

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: East of Elliot Circle  
GPS Location: 44.6257 N 123.2315 W  
Map Number: N-3  
Date: 10/9/2002  
Riparian Code: N-LEW-R-1  
On-site:  Off-Site:   
Reach Length: 1350 feet  
Investigators: PF  
Hydrologic Basin: LEWISBURG CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 2-4 feet  
Lake/Pond:  Width:                      feet  
Wetland:  Width: 50-200+ feet  
LWI Wetland Code: N-LEW-W-2  
Water present year-round: Yes  No   
Are salmonids present in the adjacent water resource? Yes  No   
Is the water resource listed for temperature on DEQ's 303(d) list: Yes  No   
Within FEMA-mapped 100-year floodplain: Yes  No

Mapped soil series: Woodburn silt loam, Dayton 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

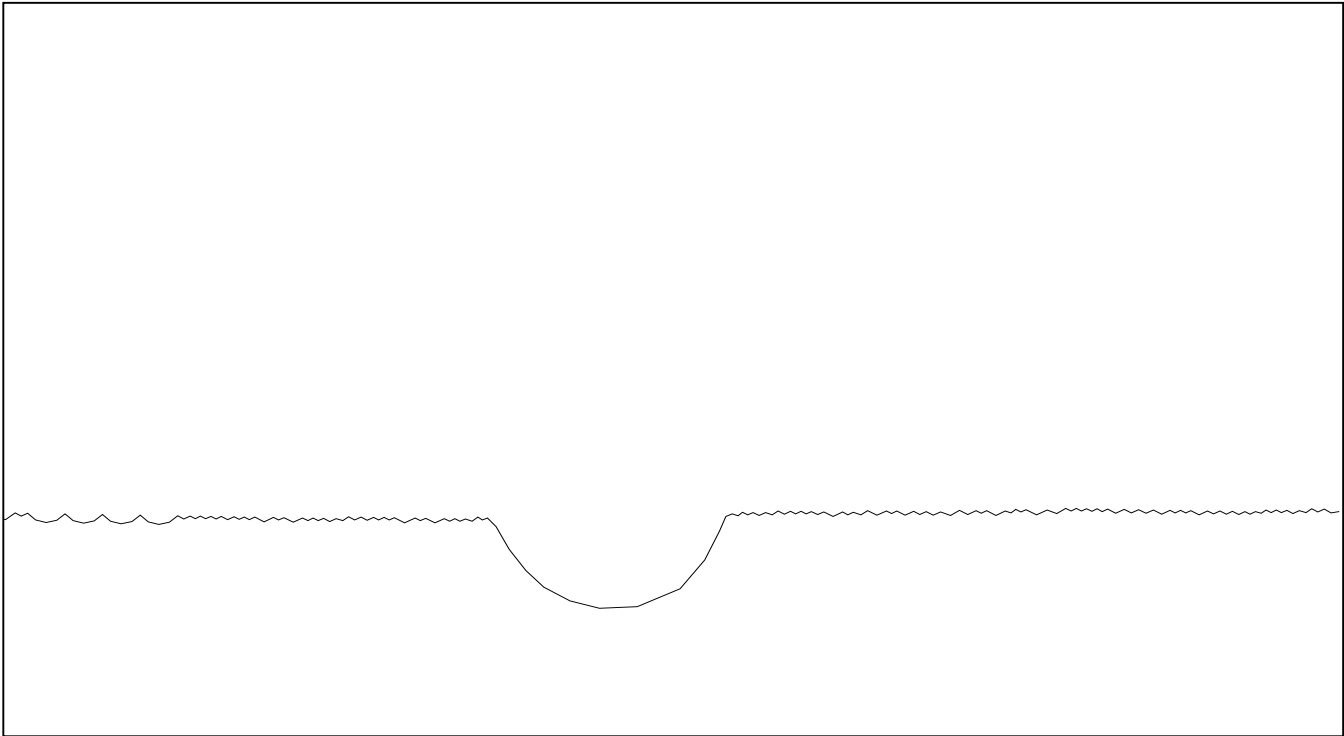


## Corvallis Riparian Inventory

RIPARIAN CODE  
**N-LEW-R-1**

**Date:** 10/9/2002      **Investigators:** PF  
**Dominant tree species:** *Fraxinus latifolia*

**Comments:** Intermittent drainage in Lewisburg area. Drains east and outside of UGB.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**N-LEW-R-1**

### WATER QUALITY

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

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

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**N-LEW-R-1**

### FLOOD MANAGEMENT

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

Score

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

3

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

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

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  
**N-LEW-R-1**

### THERMAL REGULATION

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

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

Score

**3**

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

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

**2**

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

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

**1**

Total Points:

**6**

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

FUNCTION IS:

**MEDIUM**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**N-LEW-R-1**

### WILDLIFE HABITAT

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

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

### WILDLIFE HABITAT (continued)

RIPARIAN CODE
<b>N-LEW-R-1</b>

		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>		<b><u>14</u></b>

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

**FUNCTION IS: MEDIUM**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** LEWISBURG

**Reach:** N-LEW-R-1

**Size (acres):** 10.28

**Map:** N-3

**Length (feet):** 1350

**Dominant Cover Type:** HERBACEOUS

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

**Other ARA Types:** Grass short (lawn, pasture)

**% of Total Cover:** Trees: 0    Shrubs: 0    Herbs/Vines: 100    Bare: 0

**Dominant Cover Type**

**At Edge of Water:** HERBACEOUS

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

**Riparian System:** LOTIC

**Trees:**

Type: NONE

Dominant Species: NONE

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: NONE

Dominant Species: NONE

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: DECIDUOUS

Dominant Species: common velvetgrass (*Holcus lanatus*)

Secondary Species: colonial bentgrass (*Agrostis tenuis*), tall fescue (*Festuca arundinacea*), perennial ryegrass (*Lolium perenne*)

% 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:** LEWISBURG

**Map:** N-3

**Reach:** N-LEW-R-1

**RTE Species**

ORNHIC Plant Community:  None Noted  Listed Community Noted

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

**Riparian Condition Assessment**

Land Use within: AGRICULTURAL

Land Use adjacent: AGRICULTURAL

Infrastructure Impingement: NON-IMPINGED

In Channel Alteration: UNALTERED

LWD Recruitment Potential: NONE

Shade Potential: NONE

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: RIPARIAN ENHANCEMENT POTENTIAL THROUGHOUT

Current Efforts NONE OBSERVED

**COMMENTS** NONE

# Riparian Characterization Form



## Corvallis Riparian Inventory

### GENERAL INFORMATION

Location of data point: Elliot Grange Rd  
crossing. E of 99

GPS Location: 44.6299 N 123.2368 W

Date: 9/27/2002

Map Number: N-3

On-site:  Off-Site:

Riparian Code: N-LEW-R-2

Investigators: PF

Reach Length: 1350 feet

Hydrologic Basin: LEWISBURG CREEK

### WATER RESOURCE INFORMATION

Water Resource: Stream/River:  Width: 10-12 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

Adjacent Land Uses? (Check as many as needed)

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

Dominant tree species: FRAXINUS LATIFOLIA

Comments: see other page

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

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

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

<10%  10% - 25%  >25%

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

Yes  No

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

Yes  No

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

Woody vegetation  Herbaceous vegetation  Bare ground

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

Yes  No

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

Yes  No

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

>40%  10% - 40%  <10%

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

<25%  25% - 75%  >75%

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

low, slight moderate  high, very high, severe

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

Woody vegetation  Herbaceous vegetation  Bare ground

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

Yes  No

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

Yes  No or no flood prone area present

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

More than 2  2 layers  1 layer or unvegetated

# Riparian Width Determination

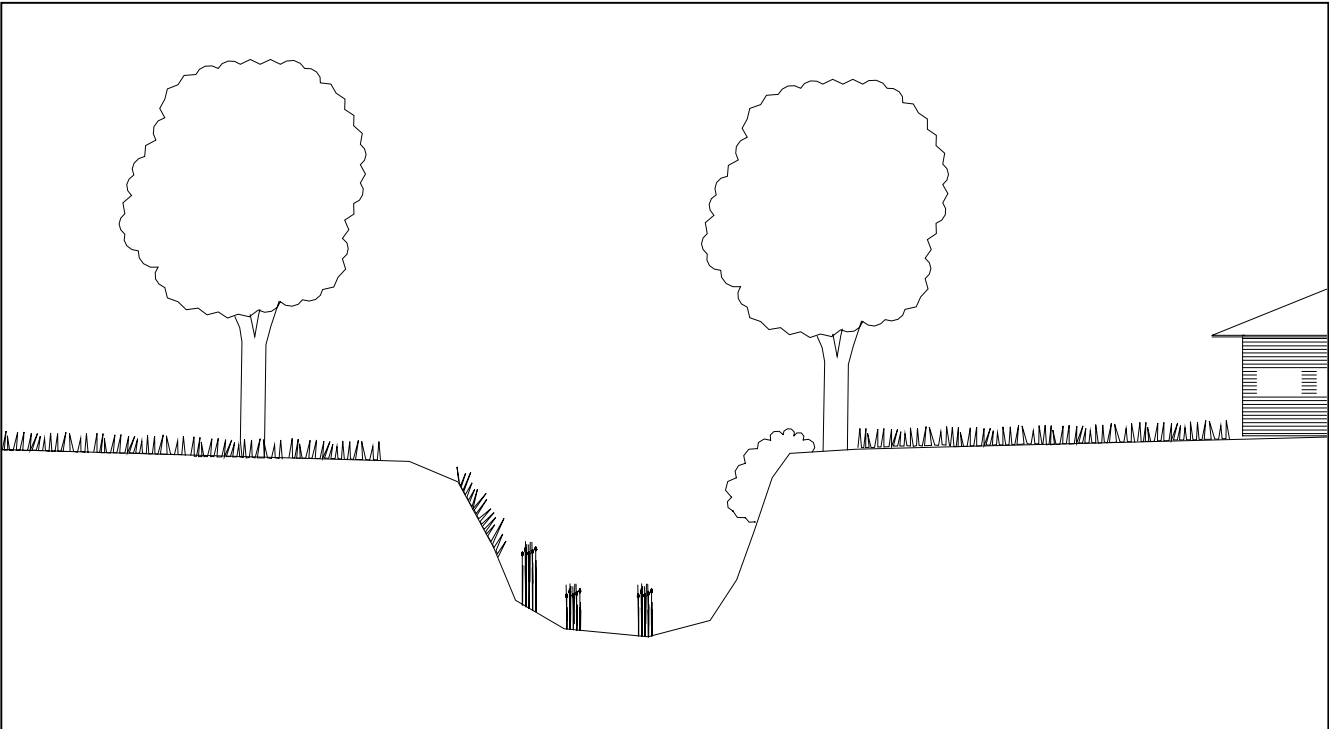


## Corvallis Riparian Inventory

RIPARIAN CODE  
**N-LEW-R-2**

**Date:** 9/27/2002      **Investigators:** PF  
**Dominant tree species:** *Fraxinus latifolia*

**Comments:** Intermittent tributary to Frazier Creek in Lewisburg Area. Riparian area is mostly disturbed - grazed, farmed, mowed. Some rip-rap at road and railroad track crossing. Culverted under Hwy. 99.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**N-LEW-R-2**

### WATER QUALITY

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

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

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**N-LEW-R-2**

### FLOOD MANAGEMENT

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

Score

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

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 pts

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  
**N-LEW-R-2**

### THERMAL REGULATION

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

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

Score

**3**

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

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

**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

**N-LEW-R-2**

### WILDLIFE HABITAT

		Score
<b>12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?</b>		
a. More than 2 layers	3 pts	<u>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>3</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

### WILDLIFE HABITAT (continued)

RIPARIAN CODE

**N-LEW-R-2**

17. Is surface water present throughout the year?

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

Score

**1**

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

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

**1**

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

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

**1**

**Total Points:**

**13**

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

**FUNCTION IS:**

**MEDIUM**

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** LEWISBURG

**Reach:** N-LEW-R-2

**Size (acres):** 14.09

**Map:** N-3

**Length (feet):** 1350

**Dominant Cover Type:** HERBACEOUS

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

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

**% of Total Cover** Trees: 10   **Shrubs** 5   **Herbs/Vines** 85   **Bare:** 0

**Dominant Cover Type**

**At Edge of Water:** WOODY

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

**Riparian System:** LOTIC

**Trees:**

Type: DECIDUOUS

Dominant Species: Oregon ash (*Fraxinus latifolia*)

Secondary Species: 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%

**Shrubs/Sapling**

Type: DECIDUOUS

Dominant Species: willow (*Salix* sp.)

Secondary Species: Rose (*Rosa* sp.), Himalayan blackberry (*Rubus discolor*)

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

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

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

**Herbaceous**

Type: MIXED

Dominant Species: mixed grasses

Secondary Species: creeping velvetgrass (*Holcus mollis*), field horsetail (*Equisetum arvense*)

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

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

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

**Corvallis Natural Features Inventory  
Supplemental Riparian Form**

**Basin:** LEWISBURG

**Map:** N-3

**Reach:** N-LEW-R-2

**RTE Species**

ORNHIC Plant Community:  None Noted  Listed Community Noted

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

**Riparian Condition Assessment**

Land Use within: AGRICULTURAL, RESIDENTIAL

Land Use adjacent: AGRICULTURAL

Infrastructure Impingement: FULLY 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: FARMED WETLANDS RIPARIAN AREAS

Current Efforts NONE OBSERVED

**COMMENTS** INTERMITTENT DRAINAGE

# Riparian Characterization Form



## Corvallis Riparian Inventory

GENERAL INFORMATION	
Location of data point: Between Highway 99 and Mt. View Drive	GPS Location: 44.6320 N 123.2429 W
Date: 10/9/2002	Map Number: N-2
On-site: <input type="checkbox"/> Off-Site: <input checked="" type="checkbox"/>	Riparian Code: N-LEW-R-3
Investigators: PF	Reach Length: 3375 feet
	Hydrologic Basin: LEWISBURG CREEK

WATER RESOURCE INFORMATION	
Water Resource: Stream/River: <input checked="" type="checkbox"/>	Width: 2-8 feet
Lake/Pond: <input type="checkbox"/>	Width: _____ feet
Wetland: <input checked="" type="checkbox"/>	Width: 50-200+ feet
LWI Wetland Code: N-LEW-W-1	
Water present year-round: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Are salmonids present in the adjacent water resource? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the water resource listed for temperature on DEQ's 303(d) list: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Within FEMA-mapped 100-year floodplain: Yes  No

Mapped soil series: Amity silt loam, Woodburn silt loam, Waldo silty clay loam

Adjacent Land Uses? (Check as many as needed)

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

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

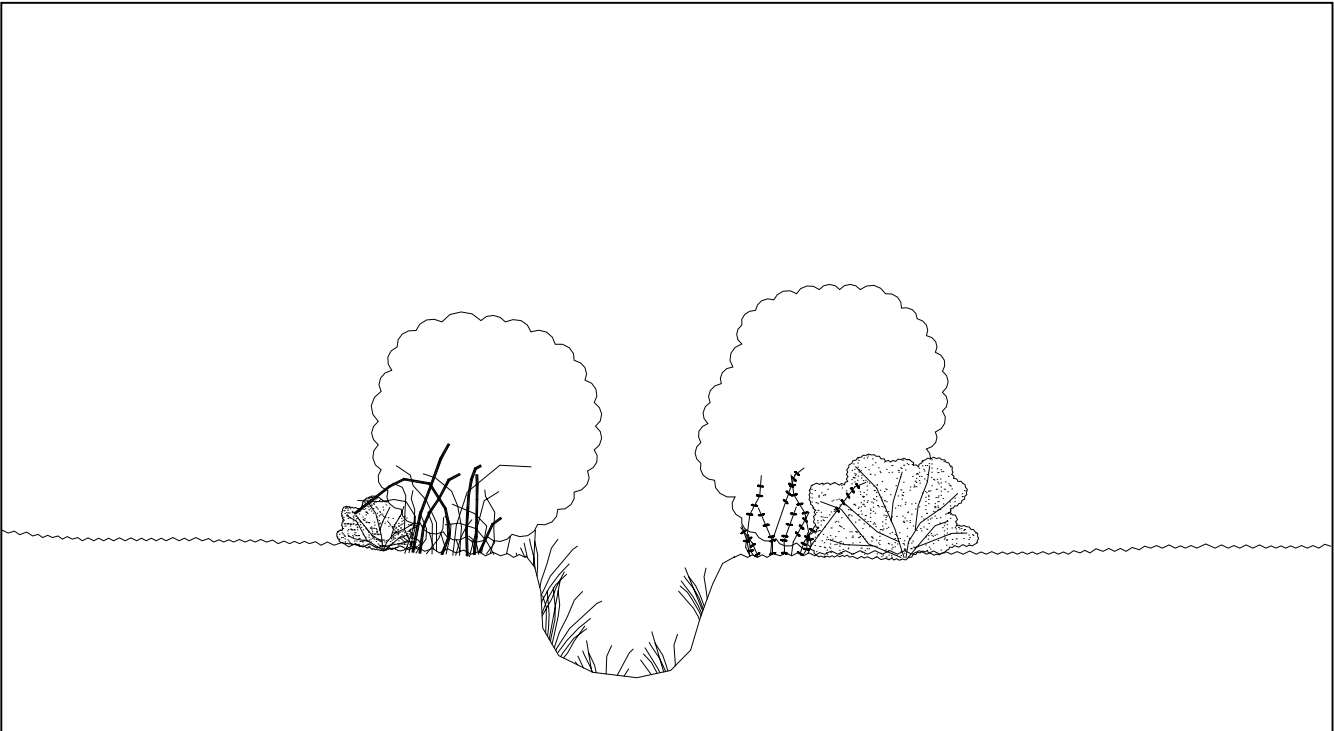


## Corvallis Riparian Inventory

RIPARIAN CODE  
**N-LEW-R-3**

**Date:** 10/9/2002      **Investigators:** PF  
**Dominant tree species:** *Fraxinus latifolia*

**Comments:** Lewisburg drainage between Highway 99 and Highland. Several branches of intermittent drainages converge and flow east. Some disturbance from farming and rural residential.



# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE

**N-LEW-R-3**

## WATER QUALITY

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

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

**FUNCTION IS:**    **HIGH**

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

RIPARIAN CODE  
**N-LEW-R-3**

### 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  
**N-LEW-R-3**

### 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

**N-LEW-R-3**

### 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>3</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet



## Corvallis Riparian Inventory

### WILDLIFE HABITAT (continued)

RIPARIAN CODE
<b>N-LEW-R-3</b>

		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><b>16</b></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:** LEWISBURG

**Reach:** N-LEW-R-3

**Size (acres):** 37.70

**Map:** N-2

**Length (feet):** 3375

**Dominant Cover Type:** HERBACEOUS

**ARA Cover Type:** Emergent wetland (seasonal water)

**Other ARA Types** Grass short (lawn, pasture), Mixed Forest >70% closed canopy, Open (<30% canopy)

**% of Total Cover** Trees: 20   **Shrubs** 20   **Herbs/Vines** 60   **Bare:** 0

**Dominant Cover Type**

**At Edge of Water:** WOODY

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

**Riparian System:** LOTIC

**Trees:**

Type: DECIDUOUS

Dominant Species: Oregon ash (*Fraxinus latifolia*)

Secondary Species: Black cottonwood (*Populus trichocarpa*), Oregon white oak (*Quercus garryana*)

% 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: English hawthorn (*Crataegus monogyna*)

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: DECIDUOUS

Dominant Species: colonial bentgrass (*Agrostis tenuis*)

Secondary Species: Himalayan blackberry (*Rubus discolor*), common velvetgrass (*Holcus lanatus*), rushes (*Juncus* spp.)

% 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:** LEWISBURG

**Map:** N-2

**Reach:** N-LEW-R-3

**RTE Species**

ORNHIC Plant Community:  None Noted  Listed Community Noted

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

**Riparian Condition Assessment**

Land Use within: UNDEVELOPED, AGRICULTURE

Land Use adjacent: UNDEVELOPED, AGRICULTURE

Infrastructure Impingement: NON-IMPINGED

In Channel Alteration: MODERATELY ALTERED

LWD Recruitment Potential: LOW

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: WETLAND RESTORATION AND RIPARIAN ENHANCEMENT

Current Efforts NONE OBSERVED

**COMMENTS** NONE