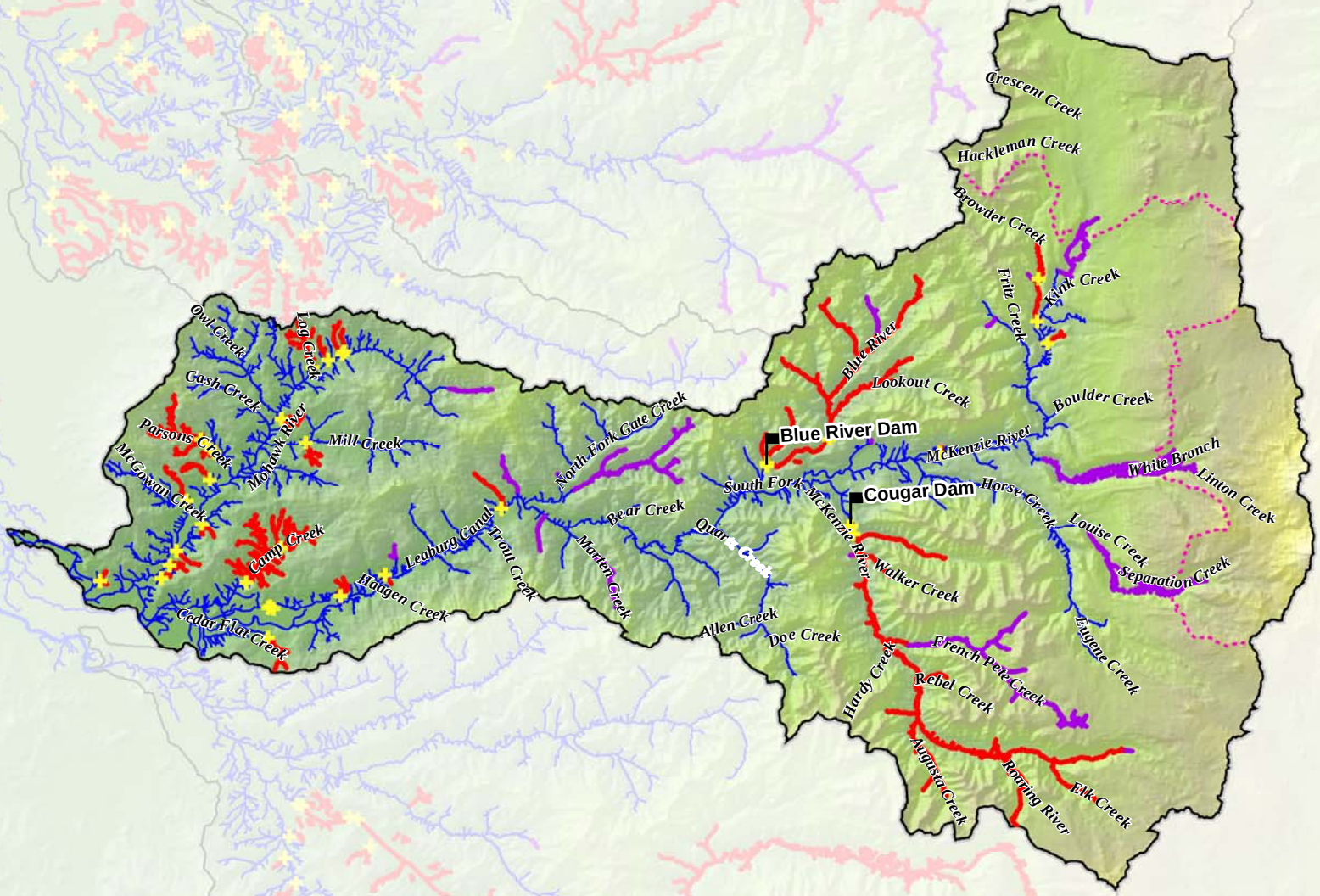
McKenzie River
Accessibility

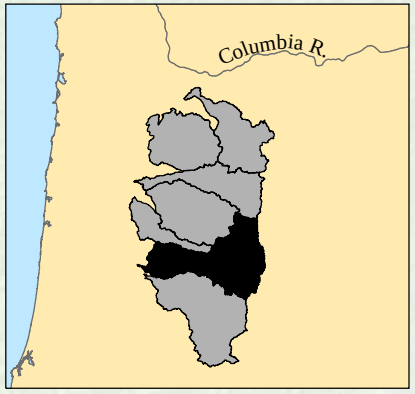
Upper Willamette Spring Chinook Salmon

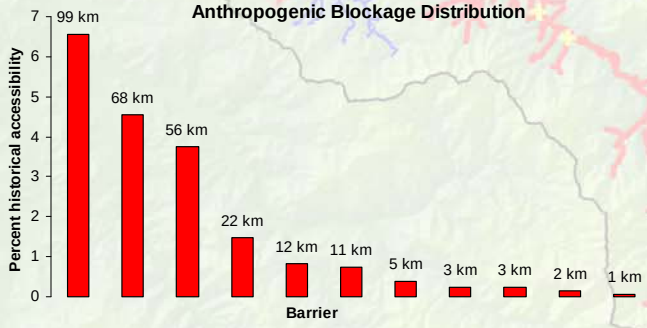
- Current accessibility
- Historical accessibility
- Above natural barriers
- Anthropogenic blockage
- Historically Inaccessible

0 6 12 18 24
Km

N W E S







Accessibility	Stream km	% total
Current accessibility	992	65
Historical accessibility	1,329	88
Above natural barriers	187	12
Total streams	1,515	
Current / Historical		**75**

1:525,000

McKenzie River

McKenzie River
2002 303(d) Listed Water Courses

PARAMETER

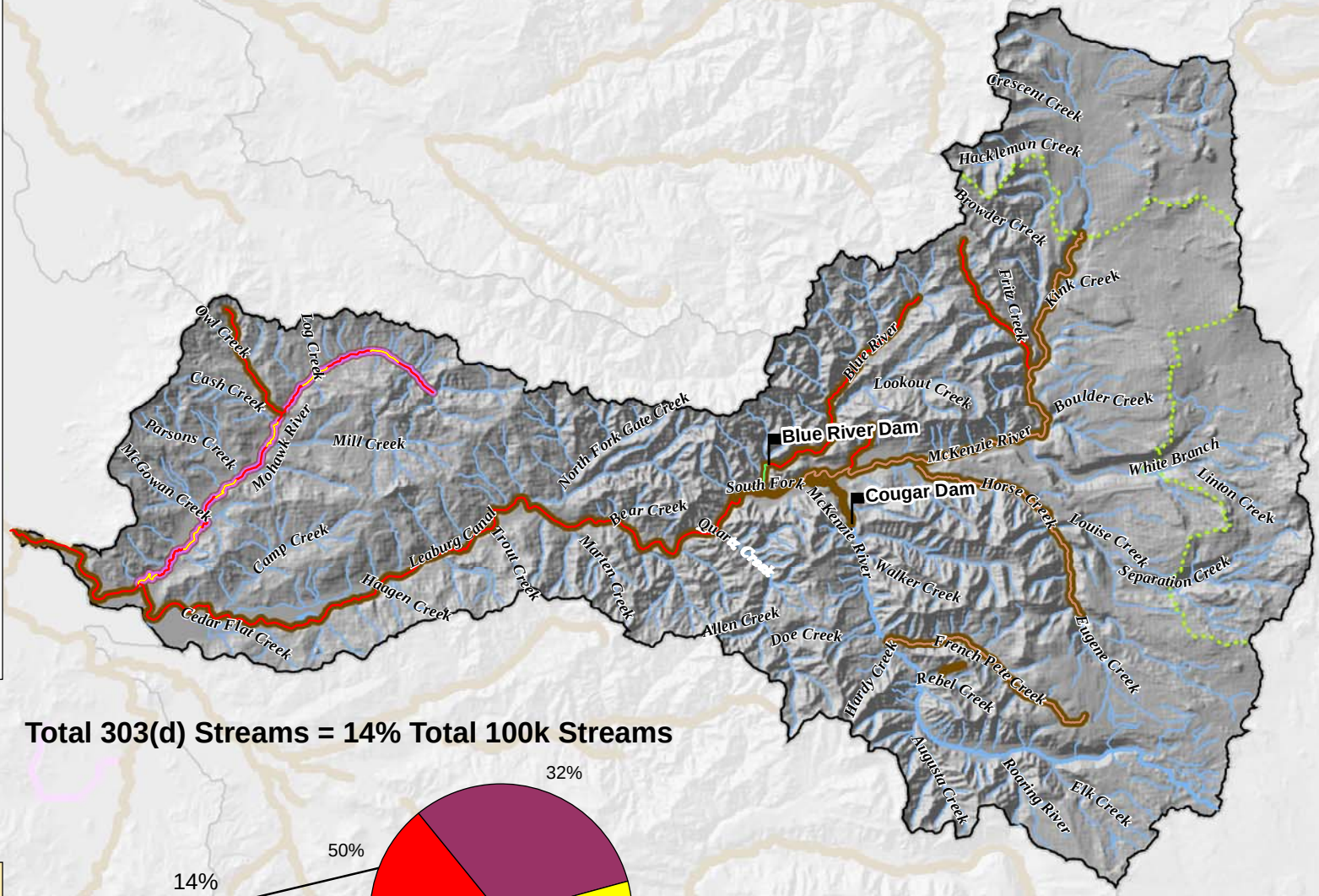
- Dissolved Oxygen
- Temperature

CRITERIA

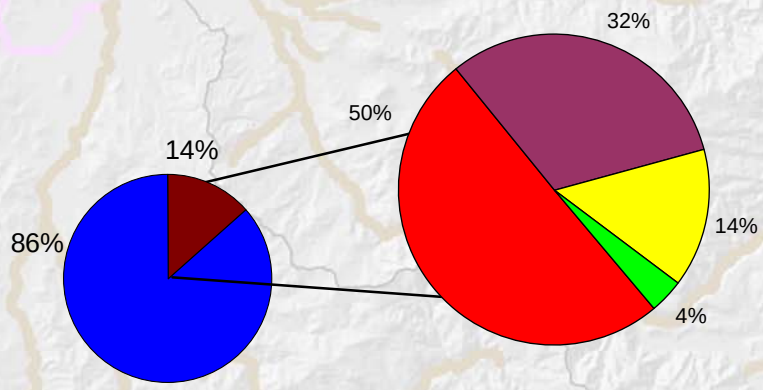
- Bull Trout: 10.0 C
- Spawning: 11 mg/L o
- Spawning: 12.8 C
- Rearing: 17.8 C
- Historically Inaccessible

0 6 12 18 24
Km

Upper Willamette Spring Chinook Salmon

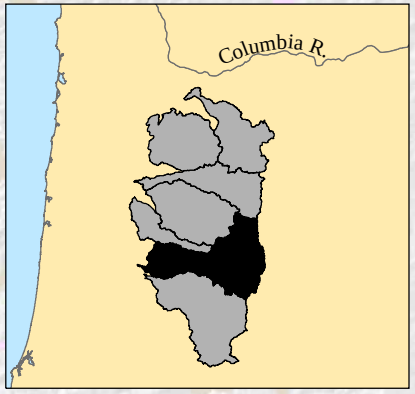


Total 303(d) Streams = 14% Total 100k Streams



- Total 303(d) streams - 280.37 km
- Remaining 100k streams - 1,779 km

- Temperature, Rearing:17.8 C
- Temperature, Bull Trout: 10.0 C
- Temperature, Rearing:17.8 C & Dissolved oxygen, Spawning: 11mg/L o
- Temperature, Spawning: 12.8 C



1:525,000

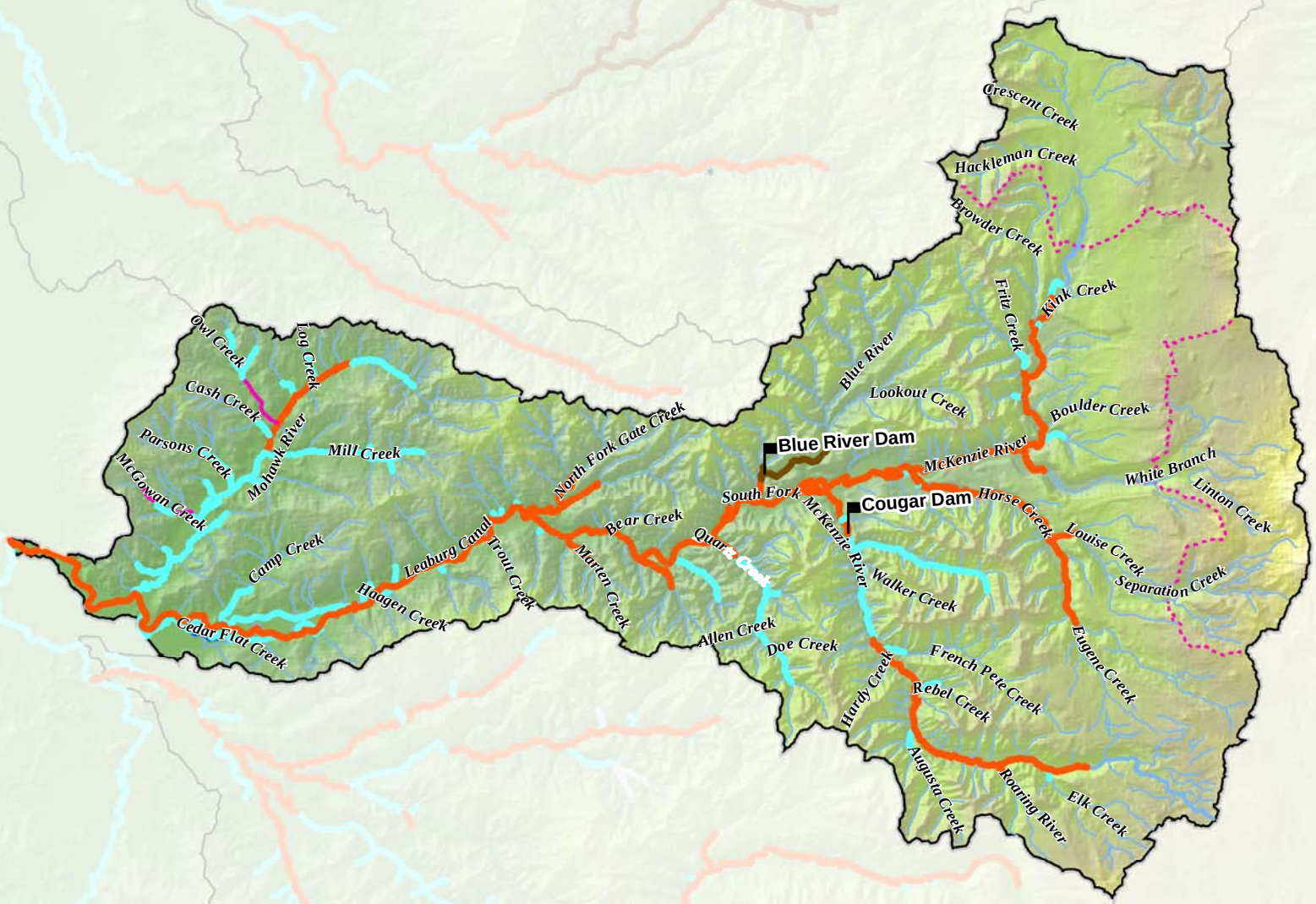
McKenzie River
ODFW Distribution

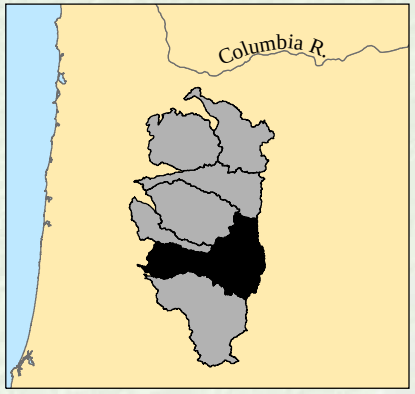
Use type

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

0 6 12 18 24
Km

Upper Willamette Spring Chinook Salmon





Use type	Stream km	% total
Spawning and rearing	237	12
Rearing and migration	182	9
Migration	3	<1
Previous / historical	7	<1
Present, unknown use	1	<1
Disputed	10	<1
Total use	441	21
Total 100k streams	**2,060**	**100**

1:525,000

McKenzie River

McKenzie River

FEMA Q3 Flood Data

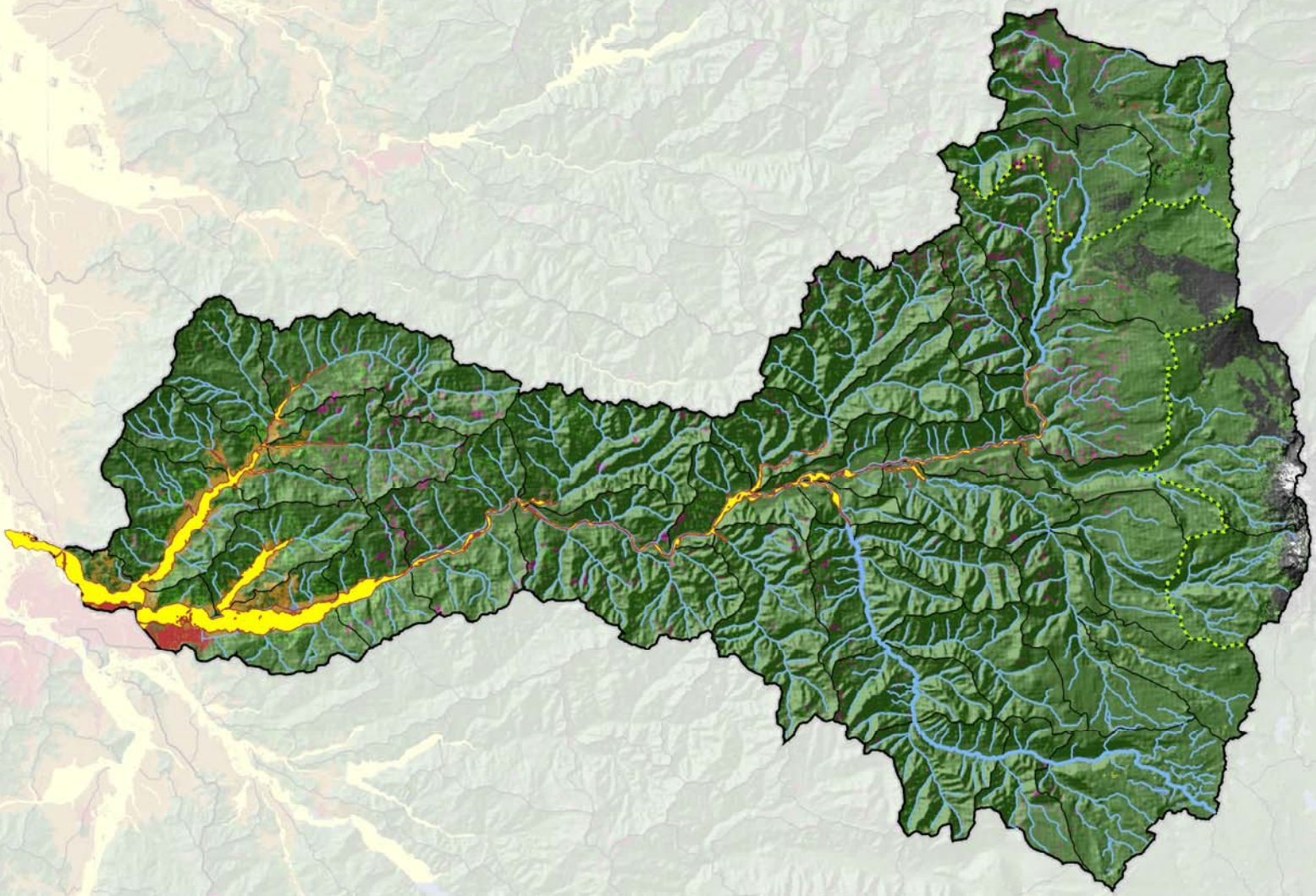
Flood plain

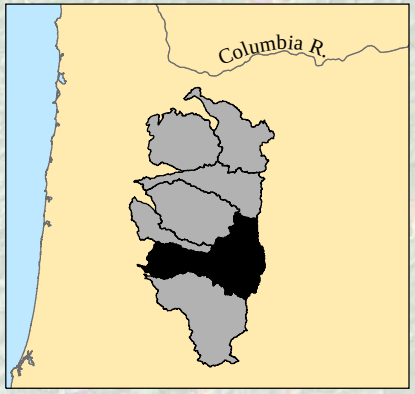
Historically Inaccessible

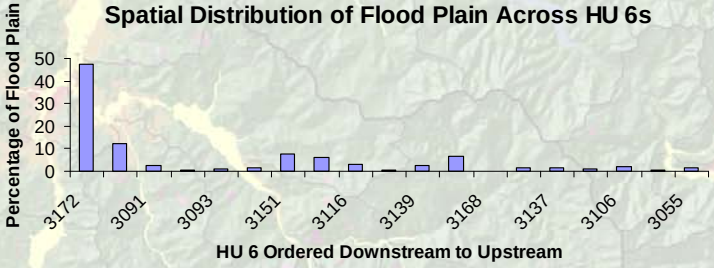
0 6 12 18 24

Km

Upper Willamette Spring Chinook Salmon







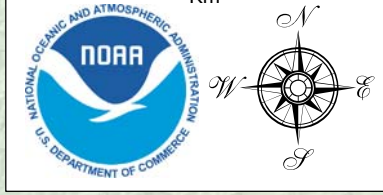
Flood Plain Land Cover	Square Km	Pecent Total
Lakes and streams	6	7
Ice and snow	<1	<1
Rock, sand and clay	<1	<1
Sparse vegetation in transition/recovery	<1	<1
Grasslands	3	4
Developed	1	2
Forest and shrubs	26	33
Agriculture	43	53
Wetlands	1	1
Total 100 yr. Flood Plain	**81**	**100**

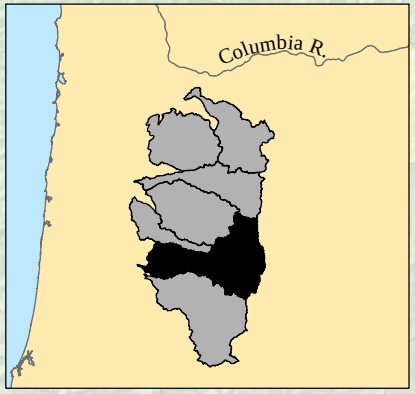
1:525,000

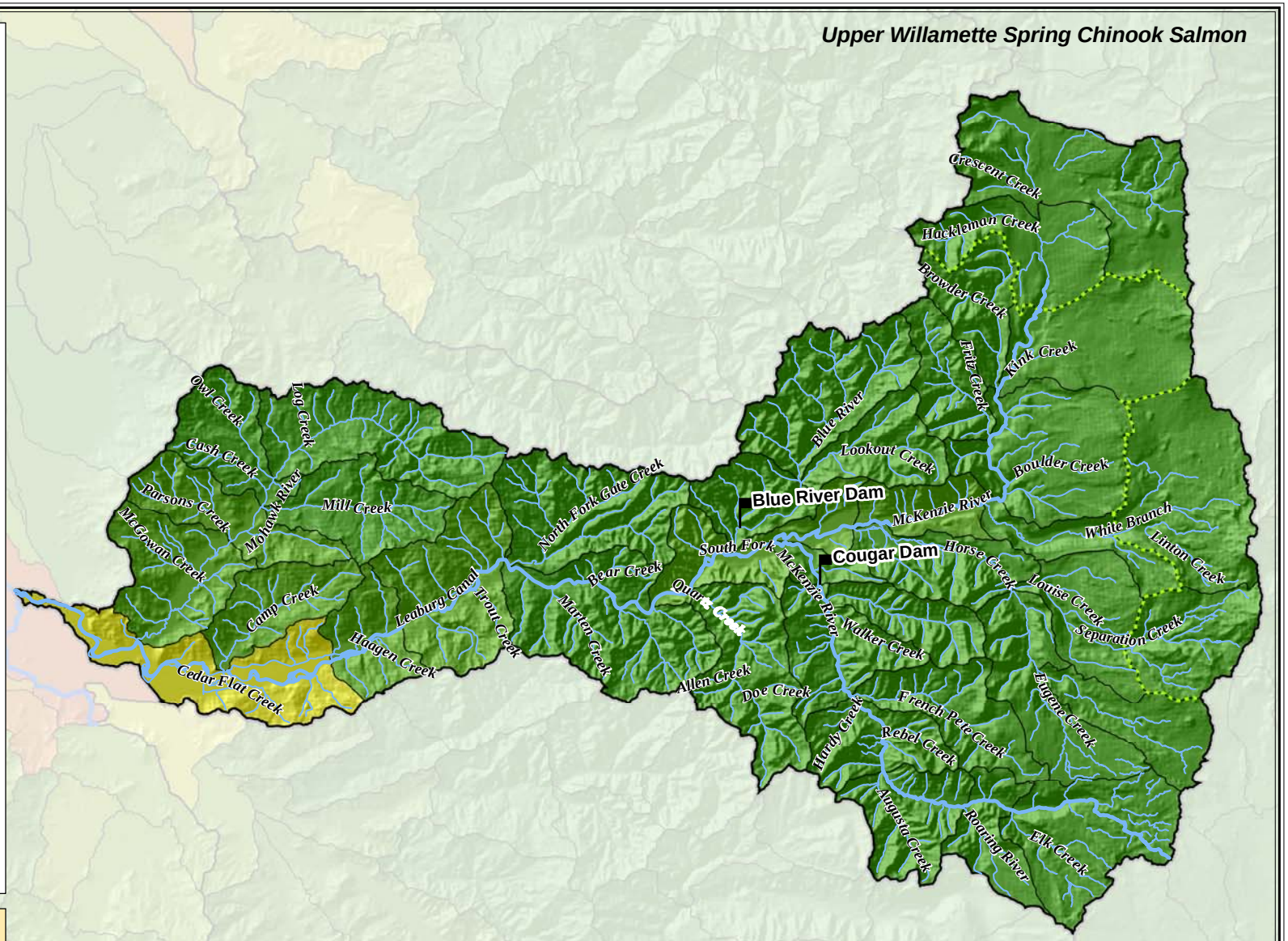
McKenzie River
2000 HU 6
Population Density

- 0 - 6
- 7 - 17
- 18 - 33
- 34 - 51
- 52 - 77
- 78 - 126
- 127 - 204
- 205 - 275
- 276 - 436
- 437 - 806
- 807 - 1505
- 1506 - 2327
- 2328 - 3002
- Historically Inaccessible

0 6 12 18 24
Km







Year	Total Human Population / Square Km	Total Human Population	% Increase
2000	9	30272	
2040	13	44184	46

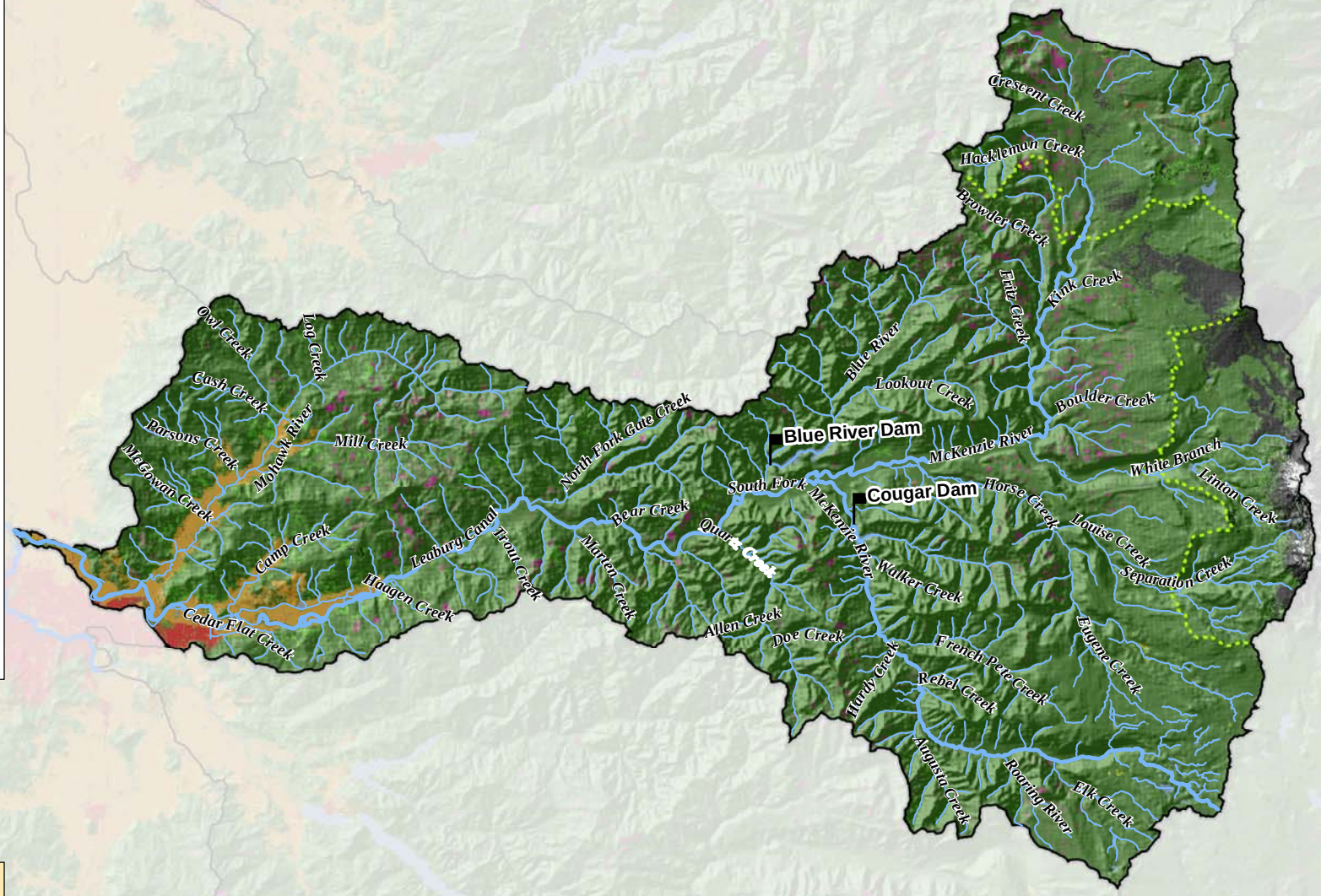
McKenzie River

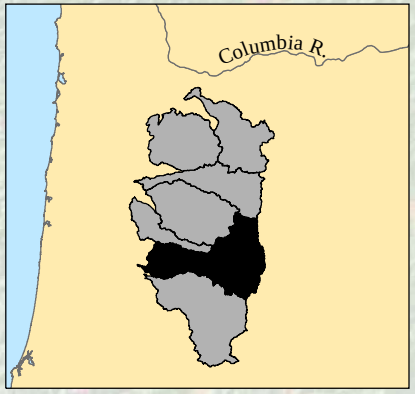
Land Cover

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

0 6 12 18 24
Km

Upper Willamette Spring Chinook Salmon





Land Cover	Watershed Polygon Square Km	Watershed Polygon % Area	Historically Accessible Square Km	Historically Accessible % Area
Lakes and streams	21	1	17	1
Ice and snow	5	<1	<1	<1
Rock, sand and clay	102	3	29	1
Sparse vegetation	69	2	58	2
Grasslands	131	4	110	4
Developed	12	<1	11	<1
Forest and shrubs	3,037	88	2,626	89
Agriculture	83	2	83	3
Wetlands	6	<1	3	<1
Total	**3,465**	**100**	**2,938**	**100**

1:525,000

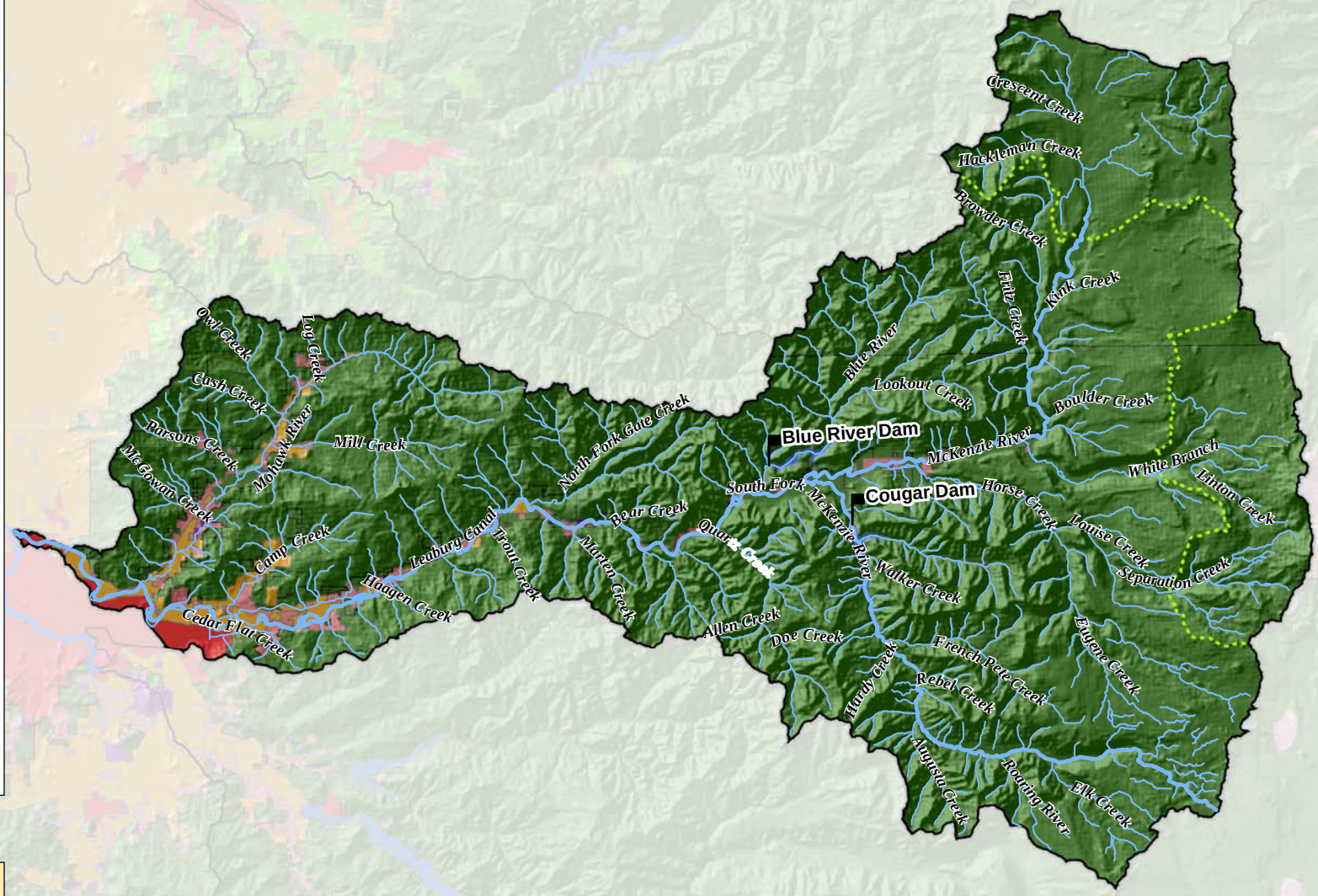
McKenzie River

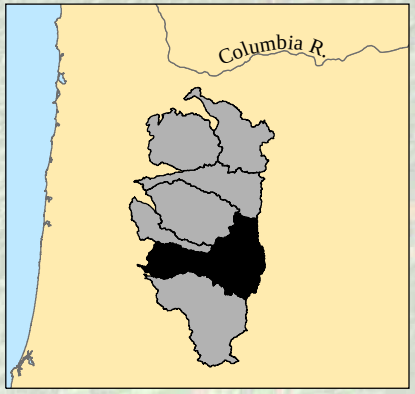
Land Use

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

0 6 12 18 24
Km

Upper Willamette Spring Chinook Salmon





Land Use	Watershed Polygon Square Km	Watershed Polygon % Area	Historically Accessible Square Km	Historically Accessible % Area
Ag-Forest zone	62	2	62	2
Forest	3,309	95	2,782	95
Natural resource zone	1	<1	<1	<1
Park and recreation	2	<1	2	<1
Rural residential	57	2	57	2
Rural service center	1	<1	1	<1
Urban	23	1	23	1
Water	10	<1	10	<1
Total	**3,465**	**100**	**2,938**	**100**

1:525,000

McKenzie River

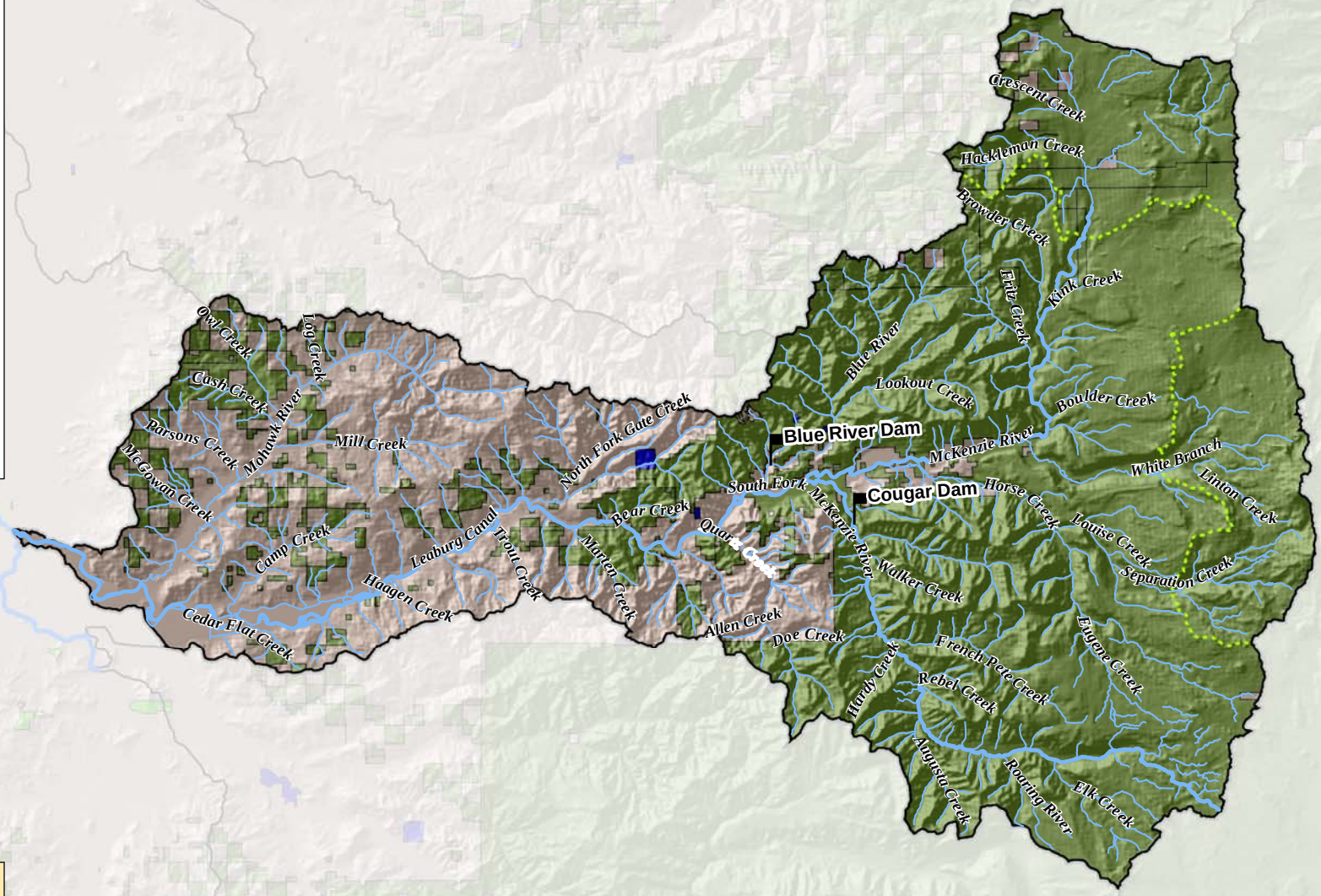
McKenzie River

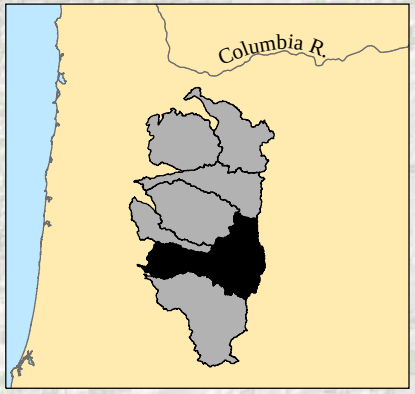
Ownership

- County
- Federal
- Private
- State
- Historically Inaccessible

0 6 12 18 24
Km

Upper Willamette Spring Chinook Salmon





Ownership	Watershed Polygon Square Km	Watershed Polygon % Area	Historically Accessible Square Km	Historically Accessible % Area
Federal	2,420	70	1,906	65
Private	1,041	30	1,028	35
State	3	<1	3	<1
Undefined	<1	<1	<1	<1
Total	**3,465**	**100**	**2,938**	**100**

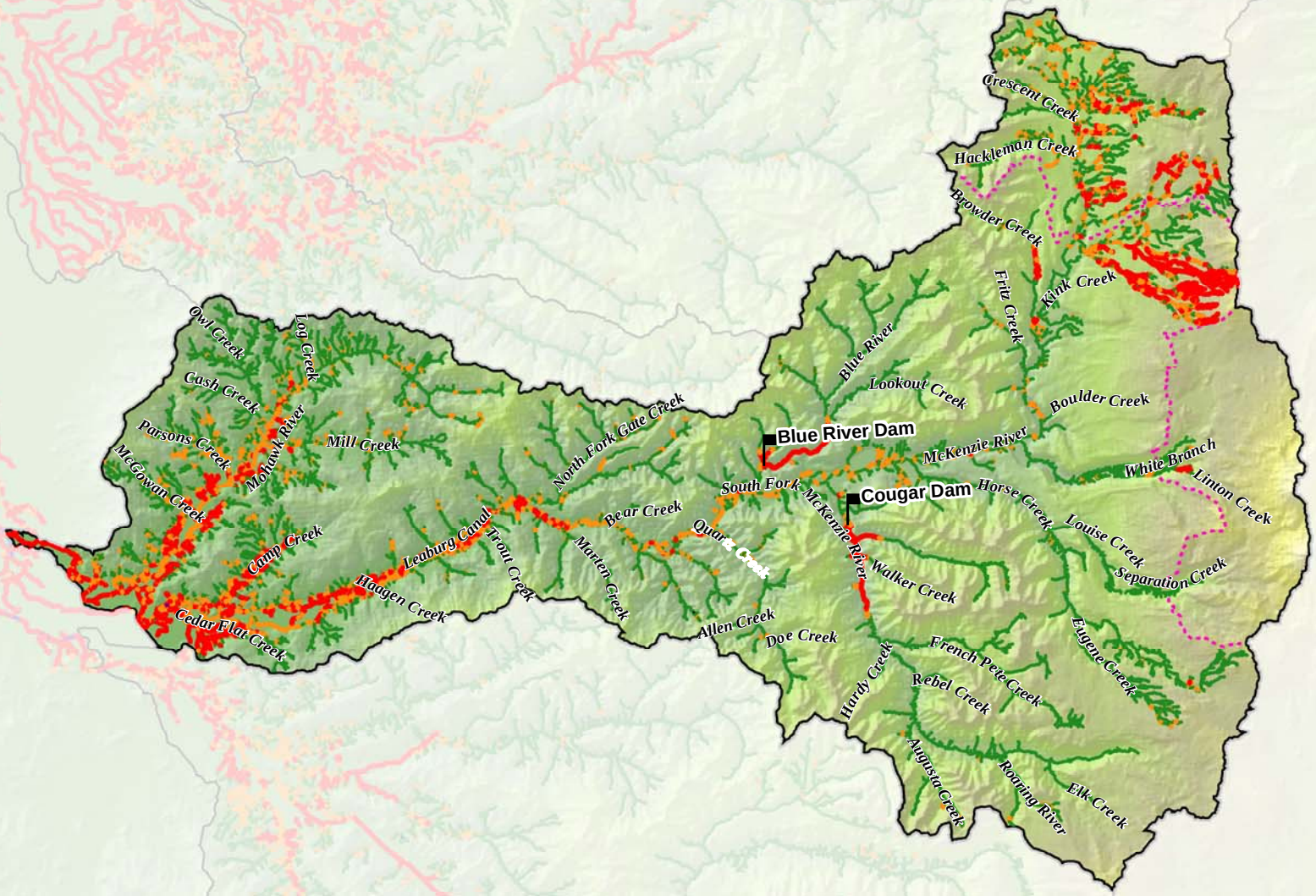
1:525,000

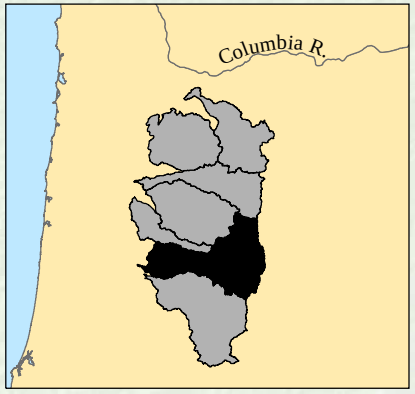
McKenzie River
Riparian Condition

Functional
Impaired
Moderately Impaired
No Data
Water
Historically Inaccessible

0 6 12 18 24
Km

Upper Willamette Spring Chinook Salmon





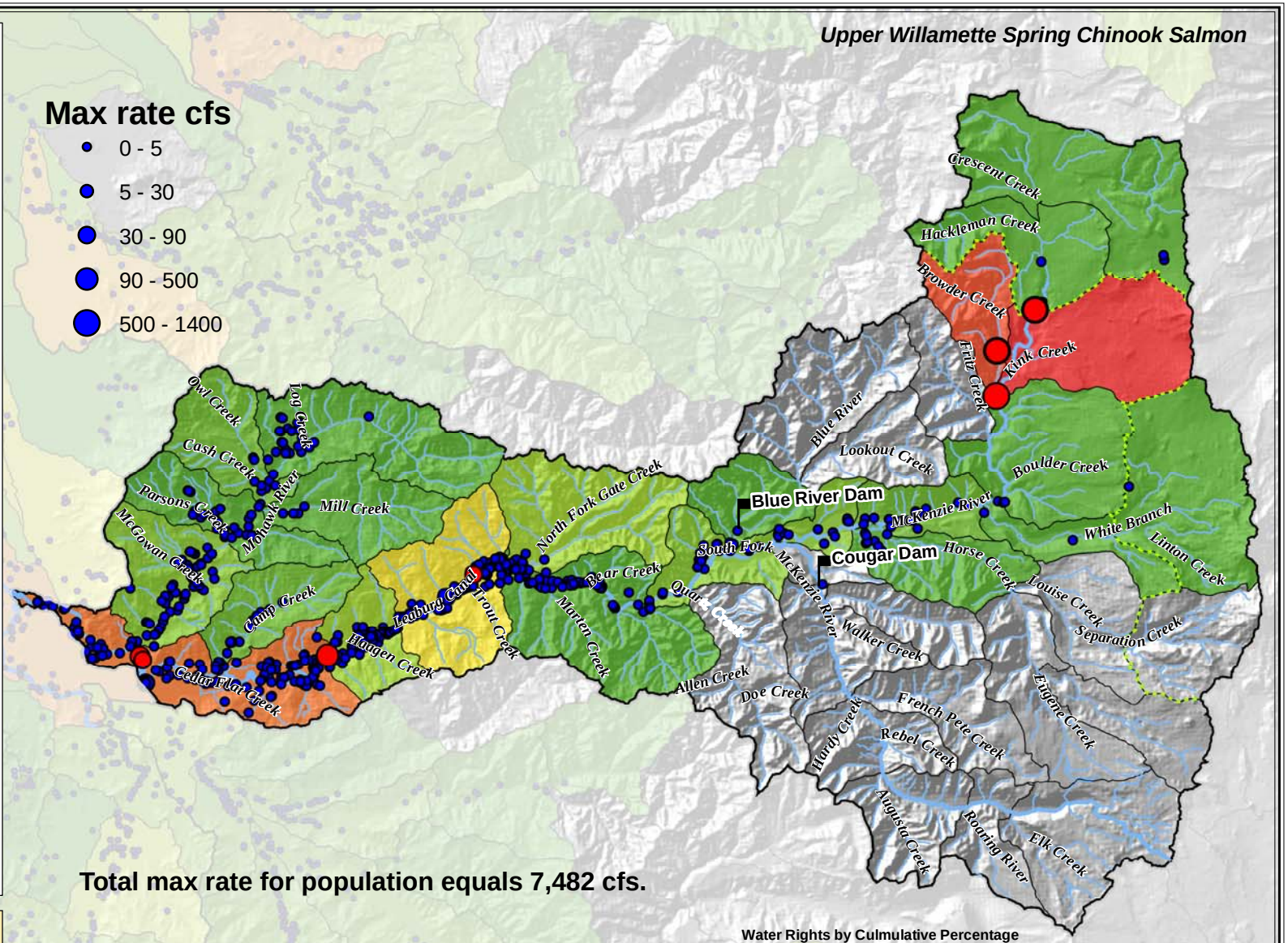
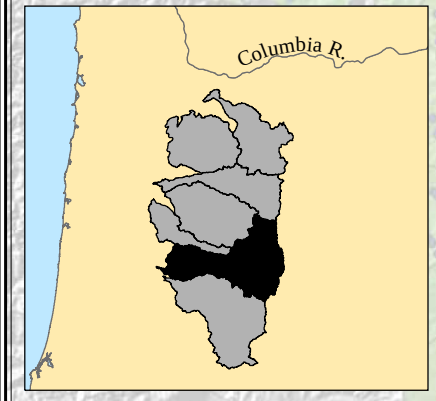
Riparian condition	Stream km	% total
Functional	1,811	71
Impaired	329	13
Moderately impaired	375	15
No data	20	1
Water	1	<1
Total	**2,535**	**100**

1:525,000

McKenzie River

McKenzie 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
- Historically Inaccessible
- no data

0 6 12 18 24
Km