

Okanagan Nation Alliance Salmon restoration efforts




**OLWSF
September 2011**





The Past



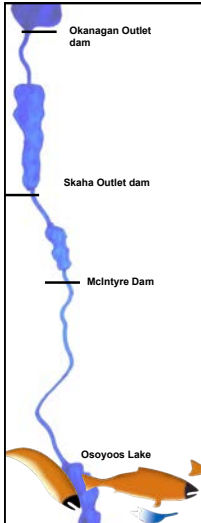



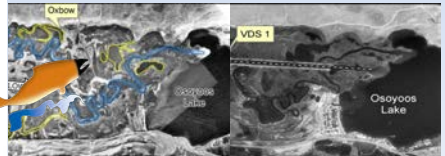
Osoyoos Lake salmon

- Sockeye - rebounding
- Chinook – rare
- Steelhead – rare
- Coho – extirpated
- Chum – extirpated
- Kokanee – declined
- Rainbow Trout – declined
- Lamprey- extirpated

Valley changes

- Dams & channelization
 - irrigation and
 - flood control
- Channel length halved
- Wetland area reduced 88%
- Habitat greatly simplified
- Indigenous fish species diversity reduced

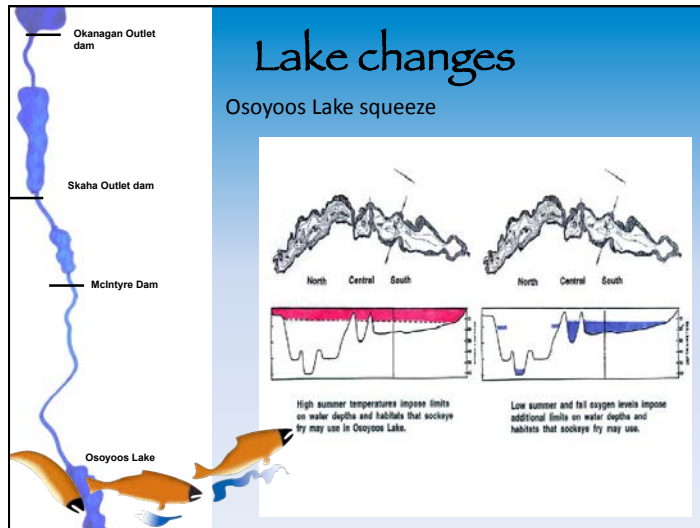






Okanagan River

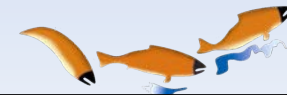
- Salmon migration blocked at McIntyre Dam
- Hydrograph altered
- Channel length halved
- Wetland area reduced by 88%
- Mean river corridor width reduced by 89%
- Habitat greatly simplified
- Indigenous species diversity reduced

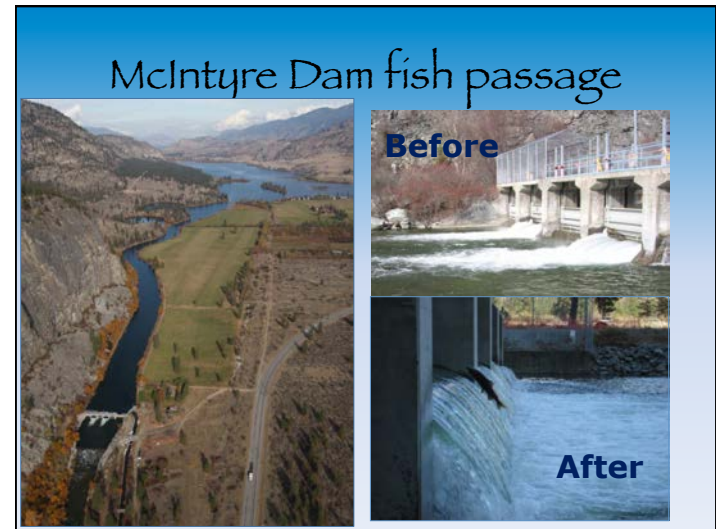
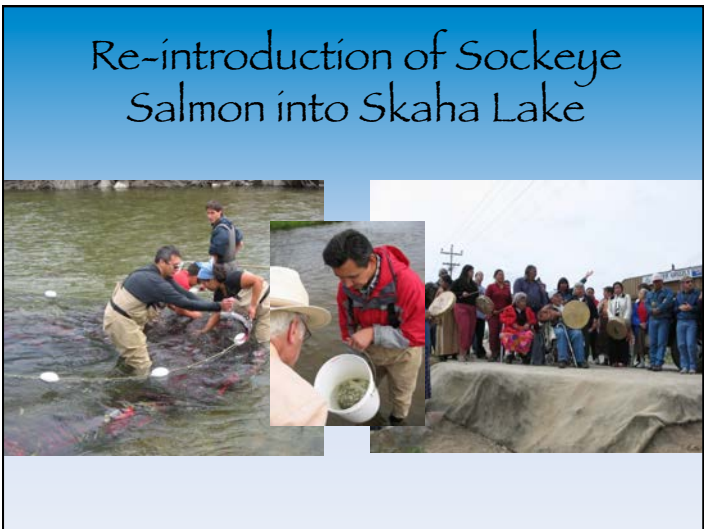
Exotic Species Introductions

- Lake Whitefish (1894)
- Largemouth bass (1909)
- Lake trout (1909)
- Carp (1915)
- Eastern brook trout (1924)
- Black Bullhead (1941)
- Tench (1941)
- Smallmouth bass (1960s?)
- Yellow Perch (1975)
- Black Crappie –(1985)
- Bluegill (2001)
- Pumpkinseed (???)
- Brown bullhead (???)
- Mysis shrimp (1966)
- Eurasian Milfoil (1972)

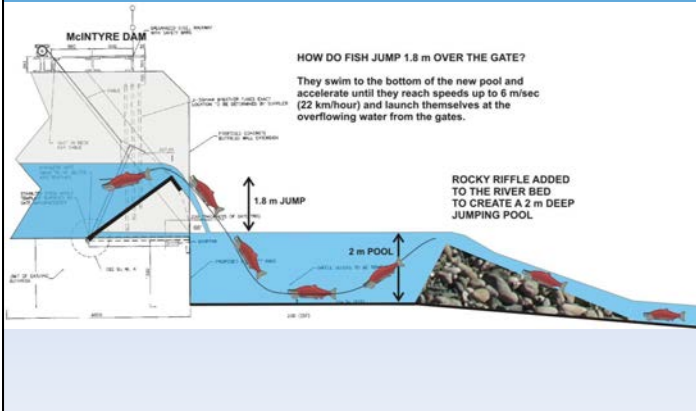


The Present





McIntyre Dam fish passage



Okanagan Basin Monitoring & Evaluation Program



The program monitors the status and trends in streams and their riparian areas over time.



Okanagan Chinook salmon

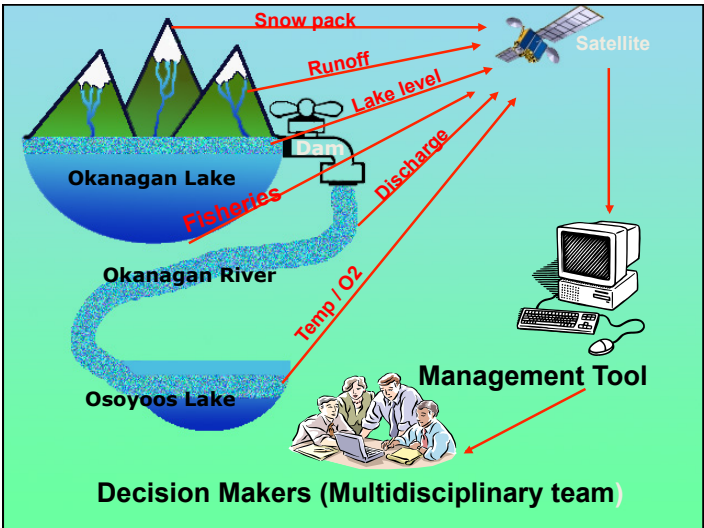
Chinook recovery planning



Fish-Water Management Tools

- Okanagan L. kokanee shospawners affected by lake level
- Okanagan R. sockeye effected by river flows
- Flood control
- Water use





Future Challenges

- Managing cumulative impacts of human populations on aquatic resources
- Projected population increase
- Climate change expected to alter the volume and timing of water flow
- Maintaining an aquatic stewardship ethic

Lim'limt

Questions?

