

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

**Location of data point:** \_\_\_\_\_  
N of Garfield Avenue to west  
\_\_\_\_\_ of 9th Street \_\_\_\_\_

**GPS Location:** \_\_\_\_\_ 44.5734 N 123.2588 W \_\_\_\_\_

**Date:** \_\_\_\_\_ 10/3/2002 \_\_\_\_\_

**Map Number:** \_\_\_\_\_ W-12 \_\_\_\_\_

**On-site:**  **Off-Site:**

**Riparian Code:** \_\_\_\_\_ WC-DIX-R-1 \_\_\_\_\_

**Investigators:** \_\_\_\_\_ SE / ME \_\_\_\_\_

**Reach Length:** \_\_\_\_\_ 1650 feet \_\_\_\_\_

**Hydrologic Basin:** \_\_\_\_\_ DIXON CREEK \_\_\_\_\_

### WATER RESOURCE INFORMATION

**Water Resource:** Stream/River:  Width: \_\_\_\_\_ 12-18 \_\_\_\_\_ feet  
Lake/Pond:  Width: \_\_\_\_\_ - \_\_\_\_\_ feet  
Wetland:  Width: \_\_\_\_\_ - \_\_\_\_\_ feet

**LWI Wetland Code:** \_\_\_\_\_

**Water present year-round:** Yes  No

**Are salmonids present in the adjacent water resource?** Yes  No

**Is the water resource listed for temperature on DEQ's 303(d) list:** Yes  No

**Within FEMA-mapped 100-year floodplain:** Yes  No

**Mapped soil series:** \_\_\_\_\_ Bashaw clay \_\_\_\_\_

**Adjacent Land Uses?** (Check as many as needed)

Agriculture:  Residential:  Undeveloped:   
Commercial/Indus.:  Roads:  Forestry:   
Other:  \_\_\_\_\_

**Dominant tree species:** \_\_\_\_\_ Acer macrophyllum \_\_\_\_\_

**Comments:** \_\_\_\_\_ see next page \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Average slope in the riparian area:** (Question 1)

<10:1 (10%)  Between 10:1 (10%) and 5:1 (20%)  >5:1 (20%)

**Extent of impervious surface within the riparian area.** (Question 4)

<10%  10% - 25%  >25%

**Is the stream or water resource constricted by man-made features?** (Question 8)

Yes  No

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes  No

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation  Herbaceous vegetation  Bare ground

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes  No

**Large woody debris in riparian area?** (Question 15)

Yes  No

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40%  10% - 40%  <10%

**Degree of development or human caused disturbance.** (Question 19)

<25%  25% - 75%  >75%

**How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area?** (Question 5)

low, slight moderate  high, very high, severe

**What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** (Question 3)

Woody vegetation  Herbaceous vegetation  Bare ground

**Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** (Question 6)

Yes  No

**Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?**

Yes  No or no flood prone area present

**How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?**

More than 2  2 layers  1 layer or unvegetated

# Riparian Width Determination



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-1**

Date: 10/3/2002 Investigators: SE / ME

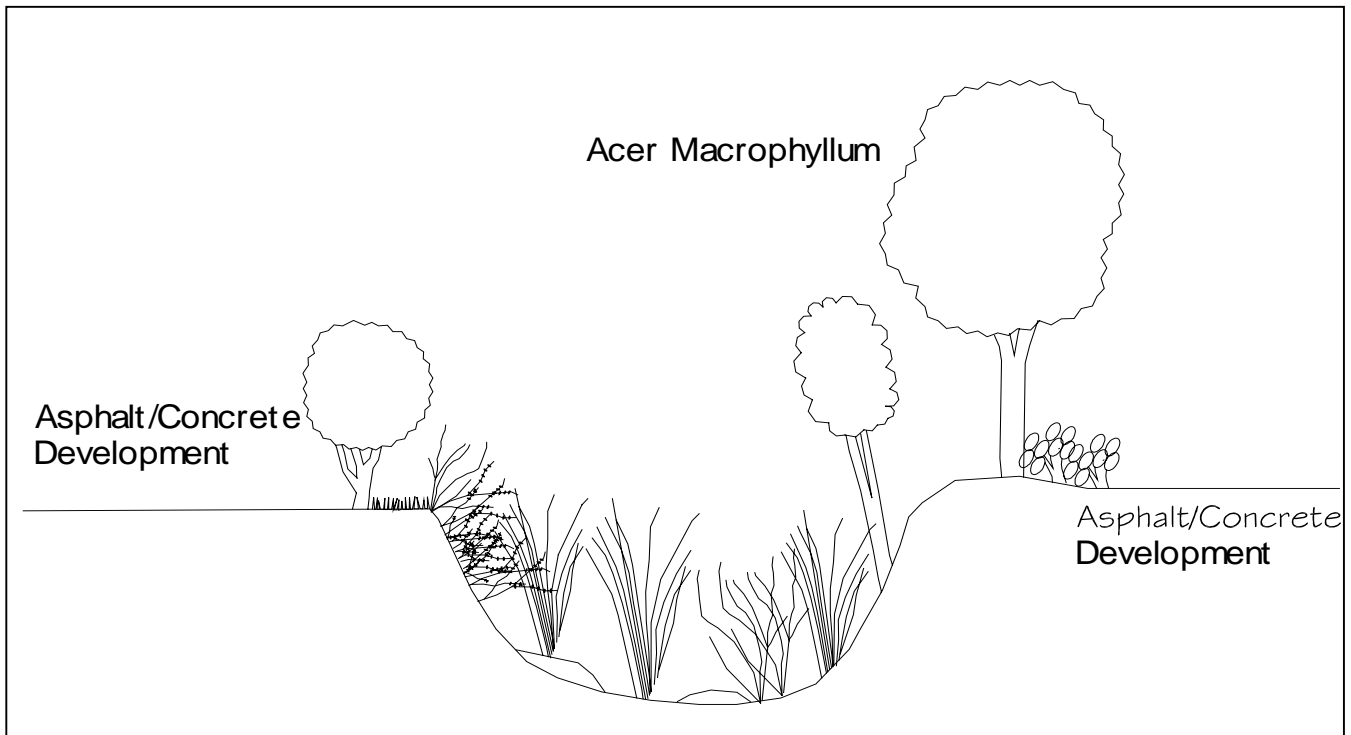
Dominant tree species: *Acer macrophyllum*

Comments: Riparian area for the portion of Dixon Creek that goes through developed commercial area. Associated delineation for area: DSL WD # 98-0005

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# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-1**

### WATER QUALITY

|  |       | Score    |
|--|-------|----------|
| <b>1. What is the average slope in the riparian area?</b>  |       |          |
| a. Less than 10:1 (10%) .....  | 3 pts | <b>3</b> |
| b. Between 10:1 (10%) and 5:1 (20%) .....  | 2 pts |          |
| c. Greater than 5:1 (20%) .....  | 1 pt  |          |
| <b>2. What is the dominant vegetation cover in the riparian area?</b>  |       |          |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <b>1</b> |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |          |
| c. Bare ground .....   | 1 pt  |          |
| <b>3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?</b>   |       |          |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <b>2</b> |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |          |
| c. Bare ground .....   | 1 pt  |          |
| <b>4. What is the extent of impervious surfaces within the riparian area?</b>  |       |          |
| a. Less than 10% .....   | 3 pts | <b>1</b> |
| b. Between 10% and 25% .....   | 2 pts |          |
| c. Greater than 25% .....  | 1 pt  |          |
| <b>5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.</b> |       |          |
| a. Low, slight, moderate .....   | 2 pts | <b>2</b> |
| b. High, severe, very high .....   | 1 pts |          |
| <b>Total Points:</b>   |       | <b>9</b> |

Function:    High (12-14 pts)    Medium (8-11 pts)    Low (5-7 pts)

FUNCTION IS:    **MEDIUM**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-1**

### FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

Score

- a. Yes ..... 3 pts
- b. No ..... 1 pt

3

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes ..... 3 pts
- b. No or no flood prone area present ..... 1 pt

3

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No ..... 3 pts
- b. Yes ..... 1 pt

1

**Total Points:** 7

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-1**

### THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- a. Yes ..... 3 pts
- b. No ..... 1 pt

Score

**1**

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high ..... 3 pts
- b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high ..... 2 pts
- c. Bare ground ..... 1 pt

**1**

11. Does woody vegetation hang over the edge of the water?

- a. Yes ..... 2 pts
- b. No ..... 1 pt

**2**

Total Points:

**4**

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

**LOW**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-1**

### WILDLIFE HABITAT

|  |       | Score    |
|--|-------|----------|
| <b>12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?</b>                           |       |          |
| a. More than 2 layers  | 3 pts | <u>2</u> |
| b. 2 layers  | 2 pts |          |
| c. 1 layer, or unvegetated   | 1 pt  |          |
| <b>13. What is the dominant vegetation layer in the riparian area?</b>   |       |          |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high                                    | 3 pts | <u>1</u> |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high                                     | 2 pts |          |
| c. Bare ground   | 1 pt  |          |
| <b>14. Does woody vegetation hang over the edge of the water?</b>  |       |          |
| a. Yes   | 2 pts | <u>2</u> |
| b. No  | 1 pt  |          |
| <b>15. Is large woody debris present within the riparian area?</b>   |       |          |
| a. Yes   | 3 pts | <u>1</u> |
| b. No  | 1 pt  |          |
| <b>16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?</b> |       |          |
| a. Greater than 40%  | 3 pts | <u>2</u> |
| b. Between 10% and 40%   | 2 pts |          |
| c. Less than 10%   | 1 pt  |          |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

### WILDLIFE HABITAT (continued)

RIPARIAN CODE

**WC-DIX-R-1**

17. Is surface water present throughout the year?

- a. Yes ..... 3 pts
- b. No ..... 1 pt

Score

**3**

18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?

- a. Yes ..... 3 pts
- b. No ..... 1 pt

**1**

19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?

- a. Less than 25% ..... 3 pts
- b. Between 25% and 75% ..... 2 pts
- c. Greater than 75% ..... 1 pt

**1**

**Total Points:**

**13**

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

**FUNCTION IS:**

**MEDIUM**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** DIXON

**Reach:** WC-DIX-R-1

**Size (acres):** 18.90

**Map:** W-8

**Length (feet):** 1650

**Dominant Cover Type:** BARE

**ARA Cover Type:** developed

**Other ARA Types** Open (<30% canopy) non-oak woods

**% of Total Cover** Trees: 10   **Shrubs** 5   **Herbs/Vines** 15   **Bare:** 70

**Dominant Cover Type**

**At Edge of Water:** HERBACEOUS

**Edge of Water ARA Type** Grass tall (ryegrass, meadow)

**Riparian System:** LOTIC

**Trees:**

Type: DECIDUOUS

Dominant Species: bigleaf maple (*Acer macrophyllum*)

Secondary Species: Red alder (*Alnus rubra*)

% Total Cover:  <10%    10%-50%    50%-90    >90%

% Invasive Cover:  <10%    10%-50%    50%-90    >90%

% Native Cover:  <10%    10%-50%    50%-90    >90%

**Shrubs/Sapling**

Type: DECIDUOUS

Dominant Species: NONE

Secondary Species: Scouler willow (*Salix scouleriana*), cherry (*Prunus* sp.)

% Total Cover:  <10%    10%-50%    50%-90    >90%

% Invasive Cover:  <10%    10%-50%    50%-90    >90%

% Native Cover:  <10%    10%-50%    50%-90    >90%

**Herbaceous**

Type: DECIDUOUS

Dominant Species: Himalayan blackberry (*Rubus discolor*)

Secondary Species: orchardgrass (*Dactylis glomerata*), slough sedge (*Carex obnupta*), soft-stem bulrush (*Scirpus validus*), vetch (*Vicia* sp.)

% Total Cover:  <10%    10%-50%    50%-90    >90%

% Invasive Cover:  <10%    10%-50%    50%-90    >90%

% Native Cover:  <10%    10%-50%    50%-90    >90%

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** DIXON

**Map:** W-8

**Reach:** WC-DIX-R-1

**RTE Species**

ORNHIC Plant Community:  None Noted  Listed Community Noted

ORNHIC or Benton Co. NSP List  None Detected  Potential  Listed Species Detected

**Riparian Condition Assessment**

Land Use within: COMMERCIAL

Land Use adjacent: COMMERCIAL

Infrastructure Impingement: FULLY IMPINGED

In Channel Alteration: HEAVILY ALTERED

LWD Recruitment Potential: LOW

Shade Potential: NONE

RCA Functional Designation: Non-Functional

**Restoration Potential**

Adjacent slopes of 15% or greater  <10%  10%-50%  50%-90  >90%

Undeveloped land within 50ft of top of bank  <10%  10%-50%  50%-90  >90%

Within 100-yr floodplain:  <10%  10%-50%  50%-90  >90%

Low quality wetlands or hydric soils:  <10%  10%-50%  50%-90  >90%

Adjacent landscape areas:  <10%  10%-50%  50%-90  >90%

Opportunities: TREE AND SHRUB PLANTINGS IN RIPARIAN AREA

Current Efforts NONE

**COMMENTS** STREAM GOES THROUGH COMMERCIAL AREA. VERY DISTURBED CORRIDOR.

# Riparian Characterization Form



## Corvallis Riparian Inventory

| GENERAL INFORMATION   |   |
|---|---|
| <b>Location of data point:</b><br>W. of Glen Ridge Dr., N. of<br>Ponderosa Ave., S. of Acacia Dr. | <b>GPS Location:</b> 44.5954 N 123.3017 W |
| <b>Date:</b> 8/23/2002  | <b>Map Number:</b> W-3                    |
| <b>On-site:</b> <input checked="" type="checkbox"/> <b>Off-Site:</b> <input type="checkbox"/>     | <b>Riparian Code:</b> WC-DIX-R-2          |
| <b>Investigators:</b> SE/ME   | <b>Reach Length:</b> 1350 feet            |
|   | <b>Hydrologic Basin:</b> DIXON CREEK      |

| WATER RESOURCE INFORMATION   |   |
|--|---|
| <b>Water Resource:</b> Stream/River: <input checked="" type="checkbox"/>                             | <b>Width:</b> 4-6 feet  |
| Lake/Pond: <input type="checkbox"/>  | <b>Width:</b> _____ feet  |
| Wetland: <input type="checkbox"/>  | <b>Width:</b> _____ feet  |
| <b>LWI Wetland Code:</b> _____   |   |
| <b>Water present year-round:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |   |
| <b>Are salmonids present in the adjacent water resource?</b>   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| <b>Is the water resource listed for temperature on DEQ's 303(d) list:</b>                            | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |

**Within FEMA-mapped 100-year floodplain:** Yes  No

**Mapped soil series:** Bashaw clay

**Adjacent Land Uses?** (Check as many as needed)

|   |  |  |
|---|--|--|
| Agriculture: <input type="checkbox"/>       | Residential: <input checked="" type="checkbox"/> | Undeveloped: <input checked="" type="checkbox"/> |
| Commercial/Indus.: <input type="checkbox"/> | Roads: <input checked="" type="checkbox"/>       | Forestry: <input type="checkbox"/>               |
|   | Other: <input type="checkbox"/>                  |  |

**Dominant tree species:** ALNUS RUBRA

**Comments:** See next page

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**Average slope in the riparian area:** (Question 1)

<10:1 (10%)  Between 10:1 (10%) and 5:1 (20%)  >5:1 (20%)

**Extent of impervious surface within the riparian area.** (Question 4)

<10%  10% - 25%  >25%

**Is the stream or water resource constricted by man-made features?** (Question 8)

Yes  No

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes  No

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation  Herbaceous vegetation  Bare ground

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes  No

**Large woody debris in riparian area?** (Question 15)

Yes  No

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40%  10% - 40%  <10%

**Degree of development or human caused disturbance.** (Question 19)

<25%  25% - 75%  >75%

**How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area?** (Question 5)

low, slight moderate  high, very high, severe

**What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** (Question 3)

Woody vegetation  Herbaceous vegetation  Bare ground

**Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** (Question 6)

Yes  No

**Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?**

Yes  No or no flood prone area present

**How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?**

More than 2  2 layers  1 layer or unvegetated

# Riparian Width Determination



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-2**

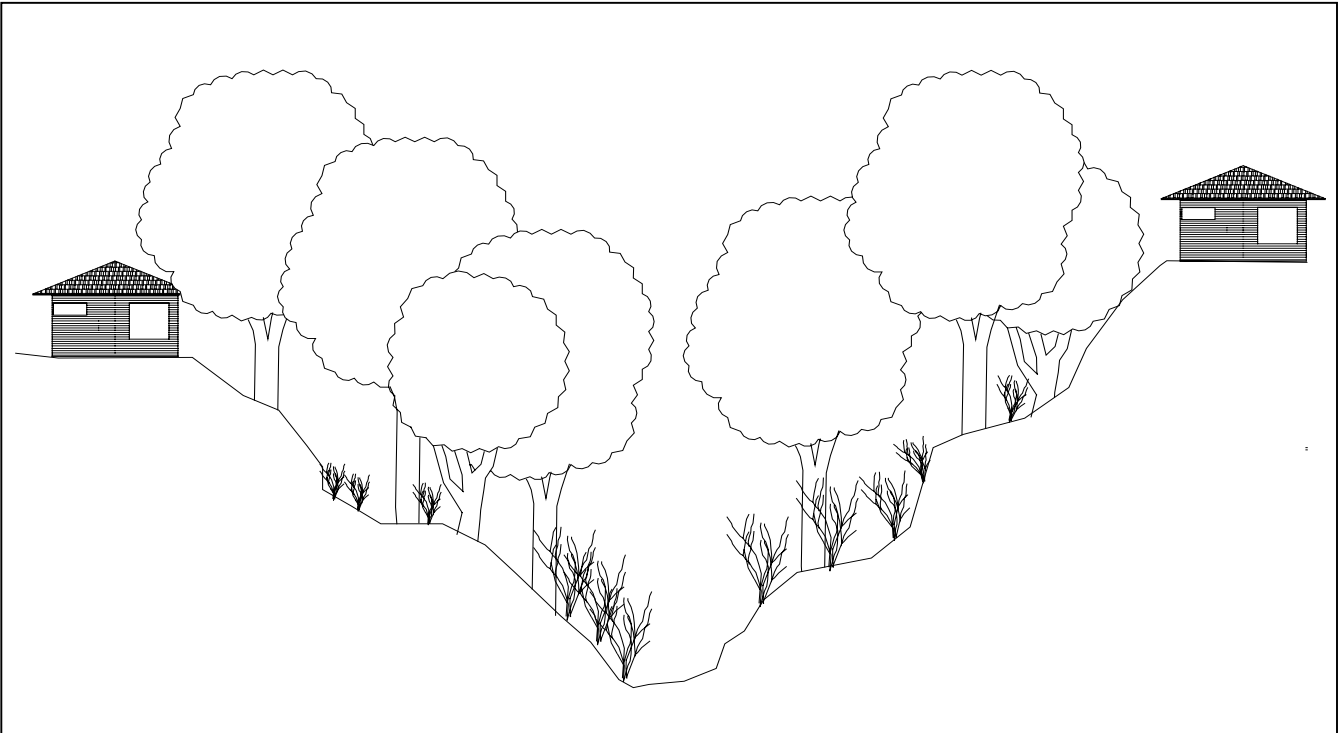
Date: 8/23/2002 Investigators: SE/ME  
Dominant tree species: ALNUS RUBRA

Comments: This portion of the Dixon Creek riparian area is just inside (south) of the urban growth boundary. The riparian area has residential homes immediately adjacent to the east and west.

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# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-2**

### WATER QUALITY

|  |       | Score            |
|--|-------|------------------|
| <b>1. What is the average slope in the riparian area?</b>  |       |                  |
| a. Less than 10:1 (10%) .....  | 3 pts | <u>2</u>         |
| b. Between 10:1 (10%) and 5:1 (20%) .....  | 2 pts |                  |
| c. Greater than 5:1 (20%) .....  | 1 pt  |                  |
| <b>2. What is the dominant vegetation cover in the riparian area?</b>  |       |                  |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <u>3</u>         |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |                  |
| c. Bare ground .....   | 1 pt  |                  |
| <b>3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?</b>   |       |                  |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <u>3</u>         |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |                  |
| c. Bare ground .....   | 1 pt  |                  |
| <b>4. What is the extent of impervious surfaces within the riparian area?</b>  |       |                  |
| a. Less than 10% .....   | 3 pts | <u>1</u>         |
| b. Between 10% and 25% .....   | 2 pts |                  |
| c. Greater than 25% .....  | 1 pt  |                  |
| <b>5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.</b> |       |                  |
| a. Low, slight, moderate .....   | 2 pts | <u>2</u>         |
| b. High, severe, very high .....   | 1 pts |                  |
| <b>Total Points:</b>   |       | <u><b>11</b></u> |

**Function:**    High (12-14 pts)    Medium (8-11 pts)    Low (5-7 pts)

**FUNCTION IS:**    **MEDIUM**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-2**

### FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

Score

- a. Yes ..... 3 pts
- b. No ..... 1 pt

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes ..... 3 pts
- b. No or no flood prone area present ..... 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No ..... 3 pts
- b. Yes ..... 1 pt

1

**Total Points:** 3

Function:    High (8-9 pts)    Medium (5-7 pts)    Low (3-4 pts)

**FUNCTION IS:** **LOW**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-2**

### THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- a. Yes ..... 3 pts
- b. No ..... 1 pt

Score

**3**

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high ..... 3 pts
- b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high ..... 2 pts
- c. Bare ground ..... 1 pt

**3**

11. Does woody vegetation hang over the edge of the water?

- a. Yes ..... 2 pts
- b. No ..... 1 pt

**2**

Total Points:

**8**

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

**HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-2**

### WILDLIFE HABITAT

|  |       | Score    |
|--|-------|----------|
| <b>12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?</b>                           |       |          |
| a. More than 2 layers  | 3 pts | <u>3</u> |
| b. 2 layers  | 2 pts |          |
| c. 1 layer, or unvegetated   | 1 pt  |          |
| <b>13. What is the dominant vegetation layer in the riparian area?</b>   |       |          |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high                                    | 3 pts | <u>3</u> |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high                                     | 2 pts |          |
| c. Bare ground   | 1 pt  |          |
| <b>14. Does woody vegetation hang over the edge of the water?</b>  |       |          |
| a. Yes   | 2 pts | <u>2</u> |
| b. No  | 1 pt  |          |
| <b>15. Is large woody debris present within the riparian area?</b>   |       |          |
| a. Yes   | 3 pts | <u>1</u> |
| b. No  | 1 pt  |          |
| <b>16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?</b> |       |          |
| a. Greater than 40%  | 3 pts | <u>3</u> |
| b. Between 10% and 40%   | 2 pts |          |
| c. Less than 10%   | 1 pt  |          |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-2**

### WILDLIFE HABITAT (continued)

|   |       | Score     |
|---|-------|-----------|
| <b>17. Is surface water present throughout the year?</b>  |       |           |
| a. Yes  | 3 pts | <b>3</b>  |
| b. No   | 1 pt  |           |
| <b>18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?</b>                |       |           |
| a. Yes  | 3 pts | <b>1</b>  |
| b. No   | 1 pt  |           |
| <b>19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?</b> |       |           |
| a. Less than 25%  | 3 pts | <b>2</b>  |
| b. Between 25% and 75%  | 2 pts |           |
| c. Greater than 75%   | 1 pt  |           |
| <b>Total Points:</b>  |       | <b>18</b> |

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

**FUNCTION IS: MEDIUM**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

|  |                          |                            |
|--|--------------------------|----------------------------|
| <b>Basin:</b> DIXON  | <b>Reach:</b> WC-DIX-R-2 | <b>Size (acres):</b> 15.38 |
| <b>Map:</b> W-3  |                          | <b>Length (feet):</b> 1350 |
| <b>Dominant Cover Type:</b> WOODY  |                          |                            |
| <b>ARA Cover Type:</b> Mixed Woodland 30-70% closed canopy   |                          |                            |
| <b>Other ARA Types:</b> Developed  |                          |                            |
| <b>% of Total Cover:</b> Trees: 20    Shrubs: 25    Herbs/Vines: 10    Bare: 45  |                          |                            |
| <b>Dominant Cover Type At Edge of Water:</b> WOODY   |                          |                            |
| <b>Edge of Water ARA Type:</b> Mixed Woodland 30-70% closed canopy   |                          |                            |
| <b>Riparian System:</b> LOTIC  |                          |                            |
| <b>Trees:</b>  |                          |                            |
| Type: DECIDUOUS  |                          |                            |
| Dominant Species: Red alder ( <i>Alnus rubra</i> )   |                          |                            |
| Secondary Species: Bigleaf maple ( <i>Acer macropylum</i> ), Oregon ash ( <i>Fraxinus latifolia</i> ), Oregon white oak ( <i>Quercus garryana</i> ), domestic apple ( <i>Pyrus malus</i> ), wild plum ( <i>Prunus sp.</i> )  |                          |                            |
| % Total Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                          |                            |
| % Invasive Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                          |                            |
| % Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%  |                          |                            |
| <b>Shrubs/Sapling</b>  |                          |                            |
| Type: DECIDUOUS  |                          |                            |
| Dominant Species: Himalayan blackberry ( <i>Rubus discolor</i> )   |                          |                            |
| Secondary Species: rose ( <i>Rosa sp.</i> ), Pacific ninebark ( <i>Physocarpus capitatus</i> ), Scouler willow ( <i>Salix scouleriana</i> ), tall Oregon grape ( <i>Berberis aquifolium</i> ), Himalayan blackberry ( <i>Rubus discolor</i> ), beaked hazelnut ( <i>Corvulus cornuta</i> ) |                          |                            |
| % Total Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                          |                            |
| % Invasive Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                          |                            |
| % Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%  |                          |                            |
| <b>Herbaceous</b>  |                          |                            |
| Type: DECIDUOUS  |                          |                            |
| Dominant Species: bittersweet nightshade ( <i>Solanum dulcamar</i> )   |                          |                            |
| Secondary Species: Queen Anne's lace ( <i>Daucus carota</i> ), Canada thistle ( <i>Cirsium arvense</i> ), field horsetail ( <i>Equisetum arvense</i> ), slough sedge ( <i>Carex obnupta</i> ), tall fescue ( <i>Festuca arundinacea</i> ), water parsley ( <i>Oenanthe sarmentosa</i> )    |                          |                            |
| % Total Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                          |                            |
| % Invasive Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input checked="" type="radio"/> >90%  |                          |                            |
| % Native Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                          |                            |

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** DIXON

**Map:** W-3

**Reach:** WC-DIX-R-2

**RTE Species**

ORNHIC Plant Community:  None Noted  Listed Community Noted

ORNHIC or Benton Co. NSP List  None Detected  Potential  Listed Species Detected

**Riparian Condition Assessment**

Land Use within: RESIDENTIAL

Land Use adjacent: RESIDENTIAL

Infrastructure Impingement: FULLY IMPINGED

In Channel Alteration: HEAVILY ALTERED

LWD Recruitment Potential: MODERATE

Shade Potential: HIGH

RCA Functional Designation: Nearly Fully Functional

**Restoration Potential**

Adjacent slopes of 15% or greater  <10%  10%-50%  50%-90  >90%

Undeveloped land within 50ft of top of bank  <10%  10%-50%  50%-90  >90%

Within 100-yr floodplain:  <10%  10%-50%  50%-90  >90%

Low quality wetlands or hydric soils:  <10%  10%-50%  50%-90  >90%

Adjacent landscape areas:  <10%  10%-50%  50%-90  >90%

Opportunities: REMOVAL OF Himalayan blackberry (*Rubus discolor*) AND REPLACEMENT WITH NATIVE SHRUBS

Current Efforts NONE OBSERVED

**COMMENTS** STREAM CULVERTED AT SEVERAL LOCATIONS THROUGHOUT CORRIDOR FOR ROAD CROSSINGS TO ACCESS RESIDENTIAL HOMES. HOMES ON EITHER SIDE OF STREAM BANKS WITHIN 50FT.

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

**Location of data point:** East of new developments  
east of 29th Street

**GPS Location:** 44.6033 N 123.2845 W

**Date:** 8/14/2002

**Map Number:** W-2

**On-site:**  **Off-Site:**

**Riparian Code:** WC-DIX-R-3 (L)

**Investigators:** SE/LW

**Reach Length:** 3000 feet

**Hydrologic Basin:** DIXON CREEK

### WATER RESOURCE INFORMATION

**Water Resource:** Stream/River:  Width: 2-6 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 50 feet

**LWI Wetland Code:** WC-DIX-W-1

**Water present year-round:** Yes  No

**Are salmonids present in the adjacent water resource?** Yes  No

**Is the water resource listed for temperature on DEQ's 303(d) list:** Yes  No

**Within FEMA-mapped 100-year floodplain:** Yes  No

**Mapped soil series:** Bashaw clay, Philomath silty clay

**Adjacent Land Uses?** (Check as many as needed)

Agriculture:  Residential:  Undeveloped:   
Commercial/Indus.:  Roads:  Forestry:   
Other:

**Dominant tree species:** Quercus garryana

**Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Average slope in the riparian area:** (Question 1)

<10:1 (10%)  Between 10:1 (10%) and 5:1 (20%)  >5:1 (20%)

**Extent of impervious surface within the riparian area.** (Question 4)

<10%  10% - 25%  >25%

**Is the stream or water resource constricted by man-made features?** (Question 8)

Yes  No

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes  No

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation  Herbaceous vegetation  Bare ground

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes  No

**Large woody debris in riparian area?** (Question 15)

Yes  No

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40%  10% - 40%  <10%

**Degree of development or human caused disturbance.** (Question 19)

<25%  25% - 75%  >75%

**How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area?** (Question 5)

low, slight moderate  high, very high, severe

**What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** (Question 3)

Woody vegetation  Herbaceous vegetation  Bare ground

**Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** (Question 6)

Yes  No

**Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?**

Yes  No or no flood prone area present

**How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?**

More than 2  2 layers  1 layer or unvegetated

# Riparian Width Determination

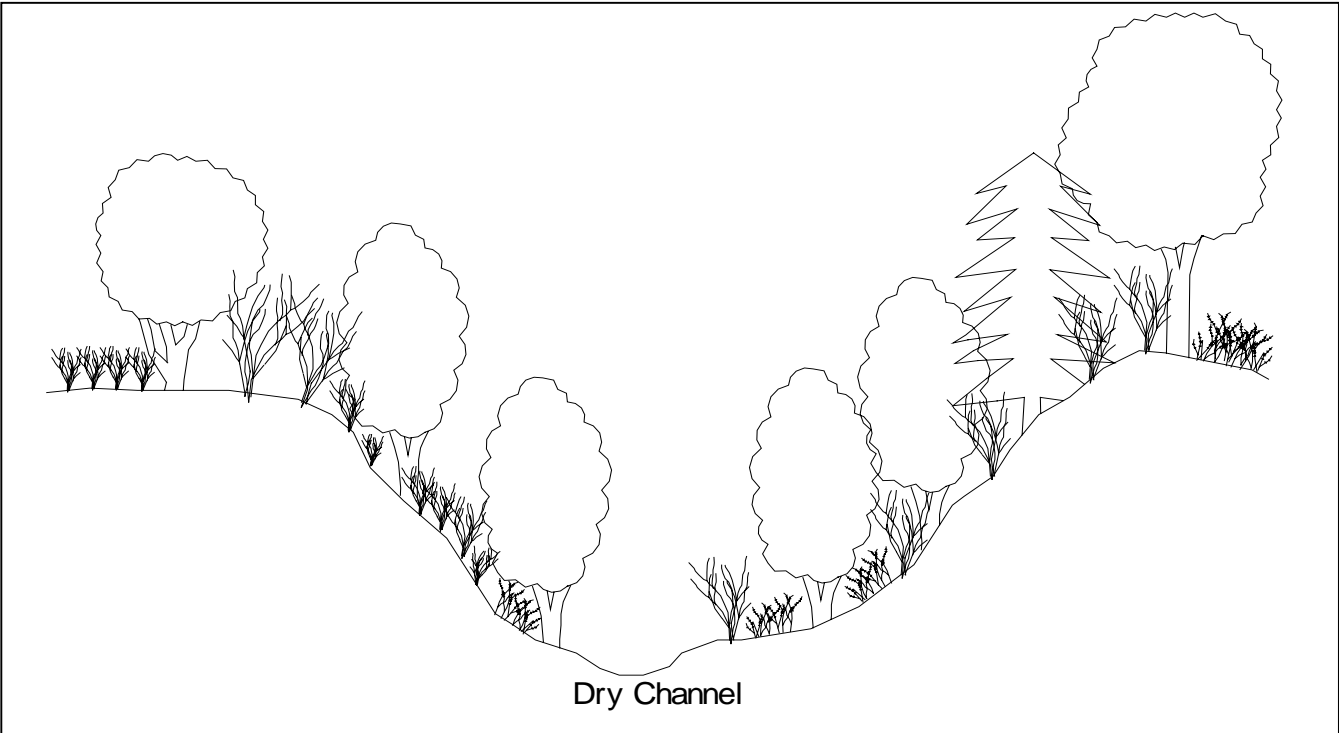


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-3 (L)**

**Date:** 8/14/2002      **Investigators:** SE/LW  
**Dominant tree species:** *Quercus garryana*

**Comments:** Treed portion of riparian is 100 to 125 feet wide on both sides.  
Remainder of corridor is grassy meadow. South end of right side is somewhat encroached  
by residential development. Deer are plentiful in this area.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-3 (L)**

### WATER QUALITY

|  |       | Score     |
|--|-------|-----------|
| <b>1. What is the average slope in the riparian area?</b>  |       |           |
| a. Less than 10:1 (10%) .....  | 3 pts | <b>2</b>  |
| b. Between 10:1 (10%) and 5:1 (20%) .....  | 2 pts |           |
| c. Greater than 5:1 (20%) .....  | 1 pt  |           |
| <b>2. What is the dominant vegetation cover in the riparian area?</b>  |       |           |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <b>3</b>  |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |           |
| c. Bare ground .....   | 1 pt  |           |
| <b>3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?</b>   |       |           |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <b>3</b>  |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |           |
| c. Bare ground .....   | 1 pt  |           |
| <b>4. What is the extent of impervious surfaces within the riparian area?</b>  |       |           |
| a. Less than 10% .....   | 3 pts | <b>3</b>  |
| b. Between 10% and 25% .....   | 2 pts |           |
| c. Greater than 25% .....  | 1 pt  |           |
| <b>5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.</b> |       |           |
| a. Low, slight, moderate .....   | 2 pts | <b>2</b>  |
| b. High, severe, very high .....   | 1 pts |           |
| <b>Total Points:</b>   |       | <b>13</b> |

**Function:**    High (12-14 pts)    Medium (8-11 pts)    Low (5-7 pts)

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-3 (L)**

### FLOOD MANAGEMENT

|   | Score           |
|---|-----------------|
| <p>6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?</p> <p>a. Yes ..... 3 pts</p> <p>b. No ..... 1 pt</p> | <p><u>1</u></p> |
| <p>7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?</p> <p>a. Yes ..... 3 pts</p> <p>b. No or no flood prone area present ..... 1 pt</p>           | <p><u>1</u></p> |
| <p>8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?</p> <p>a. No ..... 3 pts</p> <p>b. Yes ..... 1 pt</p>  | <p><u>3</u></p> |
| <b>Total Points:</b>  | <p><u>5</u></p> |

Function:    High (8-9 pts)    Medium (5-7 pts)    Low (3-4 pts)

**FUNCTION IS:**    **MEDIUM**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-3 (L)**

### THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- a. Yes ..... 3 pts
- b. No ..... 1 pt

Score

**3**

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high ..... 3 pts
- b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high ..... 2 pts
- c. Bare ground ..... 1 pt

**3**

11. Does woody vegetation hang over the edge of the water?

- a. Yes ..... 2 pts
- b. No ..... 1 pt

**2**

Total Points:

**8**

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

**HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

WC-DIX-R-3 (L)

### WILDLIFE HABITAT

|  |       | Score    |
|--|-------|----------|
| <b>12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?</b>                           |       |          |
| a. More than 2 layers  | 3 pts | <u>3</u> |
| b. 2 layers  | 2 pts |          |
| c. 1 layer, or unvegetated   | 1 pt  |          |
| <b>13. What is the dominant vegetation layer in the riparian area?</b>   |       |          |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high                                    | 3 pts | <u>3</u> |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high                                     | 2 pts |          |
| c. Bare ground   | 1 pt  |          |
| <b>14. Does woody vegetation hang over the edge of the water?</b>  |       |          |
| a. Yes   | 2 pts | <u>2</u> |
| b. No  | 1 pt  |          |
| <b>15. Is large woody debris present within the riparian area?</b>   |       |          |
| a. Yes   | 3 pts | <u>3</u> |
| b. No  | 1 pt  |          |
| <b>16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?</b> |       |          |
| a. Greater than 40%  | 3 pts | <u>3</u> |
| b. Between 10% and 40%   | 2 pts |          |
| c. Less than 10%   | 1 pt  |          |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-3 (L)**

### WILDLIFE HABITAT (continued)

|   |       | Score     |
|---|-------|-----------|
| <b>17. Is surface water present throughout the year?</b>  |       |           |
| a. Yes  | 3 pts | <b>1</b>  |
| b. No   | 1 pt  |           |
| <b>18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?</b>                |       |           |
| a. Yes  | 3 pts | <b>3</b>  |
| b. No   | 1 pt  |           |
| <b>19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?</b> |       |           |
| a. Less than 25%  | 3 pts | <b>3</b>  |
| b. Between 25% and 75%  | 2 pts |           |
| c. Greater than 75%   | 1 pt  |           |
| <b>Total Points:</b>  |       | <b>21</b> |

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

**FUNCTION IS: HIGH**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

|  |                           |                            |
|--|---------------------------|----------------------------|
| <b>Basin:</b> DIXON  | <b>Reach:</b> WC-DIX-R-3L | <b>Size (acres):</b> 9.92  |
| <b>Map:</b> W-2  |                           | <b>Length (feet):</b> 3000 |
| <b>Dominant Cover Type:</b> WOODY  |                           |                            |
| <b>ARA Cover Type:</b> Mixed Forest >70% closed canopy   |                           |                            |
| <b>Other ARA Types</b> Open (<30% canopy) non-oak woods, Grass natural/dry prairie   |                           |                            |
| <b>% of Total Cover</b> Trees: 30 <b>Shrubs</b> 10 <b>Herbs/Vines</b> 60 <b>Bare:</b> 0  |                           |                            |
| <b>Dominant Cover Type</b>   |                           |                            |
| <b>At Edge of Water:</b> WOODY   |                           |                            |
| <b>Edge of Water ARA Type</b> Mixed Forest >70% closed canopy  |                           |                            |
| <b>Riparian System:</b> LOTIC  |                           |                            |
| <b>Trees:</b>  |                           |                            |
| Type: MIXED  |                           |                            |
| Dominant Species: Oregon white oak ( <i>Quercus garryana</i> )   |                           |                            |
| Secondary Species: Bigleaf maple ( <i>Acer macrophyllum</i> ), Red alder ( <i>Alnus rubra</i> ), Douglas fir ( <i>Pseudotsuga menziesii</i> ),   |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Invasive Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| <b>Shrubs/Sapling</b>  |                           |                            |
| Type: DECIDUOUS  |                           |                            |
| Dominant Species: Common snowberry ( <i>Symphoricarpos albus</i> )   |                           |                            |
| Secondary Species: rose ( <i>Rosa</i> sp.), beaked hazelnut ( <i>Corylus cornuta</i> ), poison oak ( <i>Rhus diversiloba</i> ),  |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Invasive Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| <b>Herbaceous</b>  |                           |                            |
| Type: DECIDUOUS  |                           |                            |
| Dominant Species: tall fescue ( <i>Festuca arundinacea</i> )   |                           |                            |
| Secondary Species: tall fescue ( <i>Festuca arundinacea</i> ), Himalayan blackberry ( <i>Rubus discolor</i> ), poison oak ( <i>Rhus diversiloba</i> ), falsebrome ( <i>Brachypodium sylvaticum</i> ), Pacific sanicle ( <i>Sanicula crassicaulis</i> ), common centaury ( <i>Centarium umbellatum</i> ), bull thistle ( <i>Cirsium vulgare</i> ) |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input checked="" type="radio"/> >90%   |                           |                            |
| % Invasive Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Native Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** DIXON

**Map:** W-2

**Reach:** WC-DIX-R-3L

**RTE Species**

ORNHIC Plant Community:  None Noted  Listed Community Noted

ORNHIC or Benton Co. NSP List  None Detected  Potential  Listed Species Detected

**Riparian Condition Assessment**

Land Use within: UNDEVELOPED

Land Use adjacent: UNDEVELOPED

Infrastructure Impingement: NON-IMPINGED

In Channel Alteration: UNALTERED

LWD Recruitment Potential: MODERATE

Shade Potential: HIGH

RCA Functional Designation: Fully Functional

**Restoration Potential**

Adjacent slopes of 15% or greater  <10%  10%-50%  50%-90  >90%

Undeveloped land within 50ft of top of bank  <10%  10%-50%  50%-90  >90%

Within 100-yr floodplain:  <10%  10%-50%  50%-90  >90%

Low quality wetlands or hydric soils:  <10%  10%-50%  50%-90  >90%

Adjacent landscape areas:  <10%  10%-50%  50%-90  >90%

Opportunities: NONE - NOT DEGRADED SUFFICIENTLY TO REQUIRE ENHANCEMENT

Current Efforts NONE OBSERVED

**COMMENTS**

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: \_\_\_\_\_  
\_\_\_\_\_

Date: 8/14/2002

On-site:  Off-Site:

Investigators: SE/LW

GPS Location: 44.6033 N 123.2845 W

Map Number: W-2

Riparian Code: WC-DIX-R-3 (R)

Reach Length: 3000 feet

Hydrologic Basin: DIXON CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 2-6 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 20-420 feet

LWI Wetland Code: WC-DIX-W-1

Water present year-round: Yes  No

Are salmonids present in the adjacent water resource? Yes  No

Is the water resource listed for temperature on DEQ's 303(d) list: Yes  No

Within FEMA-mapped 100-year floodplain: Yes  No

Mapped soil series: Bashaw clay, Philomath silty clay

Adjacent Land Uses? (Check as many as needed)

Agriculture:  Residential:  Undeveloped:   
Commercial/Indus.:  Roads:  Forestry:   
Other:

Dominant tree species: QUERCUS GARRYANA

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Average slope in the riparian area:** (Question 1)

<10:1 (10%)  Between 10:1 (10%) and 5:1 (20%)  >5:1 (20%)

**Extent of impervious surface within the riparian area.** (Question 4)

<10%  10% - 25%  >25%

**Is the stream or water resource constricted by man-made features?** (Question 8)

Yes  No

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes  No

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation  Herbaceous vegetation  Bare ground

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes  No

**Large woody debris in riparian area?** (Question 15)

Yes  No

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40%  10% - 40%  <10%

**Degree of development or human caused disturbance.** (Question 19)

<25%  25% - 75%  >75%

**How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area?** (Question 5)

low, slight moderate  high, very high, severe

**What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** (Question 3)

Woody vegetation  Herbaceous vegetation  Bare ground

**Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** (Question 6)

Yes  No

**Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?**

Yes  No or no flood prone area present

**How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?**

More than 2  2 layers  1 layer or unvegetated

# Riparian Width Determination

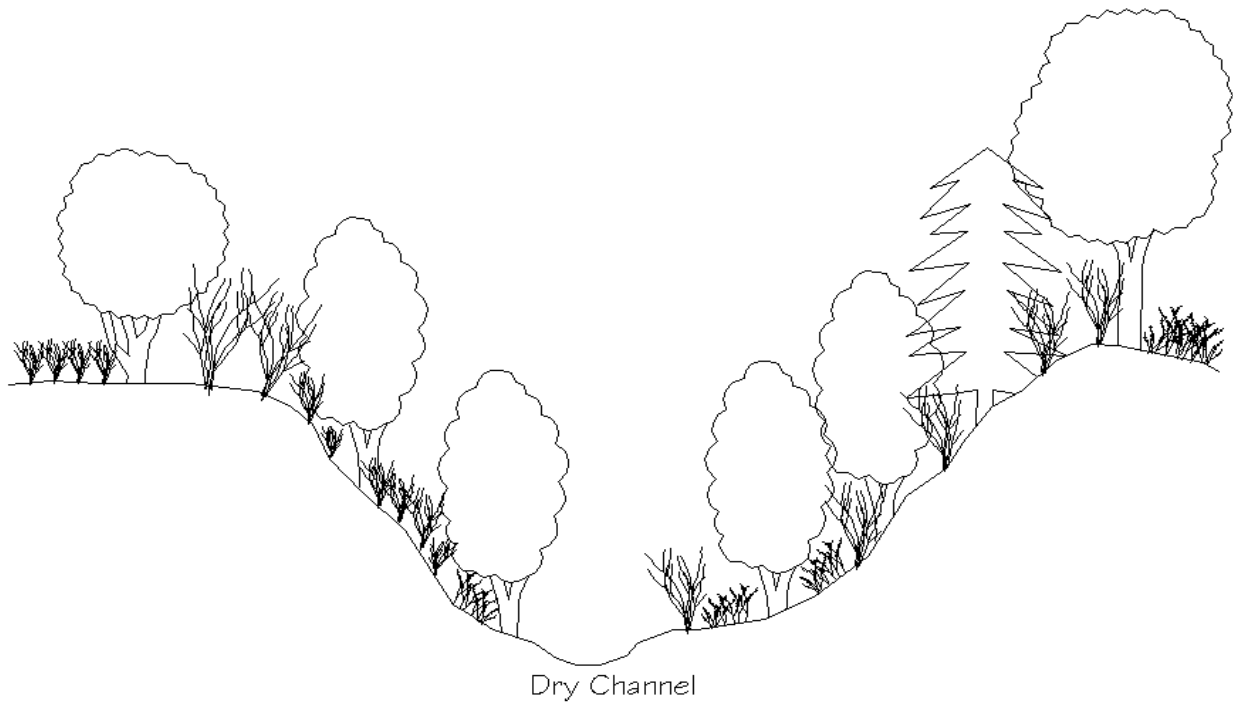


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-3 (R)**

Date: 8/14/2002 Investigators: SE/LW  
Dominant tree species: *Quercus garryana*

Comments: Treed portion of riparian is 100 to 125 feet wide on both sides.  
Remainder of corridor is grassy meadow. South end of right side is somewhat encroached  
by residential development. Deer are plentiful in this area.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-3 (R)**

## WATER QUALITY

|  |       | Score            |
|--|-------|------------------|
| <b>1. What is the average slope in the riparian area?</b>  |       |                  |
| a. Less than 10:1 (10%) .....  | 3 pts | <u>2</u>         |
| b. Between 10:1 (10%) and 5:1 (20%) .....  | 2 pts |                  |
| c. Greater than 5:1 (20%) .....  | 1 pt  |                  |
| <b>2. What is the dominant vegetation cover in the riparian area?</b>  |       |                  |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <u>3</u>         |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |                  |
| c. Bare ground .....   | 1 pt  |                  |
| <b>3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?</b>   |       |                  |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <u>3</u>         |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |                  |
| c. Bare ground .....   | 1 pt  |                  |
| <b>4. What is the extent of impervious surfaces within the riparian area?</b>  |       |                  |
| a. Less than 10% .....   | 3 pts | <u>3</u>         |
| b. Between 10% and 25% .....   | 2 pts |                  |
| c. Greater than 25% .....  | 1 pt  |                  |
| <b>5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.</b> |       |                  |
| a. Low, slight, moderate .....   | 2 pts | <u>2</u>         |
| b. High, severe, very high .....   | 1 pts |                  |
| <b>Total Points:</b>   |       | <u><b>13</b></u> |

**Function:**    High (12-14 pts)    Medium (8-11 pts)    Low (5-7 pts)

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-3 (R)**

### FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

Score

- a. Yes ..... 3 pts
- b. No ..... 1 pt

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes ..... 3 pts
- b. No or no flood prone area present ..... 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No ..... 3 pts
- b. Yes ..... 1 pt

3

**Total Points:** 5

**Function:** High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-3 (R)**

### THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- a. Yes ..... 3 pts
- b. No ..... 1 pt

Score

**3**

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high ..... 3 pts
- b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high ..... 2 pts
- c. Bare ground ..... 1 pt

**3**

11. Does woody vegetation hang over the edge of the water?

- a. Yes ..... 2 pts
- b. No ..... 1 pt

**2**

Total Points:

**8**

Function:    High (7-8 pts)    Medium (5-6 pts)    Low (3-4 pts)

FUNCTION IS:

**HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-3 (R)**

### WILDLIFE HABITAT

|  |       | Score    |
|--|-------|----------|
| <b>12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?</b>                           |       |          |
| a. More than 2 layers  | 3 pts | <b>3</b> |
| b. 2 layers  | 2 pts |          |
| c. 1 layer, or unvegetated   | 1 pt  |          |
| <b>13. What is the dominant vegetation layer in the riparian area?</b>   |       |          |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high                                    | 3 pts | <b>3</b> |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high                                     | 2 pts |          |
| c. Bare ground   | 1 pt  |          |
| <b>14. Does woody vegetation hang over the edge of the water?</b>  |       |          |
| a. Yes   | 2 pts | <b>2</b> |
| b. No  | 1 pt  |          |
| <b>15. Is large woody debris present within the riparian area?</b>   |       |          |
| a. Yes   | 3 pts | <b>3</b> |
| b. No  | 1 pt  |          |
| <b>16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?</b> |       |          |
| a. Greater than 40%  | 3 pts | <b>3</b> |
| b. Between 10% and 40%   | 2 pts |          |
| c. Less than 10%   | 1 pt  |          |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

|                       |
|-----------------------|
| RIPARIAN CODE         |
| <b>WC-DIX-R-3 (R)</b> |

### WILDLIFE HABITAT (continued)

|   |       | Score     |
|---|-------|-----------|
| <b>17. Is surface water present throughout the year?</b>  |       |           |
| a. Yes  | 3 pts | <b>1</b>  |
| b. No   | 1 pt  |           |
| <b>18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?</b>                |       |           |
| a. Yes  | 3 pts | <b>3</b>  |
| b. No   | 1 pt  |           |
| <b>19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?</b> |       |           |
| a. Less than 25%  | 3 pts | <b>3</b>  |
| b. Between 25% and 75%  | 2 pts |           |
| c. Greater than 75%   | 1 pt  |           |
| <b>Total Points:</b>  |       | <b>21</b> |

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

**FUNCTION IS: HIGH**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

|  |                           |                            |
|--|---------------------------|----------------------------|
| <b>Basin:</b> DIXON  | <b>Reach:</b> WC-DIX-R-3R | <b>Size (acres):</b> 9.92  |
| <b>Map:</b> W-2  |                           | <b>Length (feet):</b> 3000 |
| <b>Dominant Cover Type:</b> WOODY  |                           |                            |
| <b>ARA Cover Type:</b> Mixed Forest >70% closed canopy   |                           |                            |
| <b>Other ARA Types</b> Open (<30% canopy) non-oak woods, Grass natural/dry prairie   |                           |                            |
| <b>% of Total Cover</b> Trees: 30 <b>Shrubs</b> 10 <b>Herbs/Vines</b> 60 <b>Bare:</b> 0  |                           |                            |
| <b>Dominant Cover Type</b>   |                           |                            |
| <b>At Edge of Water:</b> WOODY   |                           |                            |
| <b>Edge of Water ARA Type</b> Mixed Forest >70% closed canopy  |                           |                            |
| <b>Riparian System:</b> LOTIC  |                           |                            |
| <b>Trees:</b>  |                           |                            |
| Type: MIXED  |                           |                            |
| Dominant Species: Oregon white oak ( <i>Quercus garryana</i> )   |                           |                            |
| Secondary Species: Bigleaf maple ( <i>Acer macropylum</i> ), Red alder ( <i>Alnus rubra</i> ), Douglas fir ( <i>Pseudotsuga menziesii</i> ),   |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Invasive Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| <b>Shrubs/Sapling</b>  |                           |                            |
| Type: DECIDUOUS  |                           |                            |
| Dominant Species: Common snowberry ( <i>Symphoricarpos albus</i> )   |                           |                            |
| Secondary Species: rose ( <i>Rosa</i> sp.), beaked hazelnut ( <i>Corylus cornuta</i> ), poison oak ( <i>Rhus diversiloba</i> ), scotch broom ( <i>Cytisus scoparius</i> ), ornamental hawthorn ( <i>Crataegus</i> sp.)   |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Invasive Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| <b>Herbaceous</b>  |                           |                            |
| Type: DECIDUOUS  |                           |                            |
| Dominant Species: tall fescue ( <i>Festuca arundinacea</i> )   |                           |                            |
| Secondary Species: tall fescue ( <i>Festuca arundinacea</i> ), Himalayan blackberry ( <i>Rubus discolor</i> ), poison oak ( <i>Rhus diversiloba</i> ), falsebrome ( <i>Brachypodium sylvaticum</i> ), Pacific sanicle ( <i>Sanicula crassicaulis</i> ), common centaury ( <i>Centarium umbellatum</i> ), bull thistle ( <i>Cirsium vulgare</i> ) |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input checked="" type="radio"/> >90%   |                           |                            |
| % Invasive Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Native Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** DIXON

**Map:** W-2

**Reach:** WC-DIX-R-3R

**RTE Species**

ORNHIC Plant Community:  None Noted  Listed Community Noted

ORNHIC or Benton Co. NSP List  None Detected  Potential  Listed Species Detected

**Riparian Condition Assessment**

Land Use within: UNDEVELOPED

Land Use adjacent: RESIDENTIAL

Infrastructure Impingement: PARTIALLY IMPINGED

In Channel Alteration: UNALTERED

LWD Recruitment Potential: MODERATE

Shade Potential: MODERATE

RCA Functional Designation: Fully Functional

**Restoration Potential**

Adjacent slopes of 15% or greater  <10%  10%-50%  50%-90  >90%

Undeveloped land within 50ft of top of bank  <10%  10%-50%  50%-90  >90%

Within 100-yr floodplain:  <10%  10%-50%  50%-90  >90%

Low quality wetlands or hydric soils:  <10%  10%-50%  50%-90  >90%

Adjacent landscape areas:  <10%  10%-50%  50%-90  >90%

Opportunities: NONE - NOT DEGRADED SUFFICIENTLY TO REQUIRE ENHANCEMENT

Current Efforts NONE OBSERVED

**COMMENTS** STILL WILD, RESIDENTIAL HOUSING DEVELOPMENTS ONGOING

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

**Location of data point:** N of Timber Hill Park, north of Walnut Blvd., east of 29th St.  
**GPS Location:** 44.5982 N 123.2800 W  
**Date:** 8/7/2002  
**Map Number:** W-4  
**On-site:**  **Off-Site:**   
**Riparian Code:** WC-DIX-R-4 (L)  
**Investigators:** SE/FS  
**Reach Length:** 1575 feet  
**Hydrologic Basin:** DIXON CREEK

### WATER RESOURCE INFORMATION

**Water Resource:** Stream/River:  Width: 2-6 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 20-420 feet  
**LWI Wetland Code:** WC-DIX-W-1  
**Water present year-round:** Yes  No   
**Are salmonids present in the adjacent water resource?** Yes  No   
**Is the water resource listed for temperature on DEQ's 303(d) list:** Yes  No   
**Within FEMA-mapped 100-year floodplain:** Yes  No

**Mapped soil series:** Bashaw clay

**Adjacent Land Uses?** (Check as many as needed)

Agriculture:  Residential:  Undeveloped:   
Commercial/Indus.:  Roads:  Forestry:   
Other:

**Dominant tree species:** FRAXINUS LATIFOLIA

**Comments:** see next page

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**Average slope in the riparian area:** (Question 1)

<10:1 (10%)  Between 10:1 (10%) and 5:1 (20%)  >5:1 (20%)

**Extent of impervious surface within the riparian area.** (Question 4)

<10%  10% - 25%  >25%

**Is the stream or water resource constricted by man-made features?** (Question 8)

Yes  No

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes  No

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation  Herbaceous vegetation  Bare ground

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes  No

**Large woody debris in riparian area?** (Question 15)

Yes  No

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40%  10% - 40%  <10%

**Degree of development or human caused disturbance.** (Question 19)

<25%  25% - 75%  >75%

**How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area?** (Question 5)

low, slight moderate  high, very high, severe

**What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** (Question 3)

Woody vegetation  Herbaceous vegetation  Bare ground

**Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** (Question 6)

Yes  No

**Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?**

Yes  No or no flood prone area present

**How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?**

More than 2  2 layers  1 layer or unvegetated

# Riparian Width Determination



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-4 (L)**

Date: 8/7/2002 Investigators: SE/FS  
Dominant tree species: *Fraxinus latifolia*

Comments: South end of this reach of the riparian area is confined by parking lots. North end is developed along the west bank.

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# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-4 (L)**

## WATER QUALITY

|  |       | Score     |
|--|-------|-----------|
| <b>1. What is the average slope in the riparian area?</b>  |       |           |
| a. Less than 10:1 (10%)  | 3 pts | <b>3</b>  |
| b. Between 10:1 (10%) and 5:1 (20%)  | 2 pts |           |
| c. Greater than 5:1 (20%)  | 1 pt  |           |
| <b>2. What is the dominant vegetation cover in the riparian area?</b>  |       |           |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high  | 3 pts | <b>3</b>  |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high   | 2 pts |           |
| c. Bare ground   | 1 pt  |           |
| <b>3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?</b>   |       |           |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high  | 3 pts | <b>3</b>  |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high   | 2 pts |           |
| c. Bare ground   | 1 pt  |           |
| <b>4. What is the extent of impervious surfaces within the riparian area?</b>  |       |           |
| a. Less than 10%   | 3 pts | <b>2</b>  |
| b. Between 10% and 25%   | 2 pts |           |
| c. Greater than 25%  | 1 pt  |           |
| <b>5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.</b> |       |           |
| a. Low, slight, moderate   | 2 pts | <b>2</b>  |
| b. High, severe, very high   | 1 pts |           |
| <b>Total Points:</b>   |       | <b>13</b> |

**Function:**    **High (12-14 pts)**    **Medium (8-11 pts)**    **Low (5-7 pts)**

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-4 (L)**

### FLOOD MANAGEMENT

|   |             | Score    |
|---|-------------|----------|
| <b>6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?</b> |             |          |
| a. Yes  | ..... 3 pts | <b>3</b> |
| b. No   | ..... 1 pt  |          |
| <b>7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?</b>  |             |          |
| a. Yes  | ..... 3 pts | <b>3</b> |
| b. No or no flood prone area present  | ..... 1 pt  |          |
| <b>8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?</b>  |             |          |
| a. No   | ..... 3 pts | <b>1</b> |
| b. Yes  | ..... 1 pts |          |
| <b>Total Points:</b>  |             | <b>7</b> |

**Function:**    High (8-9 pts)    Medium (5-7 pts)    Low (3-4 pts)

**FUNCTION IS:**    **MEDIUM**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-4 (L)**

### THERMAL REGULATION

|   |             | Score    |
|---|-------------|----------|
| <b>9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?</b> |             |          |
| a. Yes  | ..... 3 pts | <u>3</u> |
| b. No   | ..... 1 pt  |          |
| <b>10. What is the dominant vegetation layer in the riparian area?</b>  |             |          |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high                                   | ..... 3 pts | <u>3</u> |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high                                    | ..... 2 pts |          |
| c. Bare ground  | ..... 1 pt  |          |
| <b>11. Does woody vegetation hang over the edge of the water?</b>   |             |          |
| a. Yes  | ..... 2 pts | <u>2</u> |
| b. No   | ..... 1 pt  |          |
| <b>Total Points:</b>  |             | <u>8</u> |

Function:    High (7-8 pts)    Medium (5-6 pts)    Low (3-4 pts)

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

WC-DIX-R-4 (L)

### WILDLIFE HABITAT

|  |       | Score    |
|--|-------|----------|
| <b>12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?</b>                           |       |          |
| a. More than 2 layers  | 3 pts | <u>3</u> |
| b. 2 layers  | 2 pts |          |
| c. 1 layer, or unvegetated   | 1 pt  |          |
| <b>13. What is the dominant vegetation layer in the riparian area?</b>   |       |          |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high                                    | 3 pts | <u>3</u> |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high                                     | 2 pts |          |
| c. Bare ground   | 1 pt  |          |
| <b>14. Does woody vegetation hang over the edge of the water?</b>  |       |          |
| a. Yes   | 2 pts | <u>2</u> |
| b. No  | 1 pt  |          |
| <b>15. Is large woody debris present within the riparian area?</b>   |       |          |
| a. Yes   | 3 pts | <u>3</u> |
| b. No  | 1 pt  |          |
| <b>16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?</b> |       |          |
| a. Greater than 40%  | 3 pts | <u>3</u> |
| b. Between 10% and 40%   | 2 pts |          |
| c. Less than 10%   | 1 pt  |          |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

### WILDLIFE HABITAT (continued)

RIPARIAN CODE  
**WC-DIX-R-4 (L)**

|   |       | Score     |
|---|-------|-----------|
| <b>17. Is surface water present throughout the year?</b>  |       |           |
| a. Yes .....  | 3 pts |           |
| b. No .....   | 1 pt  | <b>3</b>  |
| <b>18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?</b>                |       |           |
| a. Yes .....  | 3 pts |           |
| b. No .....   | 1 pt  | <b>3</b>  |
| <b>19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?</b> |       |           |
| a. Less than 25% .....  | 3 pts |           |
| b. Between 25% and 75% .....  | 2 pts |           |
| c. Greater than 75% .....   | 1 pt  | <b>2</b>  |
| <b>Total Points:</b>  |       | <b>22</b> |

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

**FUNCTION IS:** HIGH

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

|   |                           |                            |
|---|---------------------------|----------------------------|
| <b>Basin:</b> DIXON   | <b>Reach:</b> WC-DIX-R-4L | <b>Size (acres):</b> 32.10 |
| <b>Map:</b> W-2   |                           | <b>Length (feet):</b> 1575 |
| <b>Dominant Cover Type:</b> WOODY   |                           |                            |
| <b>ARA Cover Type:</b> Shrubs wetland, seasonally   |                           |                            |
| <b>Other ARA Types</b> Emergent/herb wetland or pond; Hardwood Woodland 30-70% closed canopy  |                           |                            |
| <b>% of Total Cover</b> Trees: 30 <b>Shrubs</b> 10 <b>Herbs/Vines</b> 50 <b>Bare:</b> 10  |                           |                            |
| <b>Dominant Cover Type</b>  |                           |                            |
| <b>At Edge of Water:</b> WOODY  |                           |                            |
| <b>Edge of Water ARA Type</b> Hardwood Forest >70% closed canopy  |                           |                            |
| <b>Riparian System:</b> LOTIC   |                           |                            |
| <b>Trees:</b>   |                           |                            |
| Type: DECIDUOUS   |                           |                            |
| Dominant Species: Oregon ash ( <i>Fraxinus latifolia</i> )  |                           |                            |
| Secondary Species: Oregon white oak ( <i>Quercus garryana</i> ), sweet cherry ( <i>Prunus avium</i> ), Black cottonwood ( <i>Populus trichocarpa</i> )  |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Invasive Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input checked="" type="radio"/> >90%   |                           |                            |
| <b>Shrubs/Sapling</b>   |                           |                            |
| Type: DECIDUOUS   |                           |                            |
| Dominant Species: poison oak ( <i>Rhus diversiloba</i> )  |                           |                            |
| Secondary Species: Indian plum ( <i>Oemleria cerasiformis</i> ), Common snowberry ( <i>Symphoricarpos albus</i> ), Himalayan blackberry ( <i>Rubus discolor</i> ), hooker willow ( <i>Salix hookeriana</i> )  |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Invasive Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| <b>Herbaceous</b>   |                           |                            |
| Type: MIXED   |                           |                            |
| Dominant Species: none  |                           |                            |
| Secondary Species: tall fescue ( <i>Festuca arundinacea</i> ), colonial bentgrass ( <i>Agrostis tenuis</i> ), heal-all ( <i>Prunella vulgaris</i> ), oxeye daisy ( <i>Chrysanthemum leucanthemum</i> ), Queen Anne's lace ( <i>Daucus carota</i> ), spotted cat's ear ( <i>Hypochaeris radicata</i> ), common dandelion ( <i>Taraxacum officinale</i> ), reed canarygrass ( <i>Phalaris arundinacea</i> ), camas ( <i>Camasia</i> spp.), falsebrome ( <i>Brachypodium sylvaticum</i> ), English ivy ( <i>Hedera helix</i> ) |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Invasive Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** DIXON

**Map:** W-2

**Reach:** WC-DIX-R-4L

**RTE Species**

ORNHIC Plant Community:  None Noted  Listed Community Noted

ORNHIC or Benton Co. NSP List  None Detected  Potential  Listed Species Detected

**Riparian Condition Assessment**

Land Use within: UNDEVELOPED, COMMERCIAL

Land Use adjacent: UNDEVELOPED

Infrastructure Impingement: PARTIALLY IMPINGED

In Channel Alteration: MODERATELY ALTERED

LWD Recruitment Potential: LOW

Shade Potential: HIGH

RCA Functional Designation: Nearly Fully Functional

**Restoration Potential**

Adjacent slopes of 15% or greater  <10%  10%-50%  50%-90  >90%

Undeveloped land within 50ft of top of bank  <10%  10%-50%  50%-90  >90%

Within 100-yr floodplain:  <10%  10%-50%  50%-90  >90%

Low quality wetlands or hydric soils:  <10%  10%-50%  50%-90  >90%

Adjacent landscape areas:  <10%  10%-50%  50%-90  >90%

Opportunities: LIMITED TO NON-PAVED LANDSCAPED AREAS AT THE SOUTH END, WHICH COULD BE ENHANCED WITH PLANTS, ETC.

Current Efforts NONE APPARENT

**COMMENTS** CURRENT LAND USE AT SOUTH END IS MOSTLY DEVELOPED FOR COMMERCIAL. NARROW FORESTED RIPARIAN ZONE IN THIS AREA IS TYPICALLY 25-50 FT WIDE EITHER SIDE

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

**Location of data point:** \_\_\_\_\_  
N of Timber Hill Park, north of  
Walnut Blvd., east of 29th St.

**GPS Location:** \_\_\_\_\_ 44.5982 N 123.2800 W

**Date:** \_\_\_\_\_ 8/7/2002

**Map Number:** \_\_\_\_\_ W-4

**On-site:**  **Off-Site:**

**Riparian Code:** \_\_\_\_\_ WC-DIX-R-4 (R)

**Investigators:** \_\_\_\_\_ SE/FS

**Reach Length:** \_\_\_\_\_ 1575 feet

**Hydrologic Basin:** \_\_\_\_\_ DIXON CREEK

### WATER RESOURCE INFORMATION

|                        |  |                                       |
|------------------------|--|---------------------------------------|
| <b>Water Resource:</b> | <b>Stream/River:</b> <input checked="" type="checkbox"/> | <b>Width:</b> _____ 2-6 _____ feet    |
|                        | <b>Lake/Pond:</b> <input type="checkbox"/>               | <b>Width:</b> _____ _____ feet        |
|                        | <b>Wetland:</b> <input checked="" type="checkbox"/>      | <b>Width:</b> _____ 20-420 _____ feet |

**LWI Wetland Code:** \_\_\_\_\_ WC-DIX-W-1

**Water present year-round:** Yes  No

**Are salmonids present in the adjacent water resource?** Yes  No

**Is the water resource listed for temperature on DEQ's 303(d) list:** Yes  No

**Within FEMA-mapped 100-year floodplain:** Yes  No

**Mapped soil series:** \_\_\_\_\_ Bashaw clay

**Adjacent Land Uses?** (Check as many as needed)

|  |   |   |
|--|---|---|
| <b>Agriculture:</b> <input type="checkbox"/>       | <b>Residential:</b> <input checked="" type="checkbox"/> | <b>Undeveloped:</b> <input checked="" type="checkbox"/> |
| <b>Commercial/Indus.:</b> <input type="checkbox"/> | <b>Roads:</b> <input type="checkbox"/>                  | <b>Forestry:</b> <input type="checkbox"/>               |
|  | <b>Other:</b> <input checked="" type="checkbox"/>       | _____ CONCRETE PATH IN RIPARIAN _____                   |

**Dominant tree species:** \_\_\_\_\_ FRAXINUS LATIFOLIA

**Comments:** \_\_\_\_\_ see next page \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Average slope in the riparian area:** (Question 1)

<10:1 (10%)  Between 10:1 (10%) and 5:1 (20%)  >5:1 (20%)

**Extent of impervious surface within the riparian area.** (Question 4)

<10%  10% - 25%  >25%

**Is the stream or water resource constricted by man-made features?** (Question 8)

Yes  No

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes  No

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation  Herbaceous vegetation  Bare ground

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes  No

**Large woody debris in riparian area?** (Question 15)

Yes  No

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40%  10% - 40%  <10%

**Degree of development or human caused disturbance.** (Question 19)

<25%  25% - 75%  >75%

**How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area?** (Question 5)

low, slight moderate  high, very high, severe

**What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** (Question 3)

Woody vegetation  Herbaceous vegetation  Bare ground

**Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** (Question 6)

Yes  No

**Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?**

Yes  No or no flood prone area present

**How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?**

More than 2  2 layers  1 layer or unvegetated

# Riparian Width Determination



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-4 (R)**

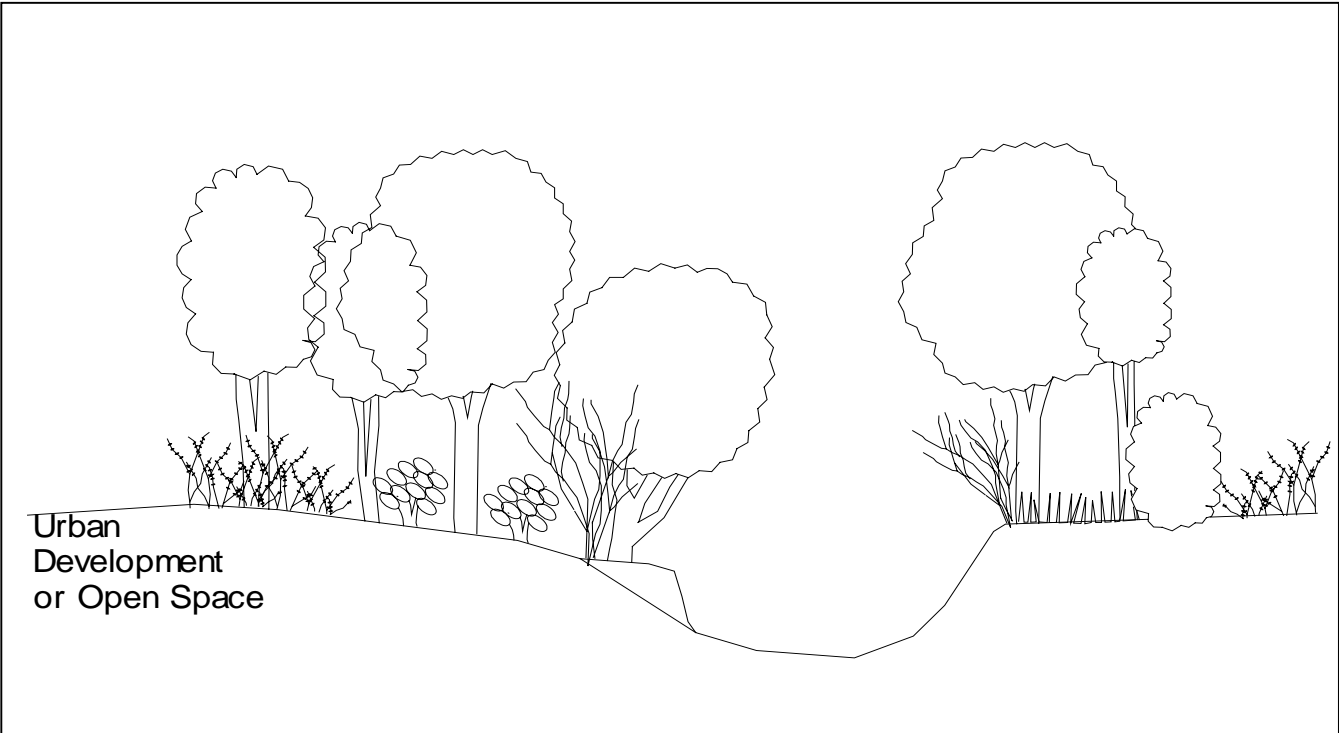
Date: 8/7/2002 Investigators: SE/FS  
Dominant tree species: *Fraxinus latifolia*

Comments: South end of this reach of the riparian area is confined by parking lots. North end is developed along the west bank.

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# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-DIX-R-4 (R)**

### WATER QUALITY

|  |       | Score     |
|--|-------|-----------|
| <b>1. What is the average slope in the riparian area?</b>  |       |           |
| a. Less than 10:1 (10%) .....  | 3 pts | <b>3</b>  |
| b. Between 10:1 (10%) and 5:1 (20%) .....  | 2 pts |           |
| c. Greater than 5:1 (20%) .....  | 1 pt  |           |
| <b>2. What is the dominant vegetation cover in the riparian area?</b>  |       |           |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <b>2</b>  |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |           |
| c. Bare ground .....   | 1 pt  |           |
| <b>3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?</b>   |       |           |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high .....  | 3 pts | <b>3</b>  |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high .....   | 2 pts |           |
| c. Bare ground .....   | 1 pt  |           |
| <b>4. What is the extent of impervious surfaces within the riparian area?</b>  |       |           |
| a. Less than 10% .....   | 3 pts | <b>2</b>  |
| b. Between 10% and 25% .....   | 2 pts |           |
| c. Greater than 25% .....  | 1 pt  |           |
| <b>5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.</b> |       |           |
| a. Low, slight, moderate .....   | 2 pts | <b>2</b>  |
| b. High, severe, very high .....   | 1 pts |           |
| <b>Total Points:</b>   |       | <b>12</b> |

**Function:**    High (12-14 pts)    Medium (8-11 pts)    Low (5-7 pts)

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-4 (R)**

### FLOOD MANAGEMENT

|   | Score                 |
|---|-----------------------|
| <p>6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?</p> <p>a. Yes ..... 3 pts</p> <p>b. No ..... 1 pt</p> | <p><b>3</b></p> <hr/> |
| <p>7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?</p> <p>a. Yes ..... 3 pts</p> <p>b. No or no flood prone area present ..... 1 pt</p>           | <p><b>3</b></p> <hr/> |
| <p>8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?</p> <p>a. No ..... 3 pts</p> <p>b. Yes ..... 1 pt</p>  | <p><b>1</b></p> <hr/> |
| <b>Total Points:</b>  | <p><b>7</b></p> <hr/> |

Function:    High (8-9 pts)    Medium (5-7 pts)    Low (3-4 pts)

**FUNCTION IS:    MEDIUM**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-DIX-R-4 (R)**

### THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- a. Yes ..... 3 pts
- b. No ..... 1 pt

Score

**3**

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high ..... 3 pts
- b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high ..... 2 pts
- c. Bare ground ..... 1 pt

**2**

11. Does woody vegetation hang over the edge of the water?

- a. Yes ..... 2 pts
- b. No ..... 1 pt

**2**

Total Points:

**7**

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

**HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

WC-DIX-R-4 (R)

### WILDLIFE HABITAT

|  |       | Score    |
|--|-------|----------|
| <b>12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?</b>                           |       |          |
| a. More than 2 layers  | 3 pts | <u>3</u> |
| b. 2 layers  | 2 pts |          |
| c. 1 layer, or unvegetated   | 1 pt  |          |
| <b>13. What is the dominant vegetation layer in the riparian area?</b>   |       |          |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high                                    | 3 pts | <u>2</u> |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high                                     | 2 pts |          |
| c. Bare ground   | 1 pt  |          |
| <b>14. Does woody vegetation hang over the edge of the water?</b>  |       |          |
| a. Yes   | 2 pts | <u>2</u> |
| b. No  | 1 pt  |          |
| <b>15. Is large woody debris present within the riparian area?</b>   |       |          |
| a. Yes   | 3 pts | <u>3</u> |
| b. No  | 1 pt  |          |
| <b>16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?</b> |       |          |
| a. Greater than 40%  | 3 pts | <u>3</u> |
| b. Between 10% and 40%   | 2 pts |          |
| c. Less than 10%   | 1 pt  |          |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

### WILDLIFE HABITAT (continued)

|                       |
|-----------------------|
| RIPARIAN CODE         |
| <b>WC-DIX-R-4 (R)</b> |

|   |       | Score     |
|---|-------|-----------|
| <b>17. Is surface water present throughout the year?</b>  |       |           |
| a. Yes  | 3 pts | <b>3</b>  |
| b. No   | 1 pt  |           |
| <b>18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?</b>                |       |           |
| a. Yes  | 3 pts | <b>3</b>  |
| b. No   | 1 pt  |           |
| <b>19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?</b> |       |           |
| a. Less than 25%  | 3 pts | <b>2</b>  |
| b. Between 25% and 75%  | 2 pts |           |
| c. Greater than 75%   | 1 pt  |           |
| <b>Total Points:</b>  |       | <b>21</b> |

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

**FUNCTION IS: HIGH**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

|   |                           |                            |
|---|---------------------------|----------------------------|
| <b>Basin:</b> DIXON   | <b>Reach:</b> WC-DIX-R-4R | <b>Size (acres):</b> 32.10 |
| <b>Map:</b> W-2   |                           | <b>Length (feet):</b> 1575 |
| <b>Dominant Cover Type:</b> HERBACEOUS  |                           |                            |
| <b>ARA Cover Type:</b> Grass short (lawn, pasture)  |                           |                            |
| <b>Other ARA Types</b> Emergent/herb wetland or pond; Hardwood Woodland 30-70% closed canopy  |                           |                            |
| <b>% of Total Cover</b> Trees: 20    Shrubs 10    Herbs/Vines 50    Bare: 20  |                           |                            |
| <b>Dominant Cover Type</b>  |                           |                            |
| <b>At Edge of Water:</b> WOODY  |                           |                            |
| <b>Edge of Water ARA Type</b> Hardwood Forest >70% closed canopy  |                           |                            |
| <b>Riparian System:</b> LOTIC   |                           |                            |
| <b>Trees:</b>   |                           |                            |
| Type: DECIDUOUS   |                           |                            |
| Dominant Species: Oregon ash ( <i>Fraxinus latifolia</i> )  |                           |                            |
| Secondary Species: Oregon white oak ( <i>Quercus garryana</i> ), sweet cherry ( <i>Prunus avium</i> ), Black cottonwood ( <i>Populus trichocarpa</i> )  |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Invasive Cover: <input checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input checked="" type="radio"/> >90%   |                           |                            |
| <b>Shrubs/Sapling</b>   |                           |                            |
| Type: DECIDUOUS   |                           |                            |
| Dominant Species: poison oak ( <i>Rhus diversiloba</i> )  |                           |                            |
| Secondary Species: Indian plum ( <i>Oemleria cerasiformis</i> ), Common snowberry ( <i>Symphoricarpos albus</i> ), Himalayan blackberry ( <i>Rubus discolor</i> ), hooker willow ( <i>Salix hookeriana</i> )  |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Invasive Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| <b>Herbaceous</b>   |                           |                            |
| Type: MIXED   |                           |                            |
| Dominant Species: none  |                           |                            |
| Secondary Species: tall fescue ( <i>Festuca arundinacea</i> ), colonial bentgrass ( <i>Agrostis tenuis</i> ), heal-all ( <i>Prunella vulgaris</i> ), oxeye daisy ( <i>Chrysanthemum leucanthemum</i> ), Queen Anne's lace ( <i>Daucus carota</i> ), spotted cat's ear ( <i>Hypochaeris radicata</i> ), common dandelion ( <i>Taraxacum officinale</i> ), reed canarygrass ( <i>Phalaris arundinacea</i> ), camas ( <i>Camasia</i> spp.), falsebrome ( <i>Brachypodium sylvaticum</i> ), English ivy ( <i>Hedera helix</i> ) |                           |                            |
| % Total Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%  |                           |                            |
| % Invasive Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input checked="" type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |
| % Native Cover: <input type="radio"/> <10% <input checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%   |                           |                            |

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** DIXON

**Map:** W-2

**Reach:** WC-DIX-R-4R

**RTE Species**

ORNHIC Plant Community:  None Noted  Listed Community Noted

ORNHIC or Benton Co. NSP List  None Detected  Potential  Listed Species Detected

**Riparian Condition Assessment**

Land Use within: UNDEVELOPED, RESIDENTIAL

Land Use adjacent: RESIDENTIAL

Infrastructure Impingement: PARTIALLY IMPINGED

In Channel Alteration: MODERATELY ALTERED

LWD Recruitment Potential: LOW

Shade Potential: HIGH

RCA Functional Designation: Nearly Fully Functional

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Adjacent slopes of 15% or greater  <10%  10%-50%  50%-90  >90%

Undeveloped land within 50ft of top of bank  <10%  10%-50%  50%-90  >90%

Within 100-yr floodplain:  <10%  10%-50%  50%-90  >90%

Low quality wetlands or hydric soils:  <10%  10%-50%  50%-90  >90%

Adjacent landscape areas:  <10%  10%-50%  50%-90  >90%

Opportunities: LIMITED TO NON-PAVED LANDSCAPED AREAS AT THE SOUTH END, WHICH COULD BE ENHANCED WITH PLANTS, ETC.

Current Efforts NONE APPARENT

**COMMENTS** CURRENT LAND USE AT SOUTH END IS MOSTLY DEVELOPED FOR COMMERCIAL. NARROW FORESTED RIPARIAN ZONE IN THIS AREA IS TYPICALLY 25-50 FT WIDE EITHER SIDE