

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: \_\_\_\_\_  
By EPA building \_\_\_\_\_

GPS Location: 44.5643 N 123.2923 W

Date: 7/23/2002

Map Number: W-11

On-site:  Off-Site:

Riparian Code: WC-OAK-R-5 (L)

Investigators: CR/PF

Reach Length: 300 feet

Hydrologic Basin: OAK CREEK

### WATER RESOURCE INFORMATION

Water Resource:	Stream/River: <input checked="" type="checkbox"/>	Width: <u>2-5</u> feet
	Lake/Pond: <input type="checkbox"/>	Width: _____ feet
	Wetland: <input checked="" type="checkbox"/>	Width: <u>20</u> feet

LWI Wetland Code: WC-OAK-W-4

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: Concord silt loam

Adjacent Land Uses? (Check as many as needed)

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

Dominant tree species: QUERCUS GARRYANA

Comments: see other 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-OAK-R-5 (L)**

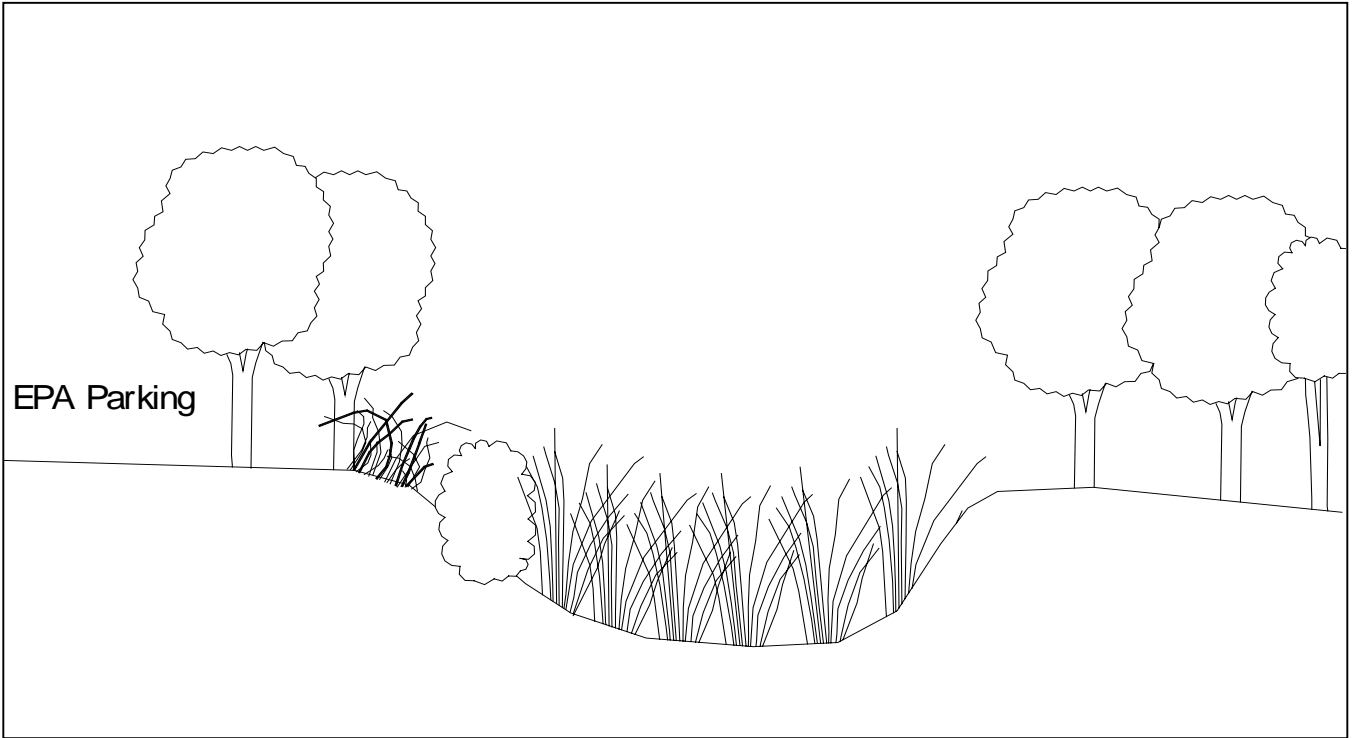
Date: 7/23/2002 Investigators: CR/PF  
Dominant tree species: Quercus garryana

Comments: Overflow and backwater channel/wetland to Oak Creek. Large beautiful oaks in riparian area, with grassy understory.

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# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

WC-OAK-R-5 (L)

## WATER QUALITY

		Score
<b>1. What is the average slope in the riparian area?</b>		
a. Less than 10:1 (10%) .....	3 pts	<u>3</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>2</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>2</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>12</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-OAK-R-5 (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-OAK-R-5 (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

**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-OAK-R-5 (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>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>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>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-OAK-R-5 (L)**

		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>2</b>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
<b>Total Points:</b>		<b>17</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> OAK	<b>Reach:</b> WC-OAK-R-5L	<b>Size (acres):</b> 2.49
<b>Map:</b> W-11		<b>Length (feet):</b> 300
<b>Dominant Cover Type:</b> HERBACEOUS		
<b>ARA Cover Type:</b> Grass tall (ryegrass, meadow)		
<b>Other ARA Types:</b> Hardwood Forest >70% closed canopy		
<b>% of Total Cover:</b> Trees: 10 <b>Shrubs:</b> 10 <b>Herbs/Vines:</b> 80 <b>Bare:</b> 0		
<b>Dominant Cover Type At Edge of Water:</b> HERBACEOUS		
<b>Edge of Water ARA Type:</b> Grass tall (ryegrass, meadow)		
<b>Riparian System:</b> LOTIC		
<b>Trees:</b>		
Type: DECIDUOUS		
Dominant Species: Oregon white oak ( <i>Quercus garryana</i> )		
Secondary Species: NONE		
% 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: Douglas hawthorn ( <i>Crataegus douglasii</i> )		
Secondary Species: Himalayan blackberry ( <i>Rubus discolor</i> )		
% Total Cover: <input checked="" type="radio"/> <10% <input 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 checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%		
<b>Herbaceous</b>		
Type: MIXED		
Dominant Species: meadow foxtail ( <i>Alopecurus pratensis</i> )		
Secondary Species: tall fescue ( <i>Festuca arundinacea</i> ), bentgrass ( <i>Agrostis</i> sp.), teasel ( <i>Dipsacus sylvestris</i> ), Canada thistle ( <i>Cirsium arvense</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 checked="" type="radio"/> 10%-50% <input 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:** OAK

**Map:** W-11

**Reach:** WC-OAK-R-5L

**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: COMMERCIAL

Infrastructure Impingement: PARTIALLY IMPINGED

In Channel Alteration: UNALTERED

LWD Recruitment Potential: MODERATE

Shade Potential: LOW

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: SOME OPPORTUNITY FOR BLACKBERRY REMOVAL AND REPLANT WITH NATIVE TREE AND SHRUBS

Current Efforts NONE OBSERVED

**COMMENTS**

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: Oak Creek, behind EPA  
GPS Location: 44.5643 N 123.2923 W  
Map Number: W-11  
Date: 7/23/2002  
Riparian Code: WC-OAK-R-5 (R)  
On-site:  Off-Site:   
Reach Length: 300 feet  
Investigators: CR/PF  
Hydrologic Basin: OAK CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 2-5 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 20 feet  
LWI Wetland Code: WC-OAK-W-4  
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: Concord silt loam

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

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

Dominant tree species: QUERCUS GARRYANA  
Comments: see other 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-OAK-R-5 (R)**

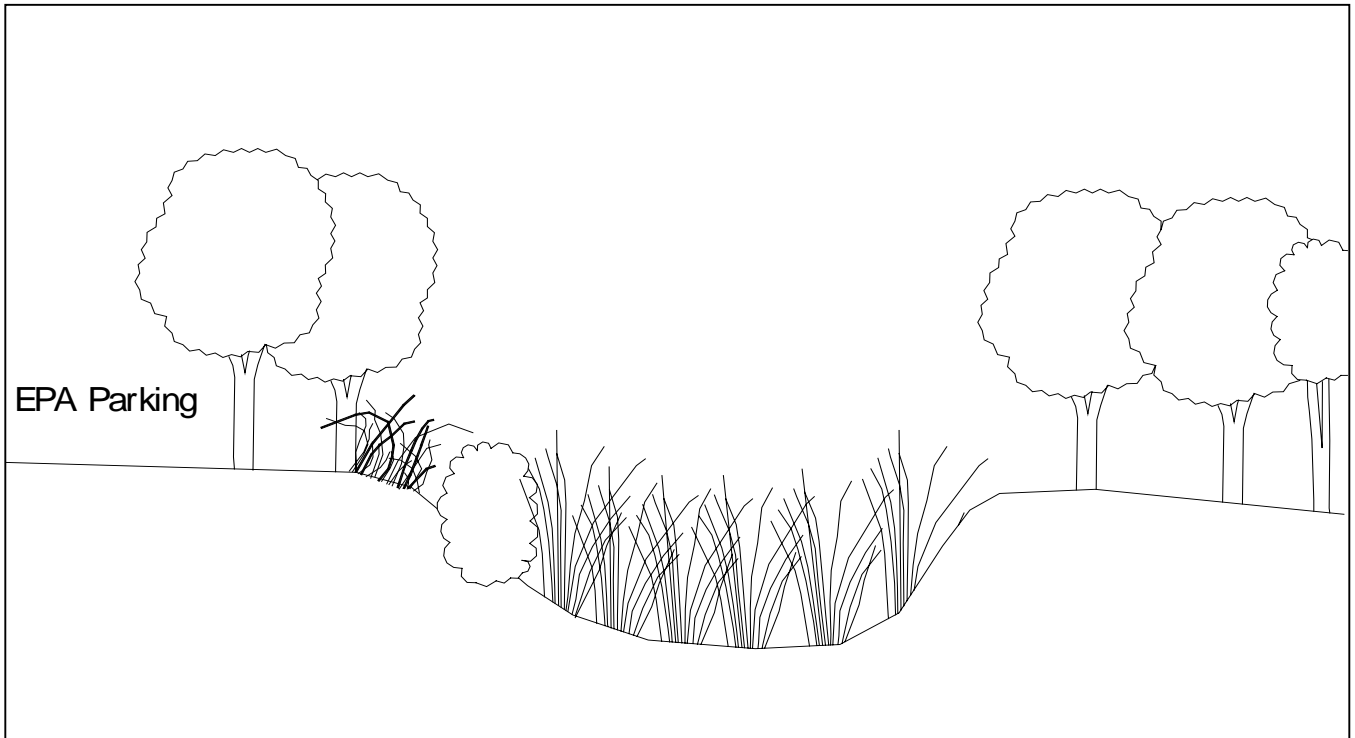
Date: 7/23/2002 Investigators: CR/PF  
Dominant tree species: Quercus garryana

Comments: Overflow and backwater channel/wetland to Oak Creek. Large beautiful oaks in riparian area, with grassy understory.

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# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

WC-OAK-R-5 (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>3</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>2</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>2</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>12</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-OAK-R-5 (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

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-OAK-R-5 (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

**1**

Total Points:

**6**

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

FUNCTION IS:

**MEDIUM**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-OAK-R-5 (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>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>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>1</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>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

RIPARIAN CODE

### WILDLIFE HABITAT (continued)

WC-OAK-R-5 (R)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	<u>1</u>
b. No	1 pt	
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	<u>3</u>
b. No	1 pt	
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	<u>1</u>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
<b>Total Points:</b>		<b><u>15</u></b>

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

**FUNCTION IS: MEDIUM**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** OAK

**Reach:** WC-OAK-R-5R

**Size (acres):** 2.49

**Map:** W-11

**Length (feet):** 300

**Dominant Cover Type:** HERBACEOUS

**ARA Cover Type:** Grass tall (ryegrass, meadow)

**Other ARA Types** Hardwood Forest >70% closed canopy, Sesaonal wetlands

**% of Total Cover** **Trees:** 10 **Shrubs** 10 **Herbs/Vines** 80 **Bare:** 0

**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: Oregon white oak (*Quercus garryanna*)

Secondary Species: NONE

% 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: Douglas hawthorn (*Crataegus douglasii*)

Secondary Species: Himalayan blackberry (*Rubus discolor*)

% 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: MIXED

Dominant Species: meadow foxtail (*Alopecurus pratensis*)

Secondary Species: tall fescue (*Festuca arundinacea*), bentgrass (*Agrostis* sp.), teasel (*Dipsacus sylvestris*),  
Canada thistle (*Cirsium arvense*)

% 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:** OAK

**Map:** W-11

**Reach:** WC-OAK-R-5R

**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: AGRICULTURAL, UNDEVELOPED

Infrastructure Impingement: NON-IMPINGED

In Channel Alteration: UNALTERED

LWD Recruitment Potential: MODERATE

Shade Potential: LOW

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: SOME OPPORTUNITY FOR BLACKBERRY REMOVAL AND REPLANT WITH NATIVE TREE AND SHRUBS

Current Efforts NONE OBSERVED

**COMMENTS**

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: NE of Glenridge Dr.  
GPS Location: 44.5908 N 123.3185 W  
Map Number: W-3  
Date: 7/25/2002  
Riparian Code: WC-OAK-R-6  
On-site:  Off-Site:   
Reach Length: 1200 feet  
Investigators: SE/FS  
Hydrologic Basin: OAK CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 3 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: PSEUDOTSUGA MENZIESII

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

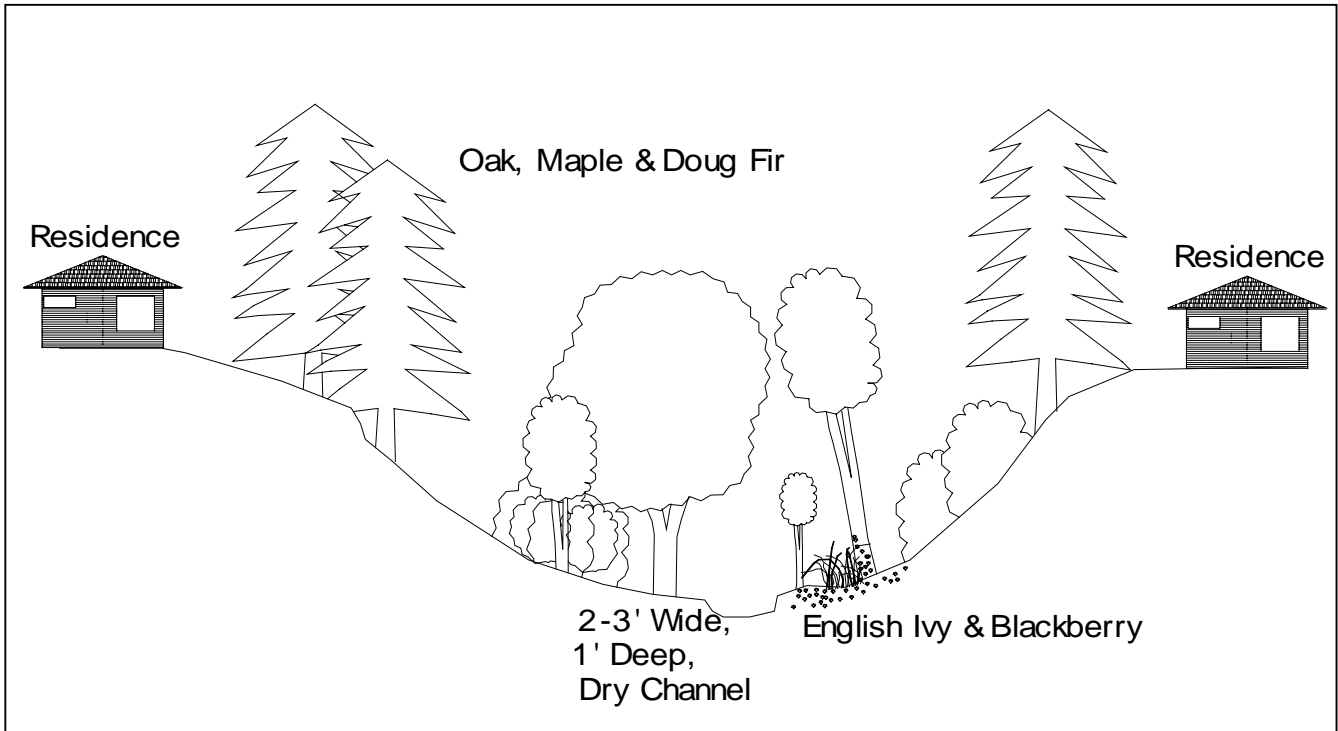


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-OAK-R-6**

Date: 7/25/2002 Investigators: SE/FS  
Dominant tree species: PSEUDOTSUGA MENZIESII

Comments: The riparian area is adjacent to a narrow intermittent drainage of Dixon Creek. The drainage has relatively steep slopes and is located in a residential area.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-OAK-R-6**

### 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>2</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>12</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-OAK-R-6**

### 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
<b>WC-OAK-R-6</b>

### 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	<b>3</b>
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	<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>11. Does woody vegetation hang over the edge of the water?</b>		
a. Yes	2 pts	<b>2</b>
b. No	1 pt	
<b>Total Points:</b>		<b>8</b>

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-OAK-R-6**

### 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>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-OAK-R-6**

		Score
<b>17. Is surface water present throughout the year?</b>		
a. Yes	3 pts	<u>1</u>
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	<u>1</u>
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	<u>3</u>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
<b>Total Points:</b>		<b><u>16</u></b>

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

**FUNCTION IS: MEDIUM**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** OAK

**Reach:** WC-OAK-R-6

**Size (acres):** 3.52

**Map:** W-3

**Length (feet):** 1200

**Dominant Cover Type:** WOODY

**ARA Cover Type:** Mixed Woodland >70% closed canopy

**Other ARA Types** NONE

**% of Total Cover** Trees: 40   **Shrubs** 20   **Herbs/Vines** 40   **Bare:** 0

**Dominant Cover Type**

**At Edge of Water:** WOODY

**Edge of Water ARA Type** Mixed Woodland 30-70% closed canopy

**Riparian System:** LOTIC

**Trees:**

Type: MIXED

Dominant Species: Douglas fir (*Pseudotsuga menziesii*)

Secondary Species: Lodgepole pine (*Pinus ponderosa*), Grand fir (*Abies grandis*), bigleaf maple (*Acer macrophyllum*), Oregon white oak (*Quercus garryana*), 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: bigleaf maple (*Acer macrophyllum*)

Secondary Species: sweet cherry (*Prunus avium*), landscape ornamentals, Indian plum (*Oemleria cerasiformis*), poison oak (*Rhus diversiloba*), tall Oregon grape (*Berberis aquifolium*)

% 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: falsebrome (*Brachypodium sylvaticum*)

Secondary Species: nipplewort (*Lapsana communis*), sword fern (*Polystichum munitum*), Himalayan blackberry (*Rubus discolor*), English ivy (*Hedera helix*), Canada thistle (*Cirsium arvense*), mixed lawn grasses

% 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:** OAK

**Map:** W-3

**Reach:** WC-OAK-R-6

**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: MODERATELY 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: RESIDENTIAL AREA - REMOVE ORNAMENTALS REPLACE WITH NATIVES

Current Efforts NONE OBSERVED

**COMMENTS** ADJACENT RESIDENTIAL DEVELOPMENT ENCROACHES PRIMARILY ONLY WHERE STREETS CROSS THE DRAINAGES. YARDS IN THIS AREA INCLUDE A HIGH PERCENTAGE OF NATIVE COVER.

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: West of OSU Equestrian Center  
GPS Location: 44.5764 N 123.3200 W  
Map Number: W-5  
Date: 5/23/2002  
Riparian Code: WC-OAK-R-7  
On-site:  Off-Site:   
Reach Length: 3525 feet  
Investigators: JVS/PF  
Hydrologic Basin: OAK CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 4 feet  
Lake/Pond:  Width:                      feet  
Wetland:  Width: 25-750 feet  
LWI Wetland Code: WC-OAK-M90-17  
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: QUERCUS GARRYANA  
Comments: see other 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

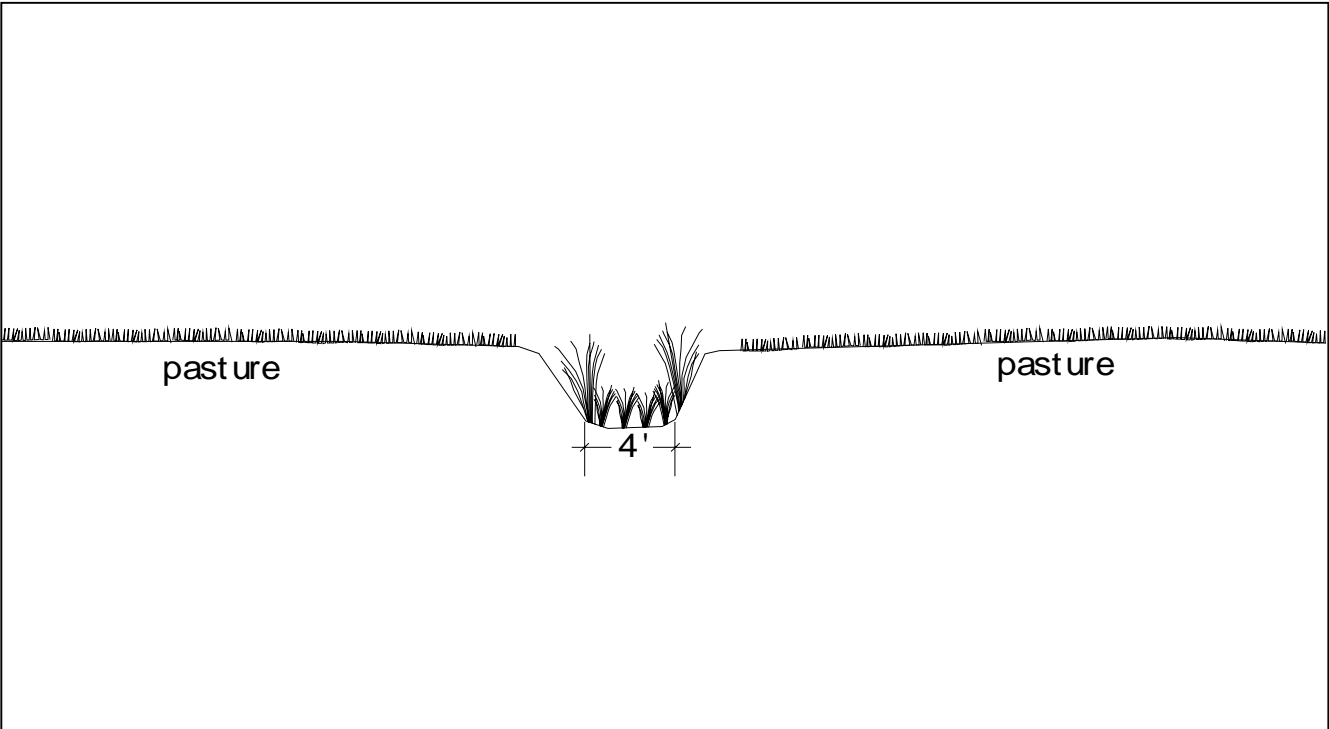


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-OAK-R-7**

Date: 5/23/2002 Investigators: JVS/PF  
Dominant tree species: Quercus garryana

Comments: Narrow drainage from steep hill to south. Drains south to connect to other small drainages through large agricultural field and then to Oak Creek. Riparian area farmed.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-OAK-R-7**

### 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>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>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>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-OAK-R-7**

### 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>1</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>3</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-OAK-R-7**

### 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

**2**

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

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

**1**

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-OAK-R-7**

### 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>1</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>1</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-OAK-R-7**

### WILDLIFE HABITAT (continued)

17. Is surface water present throughout the year?

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

Score

**1**

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

**3**

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

<b>Basin:</b> OAK	<b>Reach:</b> WC-OAK-R-7	<b>Size (acres):</b> 25.32
<b>Map:</b> W-6		<b>Length (feet):</b> 3525
<b>Dominant Cover Type:</b> HERBACEOUS		
<b>ARA Cover Type:</b> Grass short (lawn, pasture)		
<b>Other ARA Types:</b> Grass tall (ryegrass, meadow), Seasonal wetlands		
<b>% of Total Cover:</b> Trees: 0    Shrubs: 0    Herbs/Vines: 100    Bare: 0		
<b>Dominant Cover Type At Edge of Water:</b> HERBACEOUS		
<b>Edge of Water ARA Type:</b> Grass short (lawn, pasture)		
<b>Riparian System:</b> LOTIC		
<b>Trees:</b>		
Type: NONE		
Dominant Species: NONE		
Secondary Species: NONE		
% Total Cover: <input type="radio"/> <10% <input 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 type="radio"/> >90%		
% Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%		
<b>Shrubs/Sapling</b>		
Type: NONE		
Dominant Species: NONE		
Secondary Species: NONE		
% Total Cover: <input type="radio"/> <10% <input 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 type="radio"/> >90%		
% Native Cover: <input type="radio"/> <10% <input type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%		
<b>Herbaceous</b>		
Type: MIXED		
Dominant Species: tall fescue ( <i>Festuca arundinacea</i> )		
Secondary Species: common vetch ( <i>Vicia sativa</i> ), annual ryegrass ( <i>Lolium multiflorum</i> ), common oat ( <i>Avena sativa</i> ), meadow foxtail ( <i>Alopecurus pratensis</i> ), yellow salsify ( <i>Tragopogon dubius</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 checked="" type="radio"/> <10% <input type="radio"/> 10%-50% <input 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:** OAK

**Map:** W-6

**Reach:** WC-OAK-R-7

**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: AGRICULTURAL

Land Use adjacent: AGRICULTURAL

Infrastructure Impingement: NON-IMPINGED

In Channel Alteration: HEAVILY ALTERED

LWD Recruitment Potential: NONE

Shade Potential: NONE

RCA Functional Designation: Partially 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: FARMED AGRICULTURE PASTURE

Current Efforts NONE OBSERVED

**COMMENTS**

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: WEST OF WALNUT SOUTH  
OF PARK IN THE HILLS

GPS Location: 44.5845 N 123.3097 W

Date: 7/19/2002

Map Number: W-3

On-site:  Off-Site:

Riparian Code: WC-OAK-R-8

Investigators: SE/ME

Reach Length: 2400 feet

Hydrologic Basin: OAK CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 2-10 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: QUERCUS GARRYANA

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

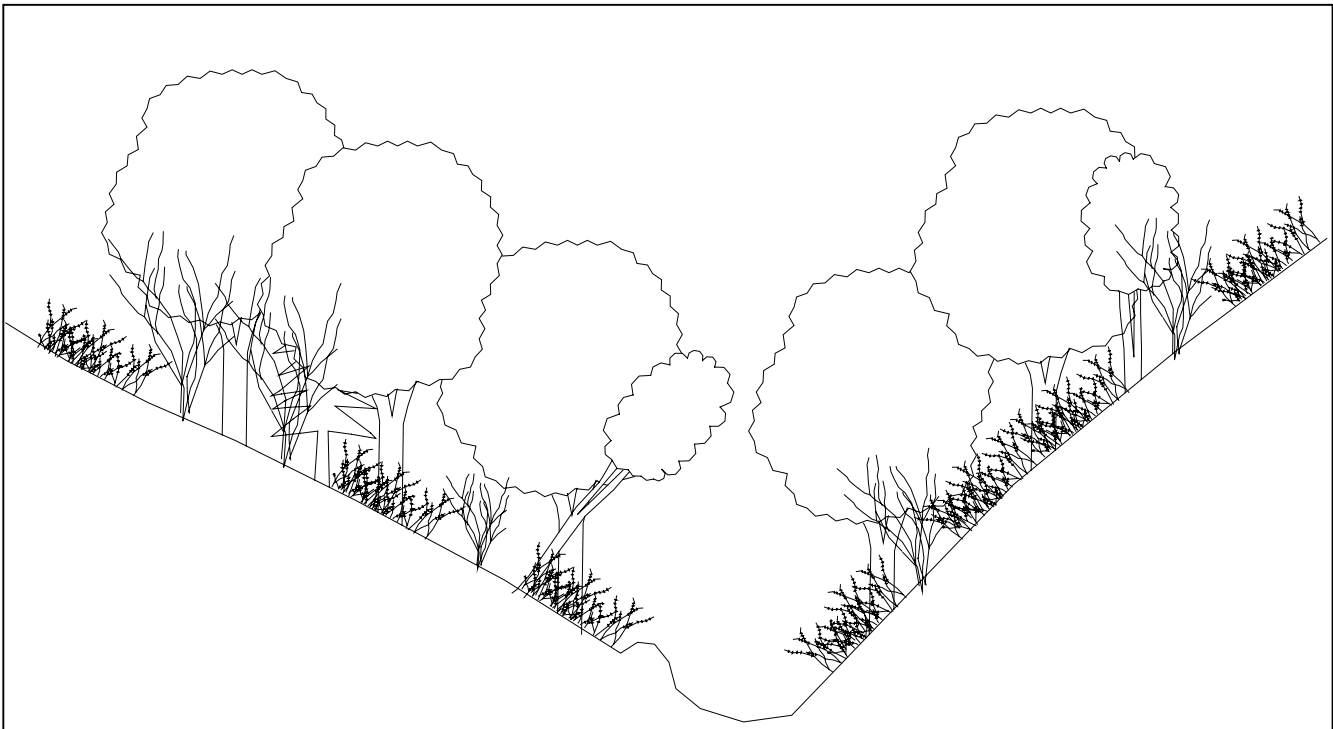


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-OAK-R-8**

Date: 7/19/2002 Investigators: SE/ME  
Dominant tree species: *Quercus garryana*

Comments: East end of the riparian area is grazed. The west end of the riparian area is upslope and vegetated.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-OAK-R-8**

## WATER QUALITY

		Score
<b>1. What is the average slope in the riparian area?</b>		
a. Less than 10:1 (10%) .....	3 pts	<b>1</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>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-OAK-R-8**

### 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
<b>WC-OAK-R-8</b>

### 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-OAK-R-8**

### 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

### WILDLIFE HABITAT (continued)

RIPARIAN CODE
<b>WC-OAK-R-8</b>

		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>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>3</b>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
<b>Total Points:</b>		<b>19</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> OAK	<b>Reach:</b> WC-OAK-R-8	<b>Size (acres):</b> 5.72
<b>Map:</b> W-3		<b>Length (feet):</b> 2400
<b>Dominant Cover Type:</b> WOODY		
<b>ARA Cover Type:</b> Mixed Forest >70% closed canopy		
<b>Other ARA Types:</b> Grass short (lawn, pasture)		
<b>% of Total Cover:</b> Trees: 40 <b>Shrubs:</b> 15 <b>Herbs/Vines:</b> 45 <b>Bare:</b> 0		
<b>Dominant Cover Type 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: English hawthorn ( <i>Crataegus monogyna</i> ), Douglas fir ( <i>Pseudotsuga menziesii</i> ), bigleaf maple ( <i>Acer macrophyllum</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 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: Sweetbrier rose ( <i>Rosa</i> sp.), Grand fir ( <i>Abies grandis</i> ), trailing blackberry ( <i>Rubus ursinus</i> ), oceanspray ( <i>Holodiscus discolor</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>Herbaceous</b>		
Type: DECIDUOUS		
Dominant Species: falsebrome ( <i>Brachypodium sylvaticum</i> )		
Secondary Species: St. John's wort ( <i>Hypericum perforatum</i> ), sword fern ( <i>Polystichum munitum</i> ), geranium ( <i>Geranium</i> sp.), fringedcup ( <i>Tellima grandiflora</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 checked="" type="radio"/> 10%-50% <input type="radio"/> 50%-90 <input type="radio"/> >90%		

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** OAK

**Map:** W-3

**Reach:** WC-OAK-R-8

**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, AREA IS HIGH IN NATIVE COVER AND GRASSES(NON-NATIVE)

Current Efforts NO EFFORTS WOULD BE RECOMMENDED TO THIS NATURAL SYSTEM

**COMMENTS** WATER FLOWS IN DRAINAGE DOWN HILLSIDE SEASONALLY; DRAINAGEWAY MEANDERS DOWN THE HILLSLOPE AND AT BOTTOM IS CULVERTED AND FLOWS INTO MAIN CREEK RIGHT BEFORE FLOWING UNDER WALNUT STREET; EAST END OF REACH IN OSU SHEEP PASTURE.

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

**Location of data point:** Oak Creek east of 35th Ave.  
**GPS Location:** 44.5598 N 123.2879 W

**Date:** 8/2/2002  
**Map Number:** W-11

**On-site:**  **Off-Site:**   
**Riparian Code:** WC-OAK-R-9

**Investigators:** CR/PF/PA  
**Reach Length:** 1050 feet

**Hydrologic Basin:** OAK CREEK

### WATER RESOURCE INFORMATION

**Water Resource:** Stream/River:  Width: 10-20 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 60-420 feet

**LWI Wetland Code:** WC-OAK-W-2

**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-OAK-R-9**

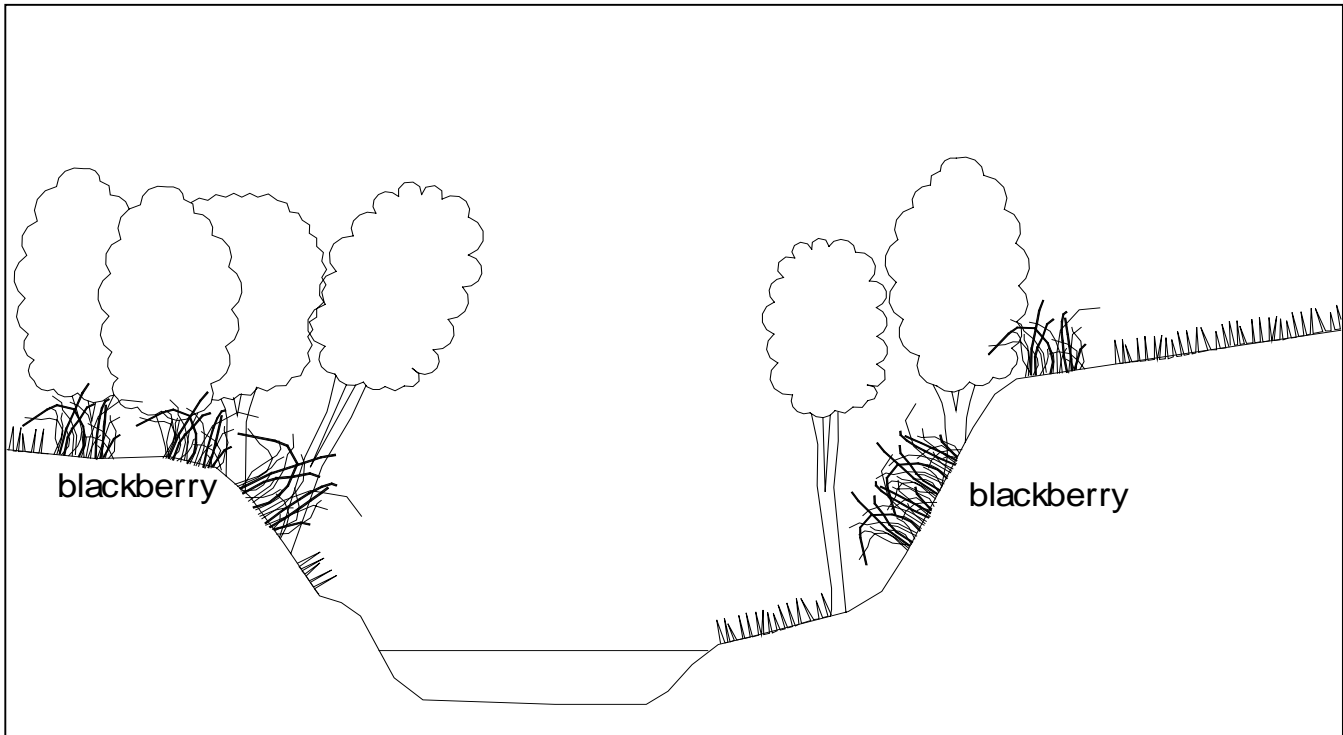
Date: 8/2/2002 Investigators: CR/PF/PA  
Dominant tree species: *Fraxinus latifolia*

Comments: Oak Creek reach between 35th and edge of OSU developed area. Steep banks left and right approximately 10-12 feet high.

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# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-OAK-R-9**

### 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>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-OAK-R-9**

### 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

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:** 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-OAK-R-9**

### 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-OAK-R-9**

### 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

RIPARIAN CODE

**WC-OAK-R-9**

### WILDLIFE HABITAT (continued)

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

**3**

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

**3**

**Total Points:**

**22**

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

**FUNCTION IS:**

**HIGH**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** OAK

**Reach:** WC-OAK-R-9

**Size (acres):** 12.45

**Map:** W-11

**Length (feet):** 1050

**Dominant Cover Type:** HERBACEOUS

**ARA Cover Type:** Grass short (lawn, pasture)

**Other ARA Types** Hardwood >70% closed canopy, Seasonal wetlands, Developed

**% of Total Cover** **Trees:** 20 **Shrubs** 10 **Herbs/Vines** 70 **Bare:** 0

**Dominant Cover Type**

**At Edge of Water:** WOODY

**Edge of Water ARA Type** Hardwood Woodland 30-70% closed canopy

**Riparian System:** LOTIC

**Trees:**

Type: DECIDUOUS

Dominant Species: Oregon ash (*Fraxinus latifolia*)

Secondary Species: Bigleaf maple (*Acer macropyllum*)

% 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: Common snowberry (*Symphoricarpos albus*)

Secondary Species: red-osier dogwood (*Cornus stolonifera*), Oregon ash (*Fraxinus latifolia*), rose (*Rosa* 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: MIXED

Dominant Species: bentgrass (*Agrostis* sp.)

Secondary Species: Himalayan blackberry (*Rubus discolor*), reed canarygrass (*Phalaris arundinacea*), Queen Anne's lace (*Daucus carota*), common velvetgrass (*Holcus lanatus*)

% 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:** OAK

**Map:** W-11

**Reach:** WC-OAK-R-9

**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: AGRICULTURAL

Land Use adjacent: AGRICULTURAL

Infrastructure Impingement: PARTIALLY 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: FORESTED AREAS COULD BE EASILY WIDENED. SOME DISTURBANCE, YARD DEBRIS DUMPING.

Current Efforts NONE OBSERVED

**COMMENTS** NARROW BUT WELL FORESTED RIPARIAN EDGE TO STREAM, THEN GRASS PASTURE. ALONG CREEK OVERSTORY IS NATIVE BUT UNDERSTORY DOMINATED BY Himalayan blackberry (*Rubus discolor*).