Big Creek

Accessibility

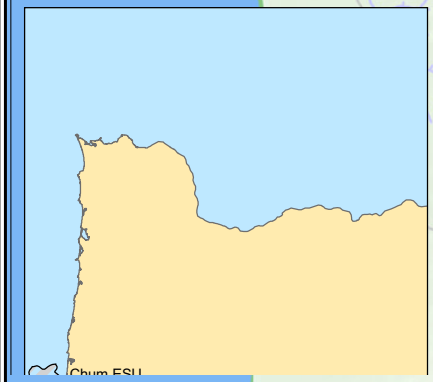
Current accessibility
Historical accessibility
Above natural barriers

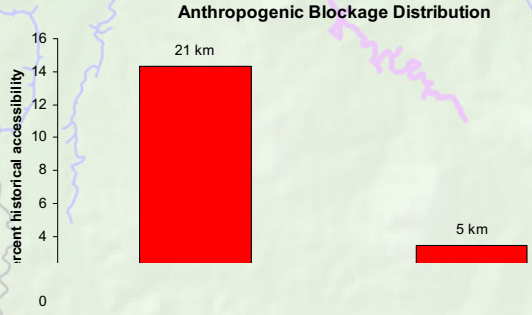
0 2 4 6 8
Km

Columbia River Chum

Columbia River

Mill Creek
Jack Creek
John Day River
Marys Creek
Bear Creek
Little Bear Creek
Ferris Creek
Little Creek
Carmen Creek
Dogwood Creek
Blind Slough
Davis Creek
Gnat Creek
Pigpen Creek
Big Creek
Mud Creek
Coon Creek
Elk Creek





Accessibility	Stream km	% total
Current accessibility	124	82
Historical accessibility	151	100
Above natural barriers	0	0
Total streams	151	
Current / Historical		**82**

1:170,000

Big Creek

Big Creek

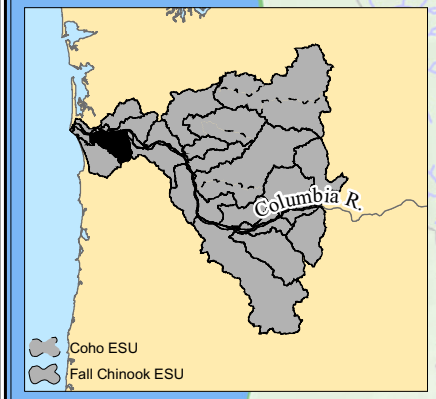
Accessibility

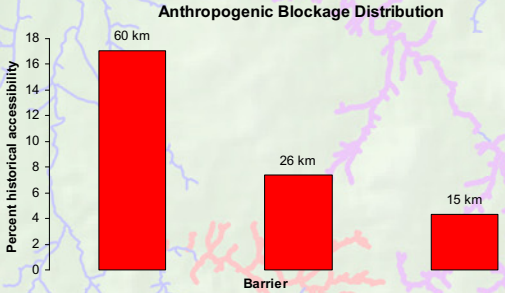
Current accessibility
Historical accessibility
Above natural barriers

0 2 4 6 8
Km

Lower Columbia Coho
Lower Columbia Fall Chinook

Columbia River
Blind Slough
Davis Creek
Gnat Creek
Mill Creek
Jack Creek
John Day River
Marys Creek
Bear Creek
Little Bear Creek
Ferris Creek
Little Creek
Carmen Creek
Waterworks Creek
Dogwood Creek
Rock Creek
Knotts Creek
Pigpen Creek
Big Creek
Mud Creek
Coon Creek
Elk Creek





Accessibility	Stream km	% total
Current accessibility	250	71
Historical accessibility	352	100
Above natural barriers	1	<1
Total streams	353	
Current / Historical		**71**

1:170,000

Big Creek
2002 303(d) Listed Water Courses

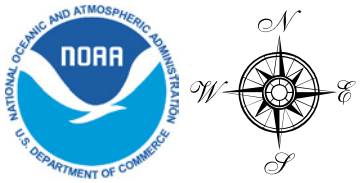
CRITERIA_T

- Spawning: 12.8 C
- Rearing: 17.8 C

Columbia River

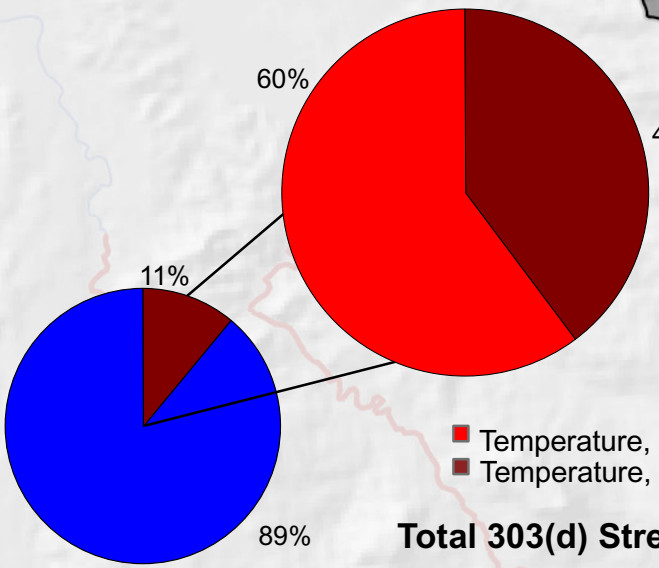
- Arsenic
- DDT Metabolite
- PCB
- Temperature

0 2 4 6 8
Km



Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook

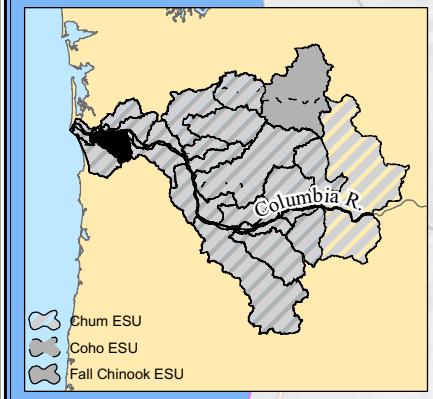
Columbia River
Blind Slough
Davis Creek
Gnat Creek
Mill Creek
Jack Creek
John Day River
Marys Creek
Bear Creek
Ferris Creek
Little Creek
Carmen Creek
Dogwood Creek
Rock Creek
Knotts Creek
Little Bear Creek
Waterworks Creek
Pigpen Creek
Big Creek
Mud Creek
Coon Creek
Elk Creek



- Temperature, Spawning: 12.8 C
- Temperature, Spawning: 12.8 C & Temperature, Rearing: 17.8C

Total 303(d) Streams = 11% Total 100k Streams

- Total 303(d) streams - 26.0 km
- Remaining 100k streams - 209.27 km



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Big Creek

Big Creek

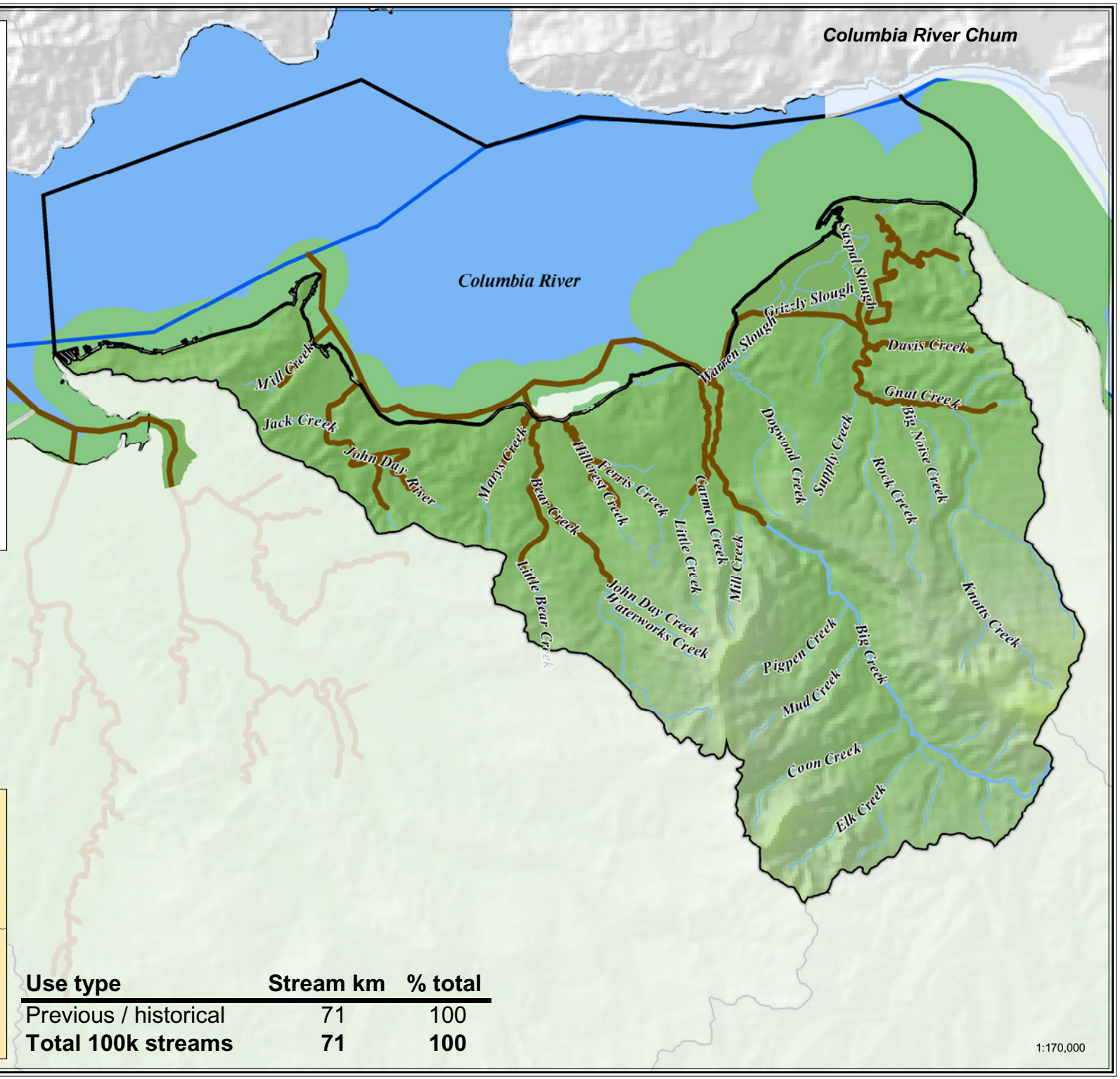
ODFW Distribution

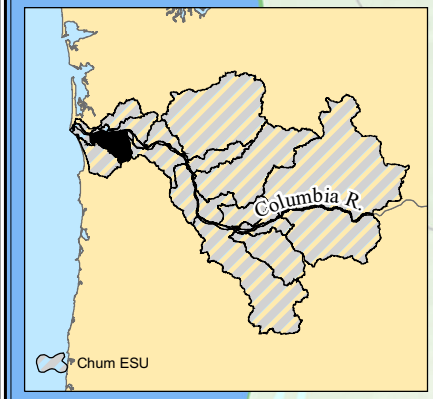
Use type

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

0 2 4 6 8

Km





Use type	Stream km	% total
Previous / historical	71	100
Total 100k streams	**71**	**100**

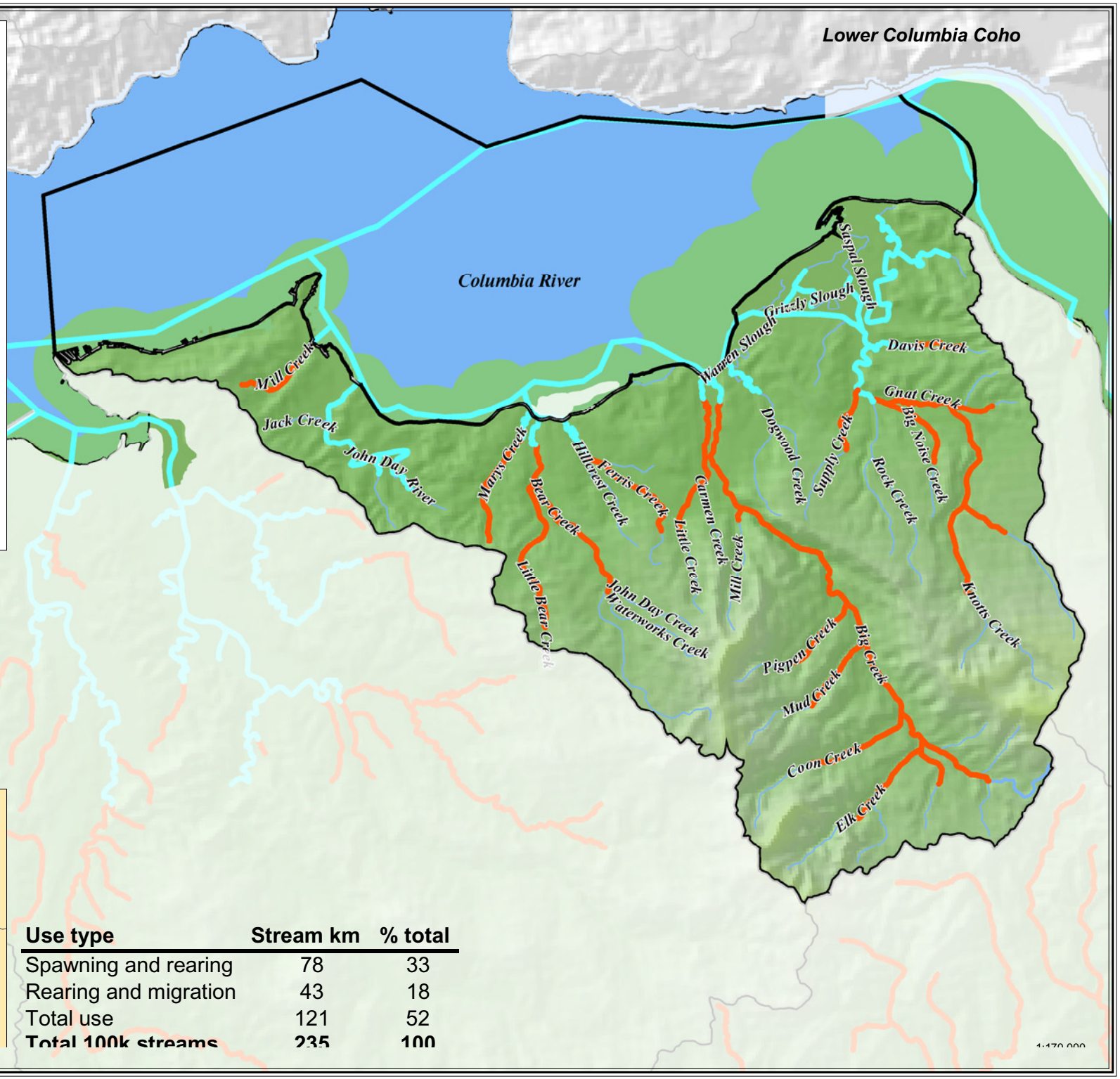
Big Creek

ODFW Distribution

Use type

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

0 2 4 6 8
Km



Use type	Stream km	% total
Spawning and rearing	78	33
Rearing and migration	43	18
Total use	121	52
Total 100k streams	**235**	**100**

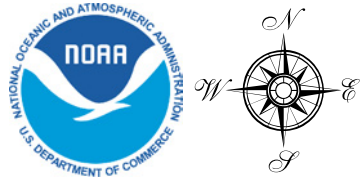
Big Creek

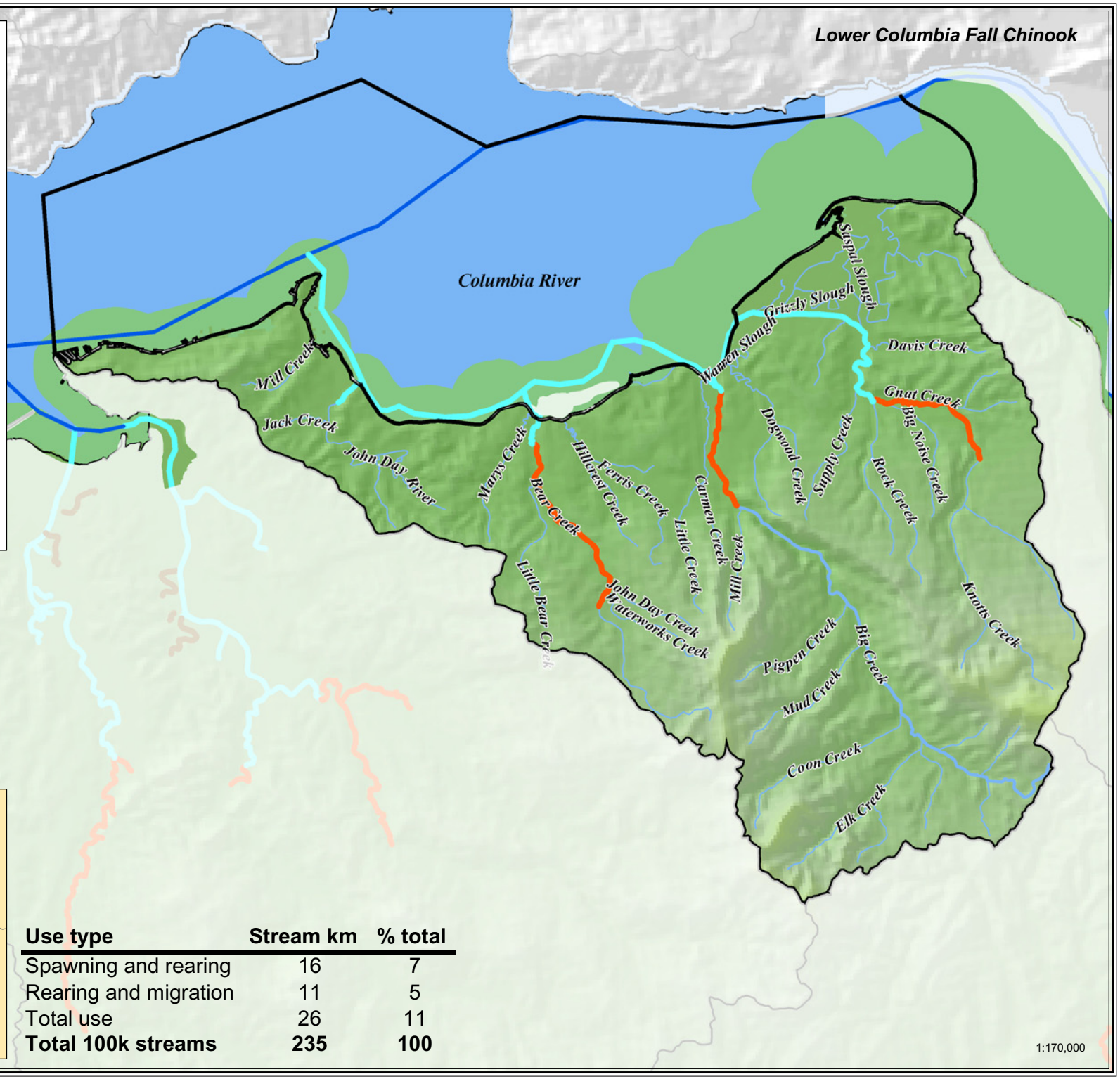
ODFW Distribution

Use type

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

0 2 4 6 8 Km





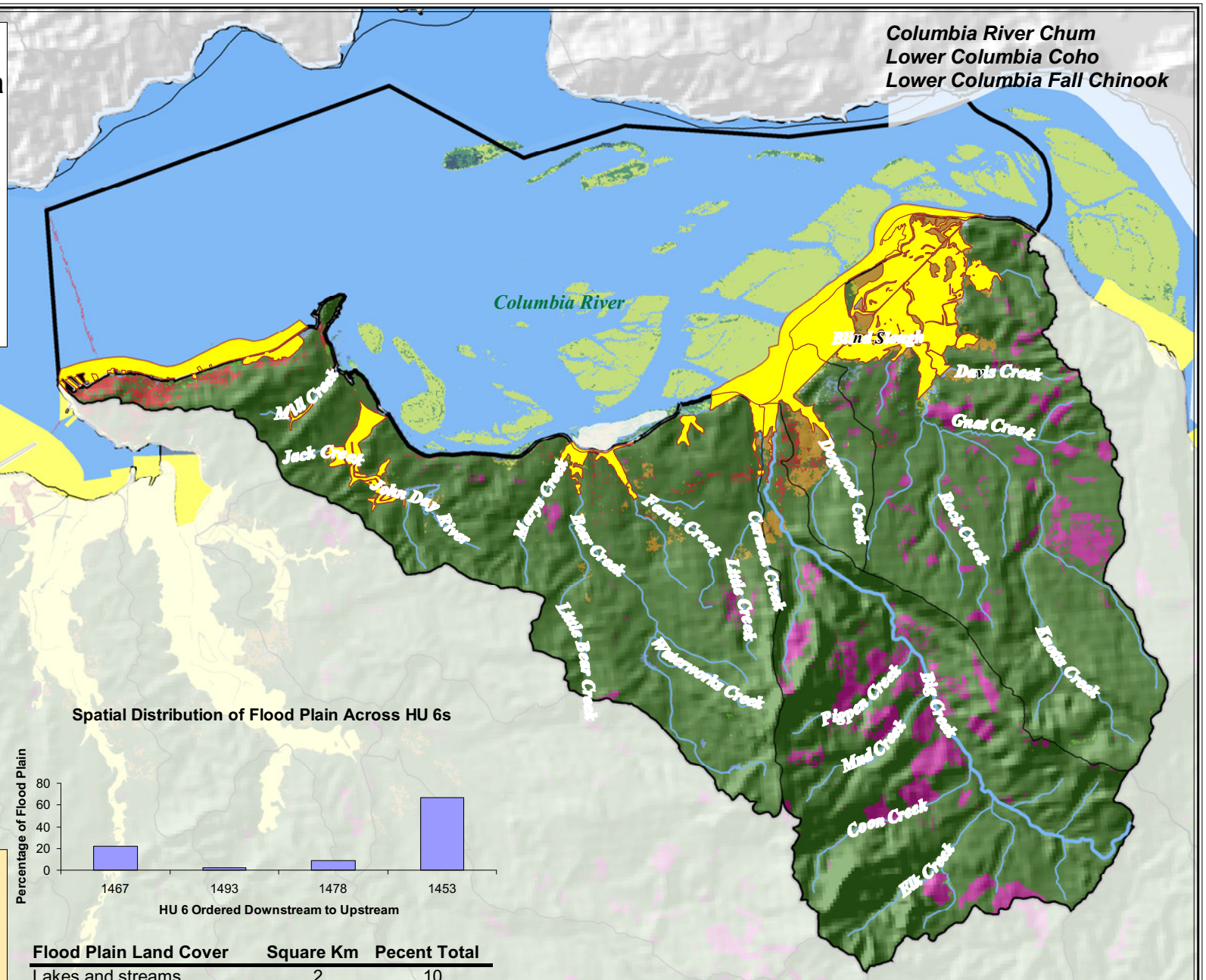
Use type	Stream km	% total
Spawning and rearing	16	7
Rearing and migration	11	5
Total use	26	11
Total 100k streams	**235**	**100**

Big Creek
FEMA Q3 Flood Data

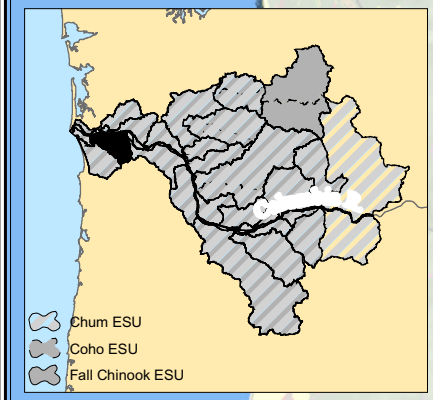
Flood plain

0 2 4 6 8
Km

Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook



Flood Plain Land Cover	Square Km	Pecent Total
Lakes and streams	2	10
Rock, sand and clay	<1	<1
Grasslands	<1	1
Developed	<1	1
Forest and shrubs	7	35
Agriculture	8	42
Wetlands	2	12
Total 100 yr. Flood Plain	**19**	**100**



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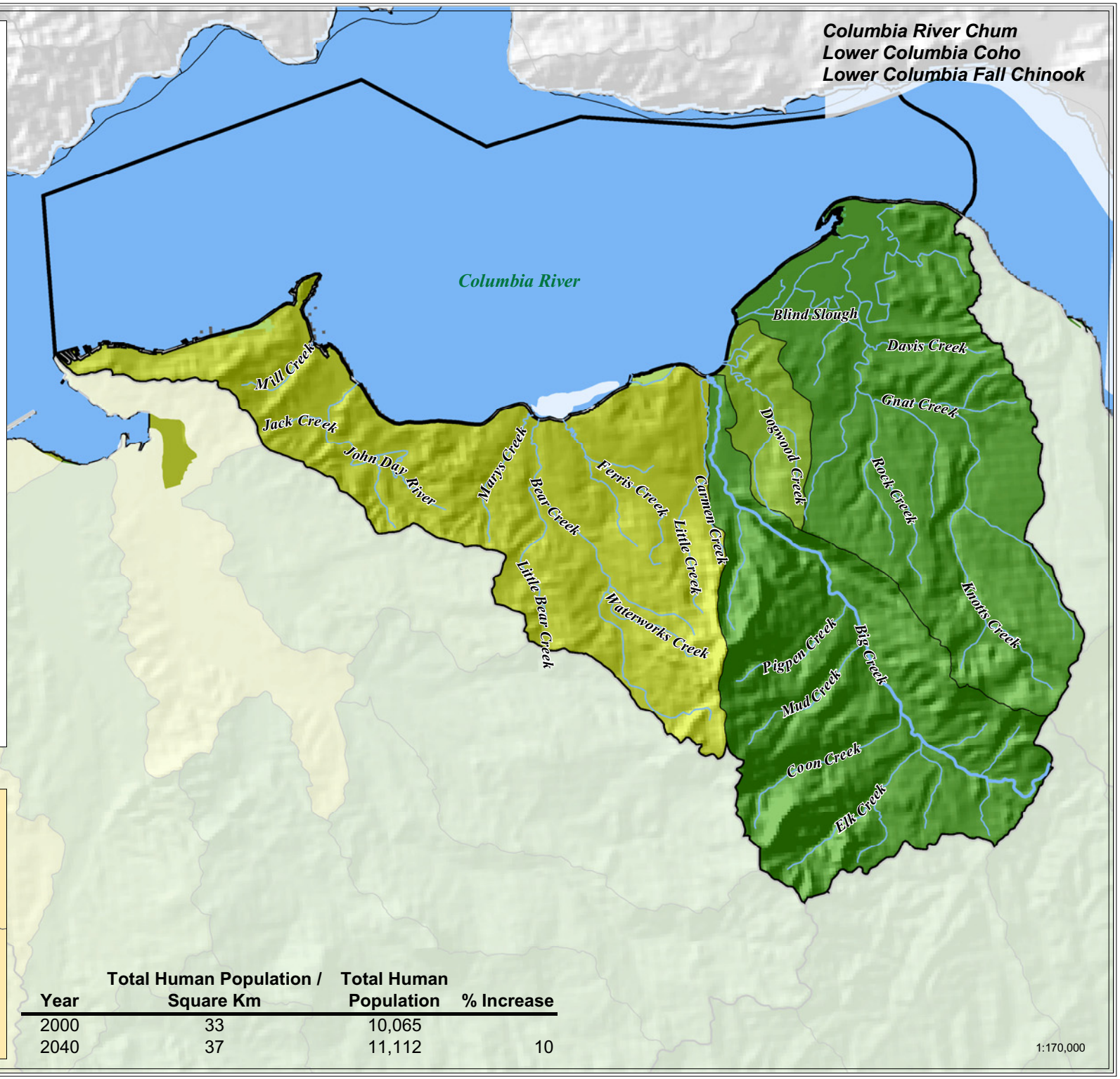
Big Creek

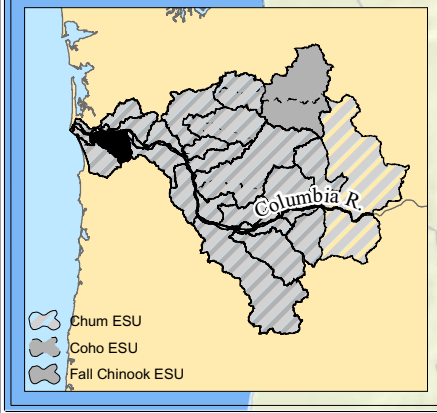
Big Creek

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 - 1505
- 1506 - 2327
- 2328 - 3002

0 2 4 6 8
Km





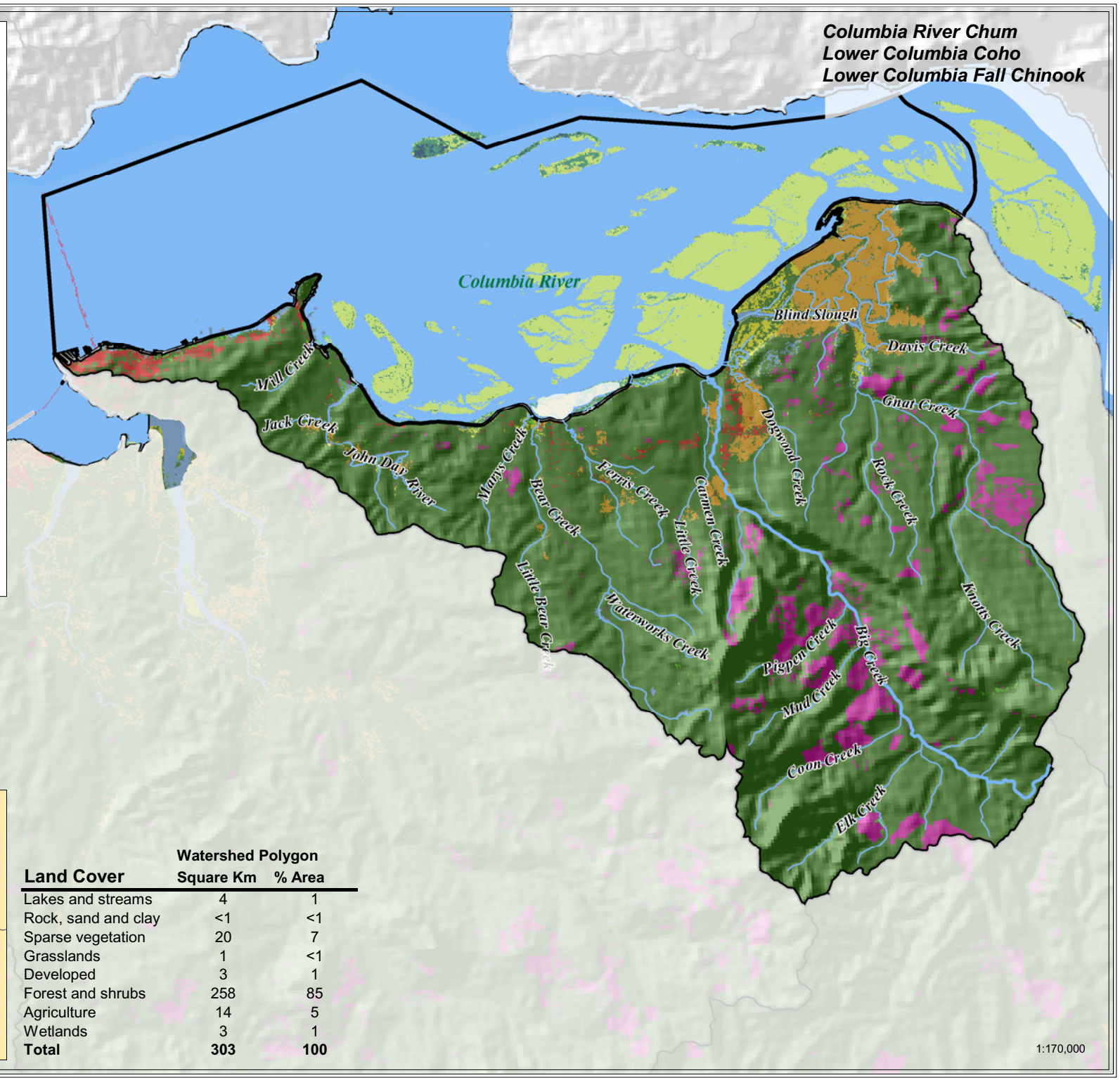
Year	Total Human Population / Square Km	Total Human Population	% Increase
2000	33	10,065	
2040	37	11,112	10

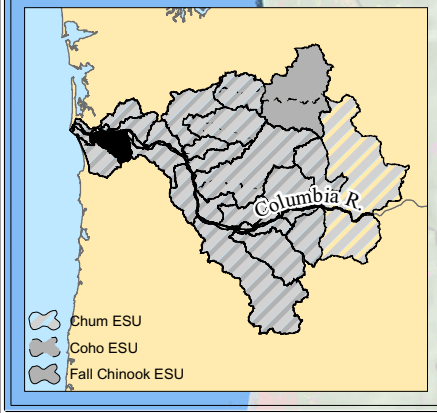
Big Creek

Land Cover

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

0 2 4 6 8
Km





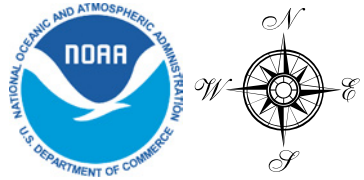
Land Cover	Watershed Polygon Square Km	% Area
Lakes and streams	4	1
Rock, sand and clay	<1	<1
Sparse vegetation	20	7
Grasslands	1	<1
Developed	3	1
Forest and shrubs	258	85
Agriculture	14	5
Wetlands	3	1
Total	**303**	**100**

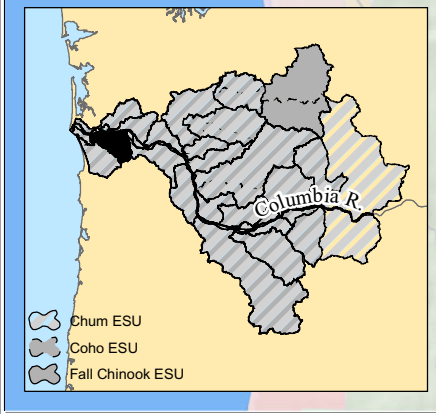
Big Creek

Big Creek
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

0 2 4 6 8
Km



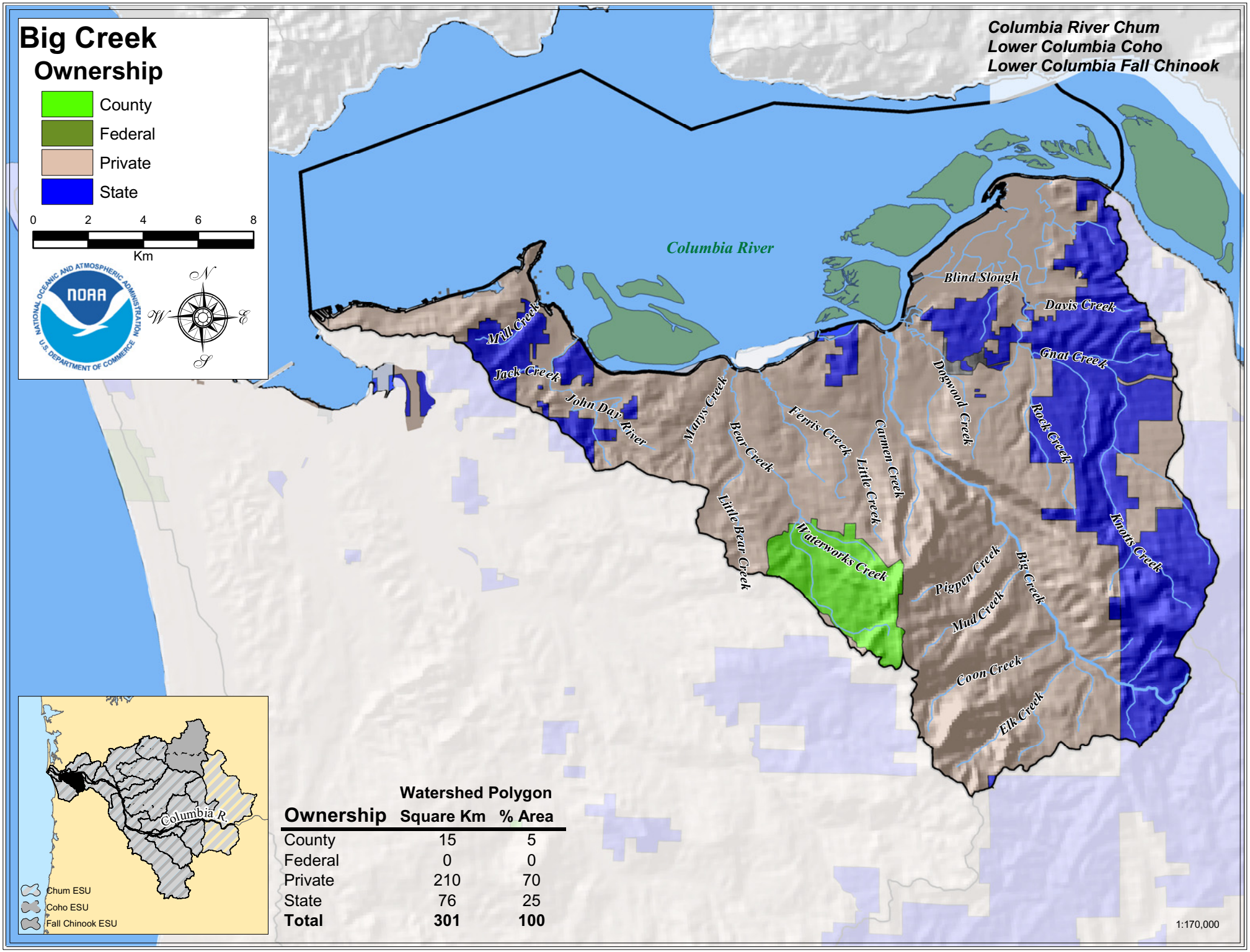


Columbia River Chum
Lower Columbia Coho
Lower Columbia Fall Chinook

Columbia River
Mill Creek
Jack Creek
John Day River
Marys Creek
Bear Creek
Little Bear Creek
Hillcrest Creek
Ferris Creek
Little Creek
Carmen Creek
Mill Creek
John Day Creek
Waterworks Creek
Warren Slough
Grizzly Slough
Sasral Slough
Dogwood Creek
Supply Creek
Davis Creek
Gnat Creek
Big Noise Creek
Rock Creek
Knotts Creek
Pigpen Creek
Big Creek
Mud Creek
Coon Creek
Elk Creek

1:170,000

Land Use	Watershed Polygon Square Km	% Area
Ag-forestry zone	11	4
Agriculture	14	5
Estuary	9	3
Forestry	234	77
Natural resource zone	1	0
Rural residential	26	8
Urban	9	3
Total	**303**	**100**



Ownership	Watershed Polygon Square Km	% Area
County	15	5
Federal	0	0
Private	210	70
State	76	25
Total	**301**	**100**

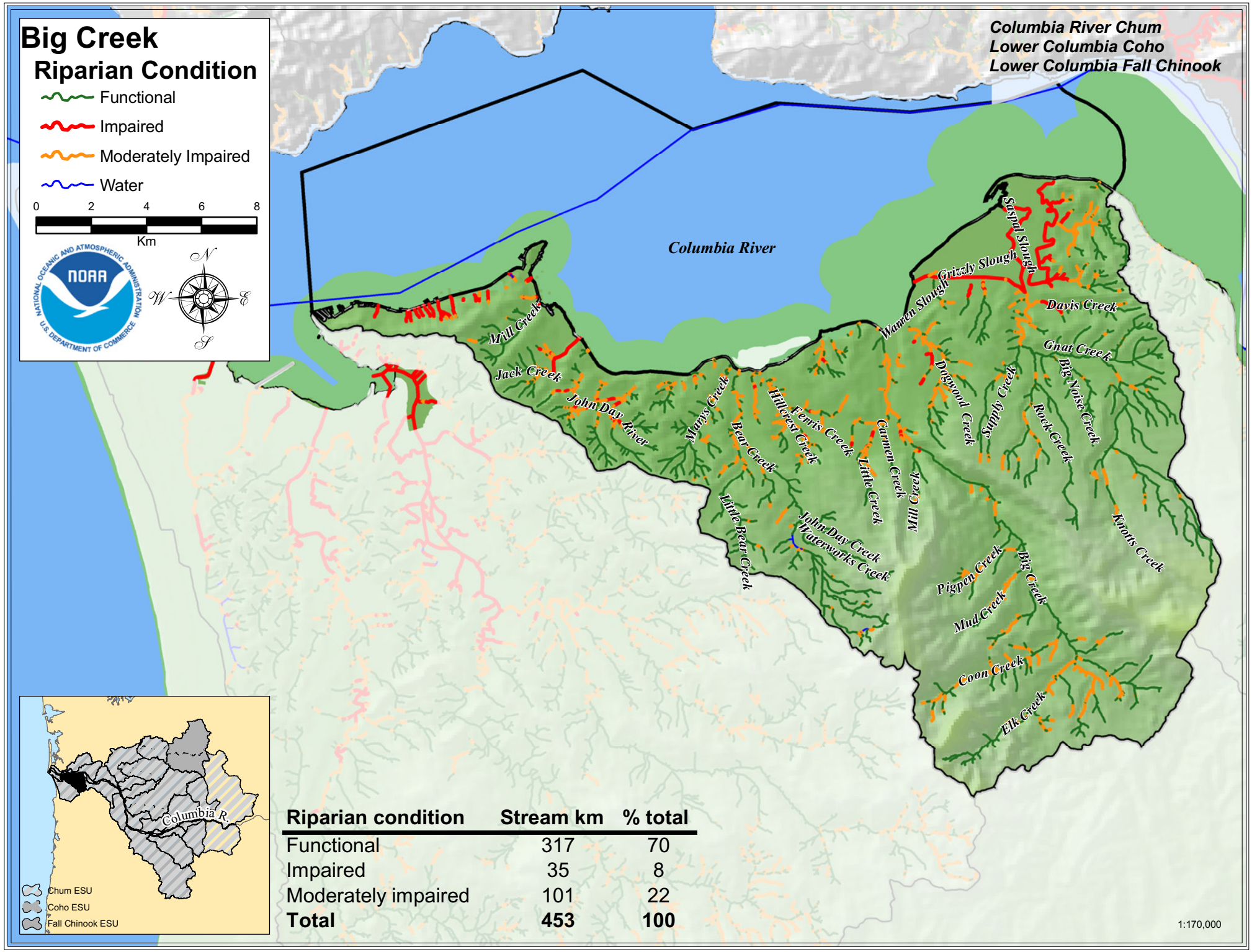
Big Creek

Big Creek

Riparian Condition

- Functional
- Impaired
- Moderately Impaired
- Water

0 2 4 6 8
Km



Riparian condition	Stream km	% total
Functional	317	70
Impaired	35	8
Moderately impaired	101	22
Total	**453**	**100**

Big Creek

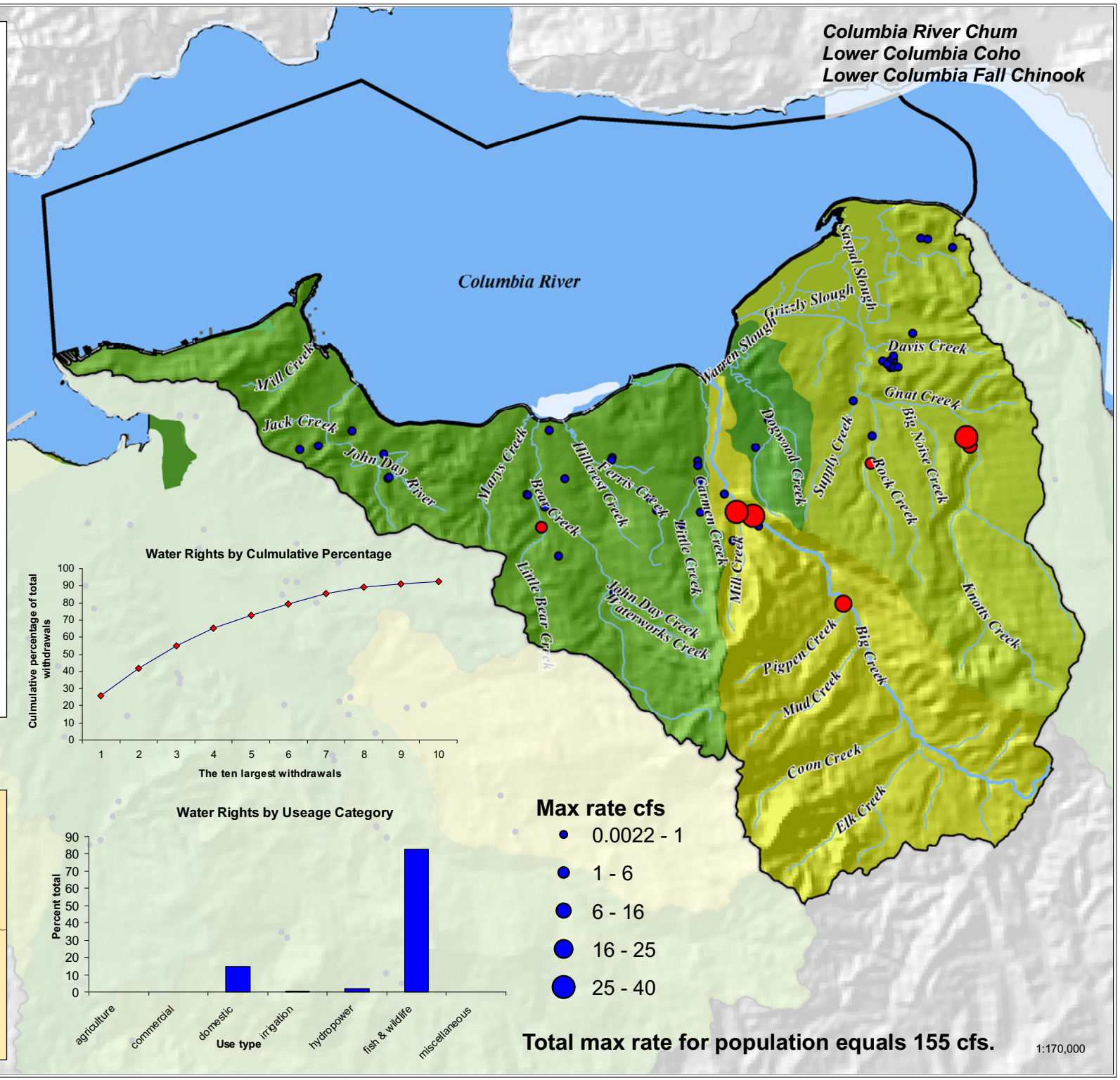
Water Rights

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

0 2 4 6 8

Km



Big Creek