Lake, Klamath, Harney, Lane, and Linn counties. GCDB coordinates will also likely to be utilized at the borders of these counties and few problems are anticipated since taxlots at the borders of these counties are also very large properties that are rural resource and/or large tract federal lands. We already share data with several of these counties and to date have not encountered any major edge matching problems.

3.5.4 How often are you a part of regional projects or meetings?

Except for one initial ORMAPP meeting, there have not been any regional meetings to specifically discuss ORMAPP projects. However, there is a 3 county Central Oregon GIS Coordinating Committee that meets one or two times a year. Participants at the meeting include county, city, state, federal, and utility representatives.

4. Project Schedule and Progress Tracking:

4.1 What steps does the county expect to take to see a completion of goal 4 accuracy for digital taxlots?

The major steps involve:

- The acquisition of additional required survey coordinate control;
- The development of improved taxlot linework through a combination of COGO, digitizing, or linework positional adjustments;
- The development of other supporting layers required on taxmaps;
- The development of taxlot annotation;
- The publication of taxmaps as hard copy printed maps and Tiff images;
- The continuous maintenance of the taxlots coverage; and
- The migration of GIS processes to the new ESRI Arc GIS object oriented data model and the Spatial Database Engine.

4.2 What are the counties estimated production rate given current and estimated funding?

We presently estimate a production rate of 3 maps per week over a 50-week year representing the production of 150 maps per year. If this production rate is sustained over the life of the project, it will take 5 years to convert the 753 existing manual maps into digitally generated maps.

It is important to emphasize that this timeline is only an estimate and that a number of factors can influence the actual rate of map production. Some of the factors that can impact the production rate as previously described include the rate of growth for the county, the degree of difficulty for the outstanding manual taxmaps, the efficiencies/inefficiencies of our new Assessment and Taxation Information System, possible staff turnover, consistency of funding, as well as other unanticipated factors.

4.3 What project tracking methods are in place?

The remapping project's progress is tracked and reported to the County's GIS Management Committee as well as to the ODR ORMAP program. An application has been developed to monitor the progress of the remapping project and a spreadsheet is maintained that tracks the project's progress. The progress of the project is tracked on a quarterly basis in order to assure that we remain on track for the estimated project completion date. If we are off track, we will also analyze the reasons for being ahead of or behind schedule.

The application that is used to monitor the progress of the project is an Arc View application that tracks the conversion of manual maps to digital maps for all maps maintained by the Assessors Office. A coverage has been developed that shows the boundaries of each of the County's taxmaps. The coverage has a number of attributes that are maintained including an indication of whether the taxmap is a manually prepared taxmap or whether the taxmap has been converted to a GIS generated taxmap, the date the taxmap was published, the author of the map, the degree of complexity for the map, and other map attributes. The status of each of the taxmaps

can also be graphically displayed to provide a visual depiction of areas that still require remapping activities.

4.4 How do you set project schedules?

Project schedules are set by the Assessors Office following consultation with GIS staff from the Surveyors Office, Information Technology, and Community Development.

4.5 What are the challenges to the county schedule and progress tracking?

The largest challenge to the schedule is not knowing the extent of problems to be encountered in areas until the remapping work is being performed. For example, we don't know ahead of time how accurate the manual maps are and how conflicting surveys were treated. We don't know how much cogoing activity will be required versus the extent of digitizing that may be performed.

5. Staffing and Training

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

Assessors Office staff are presently trained on performing taxlot maintenance activities and training is not required within our present software environment. However, training will be required as we migrate to performing work with Arc GIS and SDE.

5.2 What are the composition and numbers of staff involved with the development and maintenance of digital tax lot maps?

The composition of staff involved with the development and maintenance of digital taxlot maps is 3 GIS Analysts/ Cartographers in the Assessors Office, 2 GIS Specialists in the Assessors Office, 1 Chief Cartographer in the Assessors Office, and 1 Senior Programmer/Applications Developer in Information Technology working on the weekly creation of countywide taxlots shapefile.

5.3 To what extent does the county rely on temporary and permanent staff?

The County relies on County staff for all taxlot work. In response to the ORMAP program, 2 new GIS Specialists were hired by the County. The employees were originally hired as temporary employees; one funded by the County and one funded partially through ORMAP funds. The two temporary GIS Specialists were trained by the County and became very proficient in the creation of digital taxmaps. After a year of employment as temporary employees the County made a decision to employ the GIS Specialists as regular employees. The decision to convert the employees to regular employees was made in light of the fact that the County has a formal policy (based on federal regulations) not to employ temporary employees for more than an 18 month period.

The County considers the two GIS Specialists as regular employees meaning they are eligible for County benefits. Their employment is tied to the remapping project. At the end of the remapping project their employment status will be reevaluated by the Assessors Office and the GIS Management Committee. Their continued employment will be dependent on the need for the positions.

6. Timeline

Step	Start Date	End Date	Project	Status	ORM AP Goal	Funding Source		
						ORMAP	Other	Total
1	2001	2002	Taxlot remapping and conversion of manual maps to digital maps – Regional Funds	Complete	4	24,000	107,000	131,000
2	2001	2002	Taxlot remapping and conversion of manual maps to digital maps – Discretionary Funds	Complete	4	11,000	See Above (1)	11,000
3	2002	2003	Taxlot remapping and conversion of manual maps to digital maps – Regional Funds	On Going	4	22,600	107,000	129,600
4	2002	2003	Taxlot remapping and conversion of manual maps to digital maps – Discretionary Funds	On Going	4	20,000	See Above (3)	20,000
5	2003	2004	Taxlot remapping and conversion of manual maps to digital maps – Regional Funds	Proposed	4	22,600	111,000	133,600
6	2003	2004	Taxlot remapping and conversion of manual maps to digital maps – Discretionary Funds	Proposed	4	20,000	See Above (5)	20,000
7	2004	2005	Taxlot remapping and conversion of manual maps to digital maps – Regional & Discretionary	Planned	4	45,000	99,000	144,000
8	2005	2006	Taxlot remapping and conversion of manual maps to digital maps – Regional & Discretionary	Planned	4	47,000	103,000	150,000
9	2006	2007	Taxlot remapping and conversion of manual maps to digital maps – Regional & Discretionary	Planned	4	49,000	107,000	156,000
10	2008	2009	Taxlot remapping and conversion of manual maps to digital maps – Regional & Discretionary	Planned	4	51,000	111,000	162,000
TOTAL to reach Goal 4						312,200	745,000	1,057,200

Note: The Other Funds category includes many expenses paid for through other County resources. (ORMAP funds are used to pay for 1 GIS Specialist for work performed exclusively on the remapping project.) Taxmap related project costs paid for

directly by the County include personnel costs for the second Assessors Office GIS Specialist who is fully devoted to the taxmaps remapping project, a portion of 3 GIS Analysts/Cartographers in the Assessors Office who work on linework development and taxlot file maintenance, a portion of an Applications Programmer in Information Technology who provides support for the Taxmaps Remapping Project, a portion of a contracted County Surveyor in the Surveyors Office who is collecting control, a portion of personnel costs for the Chief Cartographer who performs supervisory activities, schedules taxmaps work and performs quality control activities, and a portion of the GIS Manager who is coordinating ORMAP grants. The County also incurs project costs for purchasing computer workstations and servers, for GIS software, and for acquiring digital imagery for use in the remapping project.

7. Contact Information

ORMAP County Coordinator	Bob Haas
Coordinator's Title	GIS & Web Manager
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