

Fishing Regulations DB

Presented by:
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Background

- CYER Workgroup identified a need to link regulations to salmon catch and release estimates.
- Mark-selective and non-selective impacts in annual modeling exercises.
- No standardized regulations database exists that we can link to modeling exercises.



Background

- Other potential uses we've heard:
- Validating input data for Coho/Chinook FRAM post-season runs (CoTC; PFMC; MSF regulations/size limits)
- Validating fishery-specific data compiled for SFEC spreadsheets (SFEC)
- Verifying size limits used in Chinook model/cohort analysis (CTC)
- Automating MSF reports/linking to catch estimates (WDFW)
- Verifying RMIS fields (such as "ad-selective")



The Project Goals

- Long-term project.
- Collaborate - feasibility and structure.
- Build database.
- Build a web application to create, read, update, and delete regulations data in the database.
- Proof of concept – WDFW will populate portions of the DB; volunteers from other agencies.



Timeline

	2022			2023						
	October	November	December	January	February	March	April	May	June	July
Identify Participants										
Scoping meeting #1										
Scoping meeting #2										
Build DB										
Populate for POC										
Follow up meeting										
Joint Funding Prop?										

- Had early meetings with CTC & SFEC.
- Involved CoTC, TCDS.
- Two scoping meetings – identified issues and interested parties.
- Interest in participation from WDFW, ODFW, NWIFC, ADFG, CRITFC, NOAA, PSMFC.
- In the process of building front end, back end, and data storage (expected completion of prototype by the end of May).



Brief Technical Overview

- Database that adheres to design standards and practices.
- Web application to interface with the database to create, read, update, and delete regulation information.
- Application programming interface (API) that allows for automated interaction with the database. E.g., pull regulation information into R and automate necessary analyses.



Considerations/Challenges

- Different abilities by agency to get information on historic regulations (starting goal of back to 2009?)
- Complexity of regulations can be tough to capture in DB and then later link to RMIS – DFO
- Shareability – PSC staff only at first, but public when we have a product
- Hosting – Nancy mentioned that it may be possible to via PSMFC; lots of support from involved agencies; possible?
- On-going support/contributions – large project requiring involvement from many agencies – additional funding for techs.



Questions?

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