Clatskanie River

Accessibility

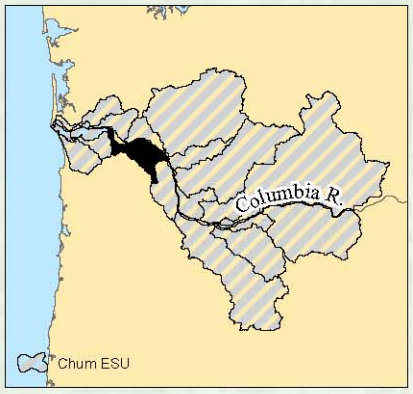
- Current accessibility
- Historical accessibility
- Above natural barriers
- Historically Inaccessible

0 3 6 9 12

Km

Columbia River Chum

Columbia River
Hunt Creek
West Creek
Westport Slough
Grahm Creek
Fall Creek
Conyers Creek
Perkins Creek
Beaver Slough
Mc lean Slough
Green Creek
Rinearson Slough
Palmer Creek
Beaver Creek
Lost Creek
Elk Creek
Owl Creek
Clatskanie River
Miller Creek
Lost Creek
Girl Creek
Lava Creek
Carcus Creek
Little Clatskanie River



Accessibility	Stream km	% total
Current accessibility	205	68
Historical accessibility	205	68
Above natural barriers	97	32
Total streams	302	
Current / Historical		**100**

1:240,000

Clatskanie River

Clatskanie River

Accessibility

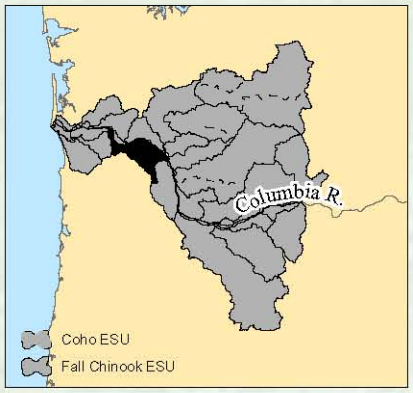
- Current accessibility
- Historical accessibility
- Above natural barriers
- Historically Inaccessible

0 3 6 9 12

Km

Lower Columbia River Coho
Lower Columbia River Fall Chinook

Columbia River
Hunt Creek
West Creek
Westport Slough
Grahm Creek
Fall Creek
Conyers Creek
Perkins Creek
Beaver Slough
Mc lean Slough
Green Creek
Rinearson Slough
Palmer Creek
Beaver Creek
Lost Creek
Elk Creek
Owl Creek
Clatskanie River
Miller Creek
Lost Creek
Girl Creek
Lava Creek
Carcus Creek
Little Clatskanie River



Accessibility	Stream km	% total
Current accessibility	504	72
Historical accessibility	507	73
Above natural barriers	190	27
Total streams	697	
Current / Historical		**99**

1:240,000

Clatskanie River
2002 303(d) Listed Water Course

PARAMETER

- Dissolved Oxygen
- Fecal Coliform
- Temperature

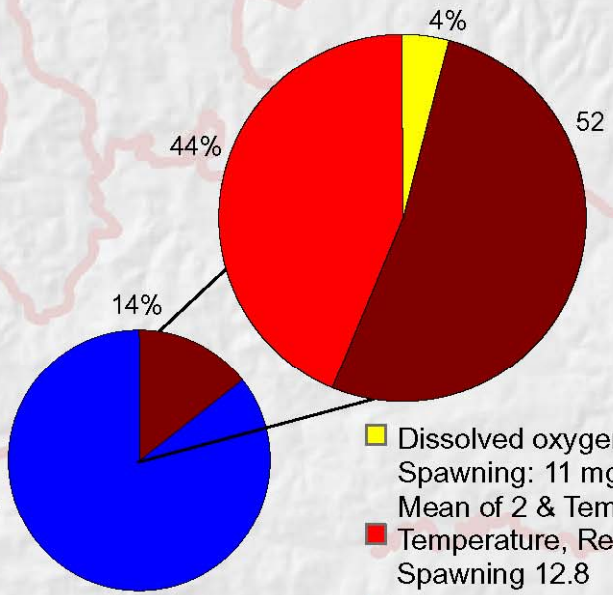
Columbia River

- Arsenic
- DDT Metabolite
- PCB
- Temperature
- Historically Inaccessible

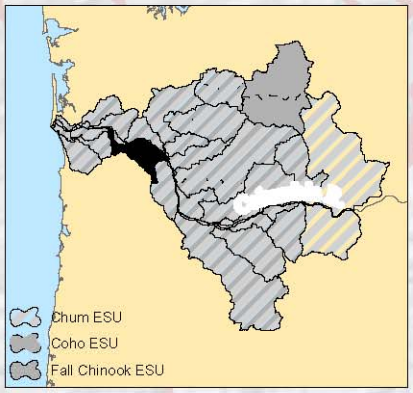
3 6 9 12
Km

Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook

Total 303(d) Streams = 14% Total 100k Streams



- Dissolved oxygen, Cold water: 8 mg/L & Spawning: 11 mg/L & Fecal Coliform, Geometric Mean of 2 & Temperature, Rearing: 17.8 C
- Temperature, Rearing: 17.8 C & Temperature, Spawning 12.8
- Temperature, Rearing: 17.8C



- Total 303(d) streams - 72.31 km
- Remaining 100k streams - 426.69 km

1:240,000

Clatskanie River

Clatskanie River

ODFW Distribution

Use type

- Spawning and rearing
- Rearing and migration
- Migration
- Previous/Historical
- Present, unknown use
- Absent
- Disputed
- Historically Inaccessible

0 3 6 9 12

Km

Columbia River Chum

Columbia River

Hunt Creek

West Creek

Westport Slough

Graham Creek

Fall Creek

Conyers Creek

Perkins Creek

Beaver Slough

McLean Slough

Green Creek

Rinearson Slough

Palmer Creek

Beaver Creek

Lost Creek

Elk Creek

Owl Creek

Clatskanie River

Miller Creek

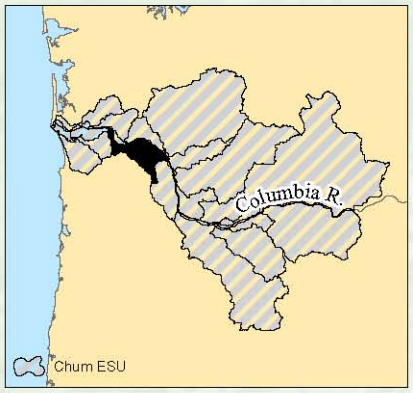
Lost Creek

Girl Creek

Lava Creek

Carcus Creek

Little Clatskanie River



Use type	Stream km	% total
Previous / historical	4	100
Total 100k streams	**4**	**100**

1:240,000

Clatskanie River

ODFW Distribution

Use type

- Spawning and rearing
- Rearing and migration
- Migration
- Previous/Historical
- Present, unknown use
- Absent
- Disputed
- Historically Inaccessible

0 3 6 9 12

Km

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N W E S

Lower Columbia Coho

Columbia River

Hunt Creek
West Creek
Westport Slough
Graham Creek
Fall Creek
Beaver Slough
Mc lean Slough
Conyers Creek
Perkins Creek
Green Creek
Rinearson Slough
Palmer Creek
Beaver Creek
Lost Creek
Elk Creek
Owl Creek
Clatskanie River
Miller Creek
Lost Creek
Girl Creek
Lava Creek
Carcus Creek
Little Clatskanie River

Use type	Stream km	% total
Spawning and rearing	98	20
Rearing and migration	52	10
Previous / historical	7	1
Total use	157	32
Total 100k streams	**499**	**100**

1:240,000

Clatskanie River

Clatskanie River

ODFW Distribution

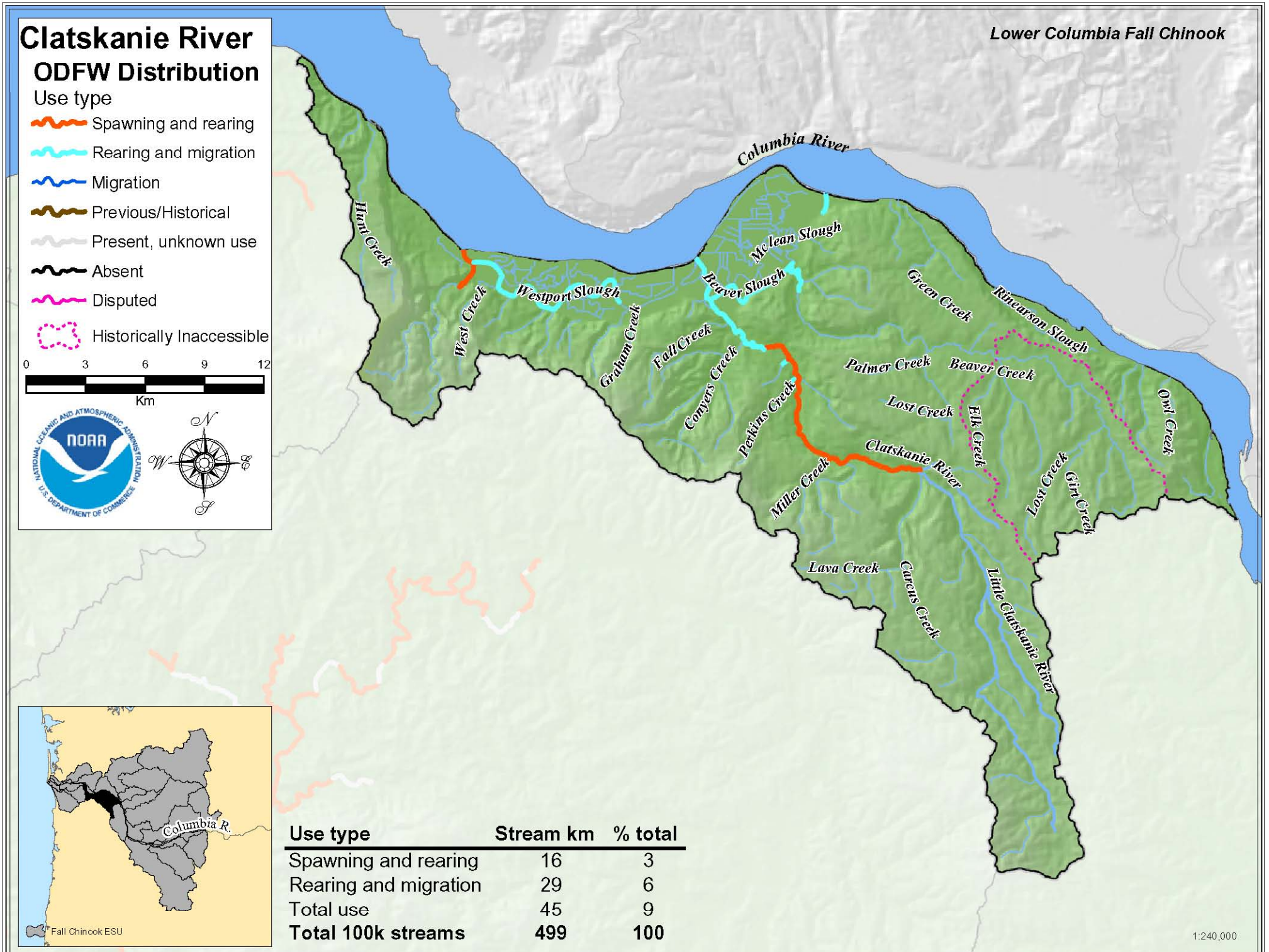
Use type

- Spawning and rearing
- Rearing and migration
- Migration
- Previous/Historical
- Present, unknown use
- Absent
- Disputed
- Historically Inaccessible

0 3 6 9 12

Km

Lower Columbia Fall Chinook



Use type	Stream km	% total
Spawning and rearing	16	3
Rearing and migration	29	6
Total use	45	9
Total 100k streams	**499**	**100**

1:240,000

Clatskanie River
FEMA Q3 Flood Data

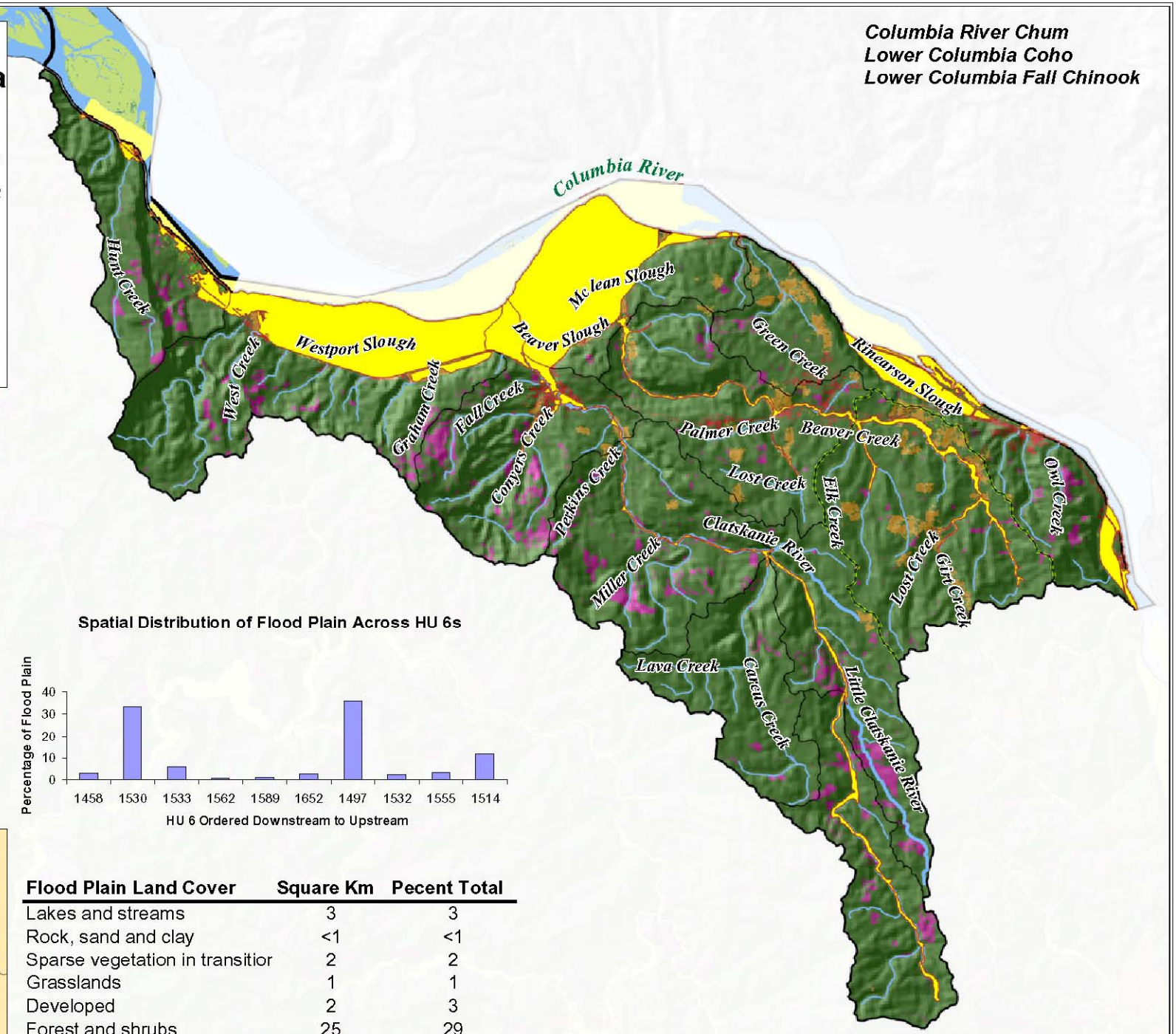
Flood Plain

Historically Inaccessible

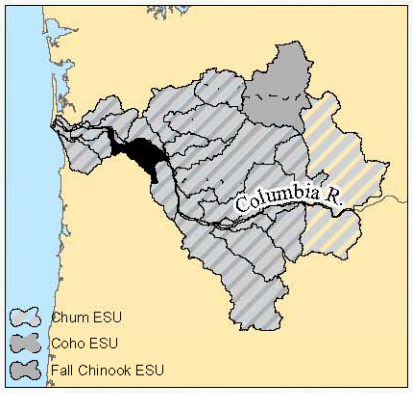
0 3 6 9 12

Km

Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook



Spatial Distribution of Flood Plain Across HU 6s



Flood Plain Land Cover	Square Km	Pecent Total
Lakes and streams	3	3
Rock, sand and clay	<1	<1
Sparse vegetation in transitior	2	2
Grasslands	1	1
Developed	2	3
Forest and shrubs	25	29
Agriculture	50	58
Wetlands	4	5
Total 100 yr. Flood Plain	**86**	**100**

1:240,000

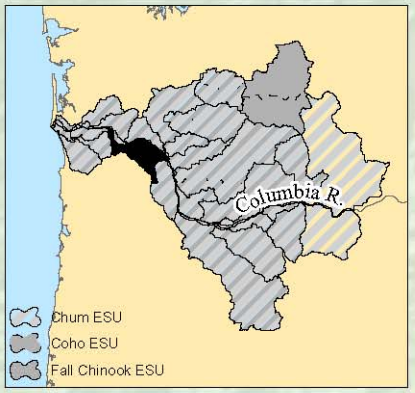
Clatskanie River

Clatskanie River
2000 HU Population Density

- 0 - 6
- 7 - 17
- 18 - 33
- 34 - 51
- 52 - 77
- 78 - 126
- 127 - 204
- 205 - 275
- 276 - 436
- 437 - 806
- 807 - 2327
- 2328 - 3002
- Historically Inaccessible

0 3 6 9 12
Km

Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook



Year	Total Human Population / Square Km	Total Human Population	% Increase
2000	18	11,096	
2040	26	16,099	45

1:240,000

Clatskanie River
Land Cover

- Lakes and streams
- Ice and snow
- Rock, sand, or clay
- Sparse vegetation
- Grassland
- Developed
- Forest and shrubs
- Agriculture
- Wetlands
- Historically Inaccessible

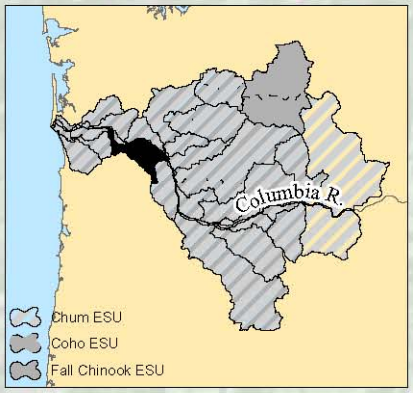
0 3 6 9 12
Km

NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION U.S. DEPARTMENT OF COMMERCE

N W E S

Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook

Columbia River
Hunt Creek
West Creek
Westport Slough
Graham Creek
Fall Creek
Conyers Creek
Perkins Creek
McLean Slough
Beaver Slough
Green Creek
Rinearson Slough
Beaver Creek
Palmer Creek
Lost Creek
Elk Creek
Owl Creek
Miller Creek
Clatskanie River
Lost Creek
Gird Creek
Lava Creek
Carcus Creek
Little Clatskanie River



Land Cover	Watershed Polygon Square Km	% Area	Historically Accessible Square Km	% Area
Lakes and streams	3	1	3	1
Rock, sand and clay	<1	<1	<1	<1
Sparse vegetation	31	5	30	5
Grasslands	2	<1	1	<1
Developed	8	1	8	1
Forest and shrubs	501	82	440	81
Agriculture	61	10	55	10
Wetlands	5	1	4	1
Total	**611**	**100**	**542**	**100**

1:240,000

Clatskanie River

Clatskanie River
Land Use

- Agriculture - forest zone
- Agriculture
- Forest
- Mineral resource zone
- Natural resource zone
- Park and recreation
- Public facility
- Rural commercial
- Rural industrial
- Rural residential
- Urban
- Water / estuary
- Historically Inaccessible

0 3 6 9 12

Km

NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION U.S. DEPARTMENT OF COMMERCE

N W E S

Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook

Columbia River
Hunt Creek
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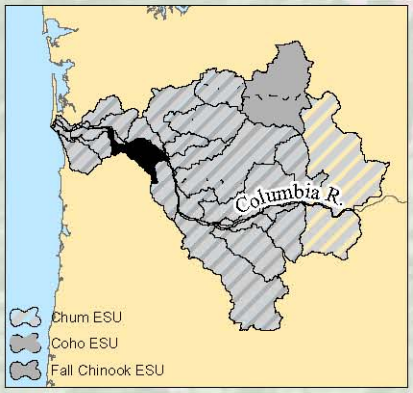
Graham Creek
Fall Creek
Conyers Creek
Perkins Creek
Miller Creek
Mc lean Slough
Beaver Slough
Green Creek
Rinearson Slough
Beaver Creek
Palmer Creek
Lost Creek
Elk Creek
Owl Creek
Clatskanie River
Lost Creek
Girl Creek
Lava Creek
Carens Creek
Little Clatskanie River



Land Use	Watershed Polygon Square Km	% Area	Historically Accessible Square Km	% Area
Ag-forestry zone	1	<1	1	<1
Agriculture	55	9	55	10
Estuary	1	<1	1	<1
Forestry	482	79	421	78
Mineral resource zone	1	<1	1	<1
Natural resource zone	<1	<1	<1	<1
Park and recreation	1	<1	1	<1
Public facility	5	1	4	1
Rural industrial	8	1	8	1
Rural residential	36	6	29	5
Urban	20	3	19	4
Water	2	<1	2	<1
Total	**611**	**100**	**542**	**100**

1:240,000

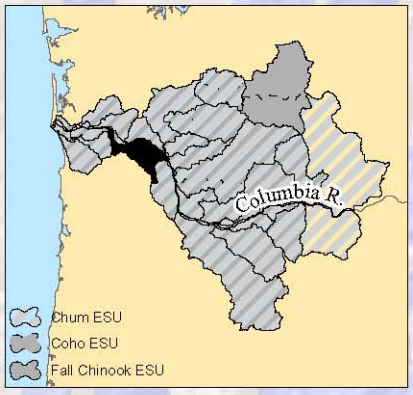
Clatskanie River
Ownership

County
Federal
Private
State
Historically Inaccessible

0 3 6 9 12
Km

Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook

Columbia River
Hunt Creek
West Creek
Westport Slough
Mc lean Slough
Beaver Slough
Graham Creek
Fall Creek
Conyers Creek
Perkins Creek
Green Creek
Rinearson Slough
Palmer Creek
Beaver Creek
Lost Creek
Elk Creek
Owl Creek
Miller Creek
Clatskanie River
Lost Creek
Girl Creek
Lava Creek
Careus Creek
Little Clatskanie River



Ownership	Watershed Polygon Square Km	% Area	Historically Accessible Square Km	% Area
County	9	2	9	2
Federal	3	1	3	1
Private	542	89	473	87
State	56	9	56	10
Total	**611**	**100**	**541**	**100**

1:240,000

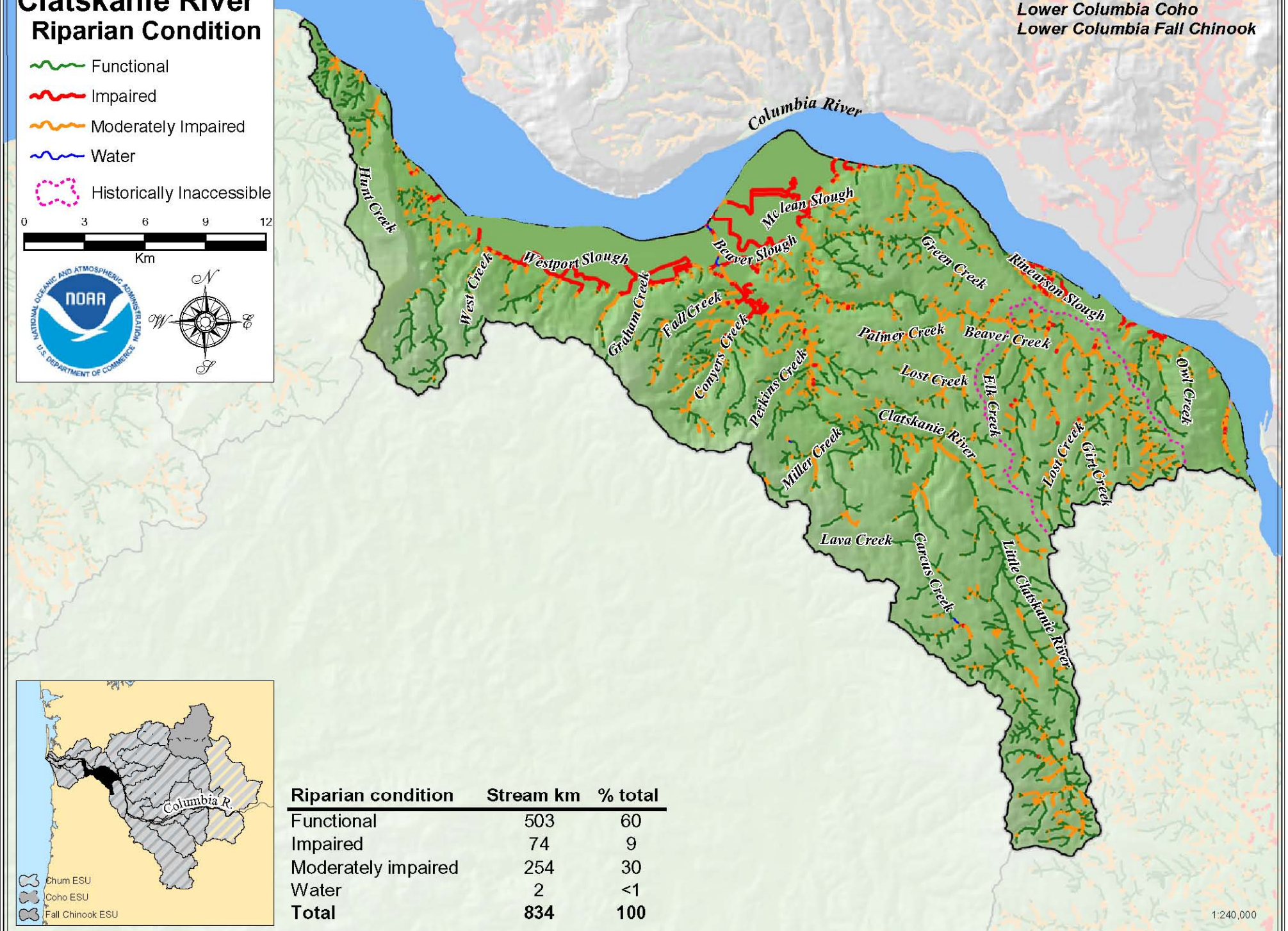
Clatskanie River

Clatskanie River
Riparian Condition

Functional
Impaired
Moderately Impaired
Water
Historically Inaccessible

0 3 6 9 12
Km

Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook



Riparian condition	Stream km	% total
Functional	503	60
Impaired	74	9
Moderately impaired	254	30
Water	2	<1
Total	**834**	**100**

1:240,000

Clatskanie River
Water Rights

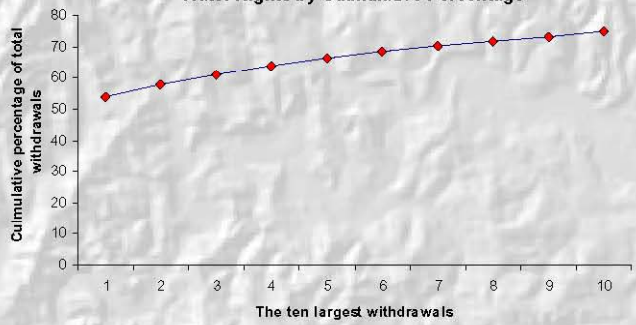
Max rate cfs

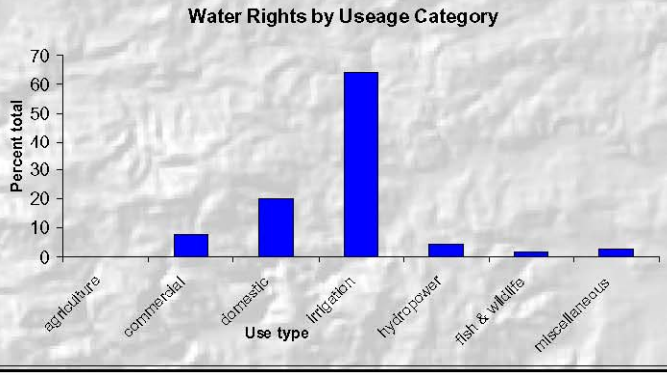
- 0.0008 - 4.17
- 4.17 - 11.625
- 11.625 - 23.965
- 23.965 - 42.372
- 42.372- 76.195
- 76.195 - 123.82
- 123.82 - 201.807
- 201.808 - 345.248
- 345.248 - 505.973
- 505.974 - 902.158
- 902.158 - 1900
- 1900 - 4600
- no data
- Historically Inaccessible

0 3 6 9 12
Km

Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook

Columbia River
Hunt Creek
West Creek
Westport Slough
Graham Creek
Fall Creek
Conyers Creek
Perkins Creek
Miller Creek
Lava Creek
Carcus Creek
Little Clatskanie River
Clatskanie River
Lost Creek
Elk Creek
Palmer Creek
Beaver Slough
Mc lean Slough
Green Creek
Ringarson Slough
Beaver Creek
Lost Creek
Gin Creek
Owl Creek



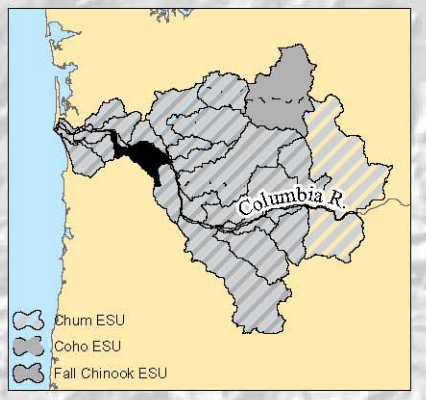


Max rate cfs

- 0 - 0.19
- 0.19 - 0.65
- 0.65 - 1.4
- 1.4 - 2.5
- 2.5 - 34.33

Total max rate for population equals 64 cfs.

1:240,000



Clatskanie River