

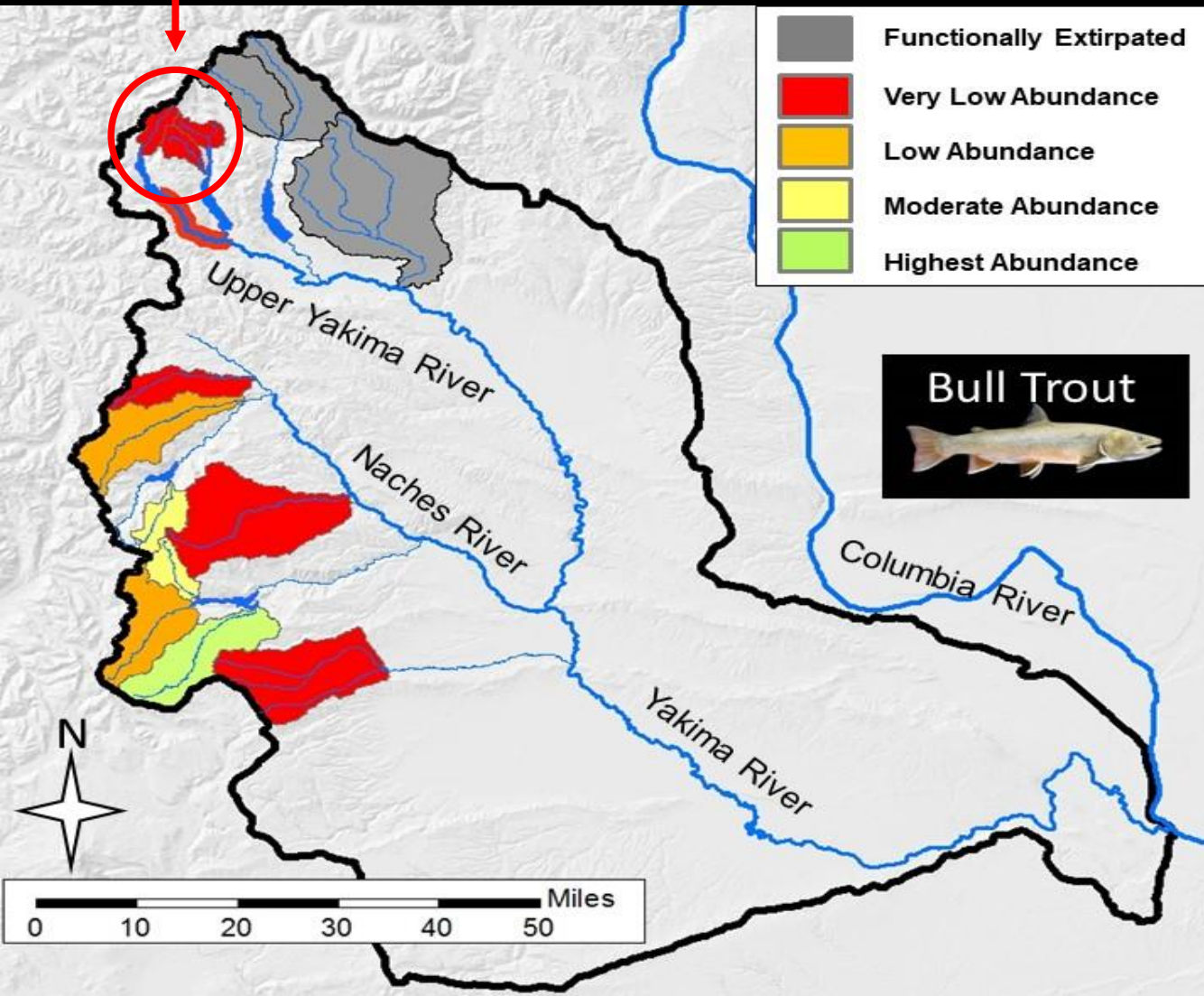
Bull Trout Restoration and Monitoring Project



Yakama Nation Fisheries: Russ Byington & Todd Newsome

Current Bull Trout Populations

Gold & Kachess



15 Local Populations



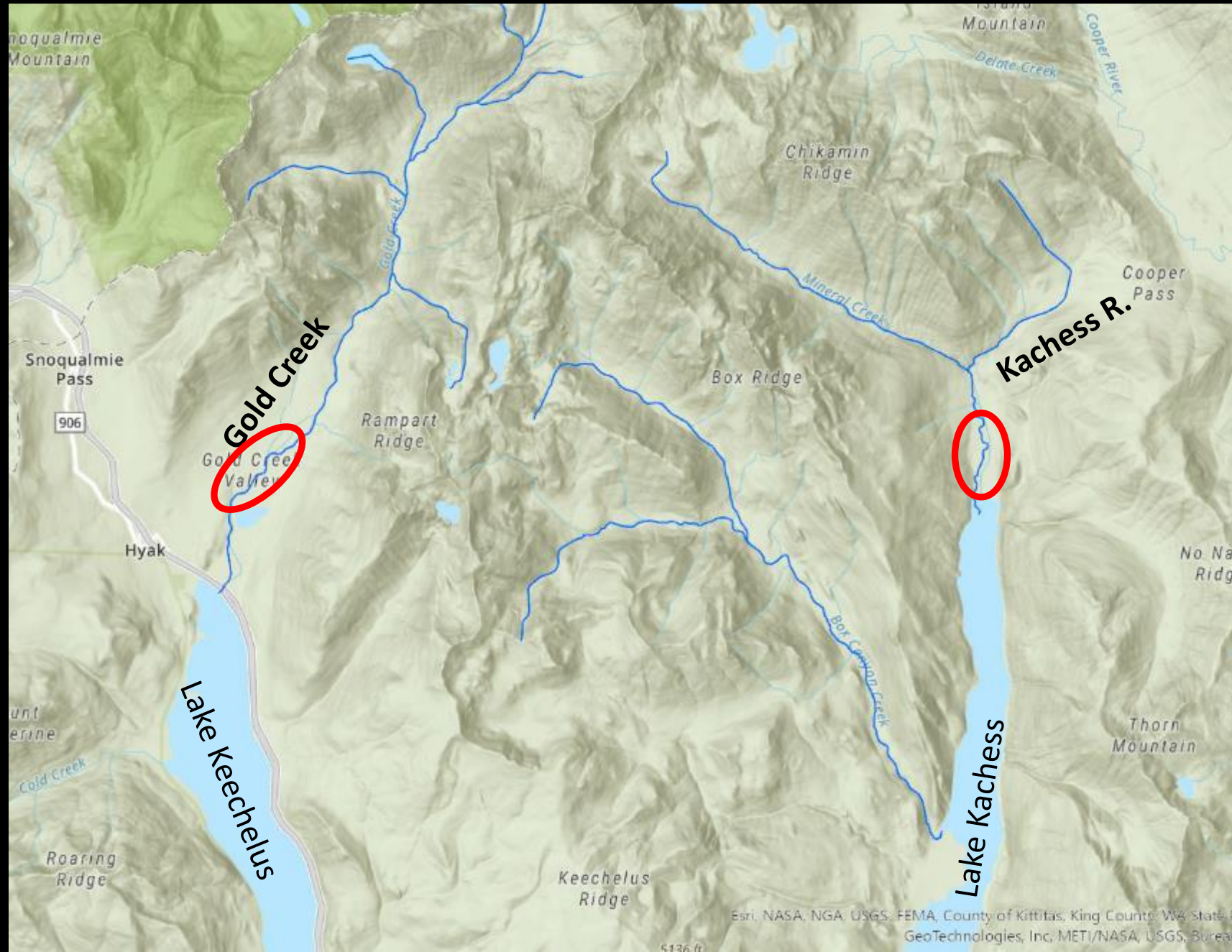
Bull Trout Rescue



Bull Trout Rescue at Kachess River and Gold Creek



 Rescue reaches



Bull Trout Rescue, Rear, and Release 2017-2023



86% Kachess River
14% Gold Creek

YN Rescue - Rear – Release 2019-2024

Gold Creek			
YEAR	YOY Transferred	Released	Survival
2019	108	78	72%
2020	64	63	98%
2021	86	84	98%
2022	98	97	99%
2023	34	34	100%
Total Fish	390	356	

Kachess River			
YEAR	YOY Transferred	Released	Survival
2019	1162	152	13%
2020	596	531	89%
2021	483	466	96%
2022	0	0	n/a
2023	107	100	93%
Total Fish	2348	1249	

Fry Arrive in August



Rear 10 months



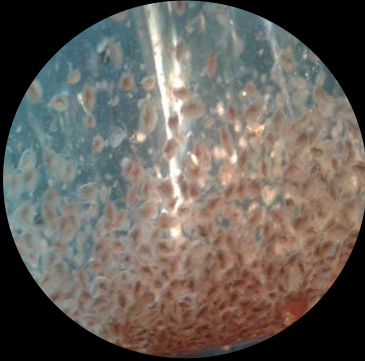
Release in Early Summer



1,605 Juveniles Released

Captive Rearing Diet

Daphnia



Brine Shrimp



Blood Worms



Krill



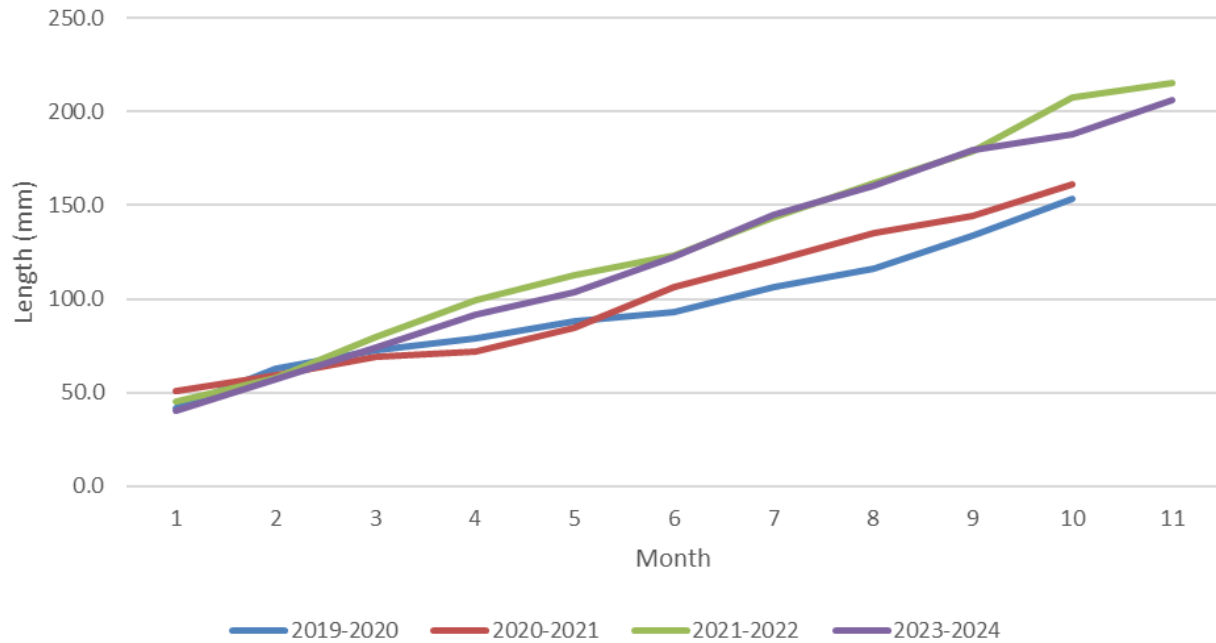
RBT & Spring Chinook Fry



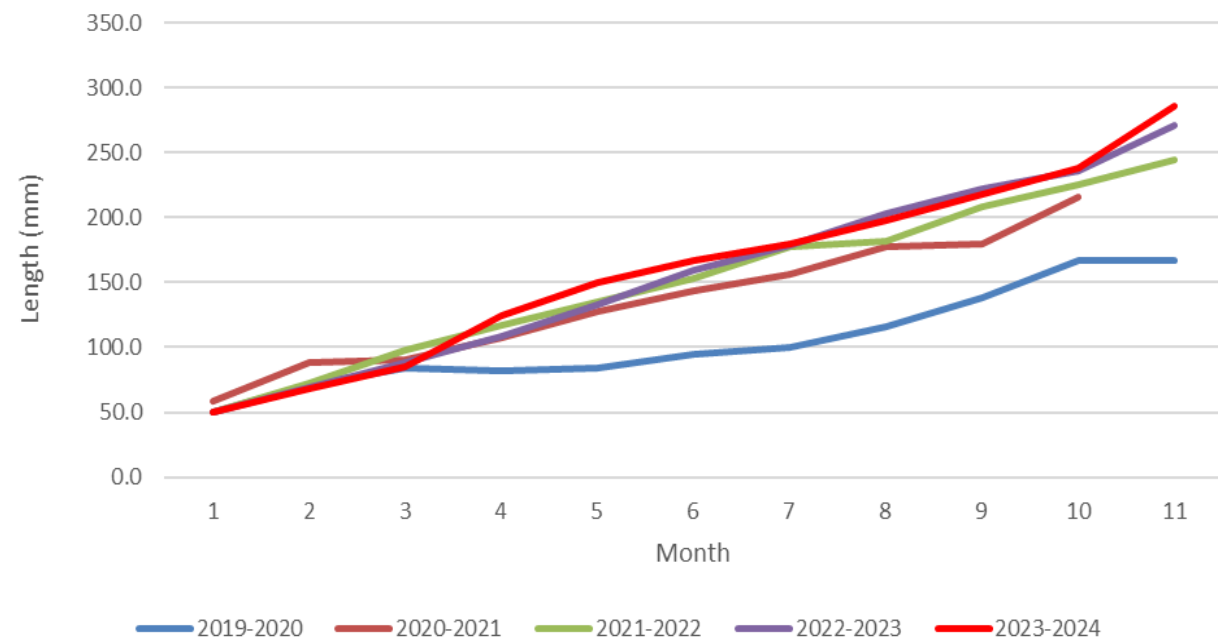
Adaptive Management

- Condensed Rescue & Transport Period
- Reduced Density
- Increase Feed Frequency
- 10 Month Rearing Cycle

Kachess River Captive Rearing



Gold Creek Captive Rearing



Tag & Release

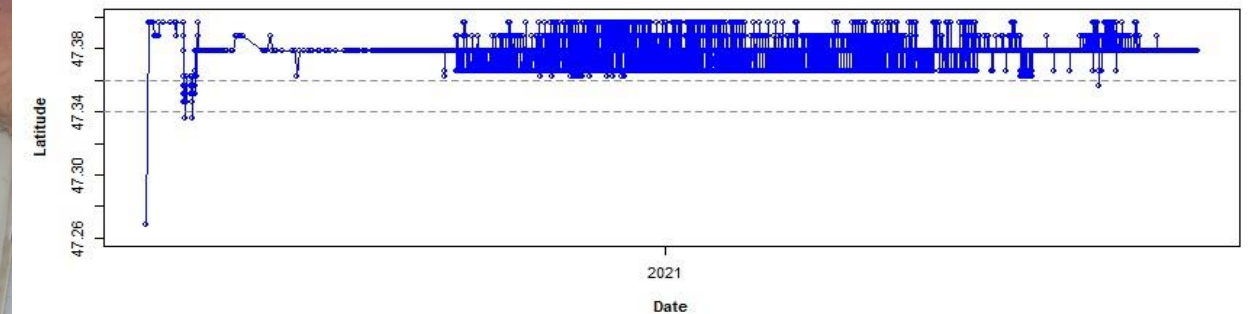
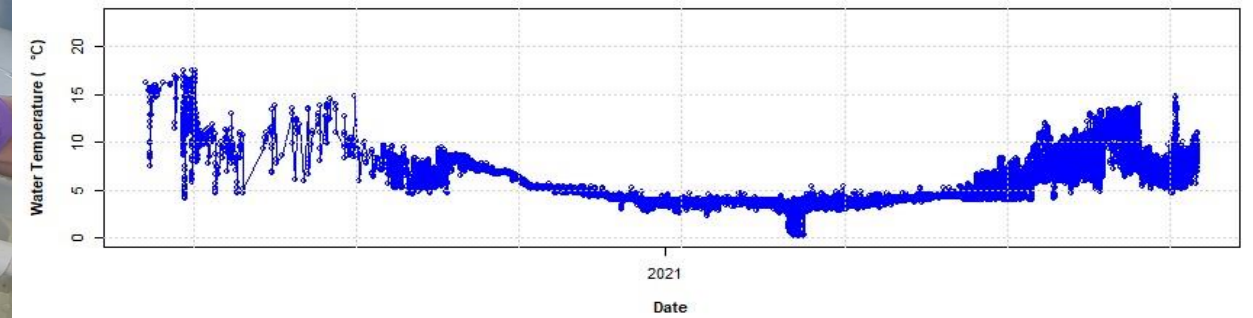
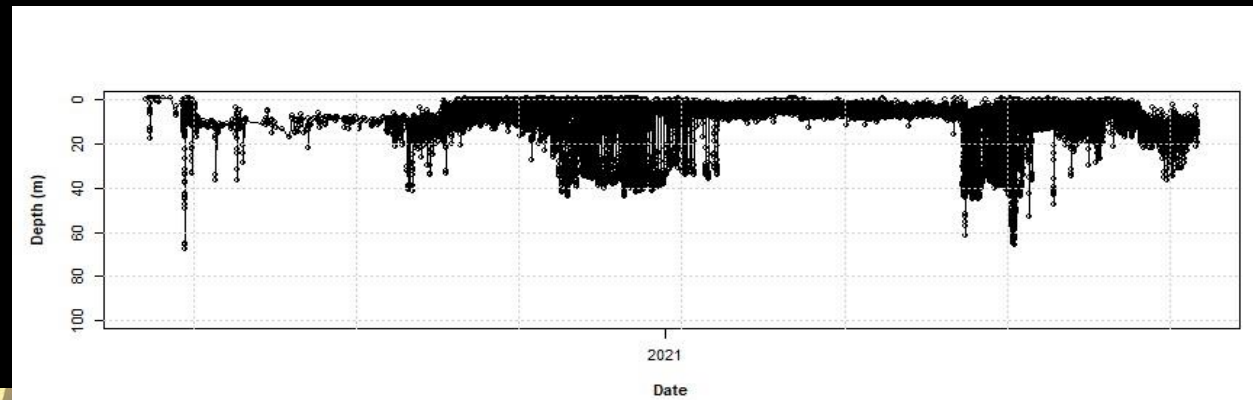
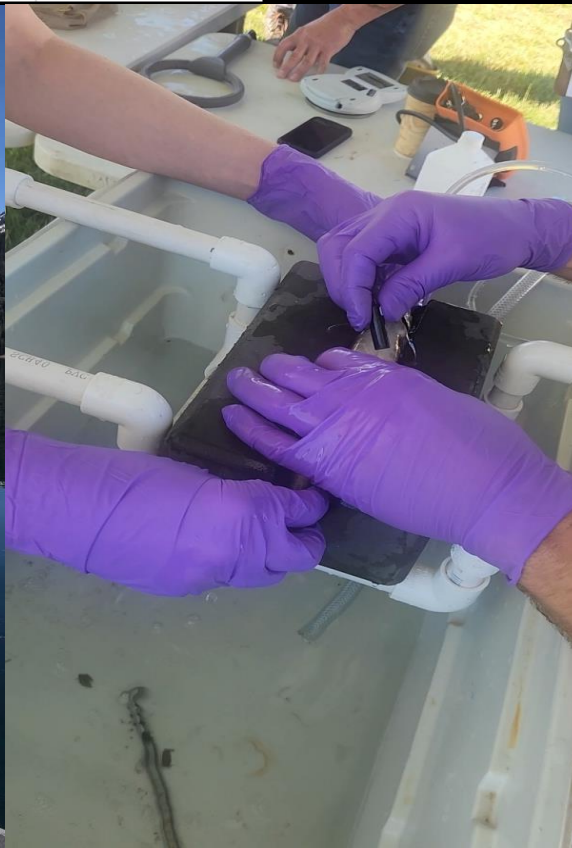


- PIT Tagged
- DNA Collected
- Adipose Clipped
- Weight & Length
- Acoustic Tagged (>225mm)



Acoustic Telemetry Monitoring

Year	Acoustic tagged	
	Keechelus	Kachess
2019	0	6
2020	0	7
2021	10	18
2022	0	20
2023	13	0
2024	40	0
Total	63	51



PIT Tag Monitoring

LaSalle Detection Summary

	2019	2020	2021	2022	2023	Total
Gold Creek	0	31	45	11	3	90
Kachess River	0	1	8	12	1	22
Box Canyon	0	2	18	24	2	46
Keechelus Dam					7	7
Kachess Narrows					3	3



Additional Monitoring

Future Monitoring Goals:

- Deploy additional acoustic tags in Keechelus
- Install additional or upgrade existing PIT tag antenna sites
- Continue tagging rescued juveniles and LaSalle releases



Extended Captive Rearing

- Reared an extra year
- 412mm average length
- Ultrasound
- Potential Broodstock



Bull Trout Reintroduction

Potential Donor Source

-SF Tieton River

-Indian Creek

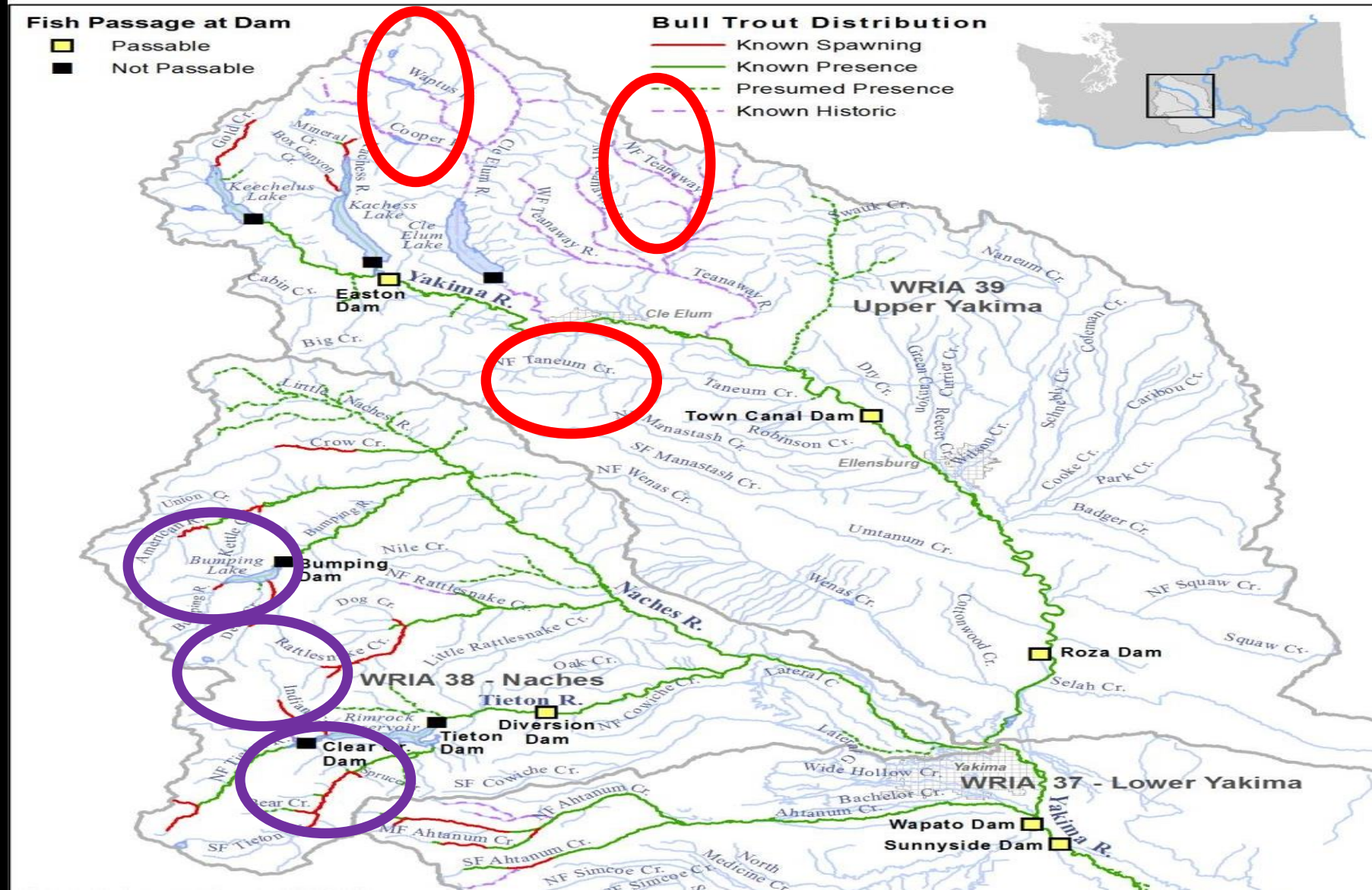
-Deep Creek

Reintroduction Streams

-Taneum Creek

-NF Teanaway River

-Waptus River







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Questions?



— BUREAU OF —
RECLAMATION

