Hood River
Accessibility

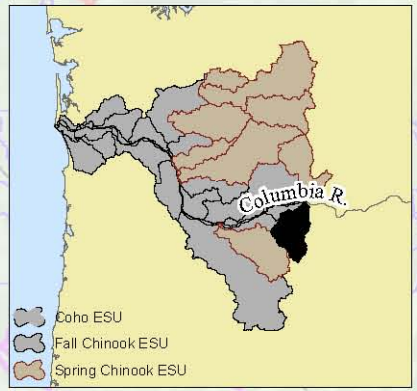
Current accessibility
Historical accessibility
Above natural barriers
Inacc. Sush, Spch
Inacc. Coho, Fach, Wish

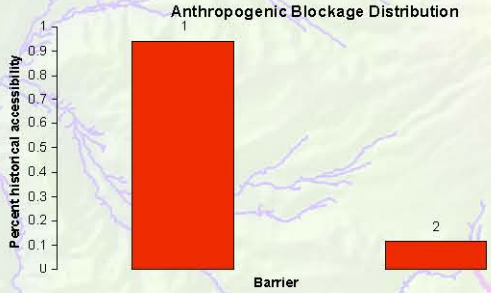
0 4 8 12
Km

Lower Columbia Coho
Lower Columbia Fall Chinook
Lower Columbia Spring Chinook

Powerdale Dam
Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Lake Branch
Marco Creek
Rimrock Creek
Bear Creek
Cat Creek
Jones Creek
Puppy Creek
Evans Creek
Ladd Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

Accessibility	Stream km	% total
Current accessibility	584	99
Historical accessibility	584	99
Above natural barriers	8	1
Total streams	592	
Current / Historical		**100**





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Hood River
Accessibility

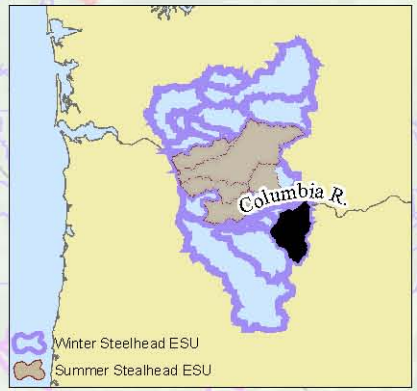
Current accessibility
Historical accessibility
Above natural barriers
Inacc. Sush, Spch
Inacc. Coho, Fach, Wish

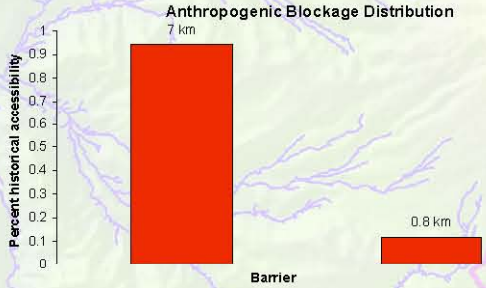
0 4 8 12
Km

Lower Columbia Winter Steelhead
Lower Columbia Summer Steelhead

Powerdale Dam
Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
West Fork Hood River
Indian Creek
Laurel Creek
Emil Creek
Trout Creek
Tony Creek
Lake Branch
Marco Creek
Rimrock Creek
Bear Creek
Jones Creek
Cat Creek
Puppy Creek
Ladd Creek
Evans Creek
McGee Creek
Coe Branch
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

Accessibility	Stream km	% total
Current accessibility	584	97
Historical accessibility	592	99
Above natural barriers	8	1
Total streams	600	
Current / Historical		**99**





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Hood River
2002 303(d) Listed Water Courses

PARAMETER

- Chlorpyrifos
- Guthion
- Iron
- Zinc

Columbia River

- PCB
- Temperature
- Inacc. Sush, Spch
- Inacc. Coho, Fach, Wish

0 4 8 12
Km

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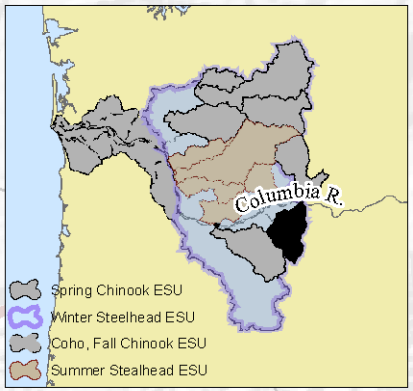
N W E S

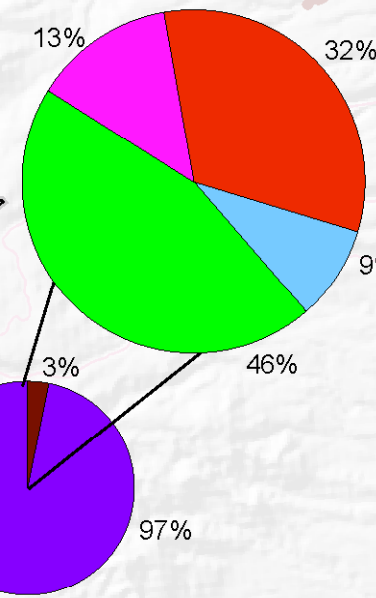


Lower Columbia Coho
Lower Columbia Fall Chinook
Lower Columbia Spring Chinook
Lower Columbia Winter Steelhead
Lower Columbia Summer Steelhead

Powerdale Dam

Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Marco Creek
Lake Branch
Rimrock Creek
Bear Creek
Cat Creek
Jones Creek
Ladd Creek
Evans Creek
Puppy Creek
Pinnacle Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

Zinc, Chlorpyrifus, Table 20
Zinc, Table 20
Iron, Chlorpyrifos, Githion, Table 20
Chlorpyrifos, Table 20



Total 303(d) Streams = 3% Total 100k Streams

Total 303(d) streams - 27.57 km
Remaining 100k streams - 832.27 km

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Hood River

Hood River
ODFW Distribution
Use type

- Spawning and rearing
- Rearing and migration
- Migration
- Previous/Historical
- Present, unknown use
- Absent
- Disputed
- Inacc. Sush, Spch
- Inacc. Coho, Fach, Wish

0 4 8 12
Km

Lower Columbia Coho

Powerdale Dam

Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Marco Creek
Lake Branch
Rimrock Creek
Bear Creek
Cat Creek
Jones Creek
Ladd Creek
Pinnacle Creek
Evans Creek
Puppy Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

Use type	Stream km	% total
Spawning and rearing	106	12
Migration	1	<1
Previous / historical	4	<1
Total use	111	13
Total 100k streams	**860**	**100**

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Hood River
ODFW Distribution
Use type

- Spawning and rearing
- Rearing and migration
- Migration
- Previous/Historical
- Present, unknown use
- Absent
- Disputed
- Inacc. Sush, Spch
- Inacc. Coho, Fach, Wish

0 4 8 12
Km

Lower Columbia Fall Chinook

Powerdale Dam
Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Marco Creek
Lake Branch
Rimrock Creek
Bear Creek
Cat Creek
Jones Creek
Ladd Creek
Evans Creek
Puppy Creek
Pinnacle Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

Use type	Stream km	% total
Spawning and rearing	39	4
Migration	1	<1
Total use	40	5
Total 100k streams	**860**	**100**

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Hood River
ODFW Distribution
Use type

- Spawning and rearing
- Rearing and migration
- Migration
- Previous/Historical
- Present, unknown use
- Absent
- Disputed
- Inacc. Sush, Spch
- Inacc. Coho, Fach, Wish

0 4 8 12
Km

Lower Columbia Spring Chinook

Powerdale Dam
Indian Creek
Hood River
Ditch Creek
Pine Creek
Green Point Creek
Birdie Creek
Odell Creek
Neal Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Marco Creek
Lake Branch
Rimrock Creek
Bear Creek
Jones Creek
Cat Creek
Ladd Creek
Evans Creek
Puppy Creek
Pinnacle Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

Use type	Stream km	% total
Spawning and rearing	75	9
Rearing and migration	15	2
Migration	2	<1
Total use	92	11
Total 100k streams	**860**	**100**

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Hood River
ODFW Distribution
Use type

- Spawning and rearing
- Rearing and migration
- Migration
- Previous/Historical
- Present, unknown use
- Absent
- Disputed
- Inacc. Sush, Spch
- Inacc. Coho, Fach, Wish

0 4 8 12
Km

Lower Columbia Summer Steelhead

Powerdale Dam
Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Marco Creek
Lake Branch
Rimrock Creek
Bear Creek
Cat Creek
Jones Creek
Ladd Creek
Evans Creek
Puppy Creek
Pinnacle Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

Use type	Stream km	% total
Spawning and rearing	124	14
Rearing and migration	2	<1
Previous / historical	7	1
Total use	133	15
Total 100k streams	**860**	**100**

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Hood River

Hood River
ODFW Distribution
Use type

- Spawning and rearing
- Rearing and migration
- Migration
- Previous/Historical
- Present, unknown use
- Absent
- Disputed
- Inacc. Sush, Spch
- Inacc. Coho, Fach, Wish

0 4 8 12
Km

Lower Columbia Winter Steelhead

Powerdale Dam

Indian Creek
Hood River
Ditch Creek
Pine Creek
Green Point Creek
Birdie Creek
Odell Creek
Neal Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Tony Creek
Trout Creek
Emil Creek
Lake Branch
Marco Creek
Bear Creek
Rimrock Creek
Cat Creek
Jones Creek
Ladd Creek
Pinnacle Creek
Evans Creek
Puppy Creek
McGee Creek
Coe Branch
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

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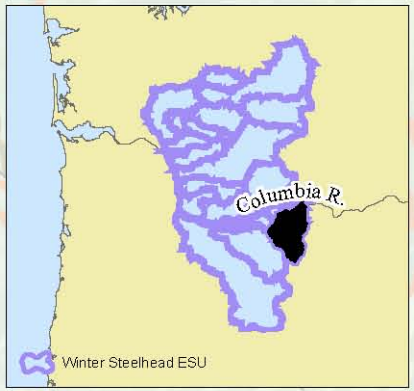

Use type	Stream km	% total
Spawning and rearing	147	17
Migration	1	<1
Previous / historical	7	1
Present, unknown use	3	<1
Total use	158	18
Total 100k streams	**860**	**100**

Hood River
FEMA Q3 Flood Data

Flood Plain
Inacc. Sush, Spch
Inacc. Coho, Fach, Wish

0 4 8 12
Km

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

N W E S

Lower Columbia Coho
Lower Columbia Fall Chinook
Lower Columbia Spring Chinook
Lower Columbia Winter Steelhead
Lower Columbia Summer Steelhead

Powerdale Dam
Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Marco Creek
Lake Branch
Rimrock Creek
Bear Creek
Jones Creek
Cat Creek
Puppy Creek
Ladd Creek
Evans Creek
Pinnacle Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

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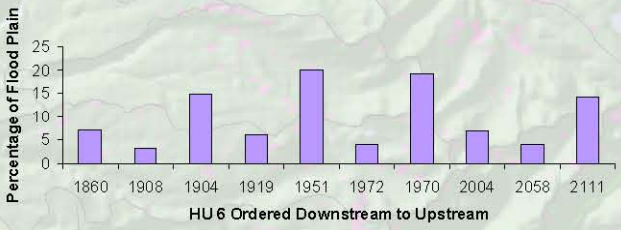
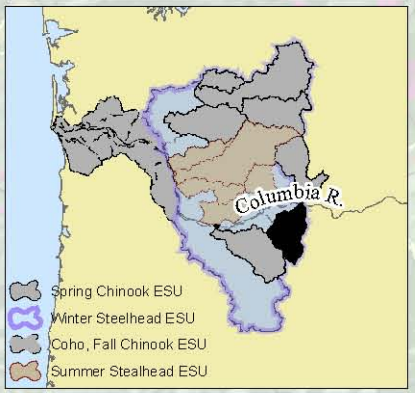
Spatial Distribution of Flood Plain Across HU 6s





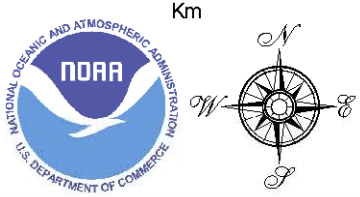
Flood Plain Land Cover	Square Km	Pecent Total
Lakes and streams	3	25
Sparse vegetation in transition	<1	<1
Forest and shrubs	6	58
Agriculture	1	12
Total 100 yr. Flood Plain	**11**	**100**

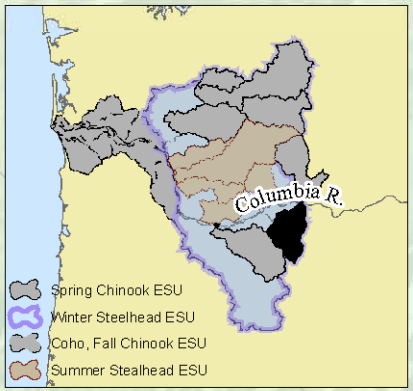
Hood River

Hood River
2000 HU 6
Population Density

- 0 - 6
- 7 - 17
- 18 - 33
- 34 - 51
- 52 - 77
- 78 - 126
- 127 - 204
- 205 - 436
- 437 - 806
- 807 - 1505
- 1506 - 3002
- Inacc. Sush, Spch
- Inacc. Coho, Fach, Wish

0 4 8 12
Km





Year	Total Human Population / Square Km	Total Human Population	% Increase
2000	18	16,129	
2040	29	25,677	59

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Hood 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 4 8 12
Km

Lower Columbia Coho
Lower Columbia Fall Chinook
Lower Columbia Winter Steelhead

Powerdale Dam

Indian Creek
Hood River
Ditch Creek
Pine Creek
Green Point Creek
Odell Creek
Neal Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Lake Branch
Marco Creek
Bear Creek
Ramrock Creek
Cat Creek
Jones Creek
Ladd Creek
Evans Creek
Puppy Creek
Pinnacle Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

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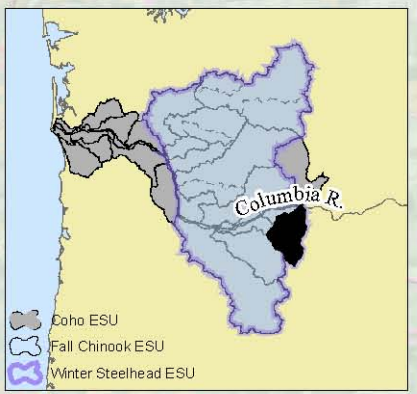

Land Cover	Watershed Polygon Square Km	Watershed Polygon % Area	Historically Accessible Square Km	Historically Accessible % Area
Lakes and streams	6	1	4	1
Ice and snow	6	1	5	1
Rock, sand and clay	21	2	20	3
Sparse vegetation	76	9	47	8
Grasslands	10	1	8	1
Developed	7	1	7	1
Forest and shrubs	644	73	418	68
Agriculture	109	12	108	17
Wetlands	1	<1	1	<1
Total	**881**	**100**	**617**	**100**

Hood 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 4 8 12
Km

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U.S. DEPARTMENT OF COMMERCE

N W E S

Lower Columbia Spring Chinook
Lower Columbia Summer Steelhead

Powerdale Dam

Whiskey Creek
Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Lake Branch
Marco Creek
Rimrock Creek
Bear Creek
Cat Creek
Jones Creek
Ladd Creek
Pinnacle Creek
Evans Creek
Puppy Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Potallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

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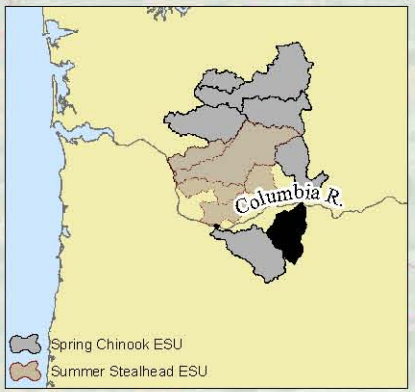

Land Cover	Watershed Polygon Square Km	Watershed Polygon % Area	Historically Accessible Square Km	Historically Accessible % Area
Lakes and streams	6	1	6	1
Ice and snow	6	1	6	1
Rock, sand and clay	21	2	21	3
Sparse vegetation	76	9	66	8
Grasslands	10	1	9	1
Developed	7	1	7	1
Forest and shrubs	644	73	591	74
Agriculture	109	12	95	12
Wetlands	1	<1	1	<1
Total	**881**	**100**	**801**	**100**

Hood River
Land Use

- Agriculture
- Forest
- Natural resource zone
- Park and recreation
- Rural industrial
- Rural residential
- Urban
- Water
- Historically Inaccessible

0 4 8 12
Km

Lower Columbia Coho
Lower Columbia Fall Chinook
Lower Columbia Winter Steelhead

Powerdale Dam

Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Marco Creek
Lake Branch
Rimrock Creek
Bear Creek
Jones Creek
Cat Creek
Ladd Creek
Evans Creek
Pinnacle Creek
Puppy Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

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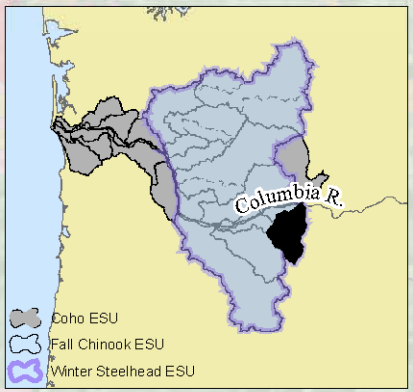


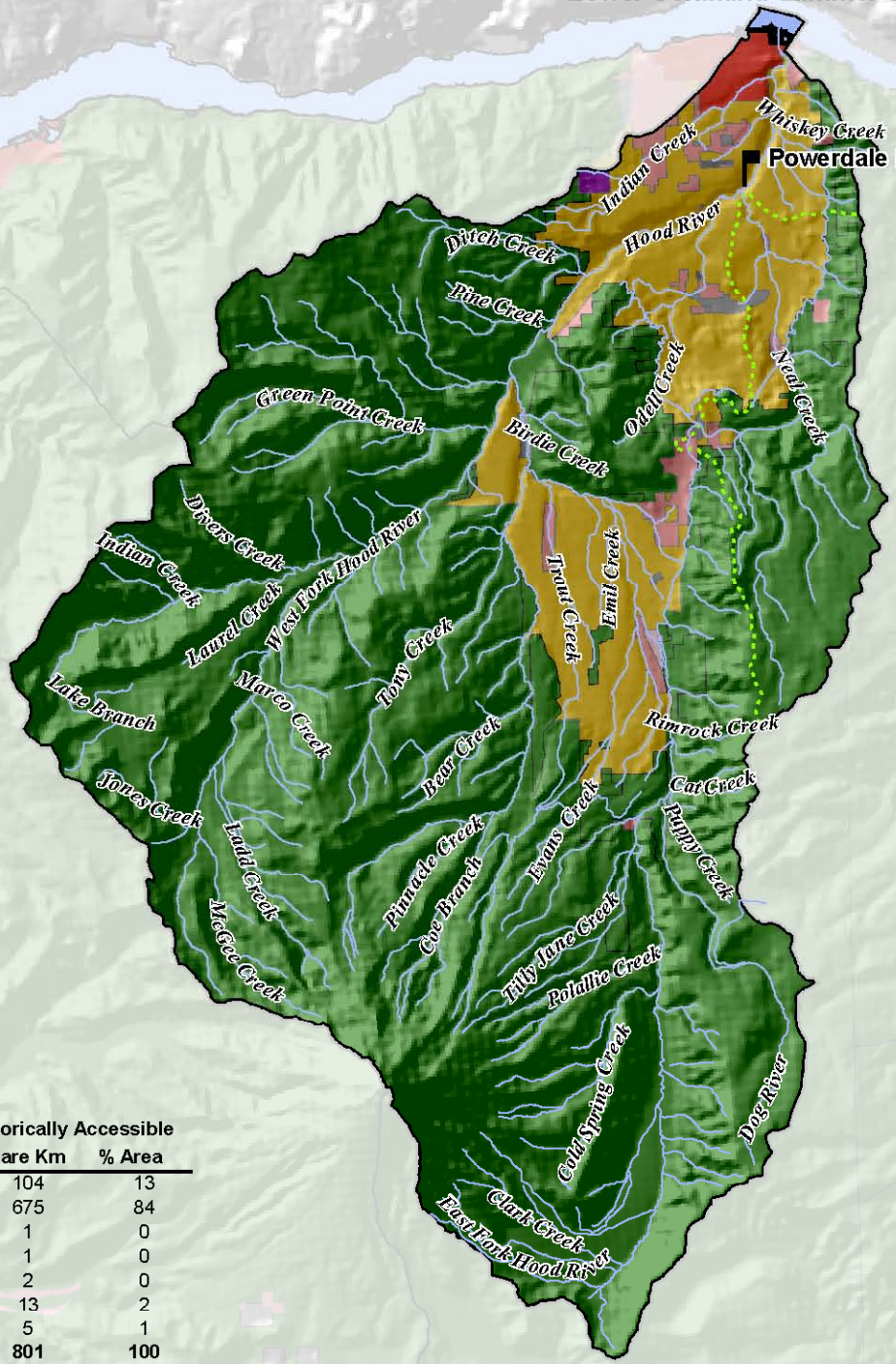
Land Use	Watershed Polygon Square Km	Watershed Polygon % Area	Historically Accessible Square Km	Historically Accessible % Area
Agriculture	121	14	119	19
Forestry	736	84	474	77
Natural resource zone	1	<1	1	<1
Park and recreation	1	<1	1	<1
Rural industrial	2	<1	2	<1
Rural residential	15	2	15	2
Urban	5	1	5	1
Total	**880**	**100**	**616**	**100**

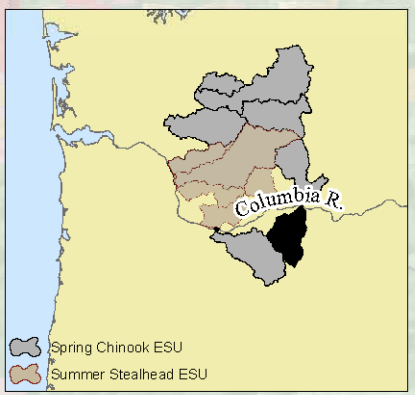
Hood River

Hood River
Land Use

- Agriculture
- Forest
- Natural resource zone
- Park and recreation
- Rural industrial
- Rural residential
- Urban
- Water
- Historically Inaccessible

0 4 8 12
Km





Land Use	Watershed Polygon Square Km	Watershed Polygon % Area	Historically Accessible Square Km	Historically Accessible % Area
Agriculture	121	14	104	13
Forestry	736	84	675	84
Natural resource zone	1	0	1	0
Park and recreation	1	0	1	0
Rural industrial	2	0	2	0
Rural residential	15	2	13	2
Urban	5	1	5	1
Total	**880**	**100**	**801**	**100**

Hood River
Ownership

County
Federal
Private
State
Historically Inaccessible

0 4 8 12
Km

Lower Columbia Coho
Lower Columbia Fall Chinook
Lower Columbia Winter Steelhead

Powerdale Dam

Indian Creek
Hood River
Ditch Creek
Pine Creek
Green Point Creek
Birdie Creek
Odell Creek
Neal Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Marco Creek
Lake Branch
Rimrock Creek
Bear Creek
Cat Creek
Jones Creek
Ladd Creek
Evans Creek
Puppy Creek
Pinnacle Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

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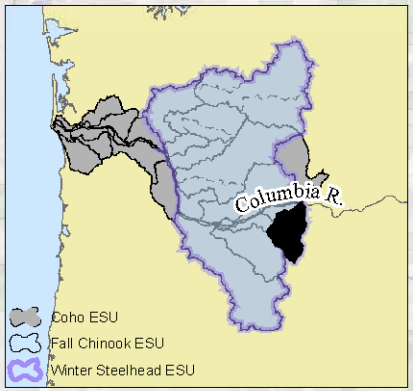
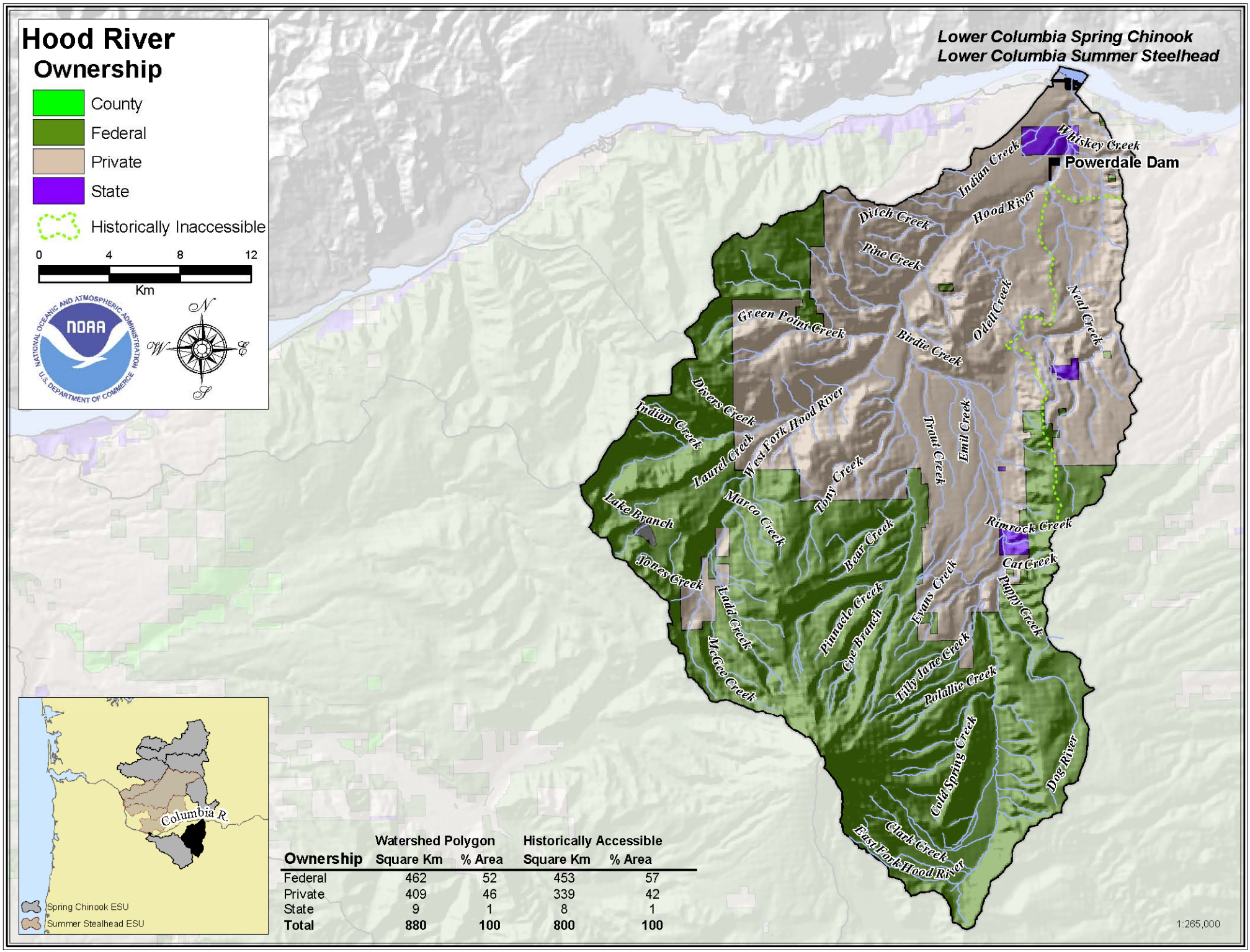


Ownership	Watershed Polygon Square Km	Watershed Polygon % Area	Historically Accessible Square Km	Historically Accessible % Area
Federal	462	52	290	47
Private	409	46	318	52
State	9	1	9	1
Total	**880**	**100**	**617**	**100**

Hood River



Ownership	Watershed Polygon Square Km	Watershed Polygon % Area	Historically Accessible Square Km	Historically Accessible % Area
Federal	462	52	453	57
Private	409	46	339	42
State	9	1	8	1
Total	**880**	**100**	**800**	**100**

Hood River
Riparian Condition

- Functional
- Impaired
- Moderately Impaired
- No Data
- Water
- Inacc. Sush, Spch
- Inacc. Coho, Fach, Wish

0 4 8 12
Km

Lower Columbia Coho
Lower Columbia Fall Chinook
Lower Columbia Spring Chinook
Lower Columbia Winter Steelhead
Lower Columbia Summer Steelhead

Powerdale Dam

Indian Creek
Hood River
Ditch Creek
Pine Creek
Odell Creek
Neal Creek
Green Point Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Trout Creek
Emil Creek
Laurel Creek
Tony Creek
Lake Branch
Marco Creek
Rimrock Creek
Bear Creek
Cat Creek
Jones Creek
Puppy Creek
Evans Creek
Pinnacle Creek
Laidd Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River

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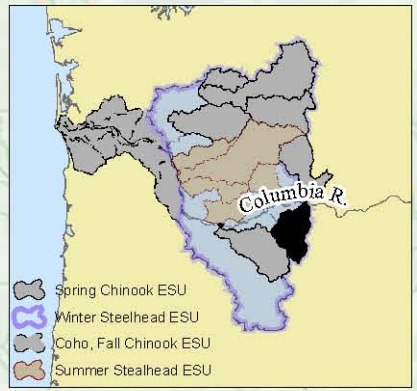
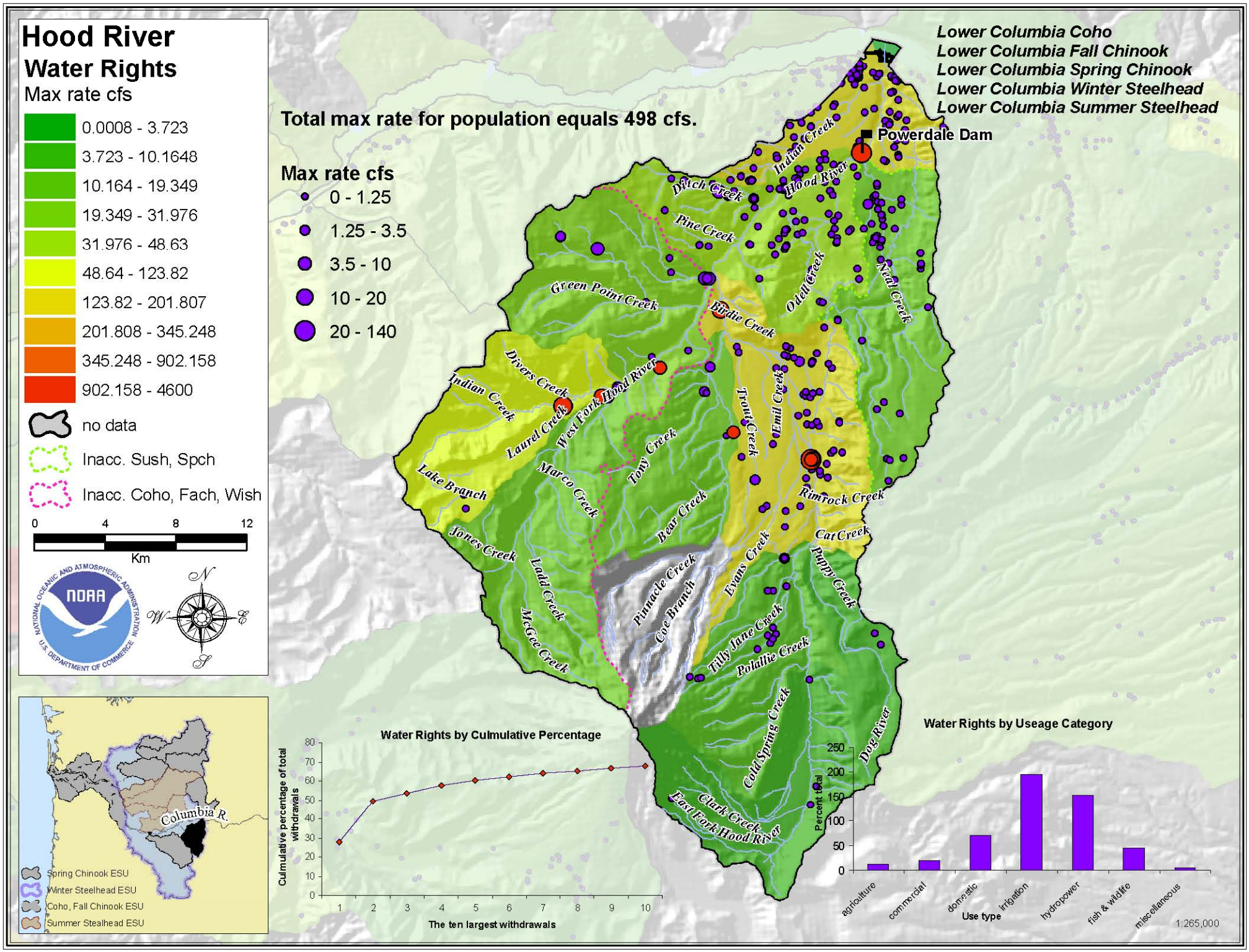


Riparian condition	Stream km	% total
Functional	307	51
Impaired	128	21
Moderately impaired	162	27
No data	2	<1
Total	**599**	**100**

Hood River


Hood River
Water Rights
Max rate cfs
0.0008 - 3.723
3.723 - 10.1648
10.164 - 19.349
19.349 - 31.976
31.976 - 48.63
48.64 - 123.82
123.82 - 201.807
201.808 - 345.248
345.248 - 902.158
902.158 - 4600
no data
Inacc. Sush, Spch
Inacc. Coho, Fach, Wish
0 4 8 12
Km
NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
N
W
E
S
Total max rate for population equals 498 cfs.
Max rate cfs
0 - 1.25
1.25 - 3.5
3.5 - 10
10 - 20
20 - 140
Lower Columbia Coho
Lower Columbia Fall Chinook
Lower Columbia Spring Chinook
Lower Columbia Winter Steelhead
Lower Columbia Summer Steelhead
Powerdale Dam
Indian Creek
Hood River
Ditch Creek
Pine Creek
Green Point Creek
Odell Creek
Neal Creek
Birdie Creek
Divers Creek
Indian Creek
West Fork Hood River
Laurel Creek
Trout Creek
Emil Creek
Tony Creek
Lake Branch
Marco Creek
Rimrock Creek
Bear Creek
Cat Creek
Jones Creek
Ladd Creek
Evans Creek
Puppy Creek
Pinnacle Creek
Coe Branch
McGee Creek
Tilly Jane Creek
Polallie Creek
Cold Spring Creek
Dog River
Clark Creek
East Fork Hood River
Water Rights by Culmulative Percentage
Cumulative percentage of total withdrawals
The ten largest withdrawals
Water Rights by Useage Category
Percent total
Use type
agriculture
commercial
domestic
irrigation
hydropower
fish & wildlife
miscellaneous
1:265,000
Columbia R.
Spring Chinook ESU
Winter Steelhead ESU
Coho, Fall Chinook ESU
Summer Steelhead ESU