

Benton County Riparian and Wetlands Project

<http://www.co.benton.or.us/cd/riparian>

Inventory Outline

Inventory Outline Goal: The following outlines the work that Benton County staff is completing to inventory riparian corridors, streams, and wetlands within Benton County, Oregon. This outline will guide the inventory being prepared by Benton County Community Development and Geographic Information Systems staff, with review and input provided by the Benton County Riparian and Wetland Advisory Group (RWAG). This outline utilizes best existing data currently compiled by project staff.

1. INTRODUCTION

- a. Summarize Goal of Inventory: compile and create best existing data to locate and, as appropriate, evaluate resources for future planning, outreach, education
- b. Describe components of inventory: riparian, wetlands, etc.

2. STUDY AREA

- a. Provide overview of Benton County:
 - i. Major waterways, zoning/jurisdictions, population, etc.

3. RESOURCE SITES

- a. Describe general watershed scale characteristics:
 - i. General Zoning (Farm, Agricultural Industrial, Commercial, Forestry, Industrial, Urban Residential-UGB, City, Public Lands, Rural Residential)
 - ii. Approximate stream miles within each General Zoning area for different data sources (USGS) within each zone.
- b. Watershed resource areas (fifth field Federal Hydrologic mapping scale)
 - i. Marys River
 - ii. Muddy Creek
 - iii. Long Tom River
 - iv. Luckiamute River
 - v. Upper Alsea River
 - vi. Lower Alsea
 - vii. Five-River Lobster Creek
 - viii. Willamette River (Benton County boundary side)

4. RESOURCE DEFINITIONS

- a. Determine Ordinance Definitions for all applicable terms:
 - 1. Stream
 - 2. Lake
 - 3. Ditch
 - 4. Riparian Corridor
 - 5. Water Area
 - 6. Wetland
 - 7. Top of Bank
 - 8. Water Quality Impaired
 - 9. Fish Bearing
- ii. Provide matrix of Statewide Planning Goal 5 definitions (attached)
- iii. Provide matrix of proposed Statewide Planning Goal 6 definitions (attached)

5. INVENTORY METHODS

a. Review of Existing Information

- i.** Federal, State and Local data sources
- ii.** Utilize data that meets State and County (residents) Planning Goals
 - 1.** Goal 5 (spelled out in statute)
 - 2.** Goal 6 (gained from research on water quality impacts from land use)

6. FINDINGS

a. Mapping

- i.** Streams
 - 1.** Perennial vs. Intermittent vs. Ditch
 - 2.** Fish bearing streams
 - 3.** Water quality limited (e.g. Stated 303(d) listing)
 - 4.** Remote Sensing-LiDAR 'blue lines'—focus on Rural Residential
- ii.** Riparian Corridor
 - 1.** Buffers based on various mapping data scales
- iii.** Wetlands, Lakes and Ponds
 - 1.** Focus areas

b. Field Verification

- i.** Perennial, Intermittent, Ditch—select visits
- ii.** LiDAR 'blue lines'—select visits.
- iii.** Wetland Assessment
 - 1.** Focus Areas determined by RWAG
 - 2.** Document wetland issues and needs

c. Analysis

- i.** Review how inventory findings inform protection, outreach/education

7. CONCLUSIONS

- a.** Review Inventory work
- b.** Determine data gaps—room for improvement (e.g. field visits)
- c.** Assess inventory for meeting project objectives (protection, outreach/education)
- d.** Determine present and future land use impacts potential relative to resource quality in Benton County.

8. RECOMMENDATIONS

- a.** Future work (gaps)
- b.** Outreach, education
- c.** Agency networking to implement future rules/outreach (ODF, ODA)
- d.** Other

9. Appendices.

- a.** Riparian and Wetlands Advisory Group (RWAG) members
- b.** References
- c.** Map metadata
- d.** Outreach and education
 - i.** Handouts, flow charts, etc. for improving and supporting riparian and wetland functions (specific to location and resident goals)