

Modernizing Recovery Efforts of Lahontan Cutthroat Trout

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Reno U.S. Fish and Wildlife Service Office

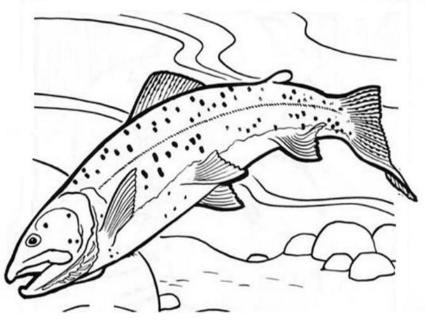
Lahontan cutthroat trout (LCT)



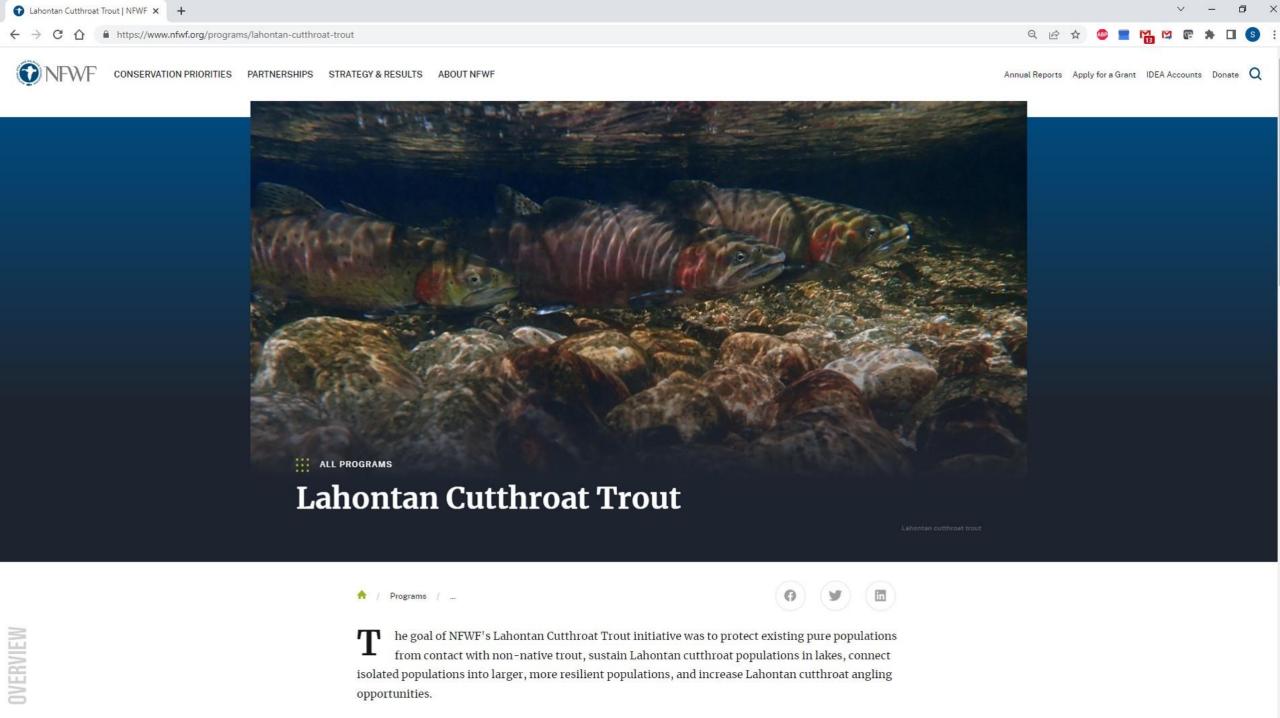
Lahontan cutthroat trout (LCT)



NEVADA STATE FISH



LAHONTON TROUT



2022 5-Year Status Review pending...

Year	# of LCT Populations	Resilient Stream Populations	Resilient Lake Populations
1995	88	10	2
2009	70	10	2
2022	64-66*	6-8*	1*

Only self-sustaining populations included in this comparison table
 Preliminary data to be included in 2022 LCT 5-Year Status Review

Management Oversight Group

Senior Leadership

Technical/Field Staff









MOG Members











Sacramento District















WILDLIFE



Management Oversight Group

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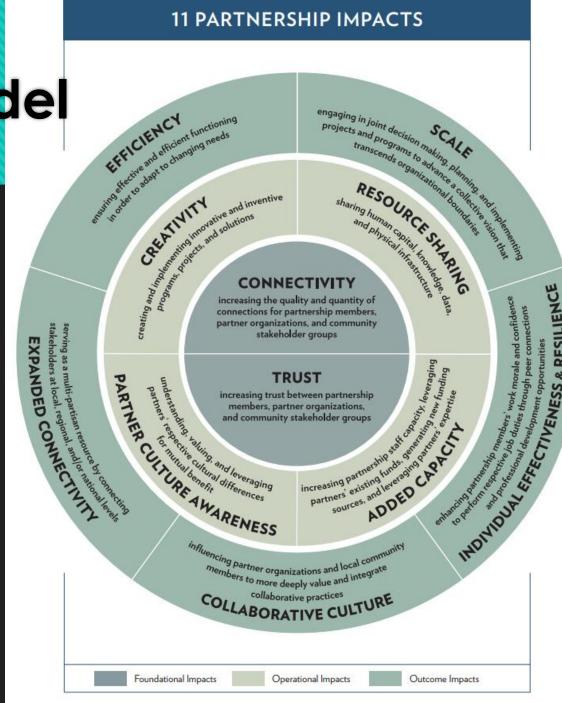
Trends through time...

Year	# of LCT Populations	Resilient Stream Populations	Resilient Lake Populations	
1995	88	10	2	
2009	70	10	2	
2022	67*	3*	1*	

Only self-sustaining populations included in this comparison table
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Partnership Impact Model

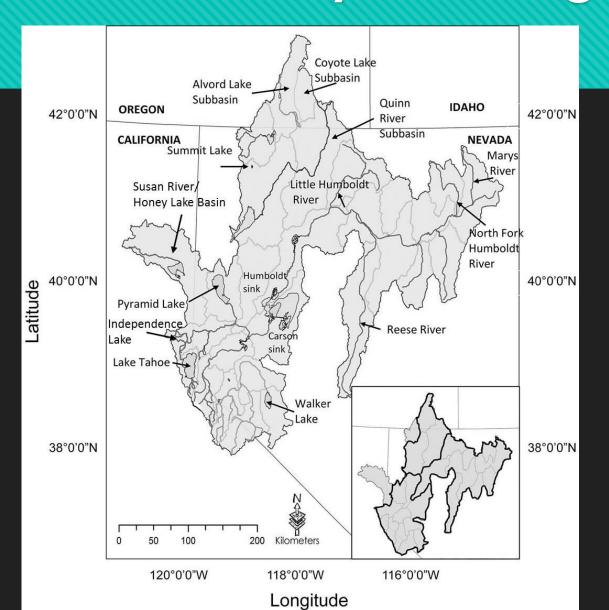
- At what level can the PIM be integrated into this effort?
- O How would you start?



Multiple Visions = Multiple Problems



LCT Recovery Planning

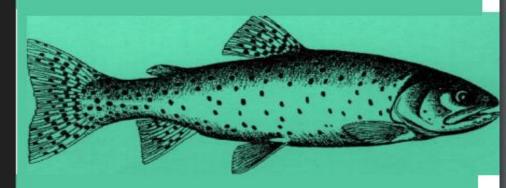


Recovery Plan

for the

Lahontan Cutthroat Trout

January 1995



U.S. Fish and Wildlife Service Region 1 Portland, Oregon





LCT Recovery Planning

Multiple past failed attempts to update the 1995 Recovery Plan due to lack of coordination

• We needed professional help... no really, we did or we wouldn't have been able to complete the process, trust me!

Recovery Plan

for the

Lahontan Cutthroat Trout

January 1995



U.S. Fish and Wildlife Service Region 1 Portland, Oregon





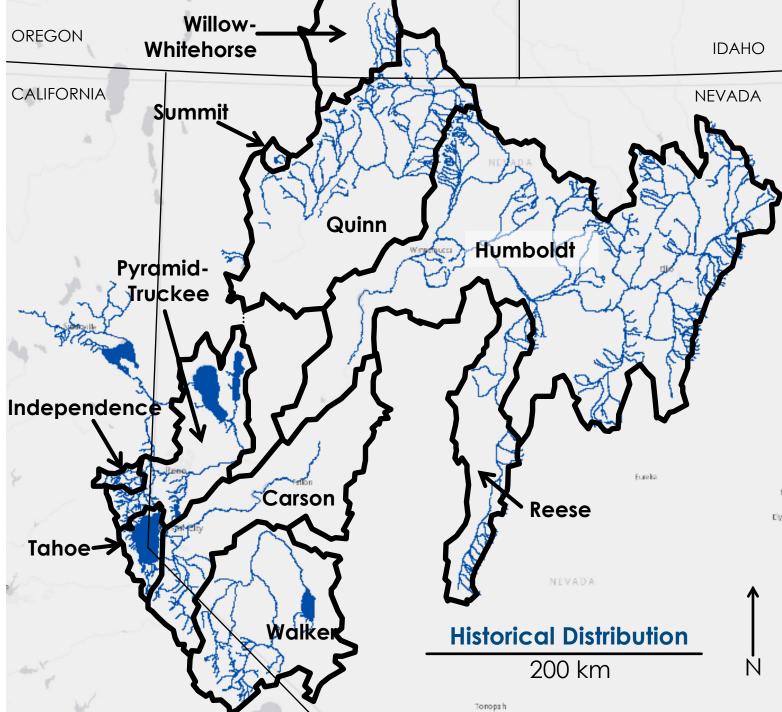
Updated Goals and Objectives for the Conservation of Lahontan Cutthroat Trout (Oncorhynchus clarkii henshawi)

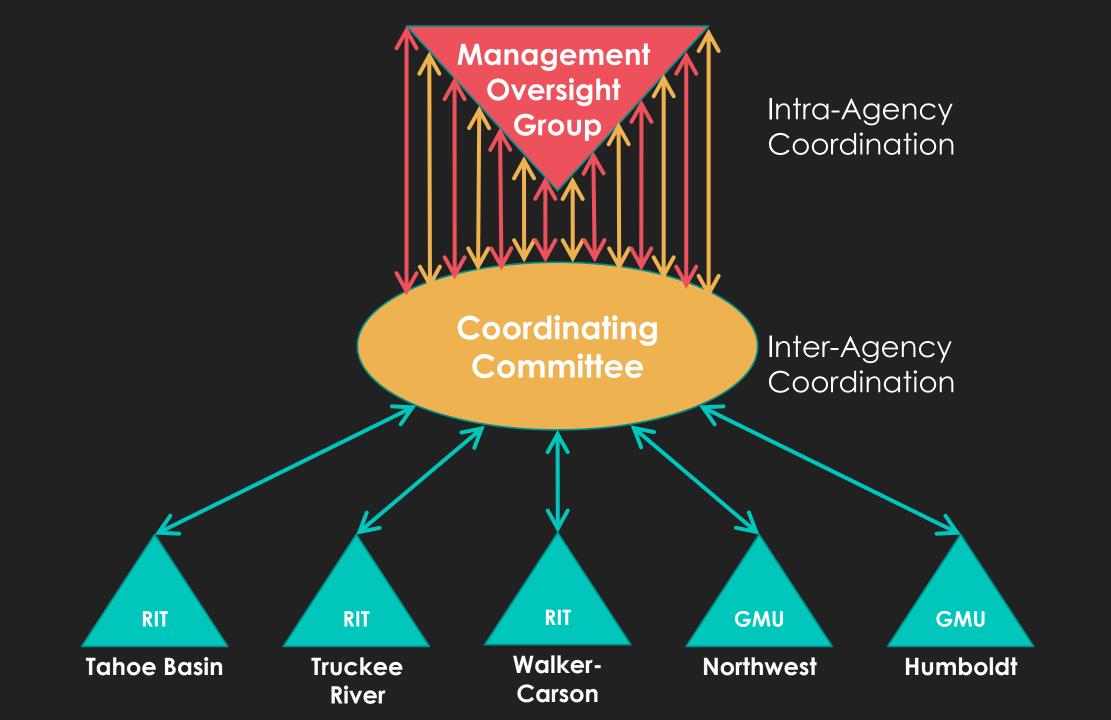


Prepared for: Lahontan Cutthroat Trout Management Oversight Group

Prepared by: Lahontan Cutthroat Trout Coordinating Committee

May 29, 2019





Switching Gears...

- 2019 MOG Recommendations:
 - O Develop Near-term Priorities
 - Formalize agreements re: new governance structure
- O 2019 Langdon Group Report Recommendations:
 - Improve Inter-agency coordination and communication
 - Improve communication/outreach both internally and externally
 - Create transparency

Partnership Lifecycle

O Where are we at?

- What should we focus on?
- At what level?

- 1) Visioning
- Concept Planning
- 3) Research and Development
 - Gather Information
 - Seek internal/external advice
 - Communication with stakeholders and partners
 - Review network models
 - e. Confirm and vet network partners
 - f. Determiner how the network will operate
 - g. Define goals and objectives
 - h. Assess funding
 - Assess risks and benefits

4) Implementation Planning

- Create a work plan
- b. Connect work plan to tasks on a timeline
- Prepare (and negotiate) formal and informal agreements
- d. Plan for ongoing communication
- e. Assess availability of funding resources
- Finalize and commit to evaluation criteria

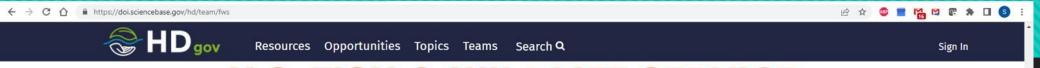
5) On-the-ground action

- a. Continue (and ensure good) communication
- b. Use Moves or Adaptive Management
- 6) Evaluation and Recognition

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Human Dimensions Branch (USFWS)



U.S. FISH & WILDLIFE SERVICE

The U.S. Fish & Wildlife Service (FWS, Service) Team Page was developed for Service practitioners by the Human Dimension Branch of the National Wildlife Refuge System. It provides convenient access to human dimensions tools and resources applicable to your conservation work.

Here you'll find news and announcements; upcoming events; training resources you can watch, listen to, or read; a reference directory of FWS social science experts; and case study examples of social science at work in the Service.





JOB POSTINGS

Find your next opportunity in human dimensions

NEWS & ANNOUNCEMENTS

Workshop Opportunity for DOI/USFS: Building Our Collaboration and Conflict Management Culture for External Engagement

In celebration of their 20th anniversary, the DOI Office of Collaborative Action and Dispute Resolution (CADR) announces a virtual, no-cost workshop, for DOI and USFS professionals who work with external stakeholders and partners. Dates/Times: April 19-21, 2022, (daily sessions at 10:00 am-2:00 p...

3/9/22

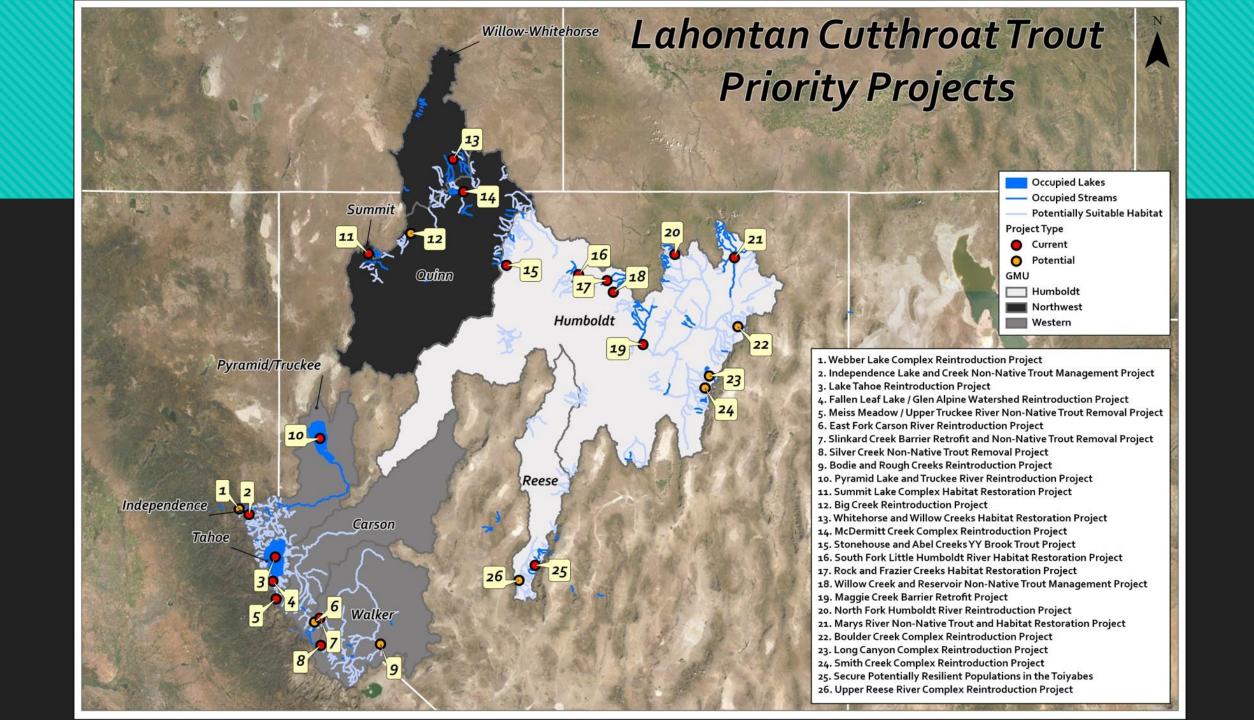
Conflict and Dispute Resolution (CADR)



LCT MOG/CC: Setting Near-term Priorities

- Develop Recovery Tracking Mechanism
 - Conservation Efforts Database for LCT
- Improve Outreach and Communication
 - Communications Core Team
- Modernize monitoring approaches
 - O Habitat Core Team
 - UCD Genetics Mgt/health SNPs





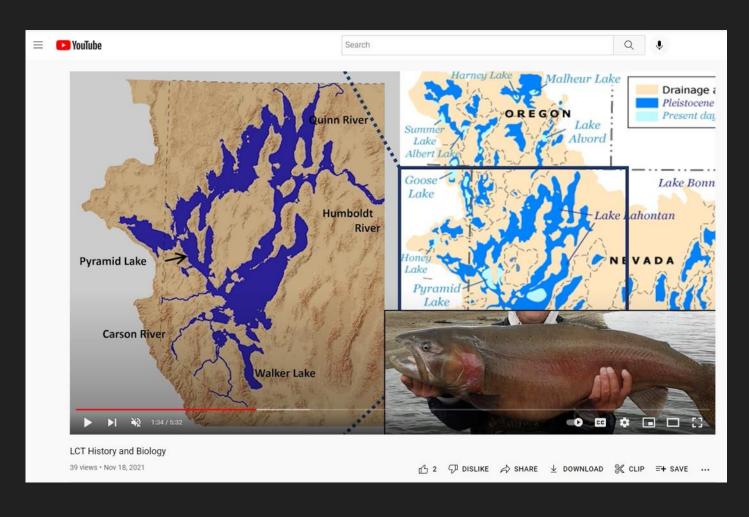
Improving Outreach and Communication

- Color Progress Report and Next Steps
 - 2020 IA Webinars
 - 2021 Eastern NV Webinars

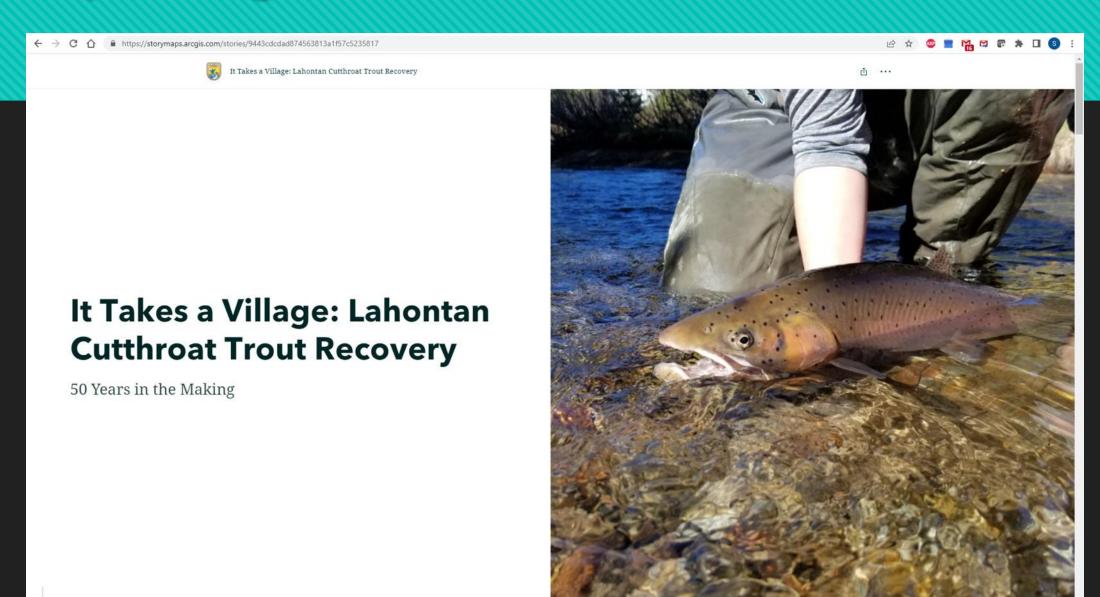
- LCT Communications Core Team forms and gets working as well...
- Continue to build up the machine, welcome LCT Recovery Ecologist!

Virtual Conservation...?

- Forced to pivot or lose momentum... so, we adapted.
- Scripted, pre-recorded videos were time-consuming to build, but have saved a lot of time... they have become a welcome package!



Improving Outreach and Communication



Building a Template

 Situation Assessment in the SF Humboldt Subunit – November 2021

Recommendations from this particular assessment weren't necessarily new, but now there were more in the network and it started to feel different... but...



Starting to Figure it out...

O LCT MOG/CC

- Pat and Laura helping to integrate missing tenets/elements of successful partnerships (e.g., partnership lifecycle, partnership impact model)
- LCT Core Teams
 - Modernizing the approach and tools this will allow for more transparency and streamline the collaborative process (through the CED:LCT)
- O GMU/RITs
 - O Working to develop recovery option sets and priorities based on 2019 UGOs
 - Initiate RAD process to improve efficacy and ultimately effectiveness

Resist-Accept-Direct (RAD) Framework

USGS Climate Sciences

structure, processes, or function on the basis of

historical or acceptable current conditions

O Decision Support Framework



Direct

Actively shape change in ecosystem composition, structure, processes, or function toward preferred new conditions



RESIST

Some changes can be resisted. Managers will work to maintain ecosystem processes, function, and composition without experiencing dramatic, threshold-crossing changes.



ACCEPT

Many changes can be accepted, perhaps because they cannot feasibly be resisted or because they are acceptable to-or even desirable by-society. Managers will work to ease the transition.



DIRECT

A few changes can be directed toward a different state, either because resistance is unrealistic or there is an opportunity to direct the change to a more desirable future state. Managers will face a new frontier in overseeing this process.

Kenai Peninsula, Alaska: A Case Study



Stream banks are restored, the most feasible and deleterious invasive species are eradicated, fire is managed progressively, and landscape connectivity is maintained through fish and wildlife passages under or over highways. Non-native species are monitored for escapement as climate changes.



Glaciers are melting, non-glacial streams are warming, tree line is rising, and wetlands are drying. Many invasives are not managed either due to a lack of feasibility or perceived threat. Society has accepted the changes in fish and wildlife communities, even with higher costs to ecosystem services.



A spruce bark beetle epidemic and human-caused fire have shifted white spruce forests into a novel grassland ecosystem. Non-native trees from neighboring regions are being planted. and the introduction of large grazers is being considered to stabilize the new grasslands and related communities.

Wrapping it up...

- Consistency is paramount...
- Engage the social science network before you get going for direction
- O Build a network that can manage the effort before you dive in
- Be humble and willing to learn and adapt...

