

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: SAFEWAY/BI-MART XING  
GPS Location: 44.5507 N 123.3079 W  
Map Number: W-14  
Date: 8/13/2002  
Riparian Code: WC-SQU-R-9  
On-site:  Off-Site:   
Reach Length: 1050 feet  
Investigators: PF/CR  
Hydrologic Basin: SQUAW CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 5-8 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 40-50 feet  
LWI Wetland Code: WC-SQU-W-6  
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: Waldo silty clay loam, Dayton silt loam, Amity silt loam

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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

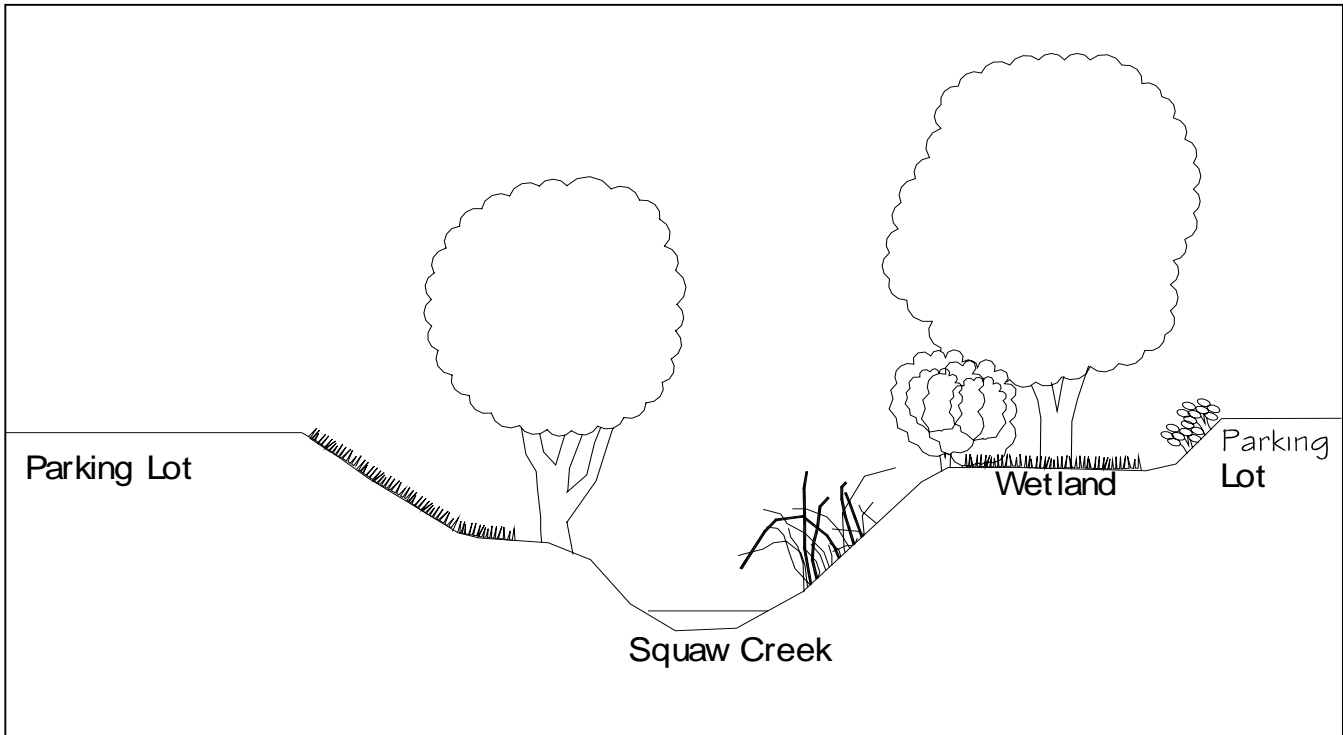


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-SQU-R-9**

Date: 8/13/2002 Investigators: PF/CR  
Dominant tree species: *Fraxinus latifolia*

Comments: Section of Squaw Creek south of Highway 20. Surrounded by commercial development and parking. Riparian area impacted with little buffer to stream and adjacent wetland.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-SQU-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>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>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>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>10</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
<b>WC-SQU-R-9</b>

### 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-SQU-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

**1**

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

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

**2**

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-SQU-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	<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>1</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>1</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>1</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-SQU-R-9</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>1</b>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
<b>Total Points:</b>		<b>15</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:** SQUAW

**Reach:** WC-SQU-R-9

**Size (acres):** 14.25

**Map:** W-14

**Length (feet):** 1050

**Dominant Cover Type:** BARE

**ARA Cover Type:** developed

**Other ARA Types** Hardwood Woodland 30-70% closed canopy, Seasonal wetlands

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

**Dominant Cover Type**

**At Edge of Water:** WOODY

**Edge of Water ARA Type** Shrubs wetland, seasonally

**Riparian System:** LOTIC

**Trees:**

Type: DECIDUOUS

Dominant Species: Oregon ash (*Fraxinus latifolia*)

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: red-osier dogwood (*Cornus stolonifera*)

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%

**Herbaceous**

Type: MIXED

Dominant Species: mixed lawn grasses

Secondary Species: fescue (*Festuca* sp.), Canada thistle (*Cirsium arvense*), ryegrass (*Lolium* 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:** SQUAW

**Map:** W-14

**Reach:** WC-SQU-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: COMMERCIAL

Land Use adjacent: RESIDENTIAL

Infrastructure Impingement: FULLY IMPINGED

In Channel Alteration: MODERATELY ALTERED

LWD Recruitment Potential: LOW

Shade Potential: LOW

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: NONE DUE TO DEVELOPMENT

Current Efforts NONE OBSERVED

**COMMENTS**

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: AT PATH CROSSING  
Behind school

GPS Location: 44.5514 N 123.2906 W

Date: 8/13/2002

Map Number: W-15

On-site:  Off-Site:

Riparian Code: WC-SQU-R-10 (L)

Investigators: PF/CR

Reach Length: 1425 feet

Hydrologic Basin: SQUAW CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 4-6 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 100-200 feet

LWI Wetland Code: WC-SQU-M60-2

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: Waldo silty clay loam, Amity silt loam, Willamette silt loam

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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

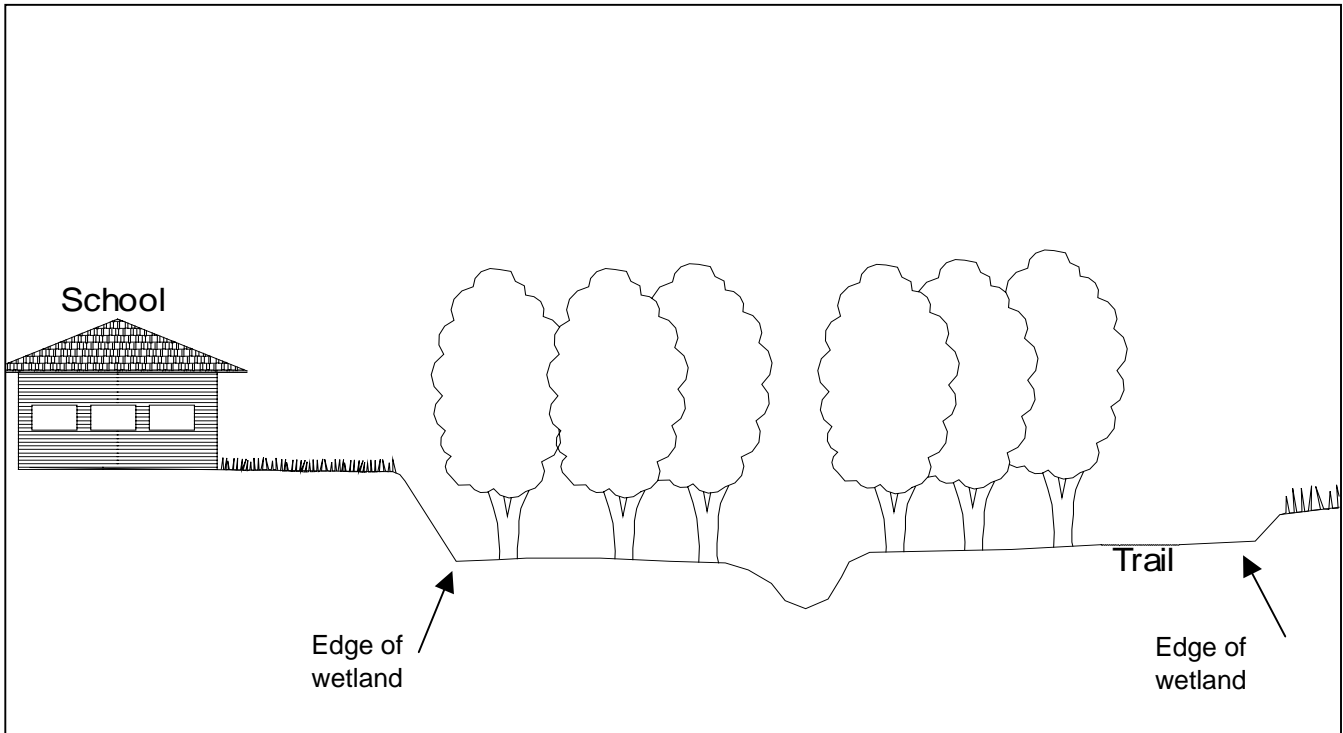


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-SQU-R-10 (L)**

Date: 8/13/2002 Investigators: PF/CR  
Dominant tree species: *Fraxinus latifolia*

Comments: North branch of Squaw Creek, south of Highway 20/34. Drains south and converges with south branch in this reach. Intermittent. Riparian areas dominated by residential, industrial, and private school grounds with little woody veg. Large wetland adjacent to stream.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

WC-SQU-R-10 (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>1</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>10</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-SQU-R-10 (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>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-SQU-R-10 (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

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-SQU-R-10 (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>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>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

RIPARIAN CODE

WC-SQU-R-10 (L)

### WILDLIFE HABITAT (continued)

		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>12</u></b>

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

**FUNCTION IS: LOW**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** SQUAW

**Reach:** WC-SQU-R-10L

**Size (acres):** 12.36

**Map:** W-15

**Length (feet):** 1425

**Dominant Cover Type:** BARE

**ARA Cover Type:** developed

**Other ARA Types** Mixed Forest >70% closed canopy, Grass short (lawn, pasture)

**% of Total Cover** Trees: 5    Shrubs 5    Herbs/Vines 50    Bare: 40

**Dominant Cover Type**

**At Edge of Water:** WOODY

**Edge of Water ARA Type** Mixed Forest >70% closed canopy

**Riparian System:** LOTIC

**Trees:**

Type: DECIDUOUS

Dominant Species: Oregon ash (*Fraxinus latifolia*)

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: Oregon ash (*Fraxinus latifolia*)

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%

**Herbaceous**

Type: MIXED

Dominant Species: mixed lawn grasses

Secondary Species: tall fescue (*Festuca arundinacea*), blugrass (*Poa* sp.), Queen Anne's lace (*Daucus carota*), dandelion hawk's-beard (*Crepis runcinata*), common oat (*Avena sativa*), avens (*Geum* 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:** SQUAW

**Map:** W-15

**Reach:** WC-SQU-R-10L

**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: PARTIALLY IMPINGED

In Channel Alteration: MODERATELY ALTERED

LWD Recruitment Potential: MODERATE

Shade Potential: MODERATE

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: NO OPPORTUNITIES FOR RESTORATION

Current Efforts NONE OBSERVED

**COMMENTS** RESIDENTIAL DEVELOPMENT ON LEFT

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: AT PATH CROSSING  
behind private school

Date: 8/13/2002

On-site:  Off-Site:

Investigators: PF/CR

GPS Location: 44.5514 N 123.2906 W

Map Number: W-15

Riparian Code: WC-SQU-R-10 (R)

Reach Length: 1425 feet

Hydrologic Basin: SQUAW CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 4-6 feet  
Lake/Pond:  Width:                      feet  
Wetland:  Width: 100-200 feet

LWI Wetland Code: WC-SQU-M60-2

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: Waldo silty clay loam, Amity silt loam, Willamette silt loam

Adjacent Land Uses? (Check as many as needed)

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

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

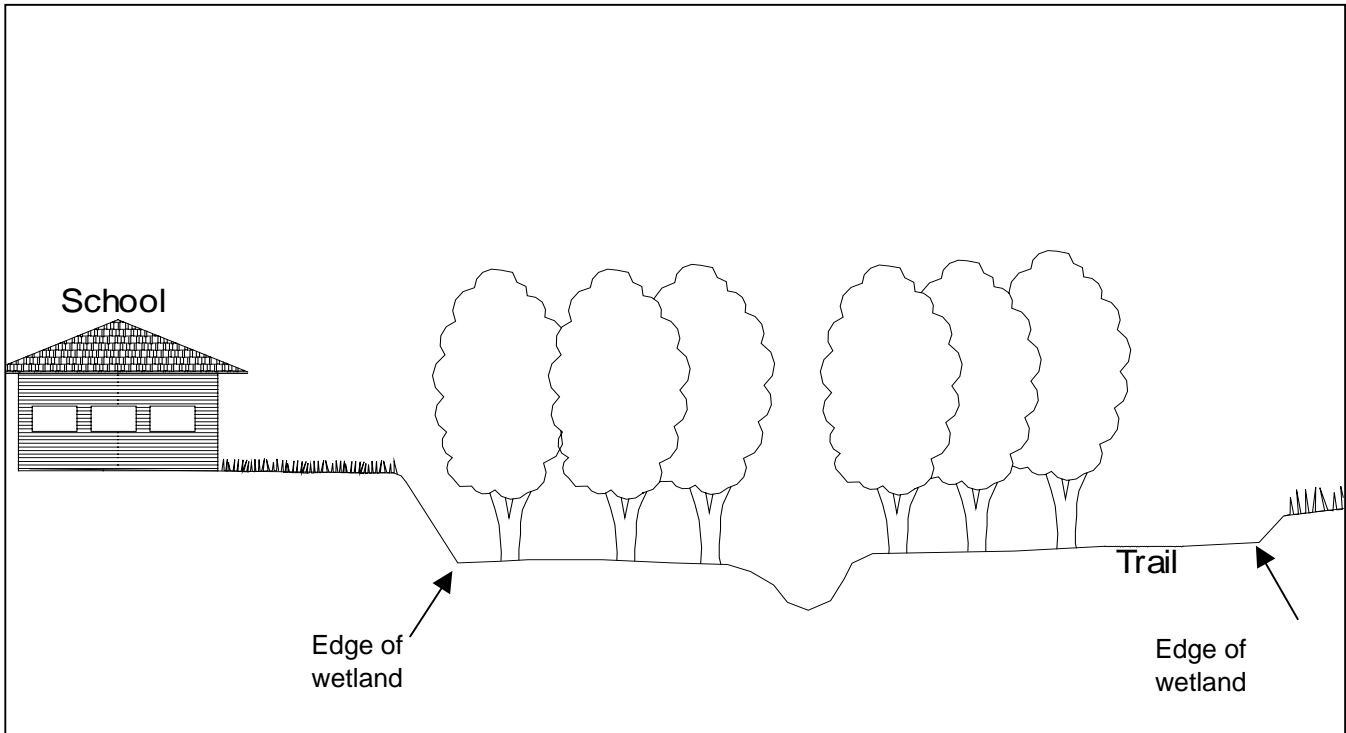


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-SQU-R-10 (R)**

Date: 8/13/2002 Investigators: PF/CR  
Dominant tree species: *Fraxinus latifolia*

Comments: North branch of Squaw Creek. Right side of reach has school property and some industrial development. Drains south and connects to south branch of creek



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

WC-SQU-R-10 (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-SQU-R-10 (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

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-SQU-R-10 (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-SQU-R-10 (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>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

RIPARIAN CODE

WC-SQU-R-10 (R)

### WILDLIFE HABITAT (continued)

		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>3</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>2</u>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
<b>Total Points:</b>		<u>15</u>

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

**FUNCTION IS: MEDIUM**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** SQUAW

**Reach:** WC-SQU-R-10R

**Size (acres):** 12.36

**Map:** W-15

**Length (feet):** 1425

**Dominant Cover Type:** HERBACEOUS

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

**Other ARA Types** Mixed Forest >70% closed canopy, Hardwood Woodland 30-70% closed canopy

**% of Total Cover** Trees: 5    Shrubs 5    Herbs/Vines 90    Bare: 0

**Dominant Cover Type**

**At Edge of Water:** WOODY

**Edge of Water ARA Type** Mixed Forest >70% closed canopy

**Riparian System:** LOTIC

**Trees:**

Type: DECIDUOUS

Dominant Species: Oregon ash (*Fraxinus latifolia*)

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: Oregon ash (*Fraxinus latifolia*)

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%

**Herbaceous**

Type: MIXED

Dominant Species: mixed lawn grasses

Secondary Species: tall fescue (*Festuca arundinacea*), blugrass (*Poa* sp.), Queen Anne's lace (*Daucus carota*), dandelion hawk's-beard (*Crepis runcinata*), common oat (*Avena sativa*), avens (*Geum* 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:** SQUAW

**Map:** W-15

**Reach:** WC-SQU-R-10R

**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: PARTIALLY IMPINGED

In Channel Alteration: MODERATELY ALTERED

LWD Recruitment Potential: MODERATE

Shade Potential: MODERATE

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: PLANTING OF NATIVE TREES AND SHRUBS IN GRASSY AREA WEST OF CREEK

Current Efforts NONE OBSERVED

**COMMENTS** SCHOOL GROUNDS APPEAR TO SIT ON OLD FILL.

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: East of Whiteside Road  
GPS Location: 44.5498 N 123.2836 W  
Map Number: W-15  
Date: 8/13/2002  
Riparian Code: WC-SQU-R-11  
On-site:  Off-Site:   
Reach Length: 1575 feet  
Investigators: PF/CR  
Hydrologic Basin: SQUAW CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 6-8 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: \_\_\_\_\_ feet  
LWI Wetland Code: N/A  
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: Waldo silty clay loam, Willamette silt loam, Amity silt loam

Adjacent Land Uses? (Check as many as needed)

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

Dominant tree species: FRAXINUS LATIFOLIA

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

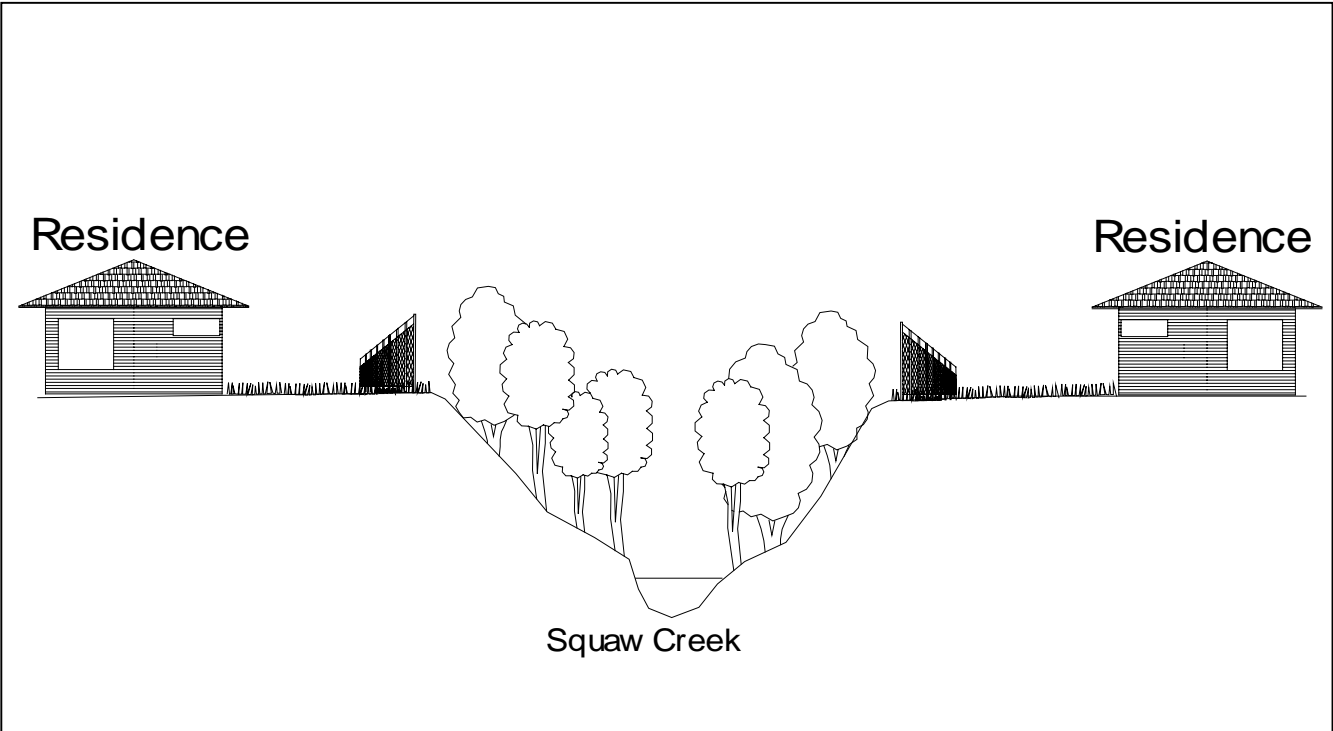


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-SQU-R-11**

Date: 8/13/2002 Investigators: PF/CR  
Dominant tree species: *Fraxinus latifolia*

Comments: Section of Squaw Creek through residential area east of Whiteside Road.  
Riparian area disturbed by houses, yards, ornamentals.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-SQU-R-11**

## 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-SQU-R-11**

### 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

1

**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-SQU-R-11**

### 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

**1**

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

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

**2**

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-SQU-R-11**

### 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>1</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-SQU-R-11</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>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>1</b>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
<b>Total Points:</b>		<b>12</b>

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

**FUNCTION IS: LOW**

Corvallis Natural Features Inventory  
Supplemental Riparian Form

Basin: SQUAW

Reach: WC-SQU-R-11

Size (acres): 16.45

Map: W-15

Length (feet): 1575

**Dominant Cover Type:** BARE

**ARA Cover Type:** developed

**Other ARA Types** Grass short (lawn, pasture), Seasonal wetlands

**% of Total Cover** Trees: 5    Shrubs 1    Herbs/Vines 25    Bare: 69

**Dominant Cover Type**

**At Edge of Water:** WOODY

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

**Riparian System:** LOTIC

**Trees:**

Type: DECIDUOUS

Dominant Species: Oregon ash (*Fraxinus latifolia*)

Secondary Species: Willow (*Salix* sp.), 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: Oregon ash (*Fraxinus latifolia*)

Secondary Species: willow (*Salix* 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: mixed lawn grasses

Secondary Species: bentgrass (*Agrostis* sp.), tall fescue (*Festuca arundinacea*), ryegrass (*Lolium* sp.),  
Queen Anne's lace (*Daucus carota*), 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%

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** SQUAW

**Map:** W-15

**Reach:** WC-SQU-R-11

**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: 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: NONE DUE TO RESIDENTIAL DEVELOPMENTS ON BOTH SIDES

Current Efforts NONE OBSERVED

**COMMENTS**

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

**Location of data point:** North Fork of Squaw Creek  
at 53rd

**GPS Location:** 44.5600 N 123.3021 W

**Date:** 10/1/2002

**Map Number:** W-10

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

**Riparian Code:** WC-SQU-R-12

**Investigators:** PF / CR

**Reach Length:** 3600 feet

**Hydrologic Basin:** SQUAW CREEK

### WATER RESOURCE INFORMATION

<b>Water Resource:</b>	<b>Stream/River:</b> <input checked="" type="checkbox"/>	<b>Width:</b> <u>5-15</u> feet
	<b>Lake/Pond:</b> <input type="checkbox"/>	<b>Width:</b> _____ feet
	<b>Wetland:</b> <input checked="" type="checkbox"/>	<b>Width:</b> <u>150-500</u> feet

**LWI Wetland Code:** WC-SQU-W-11

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

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

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

**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-SQU-R-12**

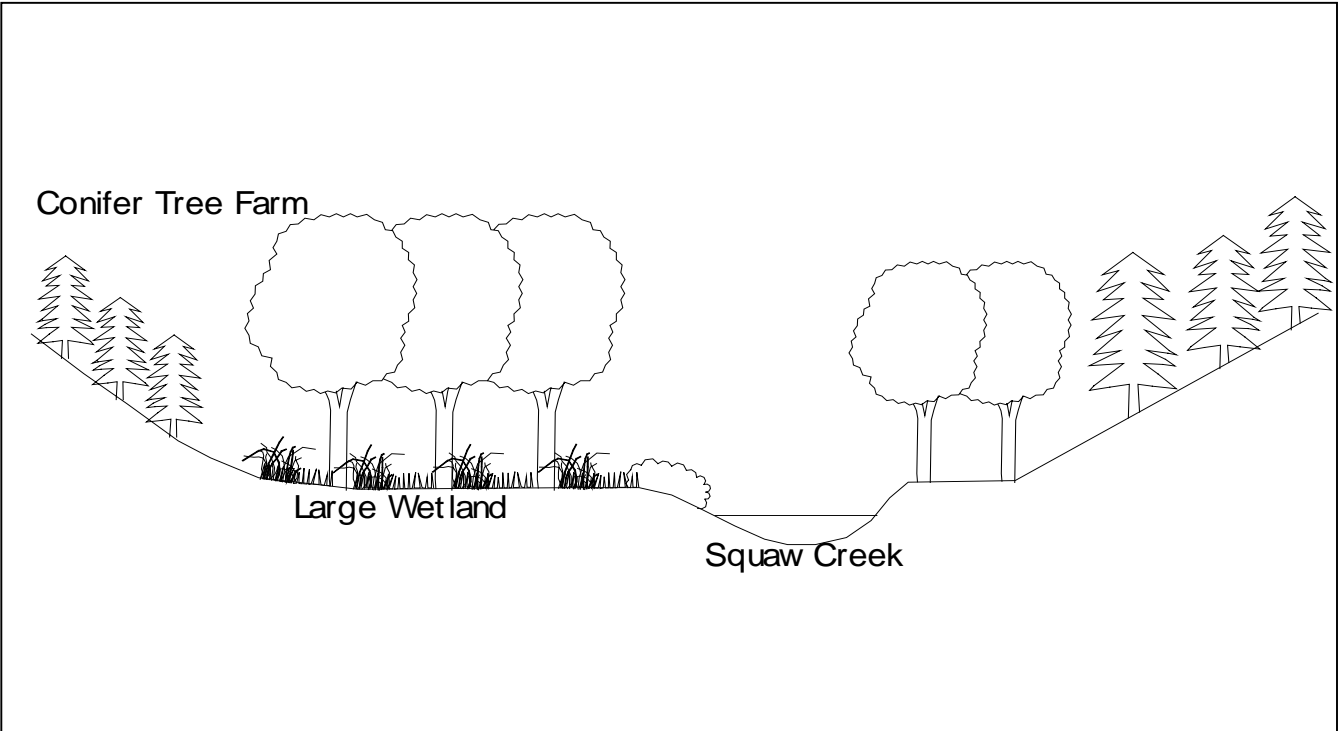
Date: 10/1/2002 Investigators: PF / CR  
Dominant tree species: Fraxinus latifolia

Comments: North Fork of Squaw Creek between 53rd and West Hills Road. Most of riparian area is tree farm. Church at south end by West Hills Road.

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# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-SQU-R-12**

### 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>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>14</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-SQU-R-12**

### 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>3</b>
b. Yes	..... 1 pts	
<b>Total Points:</b>		<b>9</b>

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

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-SQU-R-12**

### 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-SQU-R-12**

### 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-SQU-R-12**

### 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

**1**

**Total Points:**

**21**

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> SQUAW	<b>Reach:</b> WC-SQU-R-12	<b>Size (acres):</b> 98.28
<b>Map:</b> W-10, W-14		<b>Length (feet):</b> 3600
<b>Dominant Cover Type:</b> WOODY		
<b>ARA Cover Type:</b> Conifer forest >70% closed canopy		
<b>Other ARA Types:</b> Grass short (lawn, pasture), Seasonal wetlands		
<b>% of Total Cover:</b> Trees: 60 <b>Shrubs:</b> 10 <b>Herbs/Vines:</b> 30 <b>Bare:</b> 0		
<b>Dominant Cover Type 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: EVERGREEN		
Dominant Species: Douglas fir ( <i>Pseudotsuga menziesii</i> )		
Secondary Species: NONE		
% 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: EVERGREEN		
Dominant Species: Douglas fir ( <i>Pseudotsuga menziesii</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 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: MIXED		
Dominant Species: mixed grasses		
Secondary Species: WEEDS		
% 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 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:** SQUAW

**Map:** W-10, W-14

**Reach:** WC-SQU-R-12

**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: UNALTERED

LWD Recruitment Potential: LOW

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: NATIVE SHRUB PLANTINGS; WEED REMOVAL

Current Efforts NONE OBSERVED

**COMMENTS** TREE FARM ADJACENT TO LARGE LOCALLY SIGNIFICANT WETLAND

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: AT PATH CROSSING  
Behind school

GPS Location: 44.5514 N 123.2906 W

Date: 8/13/2002

Map Number: W-15

On-site:  Off-Site:

Investigators: PF/CR

Riparian Code: WC-SQU-R-10 (L)

Reach Length: 1425 feet

Hydrologic Basin: SQUAW CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 4-6 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 100-200 feet

LWI Wetland Code: WC-SQU-M60-2

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: Waldo silty clay loam, Amity silt loam, Willamette silt loam

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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

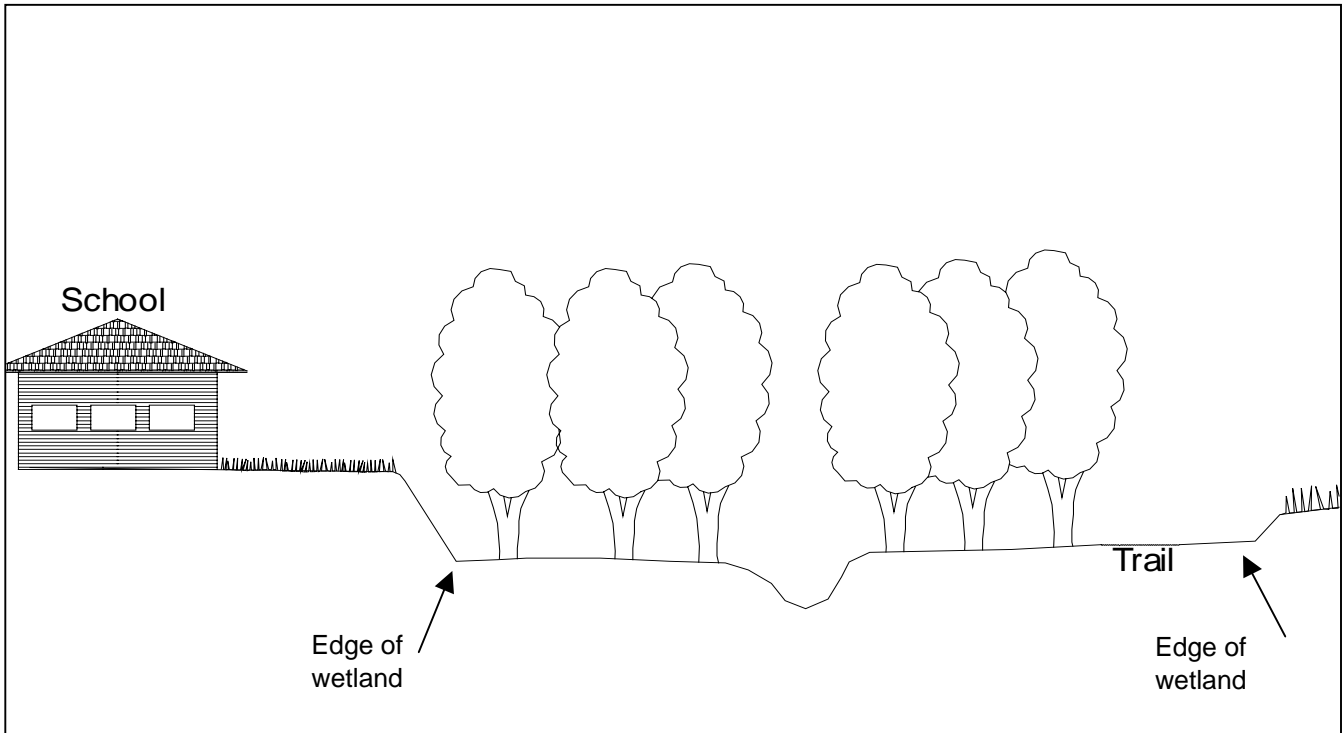


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-SQU-R-10 (L)**

Date: 8/13/2002 Investigators: PF/CR  
Dominant tree species: *Fraxinus latifolia*

Comments: North branch of Squaw Creek, south of Highway 20/34. Drains south and converges with south branch in this reach. Intermittent. Riparian areas dominated by residential, industrial, and private school grounds with little woody veg. Large wetland adjacent to stream.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

WC-SQU-R-10 (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>1</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>10</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-SQU-R-10 (L)**

### 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-SQU-R-10 (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

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-SQU-R-10 (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>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>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

RIPARIAN CODE

WC-SQU-R-10 (L)

### WILDLIFE HABITAT (continued)

		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>3</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>1</u>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
<b>Total Points:</b>		<u>12</u>

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

FUNCTION IS: **LOW**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

<b>Basin:</b> SQUAW	<b>Reach:</b> WC-SQU-R-10L	<b>Size (acres):</b> 12.36
<b>Map:</b> W-15		<b>Length (feet):</b> 1425
<b>Dominant Cover Type:</b> BARE		
<b>ARA Cover Type:</b> developed		
<b>Other ARA Types</b> Mixed Forest >70% closed canopy, Grass short (lawn, pasture)		
<b>% of Total Cover</b> Trees: 5    Shrubs 5    Herbs/Vines 50    Bare: 40		
<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: DECIDUOUS		
Dominant Species: Oregon ash ( <i>Fraxinus latifolia</i> )		
Secondary Species: NONE		
% Total Cover: <input checked="" type="radio"/> <10% <input 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: Oregon ash ( <i>Fraxinus latifolia</i> )		
Secondary Species: NONE		
% Total Cover: <input checked="" type="radio"/> <10% <input 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: MIXED		
Dominant Species: mixed lawn grasses		
Secondary Species: tall fescue ( <i>Festuca arundinacea</i> ), blugrass ( <i>Poa</i> sp.), Queen Anne's lace ( <i>Daucus carota</i> ), dandelion hawk's-beard ( <i>Crepis runcinata</i> ), common oat ( <i>Avena sativa</i> ), avens ( <i>Geum</i> sp.)		
% 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 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:** SQUAW

**Map:** W-15

**Reach:** WC-SQU-R-10L

**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: PARTIALLY IMPINGED

In Channel Alteration: MODERATELY ALTERED

LWD Recruitment Potential: MODERATE

Shade Potential: MODERATE

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: NO OPPORTUNITIES FOR RESTORATION

Current Efforts NONE OBSERVED

**COMMENTS** RESIDENTIAL DEVELOPMENT ON LEFT

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: AT PATH CROSSING  
behind private school

GPS Location: 44.5514 N 123.2906 W

Date: 8/13/2002

Map Number: W-15

On-site:  Off-Site:

Riparian Code: WC-SQU-R-10 (R)

Investigators: PF/CR

Reach Length: 1425 feet

Hydrologic Basin: SQUAW CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 4-6 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 100-200 feet

LWI Wetland Code: WC-SQU-M60-2

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: Waldo silty clay loam, Amity silt loam, Willamette silt loam

Adjacent Land Uses? (Check as many as needed)

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

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

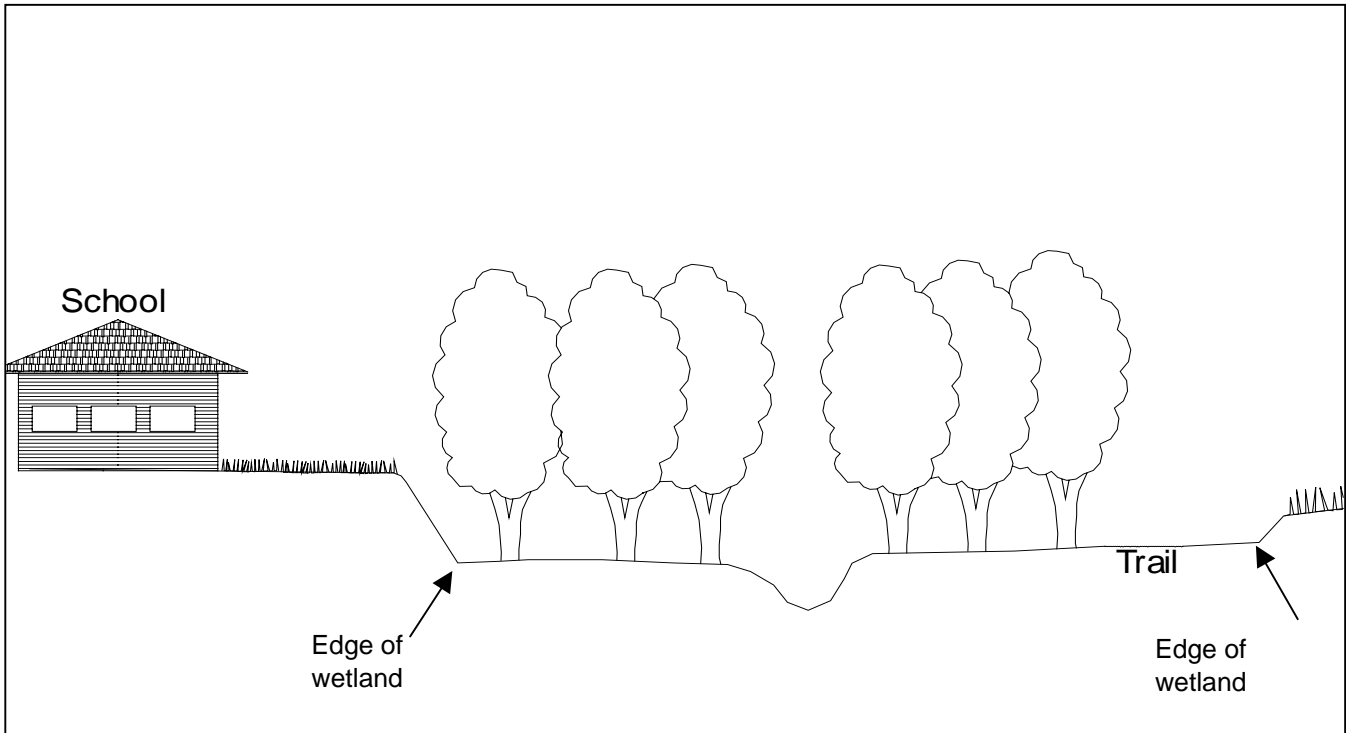


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-SQU-R-10 (R)**

Date: 8/13/2002 Investigators: PF/CR  
Dominant tree species: *Fraxinus latifolia*

Comments: North branch of Squaw Creek. Right side of reach has school property and some industrial development. Drains south and connects to south branch of creek



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

WC-SQU-R-10 (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-SQU-R-10 (R)**

### 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-SQU-R-10 (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-SQU-R-10 (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>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

RIPARIAN CODE

WC-SQU-R-10 (R)

### WILDLIFE HABITAT (continued)

		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>3</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>2</u>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
<b>Total Points:</b>		<u>15</u>

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> SQUAW	<b>Reach:</b> WC-SQU-R-10R	<b>Size (acres):</b> 12.36
<b>Map:</b> W-15		<b>Length (feet):</b> 1425
<b>Dominant Cover Type:</b> HERBACEOUS		
<b>ARA Cover Type:</b> Grass short (lawn, pasture)		
<b>Other ARA Types</b> Mixed Forest >70% closed canopy, Hardwood Woodland 30-70% closed canopy		
<b>% of Total Cover</b> Trees: 5    Shrubs 5    Herbs/Vines 90    Bare: 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: DECIDUOUS		
Dominant Species: Oregon ash ( <i>Fraxinus latifolia</i> )		
Secondary Species: NONE		
% Total Cover: <input checked="" type="radio"/> <10% <input 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: Oregon ash ( <i>Fraxinus latifolia</i> )		
Secondary Species: NONE		
% Total Cover: <input checked="" type="radio"/> <10% <input 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: MIXED		
Dominant Species: mixed lawn grasses		
Secondary Species: tall fescue ( <i>Festuca arundinacea</i> ), blugrass ( <i>Poa</i> sp.), Queen Anne's lace ( <i>Daucus carota</i> ), dandelion hawk's-beard ( <i>Crepis runcinata</i> ), common oat ( <i>Avena sativa</i> ), avens ( <i>Geum</i> sp.)		
% 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 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:** SQUAW

**Map:** W-15

**Reach:** WC-SQU-R-10R

**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: PARTIALLY IMPINGED

In Channel Alteration: MODERATELY ALTERED

LWD Recruitment Potential: MODERATE

Shade Potential: MODERATE

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: PLANTING OF NATIVE TREES AND SHRUBS IN GRASSY AREA WEST OF CREEK

Current Efforts NONE OBSERVED

**COMMENTS** SCHOOL GROUNDS APPEAR TO SIT ON OLD FILL.

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: East of Whiteside Road  
GPS Location: 44.5498 N 123.2836 W  
Map Number: W-15  
Date: 8/13/2002  
Riparian Code: WC-SQU-R-11  
On-site:  Off-Site:   
Reach Length: 1575 feet  
Investigators: PF/CR  
Hydrologic Basin: SQUAW CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 6-8 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: \_\_\_\_\_ feet  
LWI Wetland Code: N/A  
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: Waldo silty clay loam, Willamette silt loam, Amity silt loam

Adjacent Land Uses? (Check as many as needed)

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

Dominant tree species: FRAXINUS LATIFOLIA

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

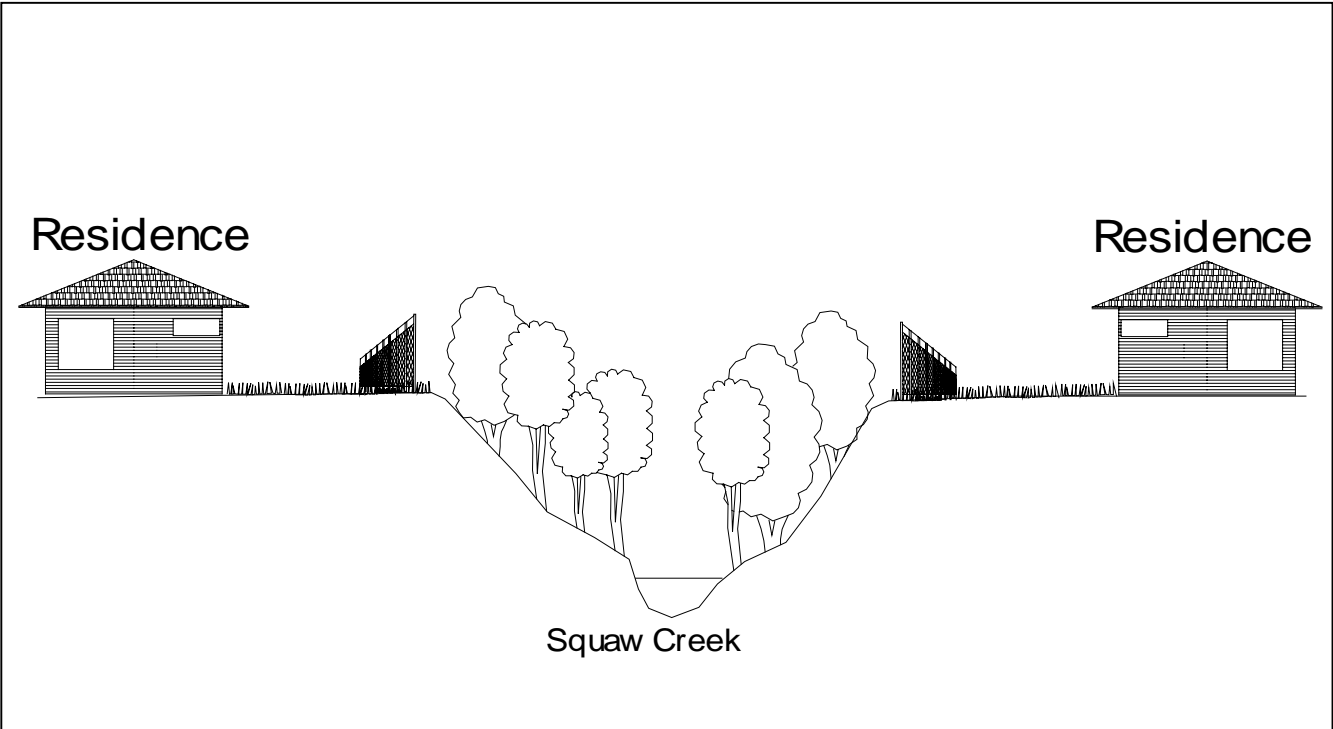


## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-SQU-R-11**

Date: 8/13/2002 Investigators: PF/CR  
Dominant tree species: *Fraxinus latifolia*

Comments: Section of Squaw Creek through residential area east of Whiteside Road.  
Riparian area disturbed by houses, yards, ornamentals.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-SQU-R-11**

## 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-SQU-R-11**

### FLOOD MANAGEMENT

	Score
<p><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></p> <p>a. Yes ..... 3 pts</p> <p>b. No ..... 1 pt</p>	<p><b>3</b></p> <hr/>
<p><b>7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?</b></p> <p>a. Yes ..... 3 pts</p> <p>b. No or no flood prone area present ..... 1 pt</p>	<p><b>1</b></p> <hr/>
<p><b>8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?</b></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>5</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-SQU-R-11**

### 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

**1**

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

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

**2**

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-SQU-R-11**

### 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>1</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-SQU-R-11**

### 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

**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:**

**12**

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

**FUNCTION IS:**

**LOW**

Corvallis Natural Features Inventory  
Supplemental Riparian Form

Basin: SQUAW

Reach: WC-SQU-R-11

Size (acres): 16.45

Map: W-15

Length (feet): 1575

**Dominant Cover Type:** BARE

**ARA Cover Type:** developed

**Other ARA Types** Grass short (lawn, pasture), Seasonal wetlands

**% of Total Cover** Trees: 5    Shrubs 1    Herbs/Vines 25    Bare: 69

**Dominant Cover Type**

**At Edge of Water:** WOODY

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

**Riparian System:** LOTIC

**Trees:**

Type: DECIDUOUS

Dominant Species: Oregon ash (*Fraxinus latifolia*)

Secondary Species: Willow (*Salix* sp.), 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: Oregon ash (*Fraxinus latifolia*)

Secondary Species: willow (*Salix* 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: mixed lawn grasses

Secondary Species: bentgrass (*Agrostis* sp.), tall fescue (*Festuca arundinacea*), ryegrass (*Lolium* sp.),  
Queen Anne's lace (*Daucus carota*), 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%

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** SQUAW

**Map:** W-15

**Reach:** WC-SQU-R-11

**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: 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: NONE DUE TO RESIDENTIAL DEVELOPMENTS ON BOTH SIDES

Current Efforts NONE OBSERVED

**COMMENTS**

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: North Fork of Squaw Creek  
at 53rd

GPS Location: 44.5600 N 123.3021 W

Date: 10/1/2002

Map Number: W-10

On-site:  Off-Site:

Riparian Code: WC-SQU-R-12

Investigators: PF / CR

Reach Length: 3600 feet

Hydrologic Basin: SQUAW CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 5-15 feet  
Lake/Pond:  Width: \_\_\_\_\_ feet  
Wetland:  Width: 150-500 feet

LWI Wetland Code: WC-SQU-W-11

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: \_\_\_\_\_

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-SQU-R-12**

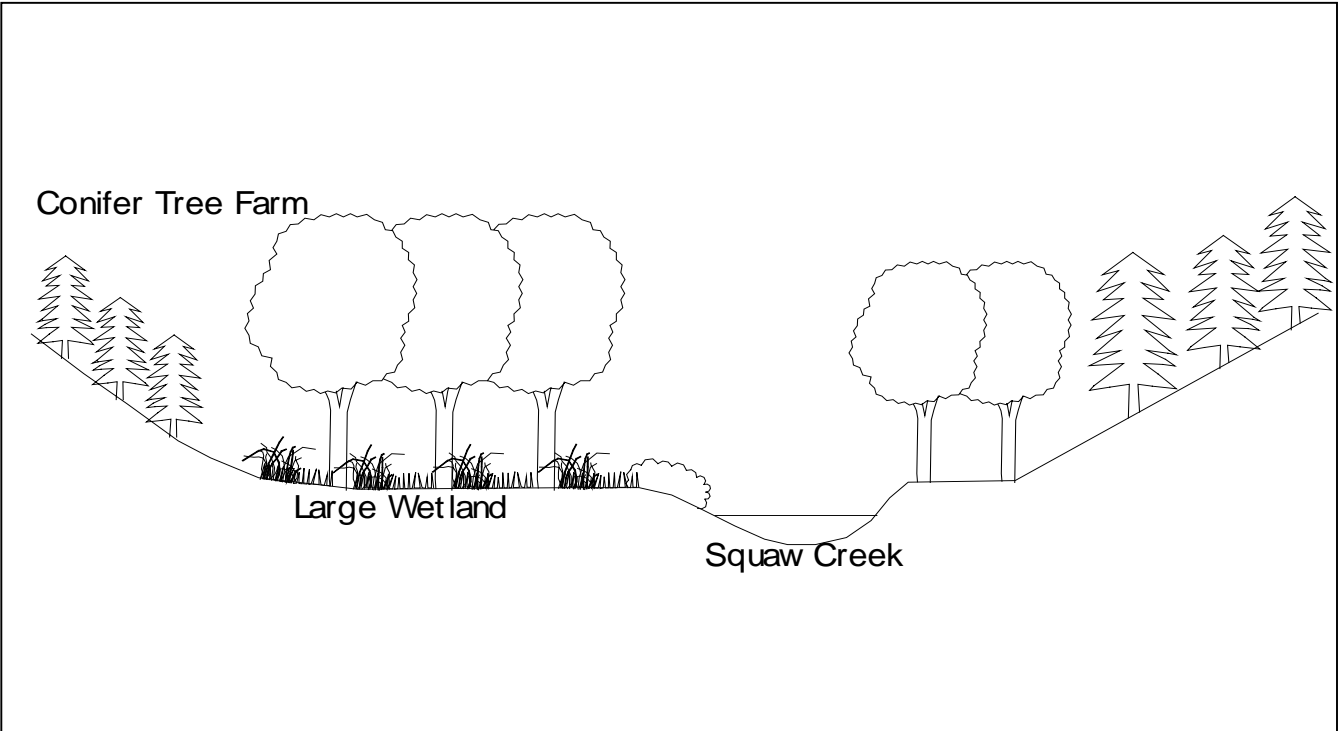
Date: 10/1/2002 Investigators: PF / CR  
Dominant tree species: *Fraxinus latifolia*

Comments: North Fork of Squaw Creek between 53rd and West Hills Road. Most of riparian area is tree farm. Church at south end by West Hills Road.

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# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**WC-SQU-R-12**

## 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>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>14</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-SQU-R-12**

### 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>3</b>
b. Yes	..... 1 pts	
<b>Total Points:</b>		<b>9</b>

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

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**WC-SQU-R-12**

### 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-SQU-R-12**

### 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-SQU-R-12**

### 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

**1**

**Total Points:**

**21**

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> SQUAW	<b>Reach:</b> WC-SQU-R-12	<b>Size (acres):</b> 98.28
<b>Map:</b> W-10, W-14		<b>Length (feet):</b> 3600
<b>Dominant Cover Type:</b> WOODY		
<b>ARA Cover Type:</b> Conifer forest >70% closed canopy		
<b>Other ARA Types:</b> Grass short (lawn, pasture), Seasonal wetlands		
<b>% of Total Cover:</b> Trees: 60 <b>Shrubs:</b> 10 <b>Herbs/Vines:</b> 30 <b>Bare:</b> 0		
<b>Dominant Cover Type 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: EVERGREEN		
Dominant Species: Douglas fir ( <i>Pseudotsuga menziesii</i> )		
Secondary Species: NONE		
% 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: EVERGREEN		
Dominant Species: Douglas fir ( <i>Pseudotsuga menziesii</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 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: MIXED		
Dominant Species: mixed grasses		
Secondary Species: WEEDS		
% 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 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:** SQUAW

**Map:** W-10, W-14

**Reach:** WC-SQU-R-12

**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: UNALTERED

LWD Recruitment Potential: LOW

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: NATIVE SHRUB PLANTINGS; WEED REMOVAL

Current Efforts NONE OBSERVED

**COMMENTS** TREE FARM ADJACENT TO LARGE LOCALLY SIGNIFICANT WETLAND