

Fish Passage Restoration Culvert Replacements on the Clearwater National Forest 2000-2001



For More Information:

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Badger Creek



Outlet Before



Outlet After

- The culvert was installed under U.S. highway 12 in the early 1950's.
- Culvert blocked anadromous and resident fish movement.
- The culvert was identified as a fish pass barrier in the early 1960's but was cost prohibitive to replace.
- As a result of a 1998 watershed analysis, aquatic restoration actions such as culvert removal and road obliteration were identified.
- The culvert was replaced in 2000. Contributing partners included the Idaho Transportation Department and the Nez Perce Tribe.
- Replacing the culvert opened up four miles of historic habitat to steelhead trout, bull trout, and westslope cutthroat trout.
- This habitat is expected to improve with the obliteration of 55 miles of road in the Badger Creek watershed. The combined projects are expected to provide long-term benefits to fish in the drainage.

Middle Badger Creek



Outlet Before

- The culvert was installed under USFS road in the mid 1950's.
- The culvert is about 0.2 miles upstream of Badger Creek culvert under U.S. Highway 12.
- Culvert blocked anadromous and resident fish movement.
- Culvert was replaced in 2001 under partnership with the Nez Perce Tribe.
- Replacing the culvert opened up four miles of historic habitat to steelhead trout, bull trout, and westslope cutthroat trout.



Outlet After

West Fork Fishing Creek



Outlet Before



Outlet After

- Culvert installed in the early 1950's.
- Culvert was modified to improve adult passage in 1987.
- 1995/96 floods affected the modification preventing passage for all life stages.
- Culvert was replaced in 2000, project partner was National Fish and Wildlife Foundation.
- Culvert replacement improved access to five miles of anadromous and resident fish habitat (steelhead, cutthroat, bull trout).
- Fishing Creek and its tributaries provide habitat for the highest concentration of bull trout in the Lochsa drainage.
- 2001 bull trout surveys found 17 redds in the West Fork, upstream of the culvert.
- During 1997-1998, 11 miles of road were obliterated in West Fork of Fishing Creek, providing long-term benefits to fish in the drainage.

Wendover Creek



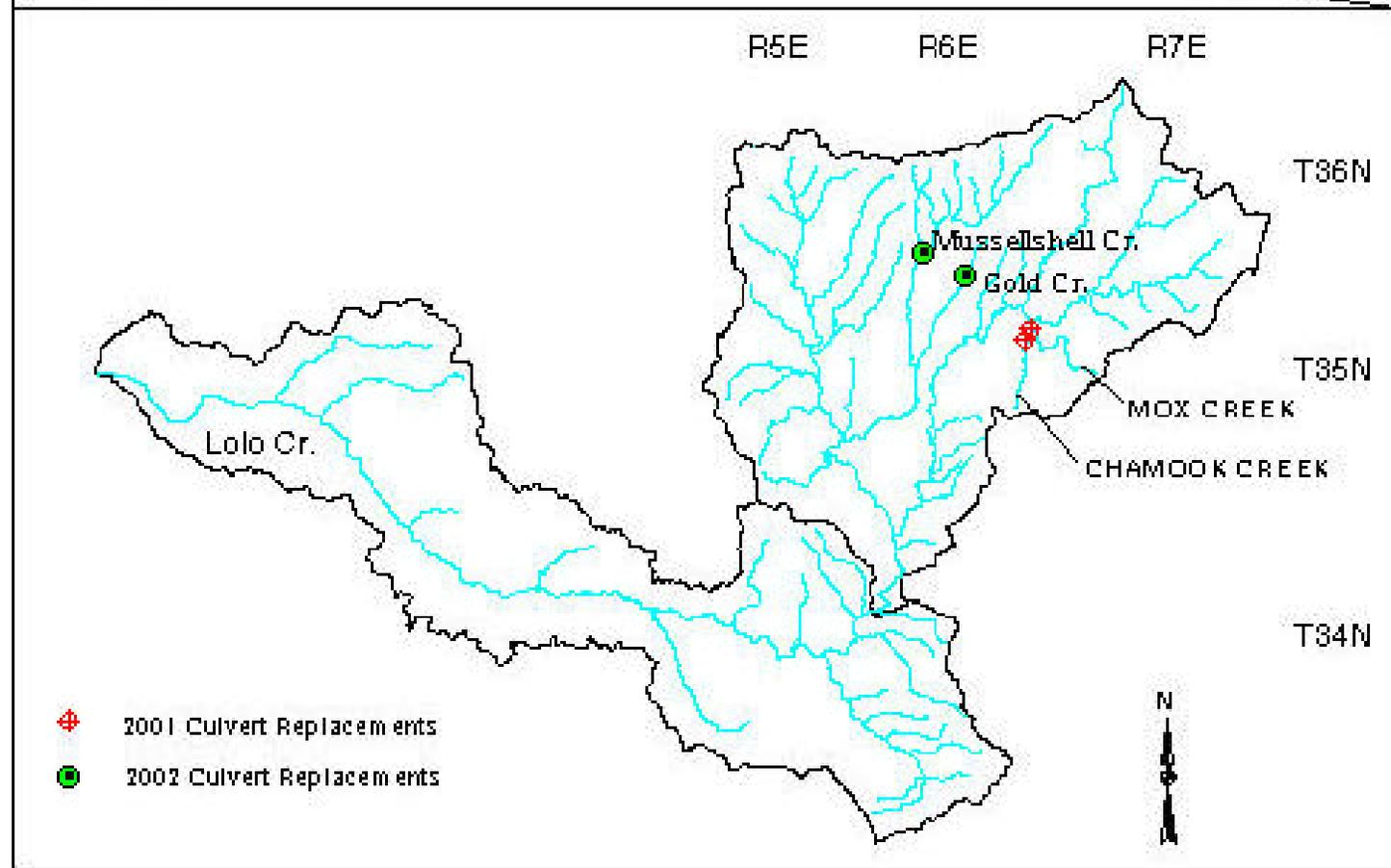
Outlet
Before



Outlet After

- Culvert installed under U.S. highway 12 in the early 1950's.
- Gabions installed in the early 1970's. downstream to raise water level into culvert.
- 1995/96 flood destroyed the gabions which affected fish passage.
- Culvert replaced in 2000. Cooperators included Idaho Transportation Department, National Fish and Wildlife Foundation, and the Nez Perce Tribe.
- Opened up three miles of anadromous and resident fish habitat (steelhead trout, bull trout and westslope cutthroat trout).
- During 2000-2001, 37 miles of road obliteration completed in the Wendover Creek drainage. An additional two miles is planned for 2002. The combined projects are expected to provide long-term benefits to fish in the drainage.

Lolo Subbasin Culvert Replacements 2001-2002



Chamook Creek

- **Culvert installed under USFS road in 1964.**
- **Culvert was replaced in 2001.**
- **Contributing partner: Nez Perce Tribe.**
- **Improve access to five miles of anadromous and resident fish habitat (steelhead trout, westslope cutthroat trout, and bull trout).**



Inlet Before



Inlet After

Mox Creek



Inlet Before

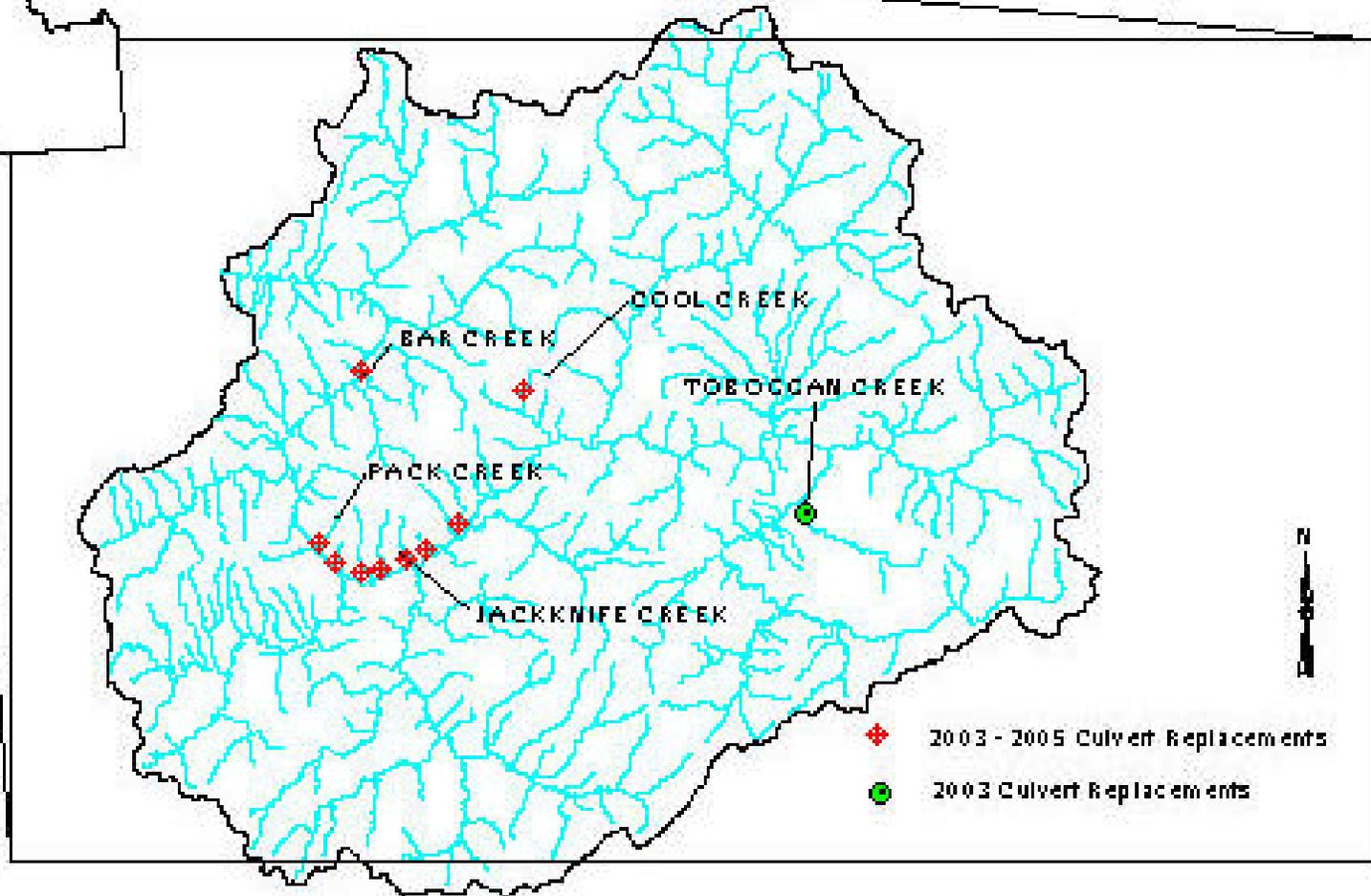


Inlet After

- **Culvert installed under USFS road in 1964.**
- **Fish passage for adult fish was possible.**
- **Improvements were made in 1979 with placement of gabions at the outlet.**
- **Gabion destroyed during high flows in mid 1990's.**
- **Culvert was replaced in 2001.**
- **Contributing partner: Nez Perce Tribe.**
- **Improved access to 3.5 miles of anadromous and resident habitat (steelhead trout, westslope cutthroat trout and bull trout).**

North Fork Culvert Replacements

2003-2005



Toboggan Creek



Looking Upstream

- **Box wood culvert installed under USFS road in the early 1930's.**
- **Fish passage through the culvert was marginal during low flows.**
- **1995/96 flood event lowered the streambed at the outlet which affected fish passage.**
- **Culvert replacement scheduled for replacement in 2003.**
- **Replacing the box culvert would provide access to approximately 18 miles of historic habitat to bull trout, and fluvial westslope cutthroat trout.**