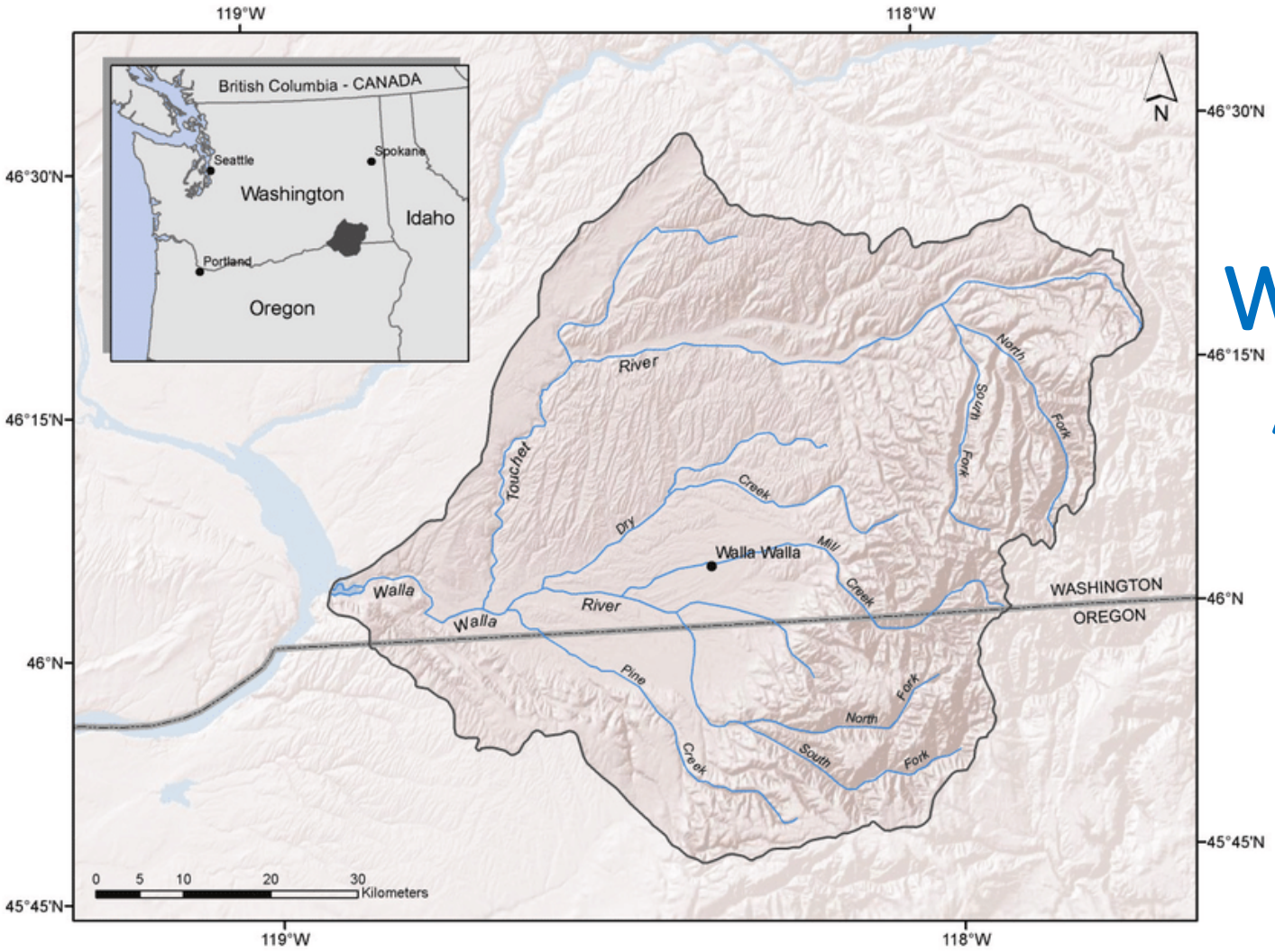
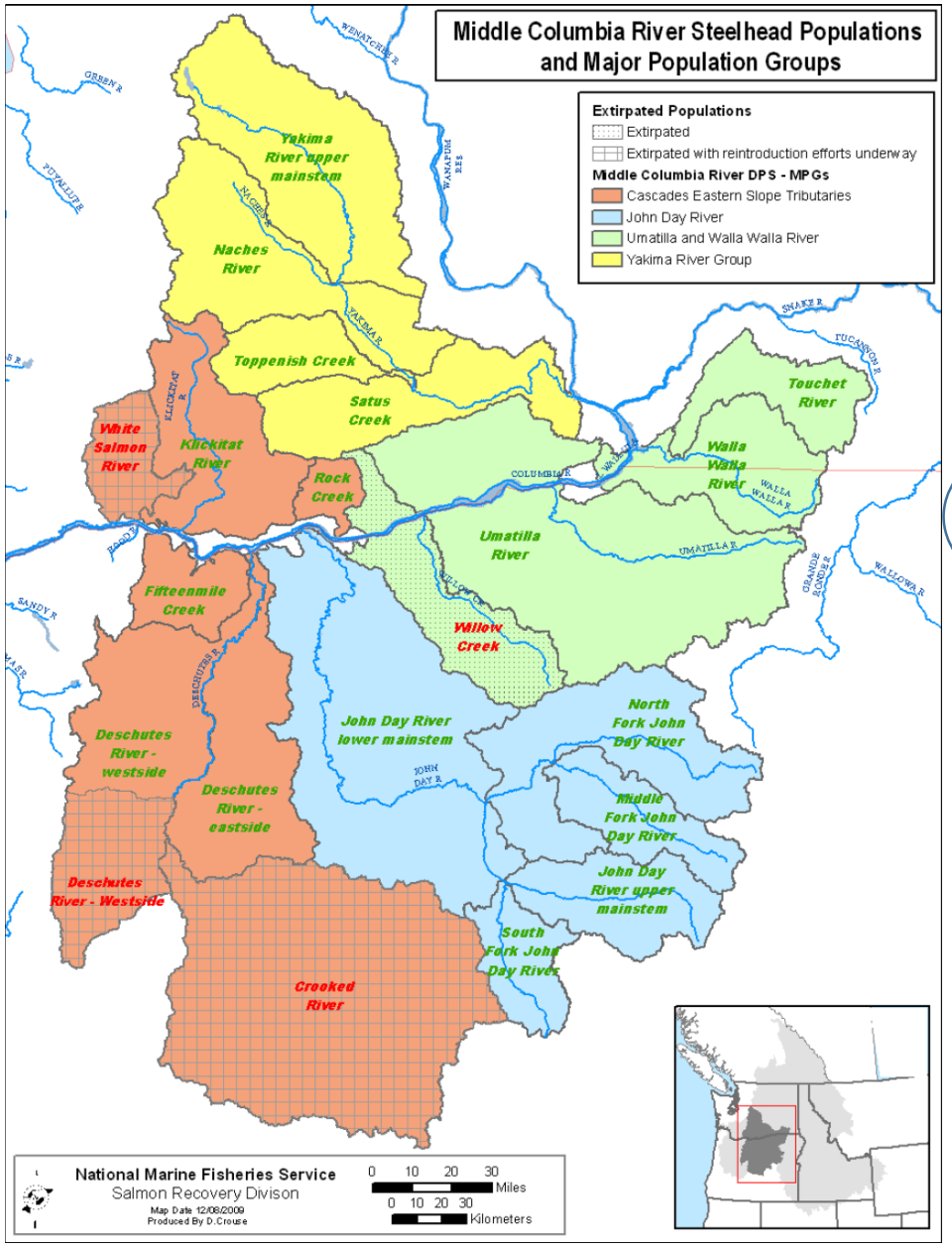
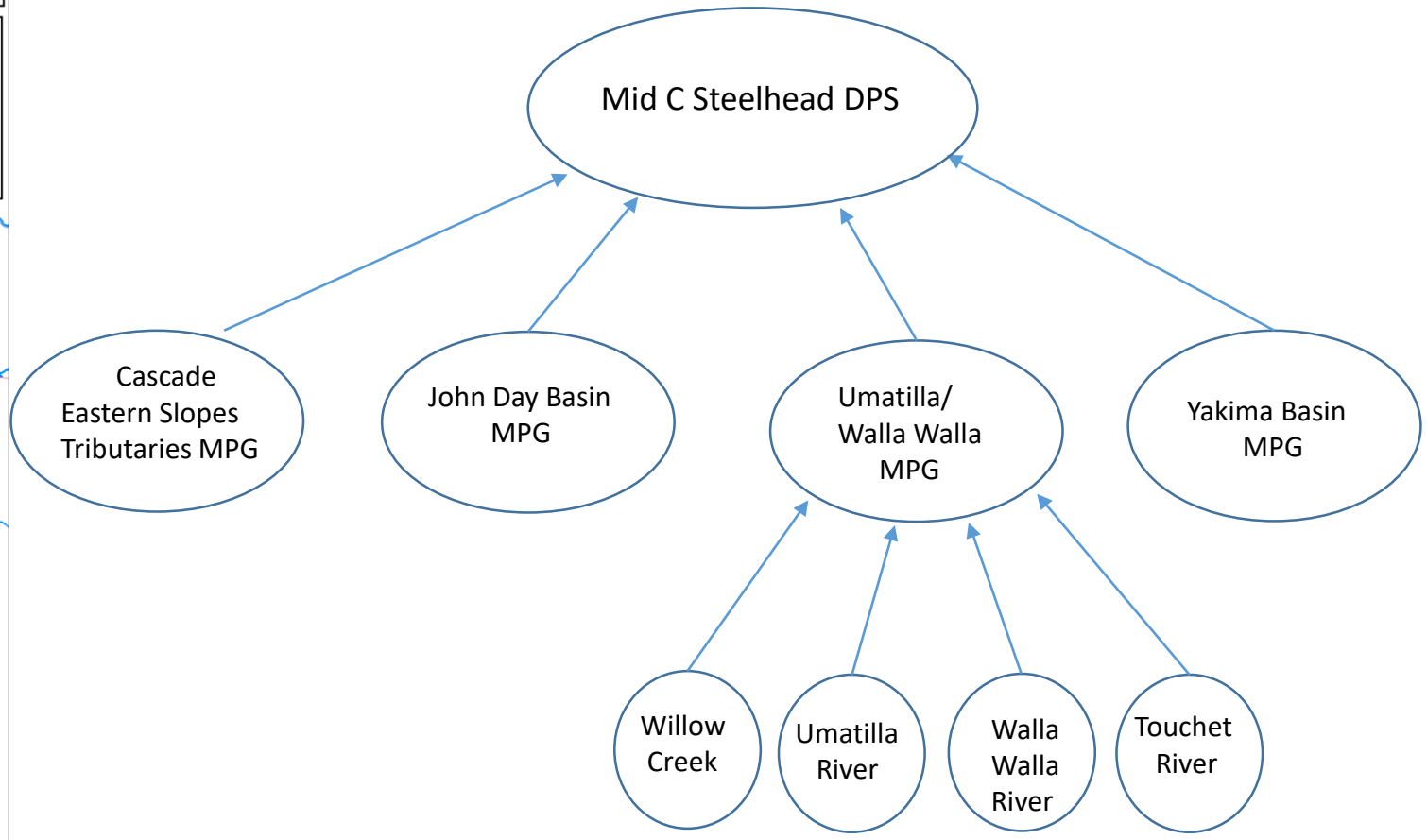


Researchgate.net

Walla Walla Water 2050
A Federal Perspective
NOAA Fisheries
Colleen Fagan
October 03, 2019

NOAA FISHERIES

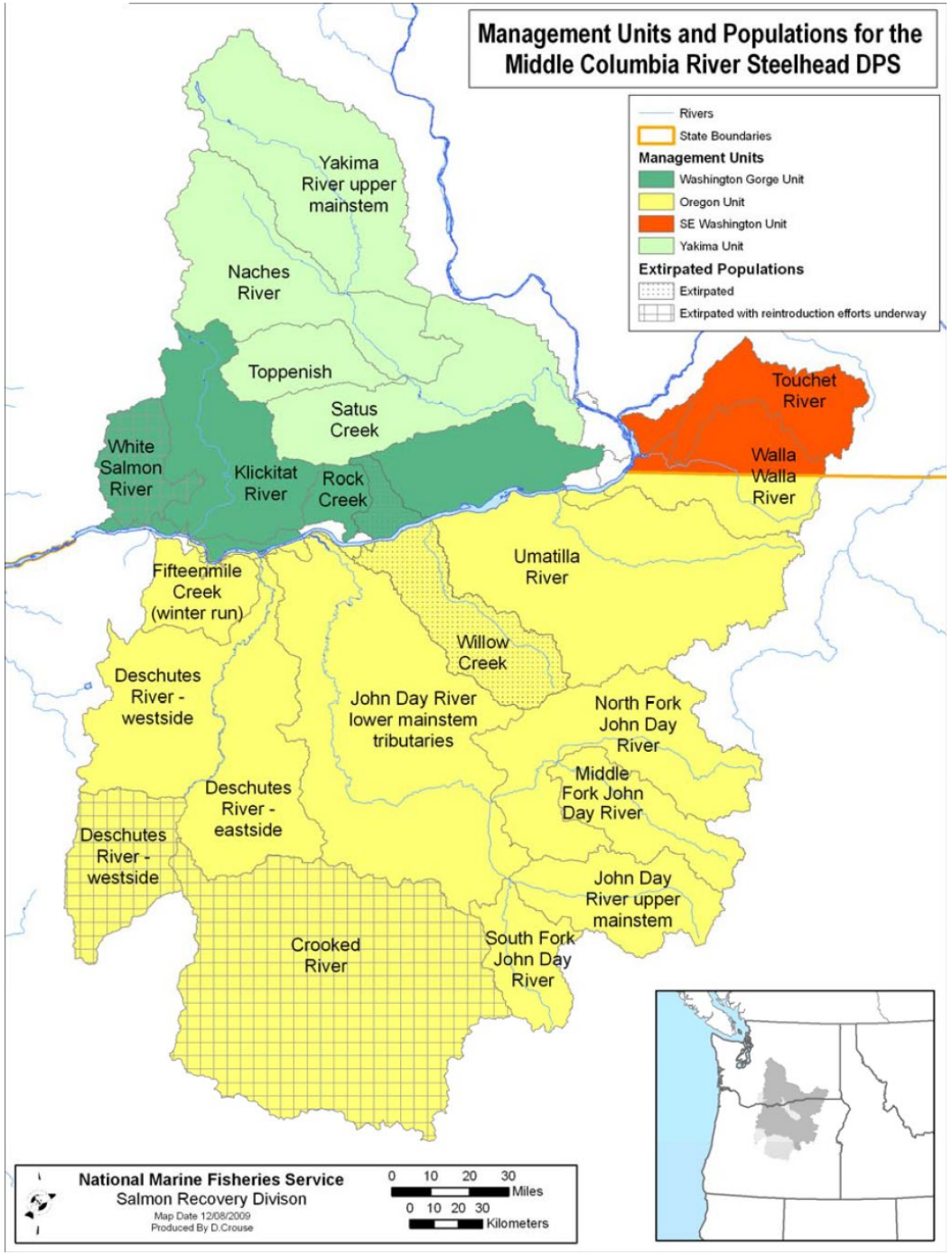

Middle Columbia River Steelhead Populations and Major Population Groups
Extirpated Populations
Extirpated
Extirpated with reintroduction efforts underway
Middle Columbia River DPS - MPGs
Cascades Eastern Slope Tributaries
John Day River
Umatilla and Walla Walla River
Yakima River Group
Yakima River upper mainstem
Naches River
Toppenish Creek
Satus Creek
White Salmon River
Klickitat River
Rock Creek
Touchet River
Walla Walla River
Umatilla River
Fifteenmile Creek
Willow Creek
Deschutes River - westside
Deschutes River - eastside
Deschutes River - Westside
Crooked River
John Day River lower mainstem
North Fork John Day River
Middle Fork John Day River
John Day River upper mainstem
South Fork John Day River
National Marine Fisheries Service
Salmon Recovery Divison
Map Date 12/08/2009
Produced By D.Crouse
0 10 20 30 Miles
0 10 20 30 Kilometers


Mid C Steelhead DPS
Cascade Eastern Slopes Tributaries MPG
John Day Basin MPG
Umatilla/ Walla Walla MPG
Yakima Basin MPG
Willow Creek
Umatilla River
Walla Walla River
Touchet River

Middle Columbia Steelhead ESA Recovery Plan November 30, 2009

Oregon Management Unit:
Conservation and Recovery Plan for Oregon Steelhead Populations in the Middle Columbia River Steelhead Distinct Population Segment
(Oregon Steelhead Recovery Plan)
February 2010

Southeast Washington Management Unit:
Snake River Salmon Recovery Plan for Southeast Washington
(Southeast Washington Plan)
2011



Viability Criteria

Abundance – adults on the spawning ground

Productivity – average number of surviving offspring per parent, or adult/adult

Spatial Structure – geographic distribution of individuals and the processes that affect that distribution

Diversity – the distribution of genetic, life history and phenotypic traits within and among populations

Population	Population Size	Abundance Threshold	Productivity Threshold
Umatilla R.	Large	1500	1.26
Walla Walla R.	Intermediate	1000	1.35
Touchet R.	Intermediate	1000	1.35
Willow Crk. (Extirp.)	Intermediate	1000	1.35

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Umatilla/Walla Walla MPG Current Status

Abundance/Productivity Risk	Spatial Structure/Diversity Risk			
	Very Low	Low	Moderate	High
Very Low (<1%)	HV	HV	V	M
Low (1-5%)	V	V	V	M
Moderate (6-25%)	M	M	M Umatilla Walla Walla	HR
High (>25%)	HR	HR	HR Touchet	HR

HV – Highly Viable
V- Viable
M- Maintained
HR – High Risk

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Umatilla/Walla Walla MPG Viable Status

Abundance / Productivity Risk	Spatial Structure / Diversity Risk				
		Very Low	Low	Moderate	High
	Very Low (<1%)	HV	HV Umatilla	V	M
	Low (1-5%)	V	V Walla Walla	V	M
	Moderate (6-25%)	M	M Touchet	M	HR
	High (>25%)	HR	HR	HR	HR

HV – Highly Viable
V- Viable
M- Maintained
HR – High Risk

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Recovery Plans &
5-Year Status Review - 2016

Main limiting factors and threats:

1. **Streamflow**
2. **Fish Passage Barriers**
3. **Water Temperature**

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Flume Transition at 9th Avenue

Channel modified for high and low flow passage

Looking downstream from the 9th Avenue bridge

Nursery Bridge Drop Structure

Mill Creek Flow and Passage Improvements

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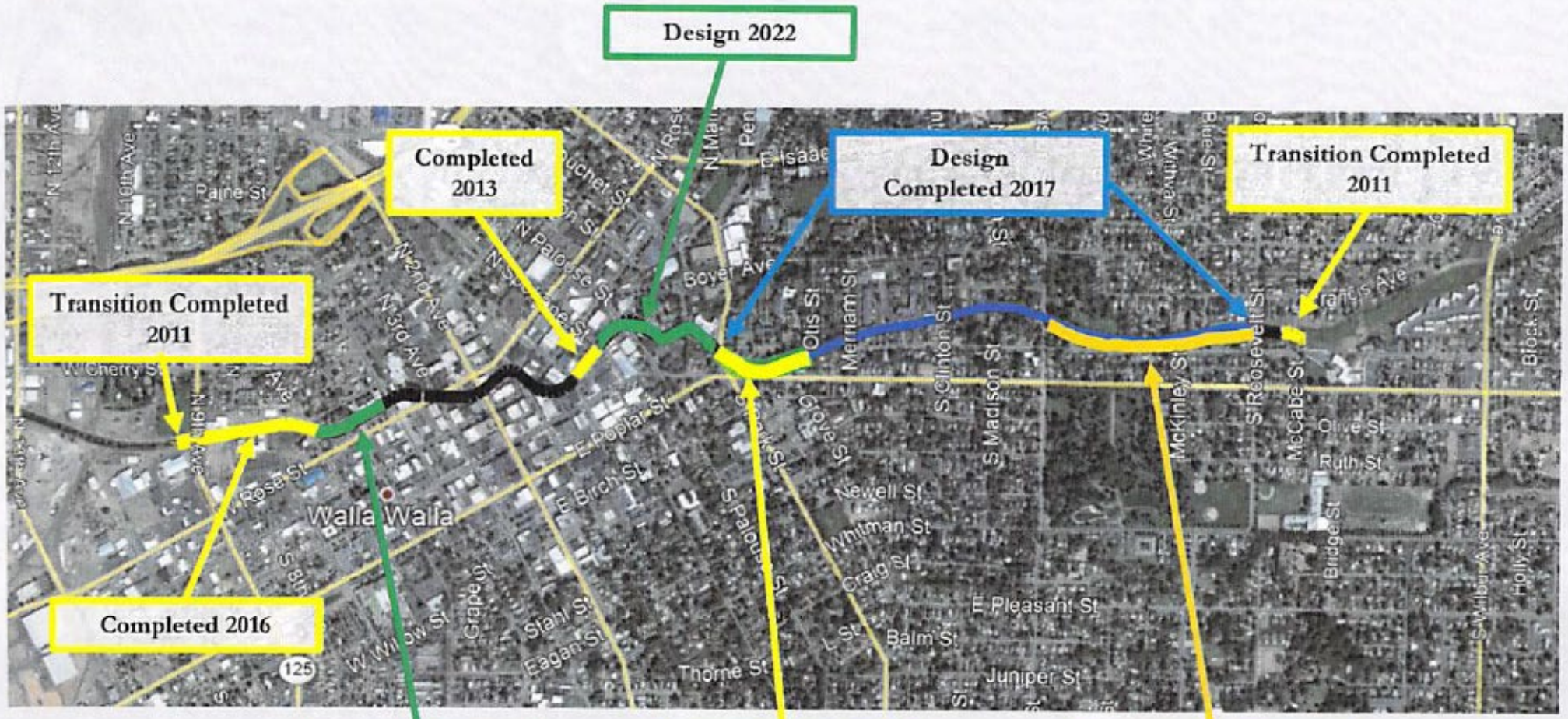
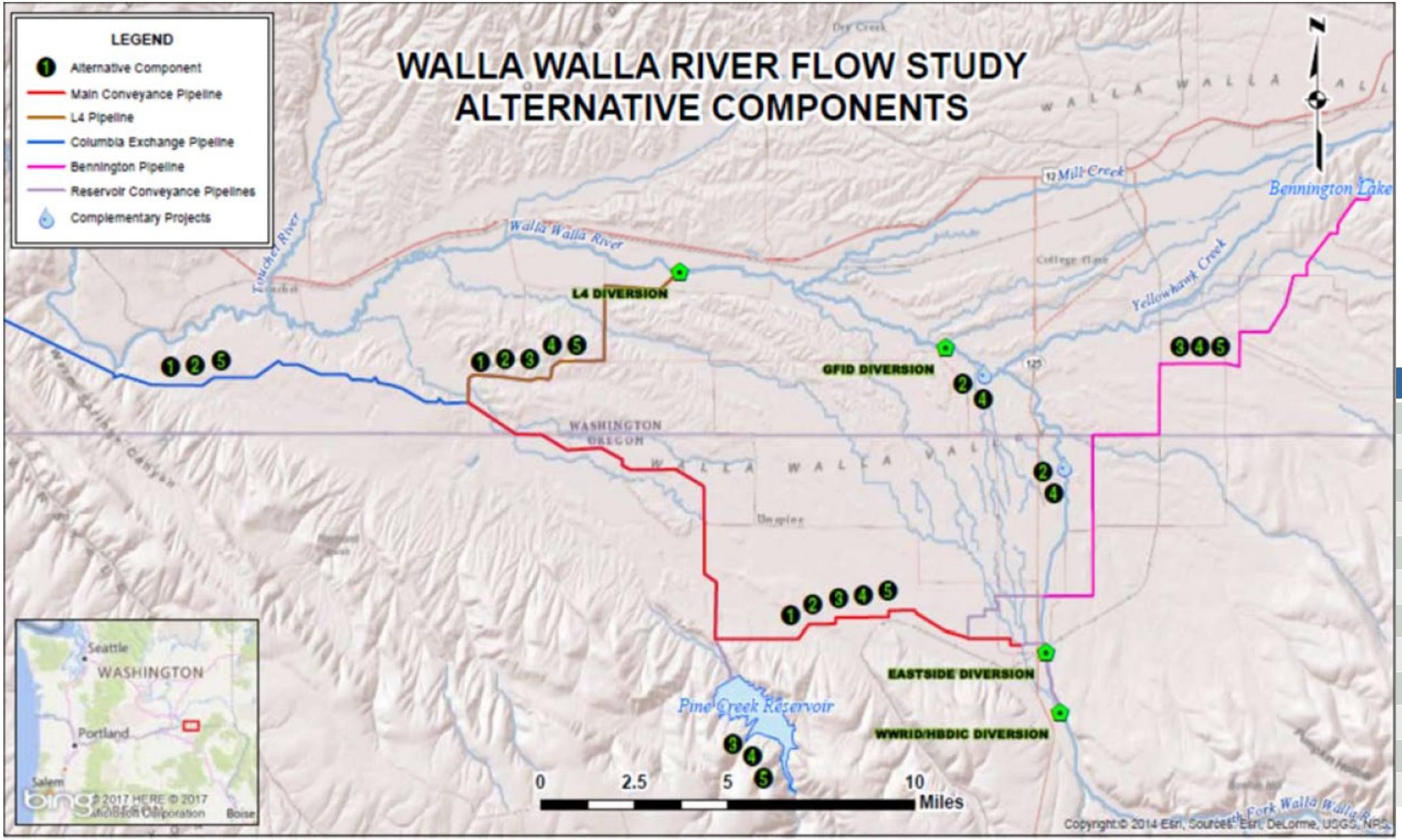
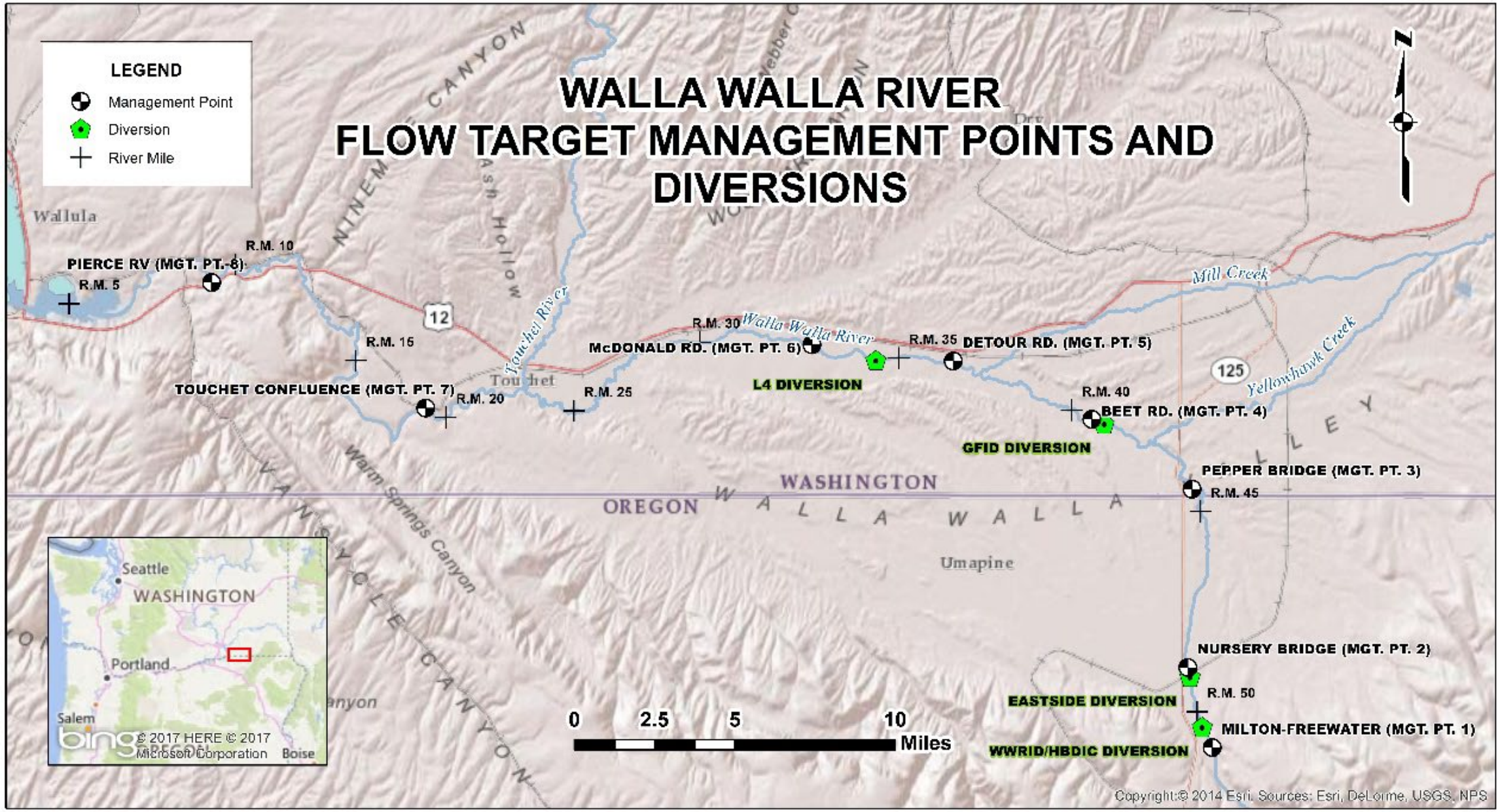
Mill Creek Fish Passage

Completed and Proposed Work





Flow (cfs)
65
65
95
95
120
150
150
150
150
65
65
65


WALLA WALLA RIVER
FLOW TARGET MANAGEMENT POINTS AND DIVERSIONS
LEGEND
Management Point
Diversion
River Mile
N
Wallula
R.M. 10
PIERCE RV (MGT. PT. 8)
R.M. 5
12
R.M. 15
TOUCHET CONFLUENCE (MGT. PT. 7)
R.M. 20
Touchet
R.M. 25
Touchet River
R.M. 30
Walla Walla River
McDONALD RD. (MGT. PT. 6)
L4 DIVERSION
R.M. 35
DETOUR RD. (MGT. PT. 5)
Mill Creek
125
Yellowhawk Creek
R.M. 40
BEET RD. (MGT. PT. 4)
GFID DIVERSION
PEPPER BRIDGE (MGT. PT. 3)
R.M. 45
WASHINGTON
OREGON
WALLA WALLA
Umapine
Warm Springs Canyon
NINEMILE CANYON
Ash Hollow
NURSERY BRIDGE (MGT. PT. 2)
EASTSIDE DIVERSION
R.M. 50
MILTON-FREEWATER (MGT. PT. 1)
WWRID/HBDIC DIVERSION
0 2.5 5 10 Miles
Seattle
WASHINGTON
Portland
Salem
Boise
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