Appendix 2-C: Willamette Basin Explorer Training Worksheet

Willamette Basin Explorer Training Session – Worksheet
December 17, 2004 – OSU Library Autzen Classroom
Willamette Basin Explorer -- www.WillametteExplorer.info

After the training session, we expect that you will be able to accomplish the following:
1. explain what the Willamette Basin Explorer is to someone who may find it helpful for their work
2. find available datasets, reports, and imagery for the Willamette Basin
3. make a custom map for an area of interest within the Willamette Basin
4. generate a report on land use/land cover statistics and conservation/restoration opportunities for an area of interest
5. understand what resources are available to get involved with and learn more about your conservation actions

Background:
The Willamette Basin Conservation Project is a cooperative effort between Oregon State University, the Willamette Restoration Initiative, Defenders of Wildlife, and the University of Oregon. OSU libraries and UO worked together to make the information easily accessible through a digital library. WRI is responsible for outreach to citizens and communities. Defenders of Wildlife is identifying improved ways to help willing landowners design and fund conservation projects. The OSU Institute for Natural resources provided the project management. The Meyer Memorial Trust and the Oregon Watershed Enhancement Board provided the funding.

The Willamette Basin has been the subject of some of the most sophisticated ecological analyses in the nation--most notably the Willamette Alternative Futures study that resulted in the Willamette River Basin Planning Atlas, published by OSU Press in 2002.

The Project's objective is to deliver this new, detailed information into the hands of citizens and community leaders. In other words, to make sure people know the information is there, that it's easy to understand, and easy to get. The **Willamette Basin Explorer** is what we developed to provide access to the available information. The Willamette Basin Explorer is a digital library of natural resource information for the entire Willamette River Basin. Over the past year, OSU libraries have been working with the other project partners and potential users to develop the Willamette Basin Explorer. Built on the exhaustive research and "alternative futures" work of the

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Pacific Northwest Ecosystem Research Consortium (the people who created the Willamette River Basin Planning Atlas), this new digital library provides access to a much broader and ever-expanding collection of recent research, successful projects and general wisdom. We want this to be your best source for Willamette Basin landscape history, mapped data, planning guidance, conservation stories, photos, natural resource documents and reports, and links --- a rich collection of useful information to inform our collective efforts to improve the place we live.

The home page:

1. **Learning about the Willamette Story:** probably the most popular feature of the digital library is learning about the Willamette Basin's past, present and future through an inviting narrative that combines text, audio, and pictures. Be sure to look at the video that flys you through a part of the river basin from Eugene to Corvallis.
   * ❖ Willamette Basin Explorer home page
   * ❖ **About this site**[1]
   * ❖ **Willamette stories**
   * ❖ **Critical issues**
   * ❖ **Photos and videos**

2. **Navigation**: the Willamette Explorer has been designed to provide easy access to data, documents, photos, people resources, critical issues, etc.

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[1] Text highlighted in **bold red** are the actual names of the Willamette Basin Explorer buttons

- ❖ Using the search box
- ❖ Using the data button – **geospatial data collections**
- ❖ Reviewing the metadata
- ❖ Finding photographs – **photos and videos**
- ❖ Accessing reports, documents, articles – **publications**
- ❖ Knowing who to contact if you have a question or idea – **people and expertise**

3. Making a map: the two mapping tools are a main feature of the Willamette Basin Explorer. The mapping tools are accessible from the **mapping and reporting tools** button on the home page. The mapping tools have been designed to help you create GIS applications and online maps for the Willamette Basin, as well as smaller areas within the basin.

Two views of the mapping tool will be demonstrated to accommodate the needs of novices and experts alike. For the novice, using the **mapping tool wizard** requires three easy steps. First, select what to map. We have made a selection of pre-built maps relating to the key issues of the Willamette River Basin. Second, choose where you want the map centered. You can enter an address, a place name like a city or town name, or you can select a region like a county or a watershed. Once you have selected what and where to map, you get a "live" map. With the "live" map, you can zoom in and out, turn on and off map layers, and identify map features. You can also print or email your map.

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Willamette Basin
EXPLORER

Step 1: Pick what to map   Step 2: Pick where to map   Step 3: View map

Map size:

print   create PDF   email   Click on Map to: Zoom In   Zoom Out   Identify Map Features

LOCATION

The location **Benton County, Benton County** is shown on the map.

show | hide

LEGEND

Major Roads
4th field watersheds
Planned Trend 2050

1: Residential 0 - 4 DU/ac
2: Residential 4 - 9 DU/ac
3: Residential 9 - 16 DU/ac
4: Residential greater than 16 DU/ac
6: Commercial
7: Commercial/Industrial
8: Industrial
10: Residential and Commercial
11: Urban non-vegetated unknown
16: Rural structures
18: Railroad
19: Primary roads
20: Secondary roads
21: Light duty roads
24: Rural non-vegetated unknown
29: Main channel non-vegetated
32: Stream orders 5 - 7
33: Permanent lentic water
39: Topographic shadow
40: Snow
42: Barren
49: Urban tree overstory
51: Upland forest open
52: Upland forest semi- closed mixed
53: Forest closed hardwood
54: Forest closed mixed
55: Upland forest semi- closed conifer
56: Conifers 0 - 20 yrs
57: Forest closed conifer 21 - 40 yrs
58: Forest closed conifer 41 - 60 yrs
59: Forest closed conifer 61 - 80 yrs
60: Forest closed conifer 80 - 200 yrs
61: Forest closed conifer older than 200 yrs

Benton County
Upper Willamette

Map Center: 519770, 49411

View Entire Basin   Zoom Out   1 2 3 4 5 6 7 8 9 10   Zoom In +

Click on boxes below to turn on/off map layers. Click on a layer title for information about the layer.

Info Layers:
☐ Development Trend 2050
☐ Conservation Trend 2050
☑ Planned Trend 2050
☐ Land Use-Land Cover 1990

Overlays:
☐ Urban Growth Boundaries
☑ Watersheds – 4th field
☐ Watersheds – 5th field
☐ Watersheds – 6th field
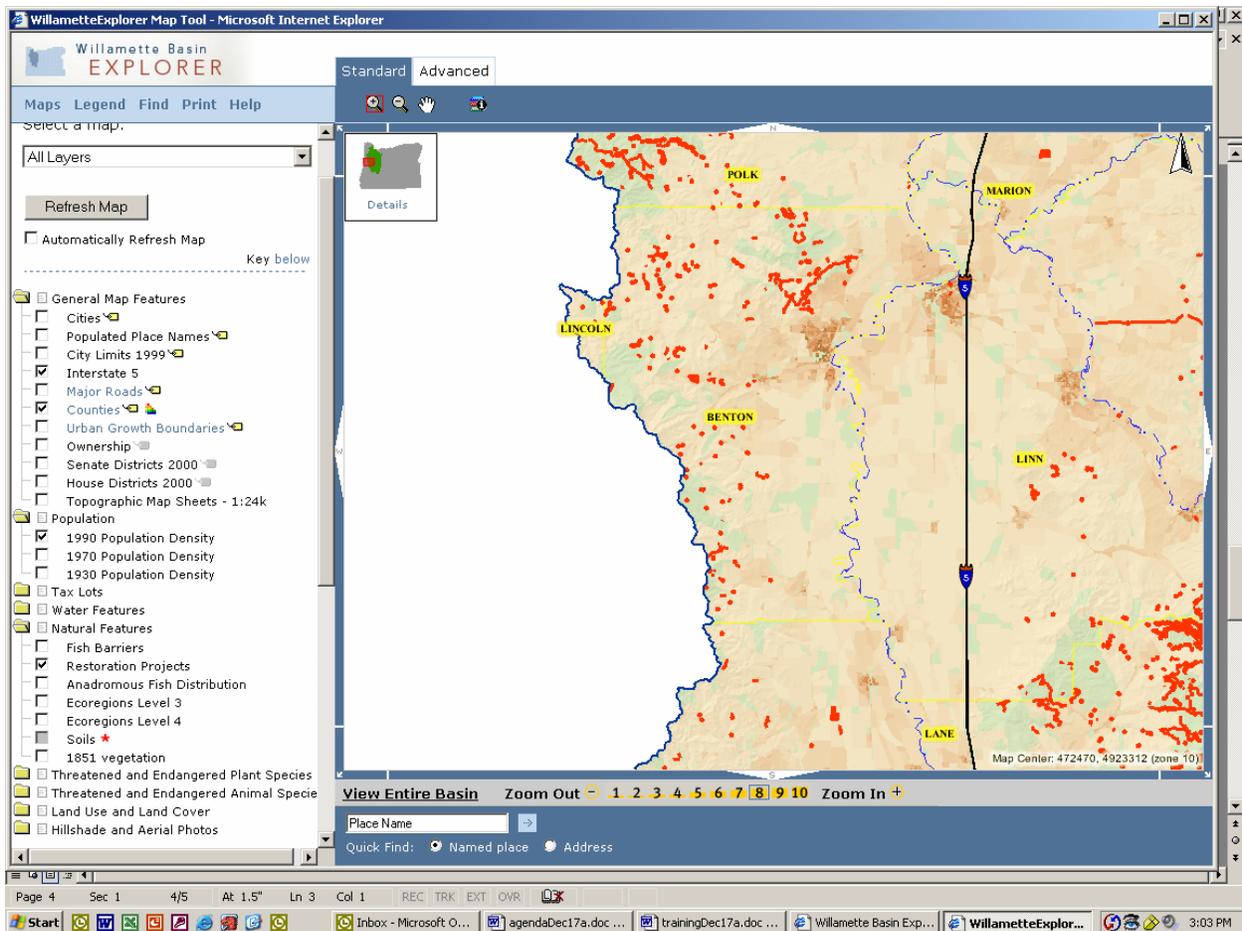☐ Counties
☑ Major Roads

Backgrounds:
○ TerraServer Aerial Photographs (USGS Digital Ortho-Quadrangles)
○ TerraServer Topo Maps (USGS Digital Raster Graphics)
◉ Shaded Relief
○ None

Start   Inbox - Microso...   Willamette Basi...   Internet Mappi...   agendaDec17a...   trainingDec17a...   WillametteEx...   2:14 PM

Use the **Advanced map tool** if you are familiar with basic GIS mapping techniques. You will be able to create maps using all available data layers and make use of the advanced tool set.

overlay of restoration projects and 1990 demographics

4. Generating a report: the newest addition to the Willamette Basin Explorer is the reporting tool. The reporting tool is accessible from the **Map and report tools** button on the home page. With the reporting tool you can generate a report on land use/land cover statistics and conservation/restoration opportunities for an area of interest, between two areas of interest, or for the entire basin.

5. Getting involved: the **Actions and Assistance** button on the home page provides links to a list of agencies that can provide landowners and the interested citizens with information about natural resources regulations in the Willamette Basin and permits that are needed before moving ahead with conservation or restoration projects. Guidance on upslope, riparian and wetland, and in-channel stream restoration are also provided.

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Name and affiliation:_____

Willamette Explorer Feedback: Your general thoughts

1. The Willamette Explorer will be useful for purposes of (check all that apply):
      a. Planning ___
      b. Education ___
      c. Policy evaluation and development ___
      d. Conservation and restoration activities ___
      e. Other _____

2. Did the site have the information you were expecting to find? _____
_____
_____
_____

3. Are there specific GIS data layers or other information sources we should consider adding?

      a. Layer name:_____
           Source: _____

      b. Layer name:_____
           Source: _____

      c. Layer name:_____
           Source: _____

4. Are there other statistical reports we should consider adding?

      f. Statistic:_____
         Source: _____

      g. Statistic:_____
         Source: _____

      h. Statistic:_____
         Source: _____

5. *Are there additional information or digital library features you would like to access?*
_____
_____
_____
_____
_____

6. *What Willamette Basin Explorer feature do you think will be the most useful for your work?*
_____
_____
_____

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