DRAFT 2010-05-06

ISTM FISH - ODFW DATA COMPONENT

Goal: For status and trend monitoring and critical uncertainty research needed to support conservation and recovery plans in the Lower Columbia River (LCR) "recommend process for … data management, reporting mechanisms…in the LCR".

Data Management Support Steps:

- Confirm/finalize inventory of existing monitoring data (Obj-2;WE115)
- ID and compile any important LCR datasets not already obtained (Obj-2;WE159)
- Create data flow diagrams for each data collection effort (Obj-2;WE115)
- Develop metadata for each existing monitoring data collection effort (Obj-2;WE115)
- Document data availability schedule (Obj-2;WE115)
- Document sampling protocols (Obj-2;WE115)
- Develop standards for terminology (a data dictionary) (Obj-2;WE115)
- Detail current data storage, analysis, reporting & dissemination infrastructure (Obj-2;WE159)
- Identify needed data exchange templates for sub-regional & regional data sharing (Obj-2;WE159)
- Gather input on desired features of a data management system from data contributors (Obj-2;WE160)

Other work that could also be done (not yet discussed):

Incorporate local Lower Columbia River barrier inventories into the Oregon Fish Passage Barrier Database (Obj.-3; WE156)

Data Flow Diagram for Clackamas River Basin Coho Total Spawners (Adult, Age 3, Hatchery & Wild, no jacks)

Murtagh et al. 1992

% of spawning habitat above/below the dam (*40/60 based on steelhead habitat determination)*

0.4*I

Wild Spawners Estimated Below NF Dam (AW)

AW+I

Clackamas Basin Total Wild Spawners (AZ)

AZ+BA

Clackamas Basin Total Coho Spawners (Hatchery & Wild, no jacks) (BB)

Protocol: "Tried to get at least 2 data sets to match, but also account for hatchery fish removal of wild fish for brood and "rescue' unclipped hatch fish" from M. Chilcote's spreadsheet

Measurements Taken at NF Dam

- ✓ Date (MM/DD/YYY)
- ✓ Species
- ✓ Age (Adult/Jack)
- ✓ Source (Wild/Hatchery)
- ✓ Marking
- ✓ Distribution
- ✓ Count
- ✓ Etc.

Monthly & Yearly summation by PGE staff

Yearly Summary Count of Wild 3yr-old Adult Coho at NF Dam (directly from PGE)

Choose "best" data set

Wild Coho at NF Dam (G) (*including fish that were later removed for the wild broodstock program*)

Yearly Summary Count of Wild 3yr-old Adult Coho at NF Dam (directly from K. Kostow)

G-H

Wild Coho Spawners Passed Above NF Dam *(not including fish removed for the wild broodstock program)* (I)

Monthly & Yearly summation by PGE staff

Monthly & Yearly summation by PGE staff

Wild Coho Removed at NF Dam for the "Wild Broodstock Program" (H)

Measurements taken during ODFW (OASIS project) spawning surveys (*detail measurements*)

Summation

Yearly Summary of Total Coho counted during spawning surveys in the Lower Clackamas River (ODFW)

(AW/(1-AV)) -AW

Estimated Hatchery Spawners Below NF Dam (AX)

Summation

Yearly Summary of Wild Coho counted during spawning surveys in the Lower Clackamas River (ODFW)

1-(Wild/Total)

Yearly measurement of percent hatchery coho in the Lower Clackamas

2002-2006

Average

Estimated Percentage of Hatchery Coho Below NF Dam (AV) = 0.65

Hatchery Spawners Passed/Planted Above NF Dam (F)

F+AX

Clackamas Basin Total Hatchery Spawners (BA)

Measurement: Value resulting from a field data collection event. Measurements are taken at a particular time and place

MEASUREMENTS

CALCULATION or PROCESS STEP

SUMMARIZED DATA IN AN ELECTRONIC FORMAT

SUMMARIZED DATA IN A DOCUMENT

Metric: Value resulting from the reduction or processing of measurements at a site over a unit of time or space (site-scale values for the sampling period)

METRIC

INDICATOR

DERIVED INDICATOR

Indicator: Value resulting from the processing of metrics across sites or across time (population-scale values for the sampling period)

Data elements and flow processes indicated in dark grey and with a dashed and dotted line require further detail

Created from M. Chilcote's spreadsheet calculations, used in the L. Col. River Conservation and Recovery Plan (Dec. 2009 Draft) to indicate current status – Table B.1-8. Data element definitions are from: https://salmonmonitoringadvisor.org/2-design/2.0-monitoring-program-design-introduction

Diagram by K. Bliesner (ODFW-NRIMP) – 6 May 2010