

# NWSRI VIDEO SERIES

## VIDEO 7 - MONITORING PROGRAMS

This video explains in more depth the four main monitoring programs of the NWSRI. Go to the [www.nechakowhitesturgeon.com](http://www.nechakowhitesturgeon.com) and click on the Research and Outreach tab to learn more about these projects.

**Total Length: 11:34 minutes.** Below are some key questions to think about.

### Monitoring Programs - Introduction: 00:00 to 01:43

- Write down the key points of what you understand about each of these monitoring projects before continuing on with the video. As you watch the video, add to your notes and point out topics for further investigation.
- Why are First Nation communities invested in sturgeon recovery?

### Juvenile Monitoring Program: 01:43 to 04:55

- What questions did the recovery team have that lead to the creation of the Juvenile Monitoring Program?
- Why do you think it is important to understand the migration pattern within and outside the Nechako Watershed of juvenile sturgeon?
- Using the [Set-Line worksheet](#) as a resource, write a one-page summary of this program and illustrate how the experiment is carried out, what data is collected and why.

### PIT Tag Monitoring: 04:55 to 06:35

- How can PIT tag technology be used in other stewardship type programs?
- Explore further about Mark-Recapture modeling. Do some sample mark-recapture calculations. Go to the [Where is My Fish](#) webpage to get a sense of the number of sturgeon that are recaptured (note, not all sturgeon released and recaptured are reported on this webpage).

### Spawn Monitoring Program: 06:35 to 08:55

- Using additional resources such as the [Spawn Monitoring worksheet](#) as well as the [Conservation Centre research page](#), outline the Spawn Monitoring Program and its stages, using a timeline, to explain the overall reasoning and purpose of this program. How does this program support recovery of the Nechako White Sturgeon?

### Radiotelemetry: 08:55 to 09:42

- Describe two ways radiotelemetry is used in sturgeon recovery and why that data and information is helpful for recovery planning.
- Research the technology behind the radiotelemetry equipment. What other uses or research programs does this technology serve?

### Emergency Live Release Boat Kit Program: 09:42 to 11:34

- What is the Food, Social and Ceremonial Fishery, and why is it important for Indigenous peoples? Watch [Every Sturgeon Counts](#) too!
- Go to the [NWSRI webpage](#) Boat Kit program page and read the *2011-2016 report*. This report provides background and data results of the program in that time period. How does this program impact sturgeon recovery, and is there more this program can do to support conservation?

## DEFINITIONS

Throughout the video, the narrator uses scientific language. Here are some definitions to many of the terms.

**By-Catch:** The unwanted fish that are caught through either targeted commercial fisheries and ceremonial, social and sustenance fisheries.

**Technical Working Group:** The group of individuals that meet and make recovery recommendations for Nechako White Sturgeon. The Community Working Group does the public communication and engagement of the recovery work that is lead by the Technical Working Group.

**Mark-Recapture:** A mathematical modeling method to estimate the number of individuals in a population.

**Abundance:** Number.

## ASK AN EXPERT:

Key partners to the NWSRI include Carrier Sekani Tribal Council (CSTC) and the Ministry of Forests, Lands, Natural Resource Operations and Rural Development (FLNRORD). Both these agencies have large mandates - use the internet or invite one of the NWSRI individuals you see in these videos to talk about their work and how partnerships are created to carry out conservation and stewardship work.

**More available at:**

[www.nechakowhitesturgeon.org](http://www.nechakowhitesturgeon.org)

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