

GEOGRAPHIC INFORMATION SYSTEM (GIS)
RESOURCE INVENTORIES: *THE MARYS RIVER PROJECT*

by

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Table of Contents

Section	pg.
Abstract	1
Introduction	1
Objective	4
Methodology	5
Discussion	1
Conclusion	21
Table 1: List of Acronyms	24
Maps (fig. 2 through fig. 7).....	25
Appendix 1	31
Appendix 2	35
References	57

Geographic Information System (GIS)

Resource Inventories:

The Marys River Project

ABSTRACT

The Greenbelt Land Trust (GLT) (a grass-roots conservation group in Oregon) is interested in a conservation plan for the Marys River Corridor. To facilitate this effort, a resource inventory was required and a Geographic Information System (GIS) data base used to compile the inventory (called the *Marys River Project* (MRP)). This data base is to be used for identification of properties for *conservation easements*, a non-regulatory method of habitat and resource conservation. The GLT's implementation of conservation easements represents a trend toward alternative means of landuse management at the local level. Also, the use of GIS as a tool in land use planning is becoming a more common practice. Increasingly, government and other natural resource management groups are looking to GIS as an important component of resource protection and management. The set up of the MRP and additional uses of GIS data bases are explored in this paper. The greatest overall concern with any GIS stems from cost and access to equipment and personnel. Each of the cases investigated had some affiliation with government or university equipment. Additionally, a great deal of planning and time is involved in defining the questions to be answered (which also define what types of data is to be used). This study looks at all these issues.

INTRODUCTION

Communities throughout the country are struggling to find methods that effectively control growth and preserve natural habitat. As population centers grow there is additional pressure to develop the rural landscape. Increasingly, the demand for housing, services, and the need for continuous economic growth has contributed to the development of prime agricultural and forest resource lands. Urban expansion can stress the riparian habitat with greater demand for water resources; and

development can lead to the removal of important riparian vegetation, wetlands and potential increases in sediment runoff and loading within the watershed (Gregory, et al, 1991 pg. 546). Studies have shown that the increased number of roads and buildings constructed within the urban growth boundary cause a considerable change in the shape and density of a drainage network. The natural drainage channels are "pruned" or removed in the development process, often replaced by ditches and underground channels (in the form of sanitary sewers). The net effect of urbanization is usually an increase in the total channels and, thus, an increase in drainage density and runoff (Marsh, 1991 pg. 136).

Growth within the boundary can increase the demand to extend development outside the city limits. Without legal constraints, development of open space at the expense of important riparian habitat can advance unchecked. Preservation of a watershed now can ensure a healthy habitat for the future.

In the past, communities have relied on the federal and state governments for protection of resources and habitat conservation. However, federal and state regulations may not be applicable, or too expensive to implement, at the local level and can be too broad to meet the needs of individual areas. To remedy this problem, grass-root groups called land trusts have begun to emerge (Meyers, 1992 pg. 8; Endicott, 1993 pg. 68). In Benton County, Oregon, a group called the Greenbelt Land Trust, Inc. (GLT) was formed in 1988. This non-profit corporation was established in response to the local community's desire to conserve and preserve open space around the cities of Philomath and Corvallis. The GLT is made up primarily of volunteers from within the community,

including professionals, university faculty, retirees, and anyone interested in preservation of open space in Benton County. The group has purchased properties on the open market, relying upon individual contributions and grants for funding. The first project was to add 40 acres to the west side of Bald Hill Park. This addition to Bald Hill was an important first step in the continuing goal of establishing an open space corridor around the city of Corvallis. The GLT has also been instrumental in identifying properties of concern for future preservation efforts.

In January of 1990 the GLT submitted an open space report to the Benton Government Committee. This report inventoried twenty-five open space sites within or close to the Corvallis and Philomath urban growth boundaries that have significant value as hills, vistas, rivers, streams, and recreation areas. In addition, the report followed the Oregon Statewide Planning goal recommendation for open space, scenic and historic areas and natural resources inventory (Goal 5,.. Abbott, et al, 1994. pg. 300), to determine, "whether [or not] a natural area is 'ecologically and scientifically significant' or [if] open space area is 'needed', or [if] scenic area is 'outstanding'....etc." (Greenbelt Land Trust 1990. pg. 1). In the open space report the GLT identified The Marys River Corridor as a possible site for conservation and adopted a Marys River Greenway Plan (MRGP). The plan includes unrestricted recreation water access to the river between Corvallis and Philomath and limits modification of the riparian habitat within a 100 foot corridor. To accomplish the MRGP, the GLT has expressed interest in utilizing alternative conservation methods for the corridor.

The use of *conservation easements* is a non-regulatory alternative to land conservation and watershed preservation (Endicott, 1993 pg. 181). A *conservation easement* placed upon a property deed is a relatively new strategy being explored by the GLT. The property owner grants a conservation easement to protect land from extended development while continuing to retain private ownership (Beleveau, 1994, pg. 519). The easement changes the zoning of the property that in turn gives the land owner a tax break and benefits the community by protecting green space (Haapoja, 1994). Granting the easement in perpetuity ensures that the property's resources are protected regardless of ownership.

Conservation plans such as the MRGP, require a wide range of geographic information to determine the suitability of sites for conservation. To this end, the GLT was interested in setting up a GIS data base. Information about ownership and zoning should be included and will be used as a foundation for a GIS data base. This paper documents the establishment of the *Marys River Project* (MRP) data base using a GIS, as well as how a GIS is used in other resource inventories.

OBJECTIVE

The MRP is a GIS data base of the Marys River floodplain from the confluence of the Willamette River to just past the community of Wren. This data base can be used to identify parcel ownership and zoning, to classify what type of land use activities occur on each parcel and to identify properties for possible conservation easements. Zoning identification is a critical parameter included in this data base; the zoning classification indicates current property landuse and any

additional landuse possibilities. This information helps the GLT narrow down which properties have the greatest potential for conservation easements.

The GIS can be expanded and updated as new information becomes available and be used to construct maps for public presentation. Completion of this project will enable the GLT to begin utilizing GIS technology. In addition, this paper will look at other GIS resource inventories and explore what methods and criteria have been used to establish a particular data base. This investigation will help pinpoint which factors are important in the production of a GIS resource inventory data base.

METHODOLOGY

The MRP was completed in three phases (see flow chart fig.1):

Phase I consisted of defining the project boundaries and acquiring raw data (various maps, literature, etc.). The GLT is interested in identifying which properties are influenced by the Marys River --in essence, the parcels that lie within the floodplain. The study area boundary extends from the confluence of the Willamette River up through the community of Wren and includes ownership and resource information within the 100 and 500 year floodplain.

Due to the limited time frame of this project (February 1995 to September 1995), the coverage layers were limited to ownership, zoning, landuse, and major roads (for reference purposes). Additional coverage layers can be added later (e.g. soils, topography, etc.). However, they are not necessary for the initial stage of the project. The most important

Marys River Project

PHASE I

- **define study area**
- **data gathering**

- USGS 7.5 min quads
- Benton County Assesor land ownership data
- FEMA floodplain maps
- Benton County Development Office, parcels maps
- US Natural Resource Conservation Service, aerial photographs

PHASE II

- **data compilation**

- Map preparation
- Base map construction
- Digitize paper maps
- Scale correction
- Coverage creation
- Attribute data added

PHASE III

- **production stage**

- Map production
- Poster presentation
- Report

information needed to set up a conservation easement is the land ownership and landuse layers.

The data collection phase included acquiring maps from Benton County assessor's office, Benton county development office, Federal Emergency Management Agency (FEMA), and US Geological Survey (USGS) 7.5 minute quad maps. In addition, aerial photograph interpretation was performed using the Federal Natural Resource Conservation Service (NRCS) (formerly the Soil Conservation Service) 1989 photographs, and parcel ownership and zoning information obtained from the Benton County Assessors office data base.

Phase II: compilation stage of the project. The paper map information was transformed into a digital data base using ARC/INFO GIS software and a digitizing tablet. Map preparation for all maps was done before digitizing could begin. A base map (using USGS 7.5 min. quads) was set up to include tic points (id marks) for every map to be digitized. Each coverage source map had to include at least four tic marks that correspond to tic marks on the base map. These id points were set up using the Oregon State Plane coordinate system. Geographic features were identified (e.g. cross streets), and the corresponding x , y coordinate (in feet) was calculated. Once all maps contained the four tic marks, these numerical values were entered into ARC/INFO (manually via keyboard entry) and the *base tic map* was established. A total of 29 tic marks were included in the *base tic map* file. Each additional map coverage was created from this base map.

The map coverages produced include the following:

- Base map tic file
- Ownership parcels
- Landuse
- Major roads, railroads, and power lines
- Marys River
- Extent of the 100 year and 500 year flood plains

All map sources were digitized into a graphic display and variations in scale were corrected so that information from different sources could be utilized together in the same format. Scale correction was accomplished by formatting each map source to the base tic file. This enabled the digitized information to be directly transformed to the correct state plane coordinate scale as it was being digitized. This task was completed in the cartography laboratory at the Oregon State University, Geosciences Department and equipment used included: a Calcomp 2000 digitizing tablet, a PC 486 computer, and a Calcomp plotter.

Each map source was made into a "coverage," with each coverage created in a series of steps. Sometimes more than one map was used to produce one coverage. These "pieces" were put together using the same base tic file and then manually cleaning the arcs and misalignments using the ARCEDIT module in ARC/INFO. This process introduced some

inaccuracies into the coverage, however, overall graphic representation was not adversely effected.

Any digitized coverage must be "cleaned" before additional information can be added. This process is accomplished using the CLEAN command in ARC/INFO. The "clean" function closes polygons, sets up polygon topology and prepares the coverage attribute table. After the coverage was cleaned and all polygon lines matched, the attribute information was added. For example, the *parcels* coverage contains unique identifiers (id numbers) for each parcel. These parcel "id's" can be used to link information that pertains to each parcel, such as ownership, acreage, etc. The ownership, zoning, acreage, etc. (see Appendix 2) information was compiled from assessor's data and put into an *Excel* spreadsheet. In this spreadsheet each parcel was identified with the same parcel id as in the ARC/INFO coverage. The *Excel* data base was then converted to a *dbase* file and imported into the ARC/INFO *parcels* coverage. This step linked the tabular attribute information with the graphic geographical representation of the study area.

All coverages were compiled from different source maps. The *base tic file* coverage was produced using USGS 7.5 min. quads of Wren and Corvallis. The Wren 7.5 min. quad map was produced in 1984. The Corvallis 7.5 min. quad was produced in 1969, and updated in 1982. Any roads or structural changes after 1982 are not accounted for with these map sources, however the roads digitized into the roads coverage were main highways used for reference purposes only. The *Marys River, Roads, Railroads, and Power lines* coverages were also produced using the USGS 7.5 min. quads. The *Parcels* coverage was produced using Benton County Assessor's tax lot maps and Benton County Development

office maps. The attribute information on lot area, ownership, and zoning was collected at the Benton County Assessors office from the tax and ownership database. This particular database gives current ownership, zoning and tax status of each property.

The NRSC, provided aerial photographs from 1989 that were used to produce the *Landuse* coverage. Land use was divided into five categories: 1. Forest land, 2. Agricultural land, 3. Urban or Residential, 4. Grass / shrub-scrub and 5. Park or Golf Course. These five categories were outlined on a mylar overlay of the air photos, and polygons were constructed corresponding to the land use category. This information was then digitized and attributed into the *Landuse* coverage. Flood plain information was compiled from FEMA federal insurance maps (effective date: Aug. 5, 1986). These maps were used to produce the *100 year and 500 year floodplain* coverage. The floodplain is determined by on geomorphology, elevation and characteristic storm event return flow. A statistical average is calculated for 25 year, 50 year, 100 year, etc. storm events. Thus, for example, a 100 year storm event has a 1 in 100 chance of occurring in any given year.

Once all the coverages were cleaned, updated, and attributed the final phase of the project could be completed.

Phase III: the production stage. Maps defining the study area and depicting coverage information were produced (see fig. 2 through fig. 7) using the Calcomp plotter in the cartographic lab. The parcel map identifies each parcel with a unique id number, so identification of a particular parcel and its associated ownership data can be correlated. The land use map identifies the five classification criteria within the

study site with a color code matching the landuse criteria with the corresponding sites within the study area. Reports include: 1. Zoning codes and the associated parcels (see appendix. 1), 2. Parcel ownership data (see appendix. 2), and maps depicting GIS coverages (see fig. 2 through fig. 7). The GIS data base allows easy access to landuse and ownership information. The GLT will be able to identify which parcels to target for conservation efforts and have data consolidated into one source.

Setting up GIS Data bases:

Historically, resource quantification and monitoring have been the responsibility of government agencies, such as the US Forest Service (USFS), Bureau of Land Management (BLM), and Natural Resource Conservation Service (NRCS). These agencies are in charge of resource use and allocation and rely on available information to keep track of the resources. However, local organizations are also concerned about protection of natural resources and groups, such as the GLT, are interested in the accessibility of resource data. The monitoring of resources involves a complicated aggregation of information from air photo interpretation, ground truthing, periodic monitoring, etc. Data consolidation can be hampered by lack of current information and the time and personnel involved in keeping the data up-to-date. Map production is time consuming and updating these maps in a timely manner is difficult if not impossible. The introduction of the geographic information system allows for a more efficient method of storing, updating, consolidating and utilizing data. Once data are entered into a system, it is easy to produce current maps with up-to-date information.

Ultimately, GIS helps these agencies more effectively manage natural resources and allows better public access to information. This at least is the theory; how effective a GIS is can be explored through case studies involving various groups who have set up resource inventories. The following are just a few of the cases where a GIS has been used in resource monitoring:

Other GIS database examples:

- **MAPS: Montana's land resource management system**

The Montana Agricultural Experiment Station at Montana State University developed a computer based GIS (fully operational since 1987), called the Montana Agricultural Potentials System (MAPS) (Neilsen, 1990). MAPS is a statewide operational GIS that can display combinations of close to 200 environmental attributes, including : climate, physiographic characteristics, land use, soil attributes, etc.. MAPS divides the state into 17,993 cells, each having dimensions of 3 minutes latitude by 3 minutes longitude, representing about 2.4 square miles. Much of the data base was obtained from existing maps that were digitized using a plotter grid system (Neilsen, 1990). Other attributes not included in the original maps were developed from algorithms applied to data already in the MAPS data base.

Users of this database are able to obtain integrated climate, land use, soils, and physiographic data maps that aid in management decisions and strategies. One such example is the use of MAPS to identify potential non-point source pollution of ground water through percolation. Attributes were selected to predict percolation potential on annual cropland. The percolation potential is related to soil water

holding capacity and the difference between precipitation and potential evaporation. Climate regime and/or cycle along with soil type, landuse, and agricultural practice attributes are combined and overlaid, thus allowing problem areas to be identified (Neilsen, 1990).

- **LESA and GIS: A statewide system for Hawaii**

Land Evaluation and Site Assessment (LESA), is a system used to numerically score land parcels to determine their suitability for agricultural use. The system was developed by the federal Soil Conservation Service to evaluate the impact of federal projects on agricultural land conversion. This was then carried over to state and local governments to assist in farmland protection. The first statewide LESA system was developed in Hawaii to zone agricultural land. Zoning requirements needed an area wide system that could simultaneously rate the suitability of all land in the state. This requirement seemed well suited for a computer data-management system, so a GIS was used to implement the Hawaii LESA model (Ferguson, 1991).

Creation of the statewide LESA in Hawaii involved an existing GIS at the University of Hawaii, the Hawaii Natural Resource Information System (HNRIS). The HNRIS was originally developed as an information system for water resources, but was later expanded into a complete GIS (including landuse, soils, vegetation). This system performs both logical and relational operations (e.g., overlays), and mathematical model functions for spatial analysis.

This GIS technology was implemented because of the many anticipated advantages over manual mapping. Cost-effectiveness was the greatest concern, and the availability of the HNRIS eliminated much

of the initial set-up costs for GIS hardware, software, and staff training. Greater analytical capabilities were another asset. A GIS based LESA can accommodate revised ratings more easily and produce new maps more quickly.

However, there were a few problems that had to be worked out before the system could be used successfully. Development of mappable site assessment factors provided a challenge. Some factor criteria did not readily lend themselves to mapping. For example, the compatible use criterion (in site assessment rating) never defined "compatible". This lack of clarification needed to be worked out before the GIS was set up. Early identification of such problems enabled the GIS team to iron out difficulties before they became major road blocks. Ultimately, the Hawaii LESA - GIS has become a prototype for the other states and regions (Ferguson, 1991).

- **Ohio's GIS - based wetlands inventory**

In an agreement between the Ohio Division of Wildlife (DOW) and NRCS with cooperation from Ohio State University Center for Mapping, a wetlands inventory GIS was created. Landsat Thematic Mapper (TM) data were the principal data source for the inventory (Yi, 1994).

The data base was created using ERDAS (GIS software program). The TM data were converted and stored on computer disk, then TM bands 3, 4, and, 5 were used for classification because of their sensitivity to moisture and vegetation differences. Several forms of auxiliary data were used along with the TM imagery. Digitized soil maps and land use maps were included as coverages that could be overlaid to help with more accurate classification. USGS files of transportation and stream

networks in raster format were also included. These raster files had to be converted to vector format before final map production could occur.

The Ohio wetland inventory (OWI) data set can provide a quick and efficient assessment of wetland distribution and abundance. Updating the data base will be easier now that the GIS is in place. The OWI is accessible to local and state government and can aid in resource policy development, landuse planning, etc. Applications to fish and wildlife research also exist (Yi, 1994).

Limitations to the data base should not be overlooked. As with any system, resolution is only as good as the original data; each transformation of data introduces additional error. The original TM imagery was obtained at a cell resolution size of 30 by 30 meters, so interpretation at a larger scale is not advisable.

The Wetland Inventory is the first statewide GIS data base in Ohio and one of the few wetland GIS data bases in the United States. Although initial set up costs were high the long term cost benefits are great.

DISCUSSION

The cases mentioned above (including the MRP) represent only a small fraction of the uses of GIS in resource inventory and management. GIS is used to monitor such things as, aquatic resources, pinpoint non-point source pollution, and enhance endangered species conservation. The US fish and wildlife department is using GAP analysis to pursue species conservation and habitat protection. Overlaying maps with habitat description, land use and ownership, and species populations is an effective way to determine areas where species protection is not

adequate (Akçakaya, 1994). Groups, such as The Nature Conservancy, have been able to access this information and implement habitat protection for threatened or endangered species.

Although a GIS can be used in most any case where traditional mapping has been used, due to the newness of technology, information in digital format may not yet be available and is quite costly to develop. Integration of the many available digital data bases is another positive aspect of a GIS system. Yet knowing where to access the information and how to convert the data to the desired use can be a daunting task. When compiling the data sources for the MRP it became apparent that accessing digital data for the study area would be difficult. The State of Oregon's Service Center for GIS functions as a clearing house of sorts, but many of the data bases are at a larger regional scale and access to information at the resolution needed for this project was not an option. In addition, Benton County did not have digital tax lot information. At one time the tax lots were digitized using AUTOCAD, however, that information was not available for use on the MRP. The location of the digital data was unknown by personal at the Benton County Development office. This is another pitfall that can be encountered when trying to access data from small municipalities that do not have a fully operating GIS program.

Producing any GIS data base requires: computer hardware, software, a data entry method, and knowledgeable personnel. To be effective, any project must consider these factors; and in the case of the MRP, time was the most limiting factor. The initial time and financial investment can be very expensive, however the long term cost benefits are numerous. Eventually monetary cost of a GIS system will come

down, and groups such as the GLT will be able to purchase equipment and software at a more affordable rate. The GLT was able to bypass the large, initial computer expense to establish the MRP by using Oregon State University's access to expensive computer equipment and student personnel.

The limitations of any GIS data base stem from the method of production and the accuracy of the map sources used. Each time a coverage is digitized error is introduced in the process. As each coverage is added to the data base error is magnified. This inherent error is important to remember when using any GIS system. The information represented is only as good as the weakest link in the system and therefore should be regarded with care. However, using a GIS data base can be very useful to resource managers and the applications are numerous.

Data quality is a significant requirement in any GIS data conversion project, and it can have an impact on the data conversion method selected (Montgomery, 1993). Ultimately, the quality of the data base contributes to the confidence the users of the GIS have in its data. There are three main categories that must be defined to verify data quality:

1. The graphic features (their representation and position),
2. The attributes, and
3. The data base intelligence (accuracy and timeliness of data).

Once data quality is assured the operation of data conversion can proceed.

Inputting data into the GIS can be done by a variety of methods. Map digitizing, currently the most common method of data input, (Montgomery, 1993) was the method used in the MRP . The process usually involves three steps: data preparation, map registration, and

data entry. The advantages and disadvantages are mostly financial in nature. Although all data input methods can introduce inaccuracy, digitizing includes a higher degree of human error (operator error is inherent, even with the best of technicians). In addition, accuracy is limited to the original source document; paper maps change in shape over time.

Keyboard entry is used for alphanumeric information. The base map tics (x , y coordinates) of the MRP were entered with this method. Attribute information along with text and mathematical formula data is also entered with a keyboard. Code lists are used to minimize data entry. A code or abbreviation is entered during conversion and full attribute is displayed later.

Photogrammetry is divided into two areas, interpretive and metric. Interpretive photogrammetry includes photo interpretation and remote sensing and involves identifying objects and determining their significance. The *landuse* coverage in the MRP was produced using this method. Metric photogrammetry involves discerning precise measurements from photographs and remotely sensed images. Aerial metric photogrammetry is used for preparation of topographic maps. Photogrammetry is used in GIS because of the high degree of accuracy it provides. It can be costly however, and for a small project like the MRP, the cost of this type of data interpretation is not economically feasible or necessary.

Scanning is the process of converting paper maps and documents into digital raster, or cell based format. Scanners come in a variety of types and styles and are becoming commonplace in data conversion for GIS. The scanning of irreplaceable documents allows the safe handling

of raster images instead of documents. Scanned aerial photographs can be warped to ground control or orthorectified to produce digital orthophotos. Digital orthophotos can be used as an actual source of GIS data, as can raster satellite imagery (Montgomery, 1993). In the MRP scanning was attempted for a soils map coverage. Unfortunately the memory required to accommodate the aerial photo used for the soil maps was so large that it was unfeasible to produce the coverage in this manner. Whenever the scanning method is used the file size must be considered. Photographic images contain many pixels and require a very large memory, so scanning may not be an option if memory space is limited. Therefore, the MRP did not include a soils coverage due to time constraints and conversion problems.

Automated data conversion consists of creating vector graphics and associated data base attributes from raster data. The automated conversion system requires specialized hardware and software, and usually includes scanners, image handling, and pattern recognition processing.

The basic automated conversion:

- scan source maps and create raster files
- recognize line, symbols, and characters automatically
- construct vector elements and text
- form related objects
- insert new data into intelligent data base

Auto-conversion is a new technology that has not yet replaced manual conversion as the preferred method. Most conversion

contractors use an integrated system interactive (operator-assisted) vectorization (Michener, 1994 pg. 203). The MRP did not require this type of advanced data conversion. The data was digitized directly into a vector format and the only conversion required was a scale manipulation. If data comes from satellite imagery or from an ERDAS format --both of which are in raster format-- there needs to be a conversion to vector formats. The MRP involved a relatively small data base and did not require advanced imagery. However, in the future it would be feasible to add such data to this data base.

Using the Marys River Project database

The MRP provides the GLT with a useful database containing parcel ownership, zoning information, land cover classification, and graphic representation of the study site. The GLT can use this information to set up a classification system targeting potential properties for conservation (e.g. identify variables to determine site suitability). For example, parcels that are zoned agricultural and boarder the river bank are of concern due to agricultural influence of the waterway. The database lists which properties have a farm use zoning and a floodplain overlay zoning (see appendix 1). In addition, the landuse map (fig. 7) graphically depicts what areas are used for agriculture, are forested, etc. The parcel database (appendix 2) lists zoning classification, parcel size, and land owner addresses. Once the targeted parcels are identified the owner can be contacted to discuss the possibility of adding a conservation easement to the property.

Additional properties of concern may include those that still have an intact riparian area along the river and thus help limit adverse impacts

on water quality and sediment loading from adjacent urban and agricultural landuse. These properties are identified using the landuse coverage (fig. 7) overlaid (in ARC/INFO) with the parcels coverage (fig. 6) the parcels within this target area are then identified. Or a database can be queried to identify all zoning types and list the parcel numbers within each zone type (as in appendix 1).

The most important function of the MRP is informational. The GLT can define and/or redefine criteria necessary to identify potential properties and scan the data base to list those parcels.

CONCLUSION

Any GIS data base requires a great deal of preliminary work before actual data base production. Foremost, the boundaries and extent of a study should be defined with time and monetary expenditure considered. In many of the preceding case studies, there was some access to either an established government or university GIS data base and/or computer hardware system. This can be an important keystone to any new GIS endeavor, especially for local resource conservation groups. As with the MRP, the GLT had a product assembled at a very economical rate and it provided a student internship in the process.

There is a vast assortment of data available for any resource inventory. Deciding what sources to use in an overall plan should include a vision of how the information will be used. Many times the initial project needs only a few coverages or items in the inventory. If a preliminary survey is done before the setup of the GIS, a great deal of time can be saved on data conversion and manipulation. The MRP was put together from scratch with all coverages digitized from paper sources.

Initially, a lot of time was spent locating map sources and exploring the availability of any digital information of the study area. A more extensive preliminary survey before the start of the project would have reduced significantly some of the time spent on searching for data. An effective resource inventory project should follow these steps in the preliminary survey:

1. Define purpose of inventory (The most important step!)
2. Set the study area boundaries (with time frame in mind).
3. Utilize other GIS systems if available (e.g. University, local government, federal data bases, etc.)
4. Choose a data conversion method, depending on system and data type used (raster format with ERDAS and vector format with ARC/INFO; scanning or digitizing, etc.)
5. Define mappable attributes and classifications. (Items must be easily mapped and attributed to clarify overlay analysis)
6. Start with basic coverage layers. (base map, reference points, minimum resource requirements, etc.)
7. Use most up-to-date data sources
8. Document all data sources.

If these steps are followed in the preliminary survey of the project, time will be well spent and a useful resource inventory can be produced. After reviewing all the case studies discussed in this paper, producing a GIS resource inventory is like any other management project. An organized initial effort and clear definition of the purpose will save time and money in the long run. Once the initial GIS established, updating and expanding is relatively easy. Gathering data can be intimidating,

but as more groups incorporate a GIS into management programs information will be easier to obtain.

The use of GIS in resource management will continue to grow. As interest in using a GIS at the local level increases, the benefit to the community's resource management effort will be extraordinary.

However, the limits of any GIS should be considered: the data are only as good as the source, and error is inherent in the system. As access to information grows, (in the marketplace) and costs of systems decrease, we will see an expansion in use among the private sector. Hopefully, more standardization will occur at the federal and state levels, and duplication of work will be minimized. Until then, the university setting will continue to be a great source of information and personnel. Groups like the GLT should continue to draw upon this valuable resource, as it allows students to apply classroom knowledge to produce a meaningful project for the community.

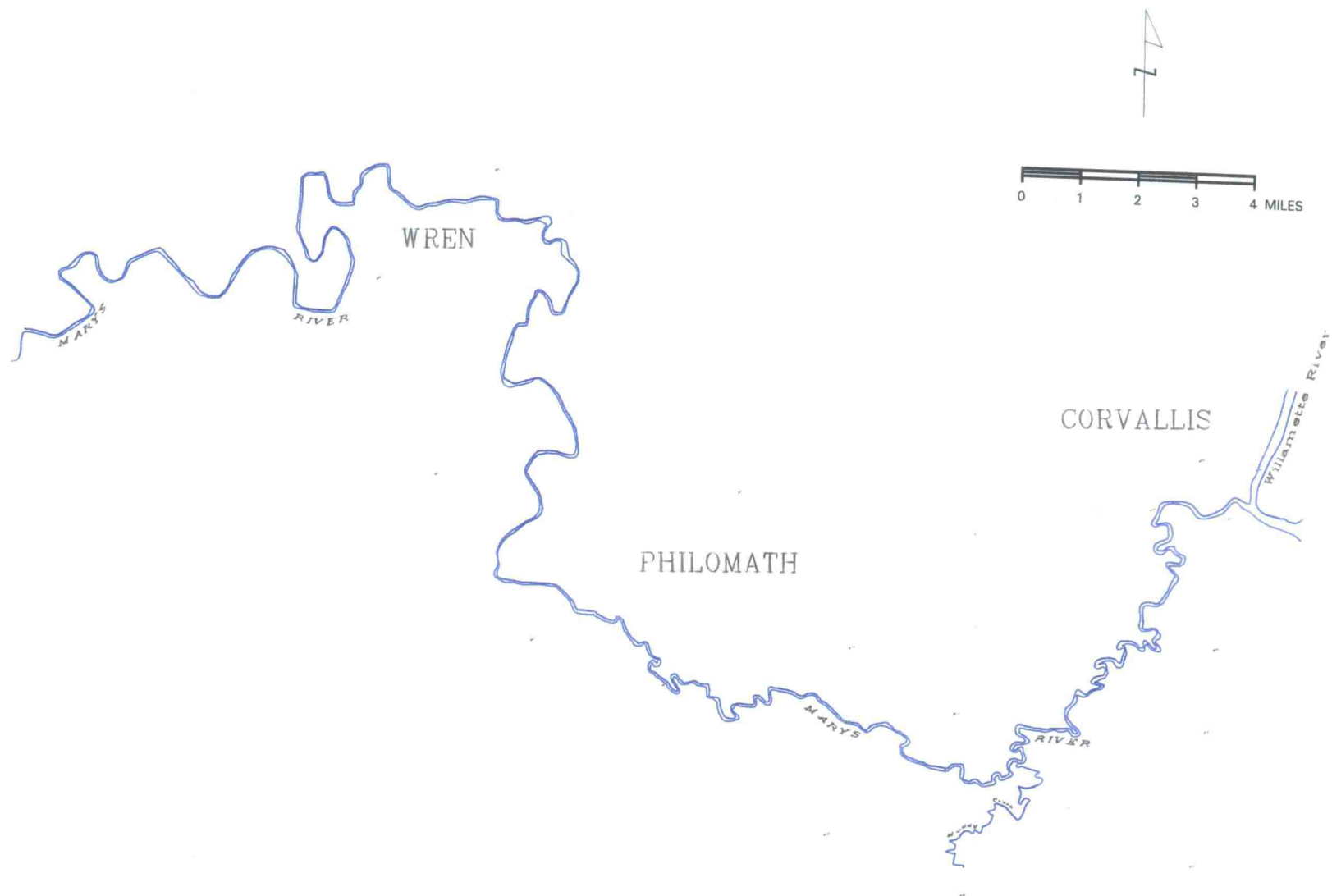
List of Acronyms and abbreviations

DOW	(Ohio) Division of Wildlife
FEMA	Federal Emergency Management Agency
GIS	Geographic Information Systems
GLT	Greenbelt Land Trust
HNRIS	Hawaii Natural Resource Information System
LESA	Land Evaluation and Site Assessment
MAPS	Montana Agricultural Potentials System
MRGP	Marys River Greenway Plan
MRP	Marys River Project
NRCS	Natural Resource Conservation Services (formerly the Soil Conservation Service)
OWI	Ohio Wetland Inventory
TM	Thematic Mapper (satellite imagery system)
USGS	United States Geological Survey

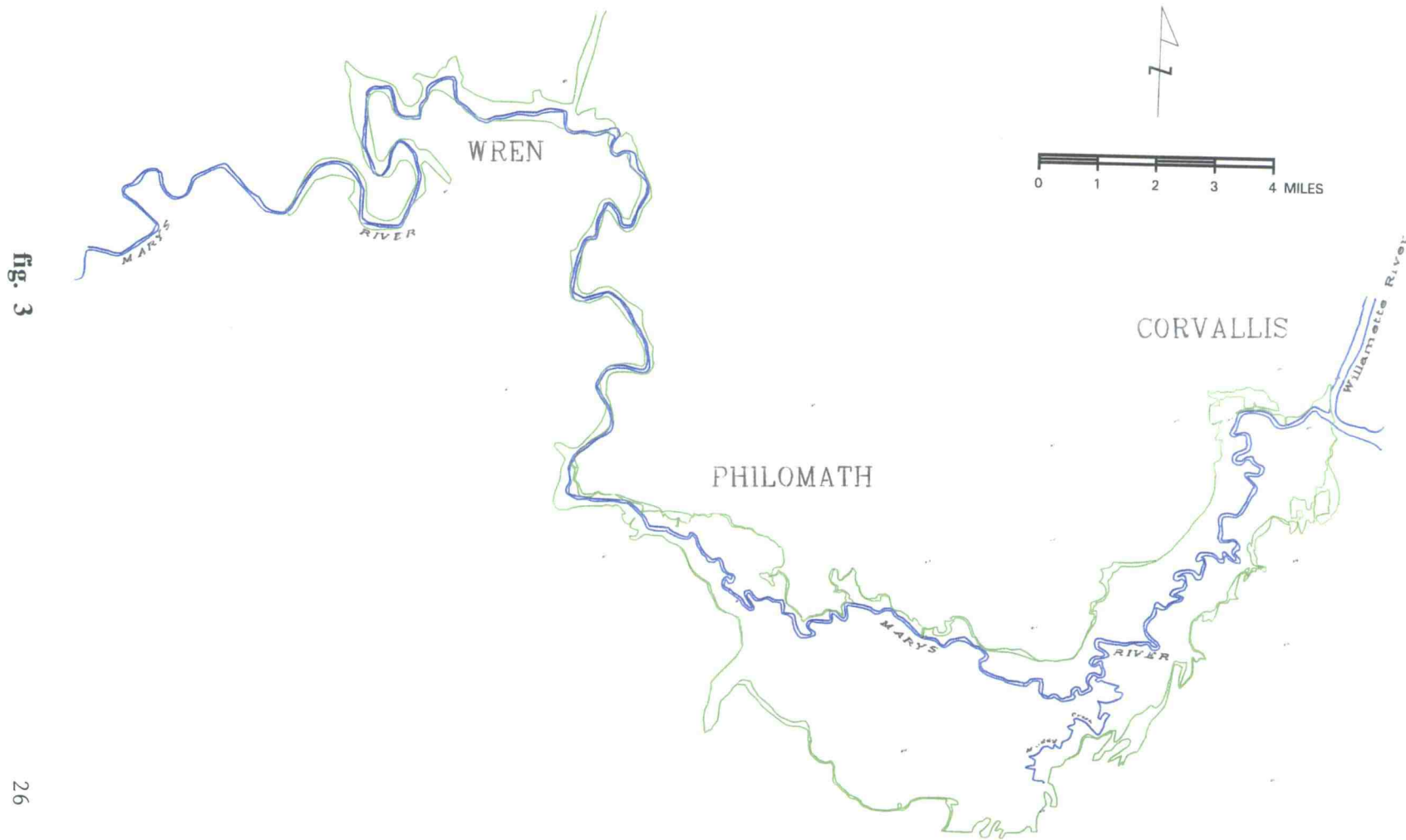
Table 1. Acronyms

Map 1: Marys River Coverage

fig. 2



Map 2: Marys River with the 100 and 500 year floodplain coverage. The 500 year area is represented by the second green boundary, with the first green boundary depicting the 100 year floodplain. Due to map scale and elevation change, the two floodplains appear as the same boundary in areas northeast of Philomath and some near the Willamette River.



Map 3: Marys River with the *Major Roads, Railroads, and Powerlines* coverages.

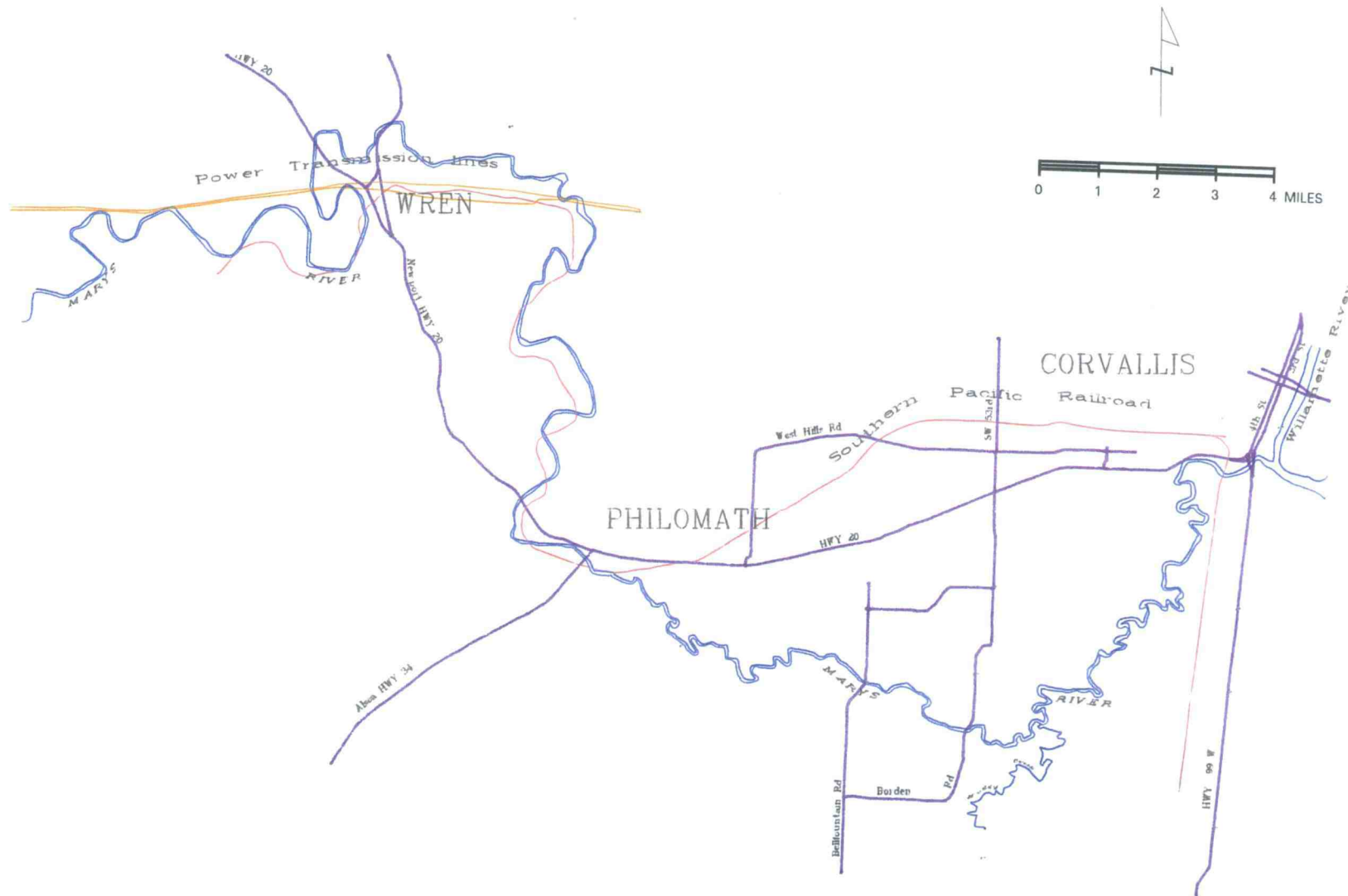
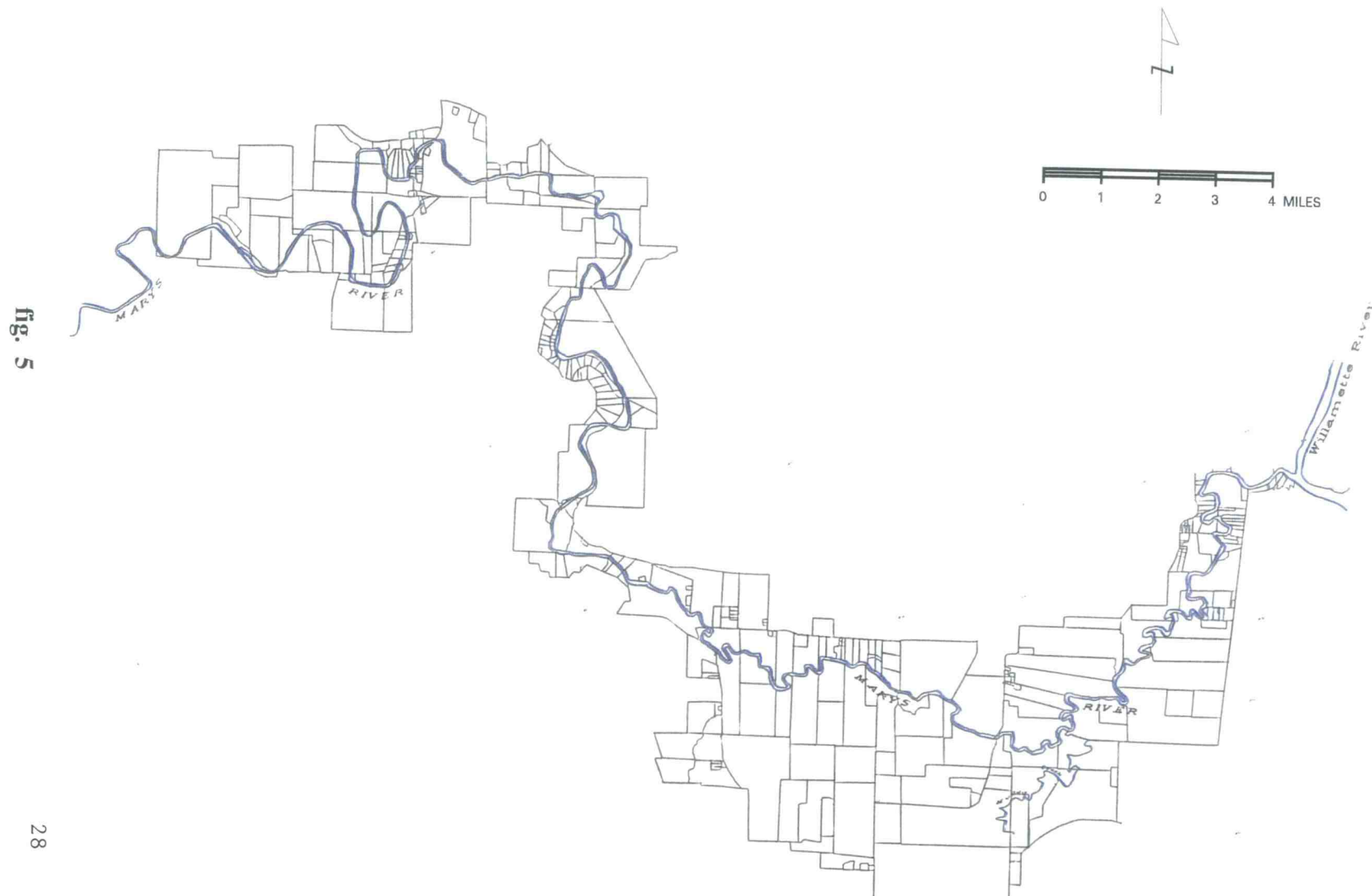


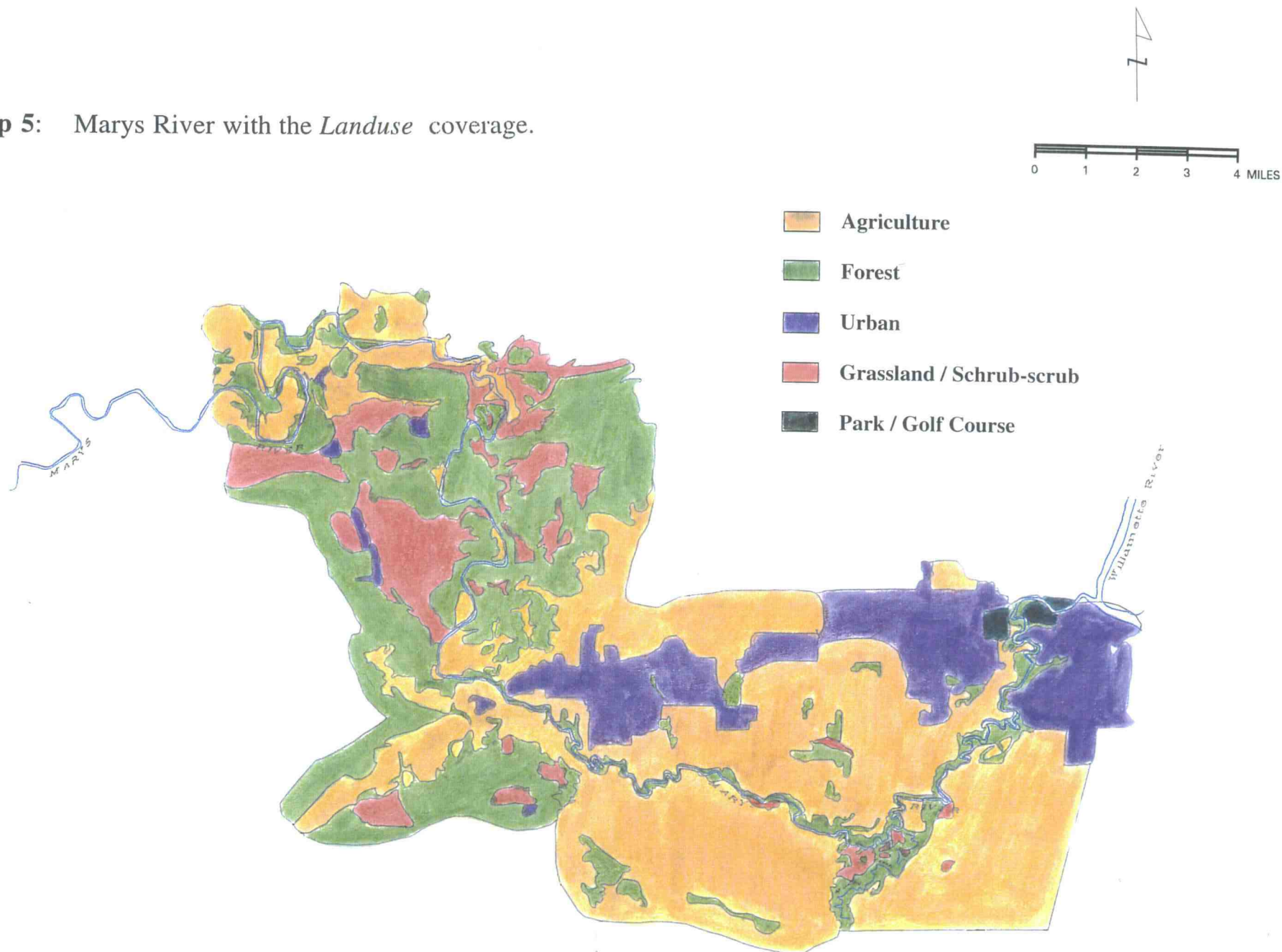
fig. 4

Map 4: Marys River with the *Parcels* coverage.

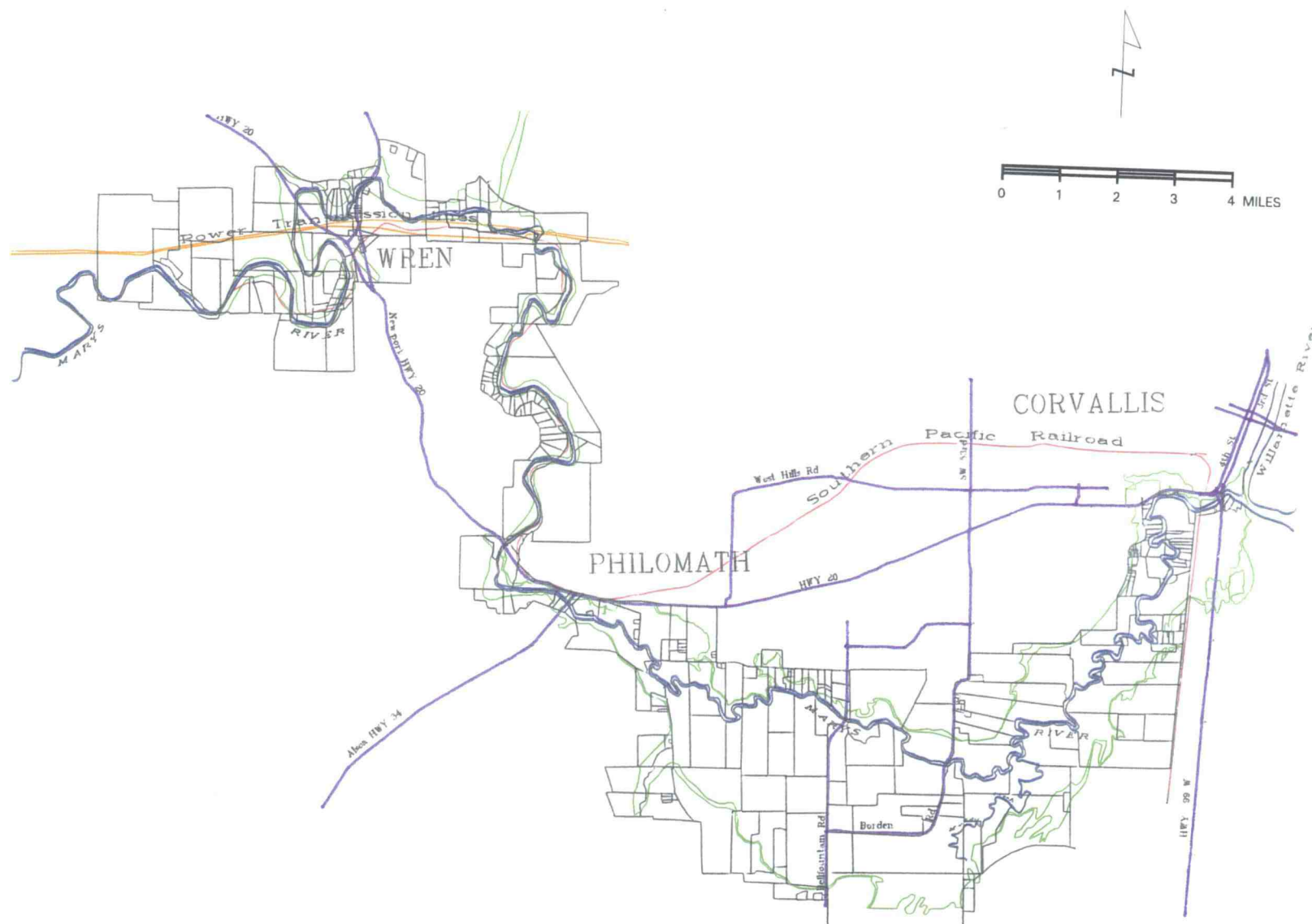


Map 5: Marys River with the *Landuse* coverage.

fig. 6



Map 6: Map display of *Parcels, Marys River, Floodplain, and Major Roads, Railroads, and powerlines coverages.*



Zoning Classifications:

1. Residential zoning includes both urban and rural areas.

A. Residential: Includes rural residential properties with the following zoning: (RS12, RS3.5, RS20, RR5)

PARCELS: 1, 3, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 25, 26, 129, 130, 132, 133, 135, 136, 143, 144, 145, 146, 147, 148, 175, 234, 235, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 259, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 311

B. Residential (Floodplain): Includes rural residential properties with the following zoning: (RR5-RR5/FP, RR2/FP, RR10/MH/FP - RR10/MH, RR10/MHD-RR10/MHD/FP)

PARCELS: 49, 131, 134, 136, 137, 149, 150, 153, 200, 201, 202, 214, 215, 223

C. Urban Residential: Includes urban residential properties with the following zoning:

(UR5/MHA), PARCELS: 70, 109

D. Urban Residential with floodplain overlay: Includes urban residential properties with some or all of property within the floodplain.

(URS/MHA, UR5/FP/MHA), PARCELS: 20, 21, 22, 23, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 84, 151, 406

(UR5/MHA, FPA/FP), PARCEL: 19

(UR5/FP/MHA), PARCELS: 190, 192, 196, 197, 206

(UR5/FP/MHA/DA), PARCELS: 191, 193, 194, 195

E. Urban residential and agricultural zoning overlays.

(UR5/MHA,URA/FP/MHA), PARCELS: 54, 58, 59, 60, 61, 62, 63, 64, 65, 66, 204

(FPA, FPA/FP, UR5/MHA), PARCELS: 51, 52, 53, 55

2. *Agricultural zoning includes exclusive farm use (EFU), flood plain agriculture (FPA) and multipurpose agriculture (MPA).*

A. Exclusive farm use zoning.

(EFU), PARCELS: 79, 80, 81, 82, 85, 104, 105, 111, 124, 154, 155, 156, 167, 170, 171, 172, 173, 178, 184, 185, 294, 295, 297, 300, 301, 302, 303, 305, 306, 309, 314, 320, 321, 322, 328, 336, 337, 338, 339, 342, 343, 356, 359, 361, 364, 66, 379, 384, 393, 394, 395, 399, 400, 403, 408, 414, 415, 417, 418, 419

(EFU, EFU/A , (with airport overlay)), PARCELS: 90, 91, 107, 108, 114, 115

B. Exclusive farm use zoning with flood plain overlay.

(EFU/FP), PARCEL: 199

(EFU, EFU/FP), PARCELS: 86, 92, 93, 94, 95, 96, 101, 106, 110, 112, 116, 117, 118, 119, 120, 121, 122, 123, 125, 126, 127, 128, 137, 138, 139, 140, 141, 142, 150, 152, 157, 162, 163, 165, 166, 169, 174, 176, 177, 179, 181, 182, 183, 296, 298, 299, 304, 308, 310, 323, 326, 329, 330, 331, 333, 334, 335, 340, 341, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 358, 360, 362, 363, 365, 373, 374, 375, 376, 377, 378, 380, 381, 383, 385, 386, 387, 388, 389, 391, 396, 397, 398, 401, 402, 404, 405, 407, 418

(FPA/FP, EFU/FP), PARCEL: 67

C. Exclusive farm use, flood plain and airport overlays.

(EFU, EFU/A, EFU/A/FP), PARCEL: 97, 99, 100, 102, 103, 113

(EFU/FP, EFU/A/FP), PARCELS: 83, 87

(EFU/FP, EFU/A), PARCEL: 89

(EFU/A/FP), PARCEL: 98

D. Flood plain agriculture.

(FPA), PARCELS: 50, 68, 69

(FPA/FP), PARCELS: 27, 28, 29, 30

(FPA, FPA/FP), PARCELS: 56, 57, 77, 78

(FPA/FP, EFU/FP), PARCEL: 67

(FPA, FPA/FP, UR5/MHA), PARCELS: 51, 52, 53, 55

(UR5/MHA, FPA/FP), PARCEL: 19

3. Forest conservation zoning

A. Forest conservation.

(FC), PARCELS: 218, 219, 226, 229, 230, 239, 281, 287, 289, 307, 355, 371, 372

B. Forest conservation land with flood plain overlay.

(FC, FC/FP), PARCELS: 217, 220, 222, 231, 236, 238, 258, 282, 286, 290, 291, 367, 370

4. Industrial and commercial zoning.

A. industrial , light industrial, and commercial.

(I), PARCELS: 71, 72, 76, 223, 227

(I/PUD), PARCELS: 316, 317, 318

(PLI), PARCEL: 197

(C), PARCELS: 3, 313, 319

B. Industrial and/or commercial areas with flood plain overlays.

(I, I/FP), PARCELS: 73, 74, 75, 207, 208, 211, 213, 216, 225, 228

(I/PUD, I/PUD/FP), PARCEL: 312

(C,C/FP), PARCEL: 210

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
1	12 5 02CA	200	4.3	City of Corvallis	City Hall, 501 SW Madison Av, Corvallis	1
2	12 5 02CA	201	2.68	Oregon Dept. of Transportation		2
3	12 5 02CA	203	0.28	City of Corvallis	City Hall, 501 SW Madison Av, Corvallis	3
3	12 5 02CB	100	0.87	City of Corvallis	City Hall, 501 SW Madison Av, Corvallis	3
5	12 5 02CB	200	2.83	Donald & Barbara Ward	2110 Newport Blvd #1, Costa Mesa CA 92627	5
6	12 5 02CB	201	0.03	Hattie Laraine Geisler, etal	245 SW Twin Oaks Circle, Corvallis	6
7	12 5 02CB	502	4.05	Hattie Laraine Geisler, etal	245 SW Twin Oaks Circle, Corvallis	7
8	12 5 03BD			City of Corvallis (Pioneer Park)	City Hall, 501 SW Madison Av, Corvallis	8
9	12 5 02CB	400	11.7	City of Corvallis	City Hall, 501 SW Madison Av, Corvallis	9
10	12 5 03D	100	67.3	City of Corvallis (Avery Park)	City Hall, 501 SW Madison Av, Corvallis	10
11	12 5 03DA	200	1.62	Cam International Inc.	P.O. Box 731, Corvallis OR 97339	11
12	12 5 03DA	1800		City of Corvallis	City Hall, 501 SW Madison Av, Corvallis	12
13	12 5 03DB	3100	2.05	Oregon Dept. of Transportation		13
14	12 5 03 D	200	1.98	Rachel Allen, etal	1405 SW Brooklane Dr., Corvallis	14
15	12 5 03 D	300	1.43	Jean Mater	1415 SW Brooklane Dr., Corvallis	15
16	12 5 03 D	400	7.81	Marshall Childs c/o Town & Country Realty	455 NW Tyler, Corvallis	16
17	12 5 03 D	500	3.55	Robert & Monine Stebbins	6940 NW Oak Creek, Corvallis	17
18	12 5 03 D	600	4.44	Jean Rice Heath	1565 SW Brooklane Dr., Corvallis	18
19	12 5 03D	190	5.88	Archi L. Utt	1440 SW Allen St., Corvallis	19
20	12 5 03D	1800	4.27	Calvin & Irene McDonald	1540 SW Allen St., Corvallis	20
21	12 5 03D	1700	3.27	John & Linda Anderson	1560 SW Allen St., Corvallis	21
22	12 5 03D	1600	5.43	Ronald & Sandra Lamar	1630 SW Allen St., Corvallis	22
23	12 5 03D	1500	5.18	Lee C. Harman, etal	1710 SW Allen St., Corvallis	23
25	12 5 03 D	800	0.1	Gerald & Christine Connard	1585 SW Brooklane Dr., Corvallis	25
26	12 5 03 D	900	1.25	Gerald & Christine Connard	1585 SW Brooklane Dr., Corvallis	26
27	12 5 03 D	1400	8.22	Robert & Marvene Storm	1625 Brooklane Dr., Corvallis	27
28	12 5 03 D	1200	6.4	Robert & Marvene Storm	1625 Brooklane Dr., Corvallis	28
29	12 5 03 D	1000	8.59	Michael Hare, etal	1601 Brooklane Dr., Corvallis	29
30	12 5 03D	1100	6.3	H.G. & Ramona Slocum	1520 SW Allen St., Corvallis	30
31	12 5 10BA	100	0.16	Richard & Verna Gallagher	1635 SW Brooklane Dr., Corvallis 97333	31
32	12 5 10BA	200	0.18	Richard & Verna Gallagher	1635 SW Brooklane Dr., Corvallis 97333	32
33	12 5 10BA	1400	0.21	Jenny Whitman	1430 SW 53rd, Corvallis	33
34	12 5 10BA	1500	0.29	Bunn Brothers Ltd	P.O. Box 807	34
35	12 5 10BA	300	0.19	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	35
36	12 5 10BA	500	0.26	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	36
37	12 5 10BA	600	0.26	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	37
38	12 5 10BA	700	0.25	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	38
39	12 5 10BA	800	0.21	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	39
40	12 5 10BA	900	0.21	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	40
41	12 5 10BA	1000	0.21	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	41
42	12 5 10BA	1100	0.21	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	42
43	12 5 10BA	1200	0.25	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	43

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
551 SE Chapman Pl, Corvallis	940	RS20
	940	RS20
	940	CB
	200	PAO
	207	PAO
Mobil Home Park	207	RS20
	941	RS12
	941	RS3.5
1221 SW 15th St., Corvallis	201	RS3.5
	940	RS3.5
	960	RS3.5
1405 SW Brooklane Dr., Corvallis	101	RS3.5
1415 SW Brooklane Dr., Corvallis	101	RS3.5
1510-1515 SW Brooklane Dr., Corvallis	101	RS3.5
1535 SW Brooklane Dr., Corvallis	101	RS3.5
1563-1567 SW Brooklane Dr., Corvallis	101	RS3.5
1440 SW Allen St., Corvallis	401	UR5/MHA, FPA/FP
1540 SW Allen St., Corvallis	401	UR5/MHA, UR5/FP/MHA
1560 SW Allen St., Corvallis	401	UR5/MHA, UR5/FP/MHA
1630 SW Allen St., Corvallis	401	UR5/MHA, UR5/FP/MHA
1710 SW Allen St., Corvallis	401	UR5/MHA, UR5/FP/MHA
	100	RS3.5
1583-1589 SW Brooklane Dr., Corvallis	101	RS3.5
	401	FPA/FP
1623 Brooklane Dr., Corvallis	401	FPA/FP
1601 Brooklane Dr., Corvallis	541	FPA/FP
1520 SW Allen St., Corvallis	400	FPA/FP
1635 SW Brooklane Dr., Corvallis 97333	401	UR5/MHA, UR5/FP/MHA
	401	UR5/MHA, UR5/FP/MHA
1430 SW 53rd, Corvallis	100	UR5/MHA, UR5/FP/MHA
	100	UR5/MHA, UR5/FP/MHA
	100	UR5/MHA, UR5/FP/MHA
1733 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA
1757 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA
1791 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA
1784 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA
1762 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA
1746 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA
1734 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA
1728 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
44	12 5 10BA	400	0.24	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	44
45	12 5 10BA	1300	0.46	Douglas Harnar	P.O. Box 498 Newberg, OR 97132	45
46	12 5 10BA	1700	0.22	Robert & Kay Thresher	307 Kimball Ct, Golden CO 80401	46
47	12 5 10BA	1800	0.22	Donna Nebergall	1803 SW Brooklane Dr, Corvallis	47
48	12 5 10	1900	3.85	Sophia Arnold	3344 SW Willamete, Corvallis	48
49	12 5 18	1100	3.96	Marvin Ellis and Betty Ellis	P.O. Box 356, Philomath	49
50	12 5 10A	900	20.74	Donald & Rachel Gallagher	5240 SW Hills Rd., Corvallis	50
51	12 5 10A	400	5.04	Charles & Gretchen Newlin	1820 SW Allen St., Corvallis	51
52	12 5 10A	200	2	Mary Slabaugh	1800 SW Allen St., Corvallis	52
53	12 5 10A	100	5	H.G. & Ramona Slocum	1750 SW Allen St., Corvallis	53
54	12 5 11BB	1300	2	Mark & Laurel Forbes	1840 SW Allen St., Corvallis	54
55	12 5 10A	500	10.55	First Baptist Church	125 NW 10th St, Corvallis	55
56	12 5 10A	800	8.41	Ethan & Sandra Wilson	500 NW 13th St., Corvallis	56
57	12 5 10A	700	74	Marysville Golf course Inc	P.O. Box 1203 Corvallis	57
58	12 5 10BA	1901	0.86	Pete Megis	P.O. Box 1658, Corvallis	58
59	12 5 10BA	2000	0.61	Launa Gail Overman	1885 SW Brooklane Dr, Corvallis	59
60	12 5 10BA	1900	3.8	Sophia Arnold, etal	3344 SW Willamette Avw, Corvallis	60
61	12 5 10BD	202	0.74	Jack & Joyce Hamilton	1328 34th ave NW, Salem OR 97304	61
62	12 5 10BD	102	1.08	Jack & Joyce Hamilton	1328 34th ave NW, Salem OR 97304	62
63	12 5 10BD	200	0.9	Fred Watters	P.O. Box 994, St. Helens OR 97051	63
64	12 5 10BD	100	1.15	Fred Watters	P.O. Box 994, St. Helens OR 97051	64
65	12 5 10BD	201	3.35	William & Annella Furtick	Rt. 1 Box 112AA Crestwood, Catstleton VA 22716	65
66	12 5 10BD	101	4.03	William & Annella Furtick	Rt. 1 Box 112AA Crestwood, Catstleton VA 22716	66
67	12 5 10C	800	83.57	Gary & Lynette Blake	3690 SW Brooklane Dr., Corvallis	67
68	12 5 10D	700	22.69	Thomas Whittier	3333 SW Brooklane Dr., Corvallis	68
69	12 5 10D	600	15.6	Herbert & Linda Crew	950 SW Wake Robin Ave, Corvallis	69
70	12 5 10D	500	16.12	Rozell Hoselton	P.O. Box 1203, Corvallis	70
71	12 5 10D	100	1.62	Edward & Gladys Schuck	541 SW Wake Robin Ave, Corvallis	71
72	12 5 10D	200	1.18	Edward & Gladys Schuck	541 SW Wake Robin Ave, Corvallis	72
73	12 5 10D	1000	6.8	Shannon Slate	662 SW Wake Robin Ave, Corvallis	73
74	12 5 10D	900	2.9	Gary & Hazel Walter, etal	660 SW Wake Robin Ave, Corvallis	74
75	12 5 10D	803	0.97	Larry & Marlene McNeil	720 SW Wake Robin Ave, Corvallis	75
76	12 5 10D	800	3	Steve & Linda Crew	2535 SW Whiteside Dr, Corvallis	76
77	12 5 10D	802	4.2	Herbert & Linda Crew	950 SW Wake Robin Ave, Corvallis	77
78	12 5 10D	801	5	Herbert & Linda Crew	950 SW Wake Robin Ave, Corvallis	78
79	12 5 10	800	10.41	Mary Heath	2920 SW 3rd ST, Corvallis	79
80	12 5 10	700	60.1	Doris Conger Caldwell	200 NW 30th St, Corvallis	80
81	12 5 15	100	90.45	Doris Conger Caldwell	200 NW 30th St, Corvallis	81
82	12 5 15	200	108.3	Clarence & Rosetta Venell, Venell Farms	30742 Venell Ln, Corvallis	82
83	12 5 15	300	39.66	Bruce & Gloria Lighthart	2965 SW 53rd St, Corvallis	83
84	12 5 09D	300	37.7	Joan Forest	3740 NW Glenridge, Corvallis	84
85	12 5 16	100	40.36	Louis & Romona Mohnike	3125 SW 53rd St., Corvallis	85

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
1711 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA
1716 SW Straton Way, Corvallis	100	UR5/MHA, UR5/FP/MHA
1801 SW Brooklane Dr., Corvallis	100	UR5/MHA, UR5/FP/MHA
1803 SW Brooklane Dr., Corvallis	401	UR5/MHA, UR5/FP/MHA
1817 SW Brooklane, Corvallis	401	UR5/MHA, URA/FP/MHA
2394 Chapel Dr., Corvallis	541	RR10/MH/FP, RR10/MH
	440	FPA
	401	FPA, FPA/FP, UR5/MHA
	401	FPA, FPA/FP, UR5/MHA
1750 SW Allen St., Corvallis	201	FPA, FPA/FP, UR5/MHA
1840 SW Allen St., Corvallis	401	UR5/MHA, URA/FP/MHA
1970 SW Allen St., Corvallis	912	FPA, FPA/FP, UR5/MHA
	400	FPA, FPA/FP
	831	FPA, FPA/FP
1819 SW Brooklane Dr., Corvallis	401	UR5/MHA, UR5/FP/MHA
1885 SW Brooklane Dr., Corvallis	401	UR5/MHA, UR5/FP/MHA
1817 SW Brooklane Dr., Corvallis	401	UR5/MHA, UR5/FP/MHA
1921 SW Brooklane Dr., Corvallis	401	UR5/MHA, UR5/FP/MHA
	100	UR5/MHA, UR5/FP/MHA
1925 SW Brooklane Dr., Corvallis	401	UR5/MHA, UR5/FP/MHA
	100	UR5/MHA, UR5/FP/MHA
	400	UR5/MHA, UR5/FP/MHA
	400	UR5/MHA, UR5/FP/MHA
	580	FPA/FP,EFU/FP
3333 SW Brooklane Dr., Corvallis	541	FPA
957-967 SW Wake Robin Ave, Corvallis	541	FPA
825 SW Wake Robin Ave, Corvallis	541	UR5/MHA
	300	I
541 SW Wake Robin Ave, Corvallis	301	I
570-620 SW Wake Robin Ave, Corvallis	401	I, I/FP
660 SW Wake Robin Ave, Corvallis	401	I, I/FP
720 SW Wake Robin Ave, Corvallis	401	I, I/FP
728-730 SW Wake Robin Ave, Corvallis	301	I
	550	FPA, FPA/FP
950 SW Wake Robin Ave, Corvallis	551	FPA, FPA/FP
2920 SW 3rd ST, Corvallis	551	EFU
	550	EFU
	540	EFU
	550	EFU
	992	EFU/FP, EFU/A/FP
3740 NW Glenridge, Corvallis	580	UR5/MHA, UR5/FP/MHA
3125 SW 53rd St., Corvallis	646	EFU

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
86	12 5 16	402	102.15	Frank and Marjorie Watenpaugh	3605 SW 53rd st, Corvallis	86
87	12 5 15DA	100	32	Doris Conger Caldwell	200 NW 30th St, Corvallis	87
88	12 5 15	501	40	Donald & Clay King	2705 55th St SE, Minot ND 58701	88
89	12 5 15	500	198.72	Venel Farms	30742 Venel Ln, Corvallis	89
90	12 5 16	900	35	Paul and Joyce Bowman	2140 SW 53rd st, Corvallis	90
91	12 5 16	800	101.62	Loren and Irene Herbert	2000 SW Herbert Ave, Corvallis	91
92	12 5 16	500	45.54	Francis and Howard Croff	4125 SW 53rd st, Corvallis	92
93	12 5 16	600	45.53	Francis and Howard Croff	4125 SW 53rd st, Corvallis	93
94	12 5 16	700	96.88	robin Rycraft/ Julia Juntunen	4205 SW 53rd st, Corvallis	94
95	12 5 21	200	50.88	Douglas & Gillian Wolfe	4425 SW 53rd St. Corvallis	95
96	12 5 21	300	35.62	Wendy Pitcher Hull, etal	4605 SW 53rd, Corvallis	96
97	12 5 21	100	69.4	Loren & Irene Herbert	2000 SW Herbert, Corvallis	97
98	12 5 21	500	8.81	Mary Weltzin, Venell Farms Inc.	2800 SW Weltzin Ave, Corvallis	98
99	12 5 21	502	210.2	Mary Weltzin, Venell Farms Inc.	30742 Venell Ln, Corvallis	99
100	12 5 21	501	210.22	Lindy Gay & Mark Cook	3997 SW Airport Ave, Corvallis	100
101	12 5 21	300	106.3	Wendy Pitcher Hull, etal	4605 SW 53rd, Corvallis	101
102	12 5 21	400	58.39	John Brandis, etal	P.O. Box 1087 Corvallis, 97339	102
103	12 5 21	502	210.2	Mary Weltzin, Venell Farms Inc.	30742 Venell Ln, Corvallis	103
104	12 5 28	300	2.5	Wendy Pitcher Hull, etal	4605 SW 53rd, Corvallis	104
105	12 5 28	400	10.13	Richard & Millicent Horner	4434 SW Airport Ave, Corvallis	105
106	12 5 29	100	324.05	Ester Hayes Ball	P.O. Box 1396, Corvallis	106
107	12 5 20	600	22.4	Ester Hayes Ball	P.O. Box 1396, Corvallis	107
108	12 5 20	501	35	Violet Campbell	4425 SW 53rd St. Corvallis	108
109	12 5 20	300	10.11	Demetrious Joesph Balint	4555 SW 53rd St. Corvallis	109
110	12 5 20	100	27.5	Douglas & Gillian Wolfe	4425 SW 53rd St. Corvallis	110
111	12 5 17	1100	140.64	Hsin & Lydia Lin Min	3910 SW 53rd St., Corvallis	111
112	12 5 20	200	78.5	Lois Mann, Crocker Farms	27118 Hubbard Rd, Monroe OR 97456	112
113	12 5 20	500	97.82	James & Robert Lindsay	30545 Lindsay Dr., Shedd OR 97377	113
114	12 5 20	503	20.8	Joesph & Sophia Laychak	8420 Coker Ct., Sacramento CA 95826	114
115	12 5 20	502	4.7	Timothy & JoAnn Taylor	4730 SW 53rd St., Corvallis	115
116	12 5 19	800	57.1	Ester Hayes Ball	P.O. Box 1396, Corvallis	116
117	12 5 19	200	42	Jame & Robert Lindsay	30545 Lindsay Dr, Shedd OR 97377	117
118	12 5 19	100	27.22	Lois Mann, Crocker Farms	27118 Hubbard Rd, Monroe OR 97456	118
119	12 5 20	400	150.5	Lois Mann, Crocker Farms	27118 Hubbard Rd, Monroe OR 97456	119
120	12 5 18	1401	55.82	Lois Mann, Crocker Farms	27118 Hubbard Rd, Monroe OR 97456	120
121	12 5 17	900	81.6	Lois Mann, Crocker Farms	27118 Hubbard Rd, Monroe OR 97456	121
122	12 5 17	1000	20.92	Lois Mann, Crocker Farms	27118 Hubbard Rd, Monroe OR 97456	122
123	12 5 17	800	23.16	Jamie & Dorothy Newman	11520 Calle Corvo, Colorado Springs CO 80926	123
124	12 5 17	700	207.5	Lois Mann, Crocker Farms	27118 Hubbard Rd, Monroe OR 97456	124
125	12 5 18	1500	9.64	Greta Coeffelbein	3420 Chapel Dr., Corvallis	125
126	12 5 18	1600	10	Pearl and Ivan Buddenhagen	1137 Murphy Creek Rd, Grants Pass OR 97201	126
127	12 5 18	1700	12.98	Pearl and Ivan Buddenhagen	1137 Murphy Creek Rd, Grants Pass OR 97201	127

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
3605 SW 53rd st, Corvallis	550	EFU, EFU/FP
	540	EFU/FP, EFU/A/FP
	550	
	550	EFU/FP, EFU/A
	551	EFU, EFU/A
	550	EFU, EFU/A
4125 SW 53rd st, Corvallis	550	EFU, EFU/FP
4125 SW 53rd st, Corvallis	551	EFU, EFU/FP
4205 SW 53rd st, Corvallis	551	EFU, EFU/FP
	550	EFU/FP
4605 SW 53rd, Corvallis	551	EFU/FP
	550	EFU, EFU/A, EFU/A/FP
2800 SW Weltzin Ave, Corvallis	550	EFU/A/FP
	550	EFU, EFU/FP, EFU/A
3997 SW Airport Ave, Corvallis	551	EFU, EFU/FP, EFU/A
4605 SW 53rd, Corvallis	551	EFU/FP
	550	EFU, EFU/FP, EFU/A
	550	EFU, EFU/FP, EFU/A
	550	EFU
4434-4474 SW Airport Ave, Corvallis	551	EFU
4485 SW Airport Ave, Corvallis	551	EFU, EFU/FP
4997 SW 53rd St., Corvallis	551	EFU, EFU/A
4425 SW 53rd St. Corvallis	551	EFU, EFU/A
	551	URS/MHA
4425 SW 53rd St. Corvallis	551	EFU/FP
3910 SW 53rd St., Corvallis	551	EFU
	550	EFU/FP
	550	EFU, EFU/FP, EFU/A
	550	EFU, EFU/A
4730 SW 53rd St., Corvallis	551	EFU, EFU/A
	550	EFU/FP
	550	EFU/FP
	550	EFU/FP
	550	EFU,EFU/FP
	550	EFU/FP
	550	EFU/FP
	550	EFU/FP
4001 Belfountain Rd, Corvallis	551	EFU/FP
	551	EFU
3420 Chapel Dr., Corvallis	541	EFU/FP
	540	EFU/FP
	540	EFU/FP

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
128	12 5 18	1301	35.25	Olline Brown	4000 Bellfountain Rd, Corvallis	128
128	12 5 18	1400	5.49	Olline Brown	4000 Bellfountain Rd, Corvallis	128
129	12 5 18	202	5.88	David and Suzanne Cutsforth	3284 Chapel Dr., Philomath	129
130	12 5 18	205	2	David and Suzanne Cutsforth	3284 Chapel Dr., Philomath	130
131	12 5 18	206	5.21	David and Suzanne Cutsforth	3284 Chapel Dr., Philomath	131
132	12 5 18	203	7.22	David and Lynn Grube	3282 Chapel Dr., Philomath	132
132	12 5 18	202	5.88	David and Suzanne Cutsforth	3284 Chapel Dr., Philomath	132
133	12 5 18	204	2	David and Lynn Grube	3282 Chapel Dr., Philomath	133
134	12 5 18	290	3.82	David and Lynn Grube	3282 Chapel Dr., Philomath	134
135	12 5 18	200	1.51	William and Heidi Holdman	3134 Chapel Dr., Corvallis	135
135	12 5 18	207	10.1	William and Heidi Holdman	3134 Chapel Dr., Corvallis	135
136	12 5 18	301	10	Clark and Ardell Dinwiddie	3036 Chapel Dr., Corvallis	136
137	12 5 18	400	11.55	Nola Pangelian c/o Kanoa Chalan	P.O. Box 1306 Saipan, MP 9 6950	137
138	12 5 18	1300	126.38	James and Laura Fessler	75 Maxfield Creek Rd, Monmouth OR 97361	138
139	12 5 19	300	92.6	Sylvia Seehafer	3420 Chapel Dr., Corvallis	139
140	12 5 19	400	71.4	Mary Henderson	31193 Fern Rd. Corvallis	140
141	12 5 18	802	60	City Of Philomath	P.O. Box 400 Philomath, OR 97370	141
142	12 5 18	801	61.66	Jay and Darlelene Faxon	2018 Chapel Dr., Corvallis	142
143	12 5 18	701	2.87	Mervyn and Carol Moldowan	2898 Chapel Dr., Corvallis	143
144	12 5 18	703	5.5	Michael and Lenora Ruth Pavelek	850 Cattle Dr., Corvallis	144
145	12 5 18	500	0.59	Mervyn and Carol Moldowan	2898 Chapel Dr., Corvallis	145
146	12 5 18	702	0.66	John and James Adair	835 Cattle Dr., Corvallis	146
147	12 5 18	501	0.86	Gary and Joan Remington	2898 Chapel Dr., Corvallis	147
148	12 5 18	600	0.39	Daniel O'brien	24060 Nichols Rd, Monroe 97456	148
149	12 5 18	700	11.75	A.O. and Rosie Fuston	808 Cattle Dr., Corvallis 97333	149
150	12 5 18	800	14.76	Jay and Darlelene Faxon	2018 Chapel Dr., Corvallis	150
150	12 5 18	801	61.66	Jay and Darlelene Faxon	2018 Chapel Dr., Corvallis	150
151	12 5 07	502	22.96	Fred Lowther	2709 Chapel Dr, Corvallis	151
152	12 5 18	1201	23.77	Clifford and Ilene Anderton	316 SW Washington St, Corvallis 97333	152
153	12 5 18	1101	5.55	Ruth Woodward and Margaret Skylark	P.O. Box 574, Philomath	153
154	12 5 18	1200	119.78	Jay and Darlene Faxon	2018 Chapel Dr., Philomath	154
155	12 6 13	100	106.7	Gilbert & Viola Faxon	2018 Chapel Dr., Philomath	155
156	12 6 13	100	106.7	Gilbert & Viola Faxon	2018 Chapel Dr., Philomath	156
157	12 5 19	700	174.5	Bond B. Starker	P.O. Box 809, Corvallis	157
158	12 5 30A	101	1.78	Ronald & Violet Brown	6246 Bellfountain Rd, Corvallis	158
159	12 5 30A	100	4.22	Ronald & Violet Brown	6246 Bellfountain Rd, Corvallis	159
160	12 5 30	302	5.89	George & Kay Harding	6154 Bellfountain Rd, Corvallis 97333	160
161	12 5 30	300	37.6	George & Kay Harding	6154 Bellfountain Rd, Corvallis 97333	161
162	12 5 30	400	28.2	William & Susan Doelger West	1377 NW Alta Vista Dr., Corvallis	162
163	12 5 19	600	23.7	William & Susan Doelger West	1377 NW Alta Vista Dr., Corvallis	163
165	12 5 19	501	82.8	Francis Wonderly	1305 12th St., Salem OR 97302	165
166	12 5 19	500	80.59	Roy Grimes & Peter Cheek, etal	22516 Coburg Rd., Harrisburg OR 97446	166

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
3972 Bellfountain Rd, Corvallis	559	EFU/FP
4000 Bellfountain Rd, Corvallis	551	EFU/FP
3284 Chapel Dr., Philomath	540	RR-10/MH
3284 Chapel Dr., Philomath	541	RR-10/MH
	540	RR-10/MHD, RR-10/MHD/FP
	540	RR-10/MH
	540	RR-10/MH
3282 Chapel Dr., Philomath	541	RR-10/MH
	540	RR-10/MHD, RR-10/MHD/FP
	540	RR-10/MH/FP
3134 Chapel Dr., Corvallis	541	RR-10/MHD
3036 Chapel Dr., Corvallis	541	RR-10/MHD, RR-10/MHD/FP
	540	RR-10/MHD, RR-10/MHD/FP
	550	EFU/FP
3420 Chapel Dr., Corvallis	551	EFU/FP
	550	EFU/FP
	940	EFU/FP
	550	EFU/FP
2910 Chapel Dr., Corvallis	401	RR-10/FP
	540	RR-10/MH/FP
	400	RR-10/MH/FP
	401	RR-10/MH
2898 Chapel Dr., Corvallis	401	RR-10/MH
2848 Chapel Dr., Corvallis	401	RR-10/MHD
808 Cattle Dr., Corvallis 97333	541	RR-10/MHD, RR-10/MHD/FP
	541	RR-10/MH, RR-10/MH, EFU/FP
	550	EFU/FP
2709 Chapel Dr, Philomath	441/449	UR5/MHA, UR5/FP/MHA
1277 Cattle Dr., Philomath	551	EFU/FP
2336 Chapel Dr., Corvallis	541	RR-10/MH
	550	EFU
2018 Chapel Dr., Philomath	501	EFU
2018 Chapel Dr., Philomath	501	EFU
	550	EFU/FP
6246 Bellfountain Rd, Corvallis	451	EFU
6260 Bellfountain Rd, Corvallis	551	EFU
6154 Bellfountain Rd, Corvallis 97333	551	EFU
	551	EFU
25669 Wonderly Ln, Philomath	559	EFU, EFU/FP
	550	EFU EFU/FP
25619 Wonderly Ln, Philomath	551	EFU EFU/FP
25615 Wonderly Ln, Philomath	551	EFU/FP

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
167	12 6 24	100	297.2	Mary Henderson	31193 Fern Rd., Corvallis	167
168	12 6 13	401	107	George and Helen Shroyer	24690 Alsea Hwy, Philomath	168
169	12 6 24	301	51.36	George & Helen Shroyer	24690 Alsea Hwy, Philomath	169
170	12 6 24	401	2	James Hyatt Wood	25190 Blackberry Ln, Philomath	170
171	12 6 24	402	2.14	Ann Clark Wood	115 Pine St, Amherst MA 01002	171
172	12 6 24	400	2.25	Ann Clark Wood	115 Pine St, Amherst MA 01002	172
173	12 6 24	500	1.42	Virginia Stanton	32248 Powder House Rd, Philomath	173
174	12 6 23	110	49.6	Mark Devos & Mary Marchant	24882 Evergreen Rd, Philomath	174
175	12 6 23A	401	8.09	Terry & Sally Stouder	25052 Evergreen Rd, Philomath	175
176	12 6 24	200	41.31	Edwin Harden	4330 SW 48th Pl., Portland OR 97221	176
177	12 6 13C	408	45.5	Alan & Patrica Mc Intyre	25110 Evergreen Rd, Philomath	177
178	12 6 24	402	5.98	Ann Clark Wood	115 Pine St, Amherst MA 01002	178
179	12 6 24			Raymond Forson	32522 Fern Rd, Corvallis	179
181	12 6 13	1100	89.37	George and Helen Shroyer	24690 Alsea Hwy, Philomath	181
182	12 6 13	402	47.46	George and Helen Shroyer	24690 Alsea Hwy, Philomath	182
183	12 6 13	400	56.03	George and Maryann Shroyer	1908 Chapel Dr, Philomath	183
184	12 6 13	300	1.6	George and Maryann Shroyer	1908 Chapel Dr, Philomath	184
185	12 6 13	200	0.91	Bardley S and Susan Kunda	1988 Chapel Dr, Philomath	185
186	12 6 13			unknown		186
187	12 6 13			unknown		187
190	12 6 12CD	300	4.63	Marvel Rowe	P.O. Box 1232, Philomath	190
191	12 6 12CD	400	0.2	Francis & Leona Nored	1668 West Hills Rd, Philomath	191
192	12 6 12CD	900	0.23	Malcolm & Barbara Mintonyne	P.O. Box 1524, Philomath	192
193	12 6 12CD	1500	1.59	Charlene Talbot	602 S 15th St., Philomath	193
194	12 6 12CD	1600	1.59	Ray Cooper	P.O. Box 843, Philomath	194
195	12 6 12CD	200	2.59	Betty Jo Melvill	6775 SW Philomath Blvd, Corvallis	195
196	12 6 12	1300	10.08	Walter Shirvin	500 S. 13th St, Philomath	196
197	12 6 12	1103	28.4	City of Philomath	P.O. Box 400, Philomath	197
197	12 6 12	1201	16.12	Shirvin Farms	500 S. 13th St, Philomath	197
198	12 6 13	500	23	Marshall and Wilhelmina Bates	32897 Fern Rd, Philomath	198
199	12 6 13	800	8.98	Susan and Warren Lisser	25159 Grange Hall Rd, Philomath	199
200	12 6 13	1000	9.72	Otto George and Elizabeth Neuman	24518 Hwy 20, Philomath	200
201	12 6 13C	100	3.89	Cecel & Doris Riker	32690 Fern Rd., Philomath	201
202	12 6 13C	200	0.93	James & Maxine Lasley	32668 Fern Rd., Philomath	202
203	12 6 11	603	75	unknown		203
204	12 6 11	400	23.26	Leon and Harlene Stratton	P.O Box 517, Philomath	204
204	12 6 11	401	5.02	Leon and Harlene Stratton	P.O Box 517, Philomath	204
204	12 6 11	500	16.14	Leon and Harlene Stratton	P.O Box 517, Philomath	204
205	12 6 11	506	1.31	Kenneth and Myrna Cantrell	P.O. Box 355, Philomath	205
206	12 6 11	501	2.29	City of Philomath	P.O. Box 400, Philomath	206
207	12 6 11	300	19.64	Geogia Pacific West, Inc.	900 SW 5th, 16th Floor, Portland OR 97204	207
208	12 6 11	602	3.11	George and Hellen Shroyer	24690 Alsea Hwy, Philomath	208

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
32091-32197 Fern Rd, Philomath	581	EFU
	550	EFU/FP
32222-32232 Powder House Rd, Philomath	559	EFU,EFU/FP
25180 Blackberry Ln, Philomath	451	EFU
25200 Blackberry Ln, Philomath	459	EFU
25200 Blackberry Ln, Philomath	459	EFU
32248 Powder House Rd, Philomath	451	EFU
	580	EFU, EFU/FP
	540	RR10
32326 Powder House Rd, Philomath	459	EFU,EFU/FP
25108-25110 Evergreen Rd, Philomath	559	EFU, EFU/FP
25190 Blackberry Ln, Philomath	571	EFU
32522 Fern Rd, Corvallis	401	EFU/FP
	551	EFU/FP
	550	EFU/FP
1908 Chapel Dr, Philomath	551	EFU, EFU/FP
1910 Chapel Dr, Philomath	551	EFU
1988 Chapel Dr, Philomath	401	EFU
551 S 13th St., Philomath	401	UR5/FP/MHA
110 Cooper Lane, Philomath	409	UR5/FP/MHA/DA
109 Cooper Lane, Philomath	401	UR5/FP/MHA
602 S 15th St., Philomath	401	UR5/FP/MHA, DA
S 15th St, Philomath	640	UR5/FP/MHA, DA
	400	UR5/FP/MHA, DA
782 S 13th St, Philomath	540	UR5/FP/MHA
300 S. 11th St, Philomath	940	PLI
500 S. 13th St, Philomath	201	UR5/FP/MHA
32897 Fern Rd, Philomath	551	EFU, EFU/FP
	551	EFU/FP
32694 Fern Rd	449	RR-10/MH, RR-10/MH/FP
32690 Fern Rd., Philomath	409	RR10/MH
32668 Fern Rd., Philomath	401	RR10/MH
500 Main St, Philomath	581	UR5/MHA, UR5/FP/MHA
	440	UR5/MHA
	440	UR5/MHA
220 S. 9th St, Philomath	301	
	941	UR5/FP/MHA
312 Main St., Philomath	333	I, I/FP
	540	I/FP

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
209	12 6 11	601	75	Rex and Holley Shroyer	24799 Grange Hall Rd, Philomath	209
210	12 6 11 C	100	3.85	Vincent, Norma Jean/ Serry's Cleaners	24798 Hwy 20, Philomath	210
211	12 6 11 C	301	6.82	Dorval Bevens & Anna Trust/ Miller Paint	P.O. Box 638, Philomath	211
211	12 6 11 C	400	0.64	Dorval Bevens & Anna Trust/ Miller Paint	P.O. Box 638, Philomath	211
212	12 6 11 C	300	4.02	Diamond B Corp.	P.O. Box 1087, Corvallis OR 97339	212
213	12 6 11 C	200	2.84	Vincent, Norma Jean/ Serry's Cleaners	24798 Hwy 20, Philomath	213
214	12 6 11B	700	24.08	Marion and Richard Shriber	P.O. Box 1057	214
215	12 6 11B	800	1.36	Oregon State		215
216	12 6 11 C	600	22.05	Gladys Clair	24529 Stovall Ln, Philomath	216
217	12 6 11 C	700	1	Consumers Power Inc. % John Mayse	P.O. Box 1180, Philomath 97370	217
218	12 6 10	1900	12.57	Clair Gladys	24529 Stovall Ln, Philomath	218
219	12 6 10	1800	30.35	O. K. and Jane Lynbarger, and Ray Ellis	32934 Peoria Rd, Corvallis	219
220	12 6 10	501	107.04	Starker Forest Products	P.O. Box 809, Corvallis 97339	220
221	12 6 10	3000	25.95	Otto and Elizabeth Newman	24518 Hwy 20, Philomath	221
221	12 6 10	3100	2.35	Otto and Elizabeth Newman	24518 Hwy 20, Philomath	221
221	12 6 10	3200	2.14	Otto and Elizabeth Newman	24518 Hwy 20, Philomath	221
222	12 6 10	500	14	Carroll Dingus	24404 Hwy 20, Philomath	222
223	12 6 10	100	5.76	Marys River Lumber Co.	4515 NE Elliot Circle, Corvallis	223
223	12 6 10	200	2.91	Marys River Lumber Co.	4515 NE Elliot Circle, Corvallis	223
225	12 6 03	400	0.19	Alicia Sue Cook	3015 NW Grant Pl, Corvallis	225
226	12 6 03	401	0.3	Alicia Sue Cook	3015 NW Grant Pl, Corvallis	226
227	12 6 03	500	2.08	Marys River Lumber Co.	4515 NE Elliot Circle, Corvallis	227
228	12 6 03	400	0.19	Alicia Sue Cook	3015 NW Grant Pl, Corvallis	228
229	12 6 03	300	104.54	Kathleen and Donald Cook	24475 Hwy 20, Philomath	229
230	12 6 03	300	104.54	Kathleen and Donald Cook	24475 Hwy 20, Philomath	230
231	12 6 02	300	239.19	Willamette Industries	3800 Interstate Tower, Portland OR 97201	231
232	12 6 03	300	104.54	Kathleen and Donald Cook	24475 Hwy 20, Philomath	232
233	12 6 02B	600	11.56	Robert White	131 NW 4th St. #290, Corvallis	233
234	12 6 02 B	500	8.5	John and Constance Vandeleiy	P.O. Box 1014, Philomath	234
235	12 6 02 B	400	10	Carl and Sharon Blake	P.O. Box 532, Philomath	235
236	12 6 02	200	12	Diane B. Hass	6000 NW Ponderosa Ave, Corvallis	236
237	12 6 02	107	6.83	Larry Bell	1180 N 9th St, Philomath	237
238	12 6 02	106	22.44	Julie Ann Nesbitt	9205 NW Cardell Hill Dr, Corvallis	238
239	12 6 02	104	11.01	Stephan and Rita Bell	541 Heritage Hills Dr., Philomath	239
240	12 6 02 B	300	8.17	Frank and Dale Barneccott	P.O. Box 803, Philomath	240
241	12 6 02 B	200	8.17	Adrienne Lynn Lindberg	24682 Daisy Dr., Philomath	241
242	11 6 35C	700	1.45	Paul & Mary Ortman	P.O. Box 687, Philomath	242
243	11 6 35C	800	6.29	Paul & Georgene Mortenson	24680 Daisy Dr., Philomath	243
244	11 6 35C	702	1.45	Mark & Diana Weaver	24631 Daisy Dr, Philomath	244
245	11 6 35C	900	8.4	Marion Lake Timber C.,	P.O. Box 9, Jefferson, OR 97352	245
246	11 6 35C	600	3.67	Ellen Hamlet	33022 SE Peoria Rd, Corvallis	246
247	11 6 35C	1000	7.4	Joesph & Alison Weber	2950 NW 9th St, Corvallis	247

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
24799 Grange Hall Rd, Philomath	551	EFU, EFU/FP
24798 Hwy 20, Philomath	201	C, C/FP
24745 Alsea Hwy, Philomath	301	I, I/FP
24743 Alsea Hwy, Philomath	311	I, I/FP
	300	I, I/FP
24768 Hwy 20, Philomath	300	I, I/FP
24540 Hwy 20, Philomath	541	RR2/FP
	960	RR2/FP
24529 Stovall Ln, Philomath	441	I, I/FP
	,003	FC, FC/FP
	640	FC
	440	FC
	640	FC, FC/FP
	401	?
	401	?
24520 Hwy 20, Philomath	409	?
24434 Hwy 20, Philomath	440	FC, FC/FP
	300	I
	333	I
	640	I, I/FP
	640	FC
24467 Hwy 20, Philomath	333	I
	640	I, I/FP
	581	FC
	581	FC
	640	FC, FC/FP
	581	FC
	401	RR5, RR5/FP
Mary's River Estates lot #10	400	RR-5
24732 Daisy Dr., Philomath	401	RR-5
	640	FC, FC/FP
	640	FC, FC/FP
	440	FC, FC/FP
541 Heritage Hills Dr., Philomath	640	FC
24700 Daisy Dr., Philomath	401	RR-5
24682 Daisy Dr., Philomath	401	RR-5
24671 Daisy Dr, Philomath	401	RR5
	400	RR5
24631 Daisy Dr, Philomath	401	RR5
Marys River Estates Lot 5	400	RR5
Marys River Estates Lot 5	401	RR5
Marys River Estates Lot 4	400	RR5

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
248	11 6 35C	500	3.5	Ellen Hamlet	33022 SE Peoria Rd, Corvallis	248
249	11 6 35C	400	4.28	Bruce & Sandra Curtis	350 NW Maxine Ave, Corvallis	249
250	11 6 35C	1100	4.55	Joesph & Alison Weber	2950 NW 9th St, Corvallis	250
251	11 6 35C	200	4	Russell & Dixie Paglia	24565 Daisy Dr., Philomath	251
252	11 6 35C	1201	2.09	Charles Amacher, etal	P.O. Box 1497, Philomath	252
253	11 6 35C	1200	2.08	Ted & Heide Curtis	30495 Marys River Estates Rd, Philomath	253
254	11 6 35C	100	5.38	Jean Frazier & George Geist	P.O. Box 520, Philomath	254
255	11 6 34D	100	4.15	Christer and Karen Stark	2532 SE Powell Pl, Corvallis 97333	255
256	11 6 34D	200	5.54	Charles and Roberta Ferrel	P.O. Box 955, Philomath 97370	256
257	11 6 35C	300	6.2	Public Park		257
258	11 6 35	201	426.05	S. Diane Howard Bell	1180 N 9th St., Philomath	258
259	11 6 34D	300	1.94	Janice Krabbe	24461 Columbine Dr., Philomath	259
260	11 6 34D	400	1.75	Eric Krabbe	24461 Columbine Dr., Philomath	260
261	11 6 34D	500	1.75	William & Leila Crawford	34253 Iris Circle, Philomath	261
262	11 6 34D	1000	5.41	Shelly and Patrick Svoboda	6115 NW Mountain View Dr., Corvallis	262
263	11 6 34D	1001	1.14	Shelly and Patrick Svoboda	6115 NW Mountain View Dr., Corvallis	263
264	11 6 34D	800	1.31	David and Heidi Braly	200 NW 53rd ST # 72, Corvallis	264
265	11 6 34D	600	1.03	William and Leila Crawford	34253 Iris Circle, Philomath	265
266	11 6 34D	900	3.28	Bruce and Deanna Erickson	34258 Iris Circle, Philomath	266
267	11 6 34D	901	3.17	Marie and Brad Smith	P.O. Box 824, Philomath 97370	267
268	11 6 34D	700	1.17	Edward Crawford	P.O. Box 1085, Philomath	268
269	11 6 34A	1500	1.35	John and Eileen	P.O. Box 625, Garberville, CA 95542	269
270	11 6 34A	1400	1.24	Russel Noteman	P.O. Box 2270, Corvallis	270
271	11 6 34A	1300	4.85	Erminia and Michael Pinckard	2430 NW 27th St, Corvallis 97330	271
272	11 6 34A	900	1.04	Lupe Maginnis	P.O.Box 821, Philomath 97370	272
273	11 6 34A	800	0.94	Lupe Maginnis	P.O.Box 821, Philomath 97370	273
274	11 6 34A	700	0.93	Lupe Maginnis	P.O.Box 821, Philomath 97370	274
275	11 6 34A	1000	4.45	Lorie Lee and Warren Nunn	24431 Queen Anne Dr., Philomath	275
276	11 6 34A	500	4.92	Bryan Yonker	3418 Iris Circle, Philomath	276
277	11 6 34A	600	6.14	Nancy Leman c/o Craig Leman	2702 NW Garfield Ave. Corvallis	277
278	11 6 34A	100	17.65	Nancy Leman c/o Craig Leman	2702 NW Garfield Ave. Corvallis	278
279	11 6 35	101	173.73	Janet C. Howard Stevens	8555 NW Cardwell Hill Dr., Corvallis	279
280	11 6 35	101	173.73	Janet C. Howard Stevens	8555 NW Cardwell Hill Dr., Corvallis	280
281	11 6 27	401	20	Craig & Susan Moser	24476 Garret Ln, Philomath	281
282	11 6 26	202	59.36	Janet & C. Howard Stevens	8555 NW Cardwell Hill Dr., Corvallis OR	282
283	11 6 26	202	59.36	Janet & C. Howard Stevens	8555 NW Cardwell Hill Dr., Corvallis OR	283
284	11 6 26	202	59.36	Janet & C. Howard Stevens	8555 NW Cardwell Hill Dr., Corvallis OR	284
285	11 6 26	200	189.8	Wayne Phillips	1874 NW Jameson Pl., Corvallis OR 97330	285
286	11 6 26	200	189.8	Wayne Phillips	1874 NW Jameson Pl., Corvallis OR 97330	286
287	11 6 26	203	47.72	Thomas & Karen Harding	P.O. Box 124, Philomath OR	287
288	11 6 26	205	34.8	Frank Morton & Karen Hayden	P.O Box 1509, Philomath	288
289	11 6 26	201	2.2	Jenifer & Casey Moore	P.O. Box 124, Philomath OR	289

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
24631 Daisy Dr, Philomath	401	RR5
	400	RR5
Marys River Estates Lot 3	400	RR5
24565 Daisy Dr., Philomath	401	RR5, RR5/FP
245432 Daisy Rd, Philomath	401	RR5
30495 Marys River Estates Rd, Philomath	401	RR5
24563 Daisy Dr, Philomath	401	RR5, RR5/FP
24525 Columbine Dr. Philomath	401	RR-5, RR5/FP
24475 Columbine Dr., Philomath	401	RR-5, RR5/FP
Marys River Estates, Public Park	990	RR5
	640	FC, FC/FP
24461 Columbine Dr., Philomath	401	RR-5, RR5/FP
Marys River Estates Lot AD21	400	RR-5, RR5/FP
34253 Iris Circle, Philomath	401	RR5, RR5/FP
	401	RR-5
	400	RR-5
Mary River Estates Lot AD17	401	RR-5, RR5/FP
Marys River Estates Lot AD19	400	RR-5, RR5/FP
34258 Iris Circle, Philomath	401	RR-5
34268 Iris Circle, Philomath	401	RR-5
34263 Iris Circle, Philomath	401	RR-5, RR5/FP
Mary River Estate AD16	400	RR-5
34287 Iris Circle	400	RR-5/FP
Mary River Estate Lot AD16	401	RR-5
34295 Iris Circle, Philomath	401	RR-5
34295 Iris Circle, Philomath	401	RR-5
Mary River Estate, lot AD5	401	RR-5
24431 Queen Anne Dr., Philomath	401	RR-5
3418 Iris Circle, Philomath	401	RR-5
34309 Iris Circle, Philomath	401	RR-5
Mary River Estates, lot AD100	400	RR-5
	640	RR2, MH
	640	RR2, MH
24476 Garret Ln, Philomath	441	FC
	640	FC FC/FP
	640	FC FC/FP
	640	FC FC/FP
	640	FC FC/FP
	640	FC FC/FP
24621 Echo Hill Rd, Philomath OR	640	FC
	640	FC
	640	FC

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
290	11 6 26	100	40	US National Bank c/o Real Estate Services	P.O. Box 3168, Portland OR 97208	290
291	11 6 26	100	40	US National Bank c/o Real Estate Services	P.O. Box 3168, Portland OR 97208	291
292	11 6 27	100	94.8	US National Bank c/o Real Estate Services	P.O. Box 3168, Portland OR 97208	292
293	11 6 27	100	94.8	US National Bank c/o Real Estate Services	P.O. Box 3168, Portland OR 97208	293
294	11 6 22	500	37.63	US National Bank c/o Real Estate Services	P.O. Box 3168, Portland OR 97208	294
295	11 6 22	501	19.3	William & Marion Schultz	24462 Cardwell Hill Dr., Philomath	295
296	11 6 27	100	94.8	US National Bank c/o Real Estate Services	P.O. Box 3168, Portland OR 97208	296
297	11 6 27	205	12.4	Floyd & Beverly McFarland	147 NW 31st ST., Corvallis	297
298	11 6 27	200	31.05	Floyd & Beverly McFarland	147 NW 31st ST., Corvallis	298
299	11 6 22C	2400	23.82	William Percy	24362 Cardwell hill Dr., Philomath	299
300	11 6 22C	1500	5.05	James P. Shields, etal	35243 Lillian Dr., Philomath	300
301	11 6 22C	1400	10.36	Glenn Summers	9235 W 81st Ln, Arvada CO 80005	301
302	11 6 22C	1300	3.46	Frank Moore	147 NW 31st ST., Corvallis	302
303	11 6 22C	1200	6.72	Floyd & Beverly McFarland	147 NW 31st ST., Corvallis	303
304	11 6 27	200	31.05	Floyd & Beverly McFarland	147 NW 31st ST., Corvallis	304
305	11 6 27	204	41.94	William Dougherty, etal	35163 Lillian Dr., Philomath	305
306	11 6 21	104	18.6	Johnathon & Lorin Liddle	24128 Cardwell Hill dr., Philomath	306
307	11 6 21	105	5.7	Clark Edward Smith	17064 Old Mehama Rd SE, Stayton OR	307
308	11 6 21	1600	1	Lloyd & Dorothea Crisp	24004 Cardwell Hill, Philomath OR	308
309	11 6 21	1500	102	Lloyd & Dorothea Crisp	24004 Cardwell Hill, Philomath OR	309
309	11 6 21	1700	30	Lloyd & Dorothea Crisp	24004 Cardwell Hill, Philomath OR	309
310	11 6 21	1400	34.52	Verna Turner	35257 Kings Valley Hwy, Philomath	310
311	11 6 28	2100	83.97	Dorothy Brown	34829 Wren Rd, Philomath	311
312	11 6 28	600	13.62	Three G Lumber Co, Inc	605 NW 31st St, Corvallis	312
313	11 6 28	100		Nancy Hartwick & Kenneth Noble	1806 S 14th Place, Rogers AR 72756	313
314	11 6 28B	1200	2.52	Wren Community Cemetery Assoc.	34829 Wren Rd., Philomath	314
316	11 6 28B	1600	0.48	Nancy Hartwick & Kenneth Noble	1806 S 14th Place, Rogers AR 72756	316
317	11 6 28B	1500	0.76	Kyle & Jacqueline Schreiber	433 N Coast Hwy, Newport OR 97365	317
318	11 6 28	202	1	Richard & Barbara Jans	23735 Hwy 20, Philomath	318
319	11 6 28	201	4.54	Quality Timber Removal, Inc	P.O. Box 293, Philomath	319
320	11 6 28B	103	1	Don & Tresa Stevens	23683 Hwy 20, Philomath	320
321	11 6 28B	1100	2.68	USA ?? public land???		321
322	11 6 28B	800	1.14	Kenneth Corbin & Joan Extrom	35096 Kings Valley Hwy, Philomath	322
323	11 6 28B	700	0.43	USA ?? public land???		323
324	11 6 28B	600	0.98	Darrel & Joyce Spinney	P.O. Box 282, Philomath	324
325	11 6 28B	400	1.23	Lee Roy & Clara Dee Simpson	35126 Kings Valley Hwy, Philomath	325
326	11 6 28B	500	0.92	Frank Mariner	35118 Kings Valley Hwy, Philomath	326
327	11 6 28B	100	0.51	Diane Schwartz	35136 Kings Valley Hwy, Philomath	327
328	11 6 28B	300	0.9	Diane Schwartz	35136 Kings Valley Hwy, Philomath	328
329	11 6 28B	200	3	Jack & Carla McCord	35150 Kings Valley Hwy, Philomath	329
330	11 6 21	1106	4.64	Allen & Ruth Lowell	23701 Pearson Place, Philomath OR	330
331	11 6 21	1401	3.13	Barry Bever	35212 Kings Valley Hwy, Philomath OR 97370	331

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
	540	FC FC/FP
	540	FC FC/FP
	550	EFU, EFU/FP
	550	EFU, EFU/FP
	550	EFU
	551	EFU
	550	EFU, EFU/FP
	550	EFU
	580	EFU EFU/FP
	551	EFU EFU/FP
	450	EFU
	451	EFU
	450	EFU
	550	EFU
	580	EFU, EFU/FP
35163 Lillian Dr., Philomath	646	EFU
24128 Cardwell Hill dr., Philomath	559	EFU
	640	FC
	551	EFU EFU/FP
	551	EFU
	550	EFU
35257 Kings Valley Hwy, Philomath	551	EFU EFU/FP
23925 Echo Hills Rd, Philomath	451	RR5
34930 Wren Rd., Philomath	332	I/PUD, I/PUD/FP
23781 Harris Rd, Philomath	121	C
	501	EFU
34991 - 35025 Wren Rd, Philomath	300	I/PUD
23789 Harris Rd, Philomath	300	I/PUD
23735 Hwy 20, Philomath	131	I/PUD
34991 - 35025 Wren Rd, Philomath	121	C
23683 Hwy 20, Philomath	551	EFU
	970	EFU
	451	EFU
	470	EFU EFU/FP
35114 Kings Valley Hwy, Philomath	459	EFU
35126 Kings Valley Hwy, Philomath	451	EFU EFU/FP
35118 Kings Valley Hwy, Philomath	451	EFU
	450	EFU EFU/FP
35136 Kings Valley Hwy, Philomath	451	EFU
35150 Kings Valley Hwy, Philomath	551	EFU EFU/FP
23701 Pearson Place, Philomath OR	550	EFU EFU/FP
35212 Kings Valley Hwy, Philomath OR 97370	451	EFU EFU/FP

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
333	11 6 21	1401	2.42	Barry Bever	35212 Kings Vallwy Hwy, Philomath	333
334	11 6 21	1400	34.52	Verna Turner, et al	35257 Kings Valley Hwy, Philomath OR 97370	334
335	11 6 21	1300	4.43	Alice Jones and P.R. & Billy Priest	556 Bay Rd., Toledo OR 97391	335
336	11 6 21	1200	6.19	S W & Ella Sorenson and Ronald and Debbie More	23750 Priest Rd, Phillomath OR	336
337	11 6 21	800	5	Maude Brunette, et al	P.O. Box 43000, Florence OR 97439	337
338	11 6 21	900	2.3	Billy Priest Jr.	P.O. Box 68064, Portland OR 97268	338
339	11 6 21	1000	2.54	James McMahon	6606 NW Mountainview Dr, Corvallis OR 97330	339
340	11 6 21	1107		Tracey & Laurel Smouse	23701 Pearson Place, Philomath OR	340
341	11 6 21	1106	4.64	Allen & Ruth Lowell	23701 Pearson Place, Philomath OR	341
341	11 6 21	1106	4.64	Allen & Ruth Lowell	23701 Pearson Place, Philomath OR	341
342	11 6 21	1101	5.2	Allen & Ruth Lowell	23701 Pearson Place, Philomath OR	342
343	11 6 21	1103	6	Sidney & Atha Lee Fredrickson	23676 Pearson Place, Philomath OR	343
344	11 6 21	1100	8.32	Betty Brummett	23629 Pearson Pl., Philomath	344
345	11 6 21	1105	8.6	Sidney & Atha Lee Fredrickson	23676 Pearson Place, Philomath OR	345
346	11 6 21	1104	8	Clay & Sarah Wallace	23642 Pearson Place, Philomath	346
347	11 6 21	1102	5.25	Lloyd & Diane Simpson	23628 Pearson Place, Philomath OR	347
348	11 6 20	601	20.2	Thomas & Sandra Hering	23605 Hwy 20, Philomath	348
348	11 6 21	1108	7.8	Dean A Malerick	910 NW Witham Dr., Corvallis OR 97330	348
349	11 6 20	603	79.4	Stewart & Carol Hemphill	23390 Hwy 20, Philomath	349
350	11 6 28B	101	20.74	Don & Tresa Stevens	23683 Hwy 20, Philomath	350
351	11 6 28	200	5.7	Stewart & Carol Hemphil	23390 Hwy 20, Philomath	351
352	11 6 28	200	5.7	Stewart & Carol Hemphil	23390 Hwy 20, Philomath	352
353	11 6 28	800	2	Stanley Shively	23696 Harris Rd, Philomath	353
354	11 6 28	800	2	Stanley Shively	23696 Harris Rd, Philomath	354
355	11 6 28	500	30.75	Thomas & Karen Harding	P.O. Box 871, Philomath	355
356	11 6 28	601	1	James & Ginger Arndt	23664 Harris Rd., Philomath	356
358	11 6 28	1101	14.8	James & Lois Rawers	776 SW Lookout Dr., Corvallis	358
359	11 6 28	1104	1	James Karbowski	23602 Harris Rd, Philomath	359
360	11 6 28	1101	14.8	James & Lois Rawers	776 SW Lookout Dr., Corvallis	360
361	11 6 28	1102	11.03	James Karbowski	23602 Harris Rd, Philomath	361
362	11 6 28	1103	7.9	James Karbowski	23602 Harris Rd, Philomath	362
363	11 6 28	1103	7.9	James Karbowski	23602 Harris Rd, Philomath	363
364	11 6 28	1300	2.6	Walter Moore	23570 Harris Rd., Philomath	364
365	11 6 28	1302	1	Walter Moore	23570 Harris Rd., Philomath	365
366	11 6 28	1300	2.6	Walter Moore	23570 Harris Rd., Philomath	366
367	11 6 33	300	80.75	Starker Forests Inc	P.O. Box 809, Corvallis OR	367
367	11 6 29	102	33.2	Starker Forests Inc	P.O. Box 809, Corvallis OR	367
368	11 6 33	300	80.75	Starker Forests Inc	P.O. Box 809, Corvallis OR	368
369	11 6 33	300	80.75	Starker Forests Inc	P.O. Box 809, Corvallis OR	369
370	11 6 32	400	128.07	Starker Forests Inc	P.O. Box 809, Corvallis OR	370
371	11 6 32	300	9.6	Gregory & Cathy Phelps	23392 Harris Rd, Philomath	371
372	11 6 32	300	9.6	Gregory & Cathy Phelps	23392 Harris Rd, Philomath	372

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
35212 Kings Vallwy Hwy, Philomath	451	EFU, EFU/FP
35257 Kings Valley Hwy, Philomath OR 97370	551	EFU EFU/FP
23806 Priest Rd, Phillomath OR	451	EFU EFU/FP
23750 Priest Rd, Phillomath OR	551	EFU
23825 Priest Rd., Philomath OR	551	EFU
23801 Priest Rd, Philomath OR	451	EFU
23755 Priest Rd, Philomath OR	451	EFU
23701 Pearson Place, Philomath OR	551	EFU EFU/FP
23701 Pearson Place, Philomath OR	550	EFU EFU/FP
23701 Pearson Place, Philomath OR	550	EFU EFU/FP
23701 Pearson Place, Philomath OR	559	EFU
23676 Pearson Place, Philomath OR	681	EFU
23629 Pearson Pl., Philomath	551	EFU EFU/FP
23676 Pearson Place, Philomath OR	680	EFU EFU/FP
23642 Pearson Place, Philomath	459	EFU EFU/FP
23628 Pearson Place, Philomath OR	459	EFU EFU/FP
	530	EFU, EFU/FP
	451	EFU EFU/FP
	511	EFU, EFU/FP
23683 Hwy 20, Philomath	551	EFU, EFU/FP
23390 Hwy 2o, Philomath	580	EFU, EFU/FP
23390 Hwy 2o, Philomath	580	EFU, EFU/FP
23696 Harris Rd, Philomath	451	EFU, EFU/FP
23696 Harris Rd, Philomath	451	EFU, EFU/FP
	640	FC
	459	EFU
	647	EFU, EFU/FP
23602 Harris Rd, Philomath	551	EFU
	647	EFU, EFU/FP
	551	EFU
23600 Harris Rd., Philomath	559	EFU, EFU/FP
23600 Harris Rd., Philomath	559	EFU, EFU/FP
23570 Harris Rd., Philomath	451	EFU
23558 Harris Rd., Philomath	450	EFU, EFU/FP
23570 Harris Rd., Philomath	451	EFU
	640	FC, FC/FP
	640	FC, FC/FP
	640	FC, FC/FP
	640	FC, FC/FP
	640	FC, FC/FP
23392 Harris Rd, Philomath	649	FC
23392 Harris Rd, Philomath	649	FC

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
373	11 6 32	200	9.73	Gina Ringer	4602 Tieton Dr. #K55	373
374	11 6 32	100	17.6	Lightning S Corp	P.O. Box 809, Corvallis 97339	374
375	11 6 28	1200	6.92	Richard & Cathie Beard	23517 Harris Rd, Philomath	375
376	11 6 28	1100	24.93	Harold & Margaret Jensen	23619 Harris Rd., Philomath OR	376
377	11 6 29	701	20	Elmer & Dorothy Taylor	23465 Harris Rd., Philomath OR	377
378	11 6 29	700	15.24	Elmer & Dorothy Taylor	23465 Harris Rd., Philomath OR	378
378	11 6 29	702	33.06	Elmer & Dorothy Taylor	23465 Harris Rd., Philomath OR	378
379	11 6 29	600	19.8	Starker Forest Inc.	P.O. Box 809, Corvallis OR	379
380	11 6 29	400	47.4	Jack L. Joyce	791 Red Hills Dr., Dundee OR 97115	380
381	11 6 29	400	47.4	Jack L. Joyce	791 Red Hills Dr., Dundee OR 97115	381
383	11 6 29	200	157.4	Stewart & Carol Hemphill	23390 Hwy 20, Philomath OR	383
384	11 6 29	101	12.6	Sandra & Thomas Hering	23605 Hwy 20, Philomath	384
385	11 6 29	103	72.5	Stewart & Carol Hemphill	23390 Hwy 20, Philomath OR	385
386	11 6 20	603	79.4	Stewart & Carol Hemphill	23390 Hwy 20, Philomath	386
387	11 6 20	700	10.97	Douglas & Thomas Boyles	23441 Hwy 20, Philomath	387
388	11 6 20	603	79.4	Stewart & Carol Hemphill	23390 Hwy 20, Philomath	388
389	11 6 29	500	1.77	Elmer Taylor	23465 Harris Rd., Philomath OR	389
391	11 6 29	300	28	Wayne & Dorothy Harris	22913 Harris Dr., Philomath OR	391
393	11 6 30	500	62.96	Wayne & Dorothy Harris	22913 Harris Rd, Philomath OR	393
393	11 6 30	502	10.39	Wayne & Dorothy Harris	22913 Harris Rd, Philomath OR	393
394	11 6 30	400	35.1	Stewart & Carol Hemphill	23390 Hwy 20, Philomath OR	394
395	11 6 30	100	157.6	Starker Forest Inc.	P.O. Box 809, Corvallis OR	395
396	11 6 30	900	81.6	Dan & Phyllis Sartan	23001 Harris Rd, Philomath OR	396
397	11 6 30	900	81.6	Dan & Phyllis Sartan	23001 Harris Rd, Philomath OR	397
398	11 6 29	501	12.64	Elmer Taylor	23465 Harris Rd., Philomath OR	398
398	11 6 30	1000	1	Dan & Phyllis Sartan / Aaron & Noemi McKee	960 NW Cleveland Ave #5, Corvallis OR 97330	398
399	11 6 30	800	49.51	Wayne & Dorothy Harris	22913 Harris Rd, Philomath OR	399
400	11 6 30	800	49.51	Wayne & Dorothy Harris	22913 Harris Rd, Philomath OR	400
401	11 6 30	600	6.9	Benton County Courthouse	Benton County Courthouse, Corvallis OR	401
402	11 6 30	302	46.37	William A. Ayers	P.O. Box 1172, Philomath OR	402
403	11 6 30	300	44.61	Starker Forest Inc.	P.O. Box 809, Corvallis OR	403
404	11 6 30	200	339.46	Davis Lowther	22518 Harris Rd., Philomath OR	404
405	11 6 30	1100	163.19	Dan & Phyllis Sartan	23001 Harris Rd, Philomath OR	405
406	12 5 10BA	1600	0.41	Victor & Gwendolyn White	616 SE Hale Place, Gresham OR 97080	406
407	12 5 16	200	5	John Adair	3355 SW 53rd St., Corvallis	407
408	12 5 16CB	270	0.93	Frank & Marjorie Watenpaugh	3605 SW 53rd St., Corvallis	408
409	12 5 16CB	280	0.55	Frank & Marjorie Watenpaugh	3605 SW 53rd St., Corvallis	409
410	12 5 16CB	200	0.21	Cecil & Viola Stark	3655 SW 53rd St., Corvallis	410
411	12 5 16CB	800	1.18	James & Sharon Watenpaugh	3675 SW 53rd St., Corvallis	411
412	12 5 16CB	100	1.01	Ronald & Cheryl Vansickle	5275 SW Watenpaugh ave., Corvallis	412
413	12 5 16CB	300	0.88	James & Della Carrol	3755 SW 53rd St., Corvallis	413
414	12 5 16CB	700	2.92	Mary Barnes	5250 SW Watenpaugh ave., Corvallis	414

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
23436 - 23438 Harris Rd., Philomath	551	EFU EFU/FP
	550	EFU EFU/FP
23517 Harris Rd, Philomath	551	EFU EFU/FP
	550	EFU EFU/FP
23507 Harris Rd., Philomath OR	640	EFU EFU/FP
23465 Harris Rd., Philomath OR	640	EFU EFU/FP
	551	EFU EFU/FP
23376 Harris Rd., Philomath OR	440	EFU
23290 Harris Rd., Philomath OR	551	EFU EFU/FP
23290 Harris Rd., Philomath OR	551	EFU EFU/FP
23390 Hwy 20, Philomath OR	641	EFU EFU/FP
23605 Hwy 20, Philomath	551	EFU
	550	EFU EFU/FP
	511	EFU, EFU/FP
23441 Hwy 20, Philomath	550	EFU, EFU/FP
	511	EFU, EFU/FP
23465 Harris Rd., Philomath OR	640	EFU EFU/FP
22913 Harris Dr., Philomath OR	640	EFU EFU/FP
	551	EFU
	551	EFU
23390 Hwy 20, Philomath OR	550	EFU
	640	EFU
23001 Harris Rd, Philomath OR	441	EFU EFU/FP
23001 Harris Rd, Philomath OR	441	EFU EFU/FP
23465 Harris Rd., Philomath OR	640	EFU
22930 Harris Rd, Philomath OR	441	EFU EFU/FP
	640	EFU
	640	EFU
	400	EFU EFU/FP
22853 Harris Rd., Philomath OR	581	EFU EFU/FP
	640	EFU
22518 Harris Rd., Philomath OR	641	EFU EFU/FP
	440	EFU EFU/FP
1797 SW Brooklane Dr., Corvallis	401	UR5/MHA, UR5/FP/MHA
3355 SW 53rd St., Corvallis	451	EFU, EFU/FP
3605 SW 53rd St., Corvallis	451	EFU
3625 SW 53rd St., Corvallis	451	EFU
3655 SW 53rd St., Corvallis	451	EFU
3675 SW 53rd St., Corvallis	451	EFU
5275 SW Watenpugh ave., Corvallis	451	EFU
3755 SW 53rd St., Corvallis	451	EFU
5250 SW Watenpugh ave., Corvallis	551	EFU

Marys River PARCELS

parcel	MAP	lot	acres	OWNER	MAIL ADDRESS	parcel
415	12 5 16CB	500	0.66	Joan Hunt	20669 Shingle Creek, Blodgett OR 97326	415
416	12 5 16CB			unknown		416
417	12 5 16CB	400	0.27	Carrie McNaughton	5285 SW Watenpaugh ave., Corvallis	417
417	12 5 16CB	301	0.95	Richard Barnett	5285 SW Watenpaugh ave., Corvallis	417
418	11 6 28	2200	14.4	Michael & Susan Brown	23915 Echo Hills Rd, Philomath	418
418	11 6 28	2300	1	Michael & Susan Brown	P.O. Box 1123, Philomath	418
418	11 6 28	2200	14.04	Michael & Susan Brown	23915 Echo Hill Rd, Philomath	418
418	12 5 16	300	106.05	Grant and Gayle Cornelius	3375 SW 53rd St, Corvallis	418
419	11 6 28	1000	20.5	Harold & Margaret Jensen	23619 Harris Rd, Philomath	419

Marys River PARCELS

PARCEL ADDRESS	CODE	ZONE
3825 SW 53rd St., Corvallis	451	EFU
5285 SW Watenpugh ave., Corvallis	401	EFU
5285 SW Watenpugh ave., Corvallis	451	EFU
23915 Echo Hills Rd, Philomath	451	EFU
34925 Wren Rd, Philomath	945	FP
23915 Echo Hills Rd, Philomath	451	EFU
3375 SW 53rd St, Corvallis	551	EFU, EFU/FP
23619 Harris Rd, Philomath	551	EFU

References

- Abbott, Carl, Howe, Deborah, and Adler, Sy (editors) (1994). **Planning the Oregon Way: a twenty year evaluation.** Corvallis, Oregon: Oregon State University Press. 327 pp.
- Akcakaya, Resit, H. (1994). **GIS Enhances Endangered Species Conservation Efforts.** *GIS World.* 7: 36 - 41.
- Beliveau, Laura S., (1994). **The Forest Legacy Program: Using Conservation Easements to Preserve the Northern Forest.** *Boston College Environmental Affairs Law Review.* 20: 507 - 531
- Endicott, Eve (Editor) (1993). **Land Conservation through Public / Private Partnerships.** Washington DC: Island Press. 364 pp.
- Ferguson, Carol A., Bowen, Richard L., and Kahn, M. Akram (1991). **A statewide LESA system for Hawaii.** *Journal of Soil and Water Conservation.* 46: 263 - 267
- Greenbelt Land Trust (1990). **Open Space Report: prepared for the Benton Government Committee (January 1990).** 17 pp.
- Gregory, Stanley V., Swanson, Frederick J., McKee, W. Arthur, and Cummins, Kenneth W. (1991). **An Ecosystem Perspective of Riparian Zones.** *BioScience.* 41:540 - 551
- Haapoja, Margaret (1994). **Conservation Easements: Are they for you?** *American Forests.* 100: 29-38
- Heit, Michael, and Shortreid, Art: editors. (1991) **GIS Applications in Natural Resources.** Loveland, Colorado: GIS World, Inc. 379 pp.
- Marsh, William M., (1991) **Landscape Planning, Environmental Applications.** New York, New York: John Wiley & Sons, Inc. 340 pp.

- Meyers, Phyllis (1992) **Lessons from the States: Strengthening Land Conservation Programs through Grants to Nonprofit Land Trusts**. Washington, DC: Land Trust Alliance. 71 pp.
- Michener, William K., Brunt, James W., Stafford, Susan G.: editors (1994). **Environmental Information Management and Analysis**. Bristol, PA: Taylor & Frances Ltd. 555 pp.
- Montgomery, Glenn E., and Schuch, Harold C. (1993). **GIS Data Conversion Handbook**. Fort Collins, Colorado: GIS World, Inc. 290 pp.
- Nielsen, G.A, Caprio, J.M., et al. (1990). **MAPS: A GIS for land resource management in Montana**. *Journal of Soil and Water Conservation*. 45: 450 -453.
- Yi, Gi-Chul, Risley, David, et al. (1994). **Development of Ohio's GIS-based wetland inventory**. *Journal of Soil and Water Conservation*. 49: 23 - 28