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February 7, 2017

MEMORANDUM

TO: Fish and Wildlife Committee

FROM: Nancy Leonard

SUBJECT: Update on Natural Origin Salmon and Steelhead Adult Objectives Mapping Tool

BACKGROUND:

Presenter: Nancy Leonard (Council staff), Binh Quan (QW Consulting), Neil Ward (QW Consulting), and Chris Wheaton (StreamNet Program Manager)

Summary: Staff will present the Natural Origin Salmon and Steelhead Adult Objectives Mapping tool (Objectives Mapping Tool) that facilitates viewing existing objectives by subbasin, major population group, and population. This version of the Objectives Mapping Tool addresses comments received from committee members and managers. The Objectives Mapping Tool and its companion online query tool will be publicly accessible on the Council's [Program Resource Maps](#) webpage following the February 2017 Fish and Wildlife Committee meeting.

Relevance: This Objectives Mapping Tool supports the Program [Emerging Priority # 2](#) and the Program task for [refining program goals and quantitative objectives](#). This Objectives Mapping Tool will inform regional discussions about quantitative objectives led by NOAA's Columbia Basin Partnership Task Force effort.

Background: Staff, working with QW Consulting and StreamNet, has revised the Objectives Mapping Tool based on the guidance from the Fish and Wildlife Committee during its [December 2016 meeting](#) and from managers on the demo mapping tool and query tool submitted by February 3, 2017 ([excel file of comments](#)). Some of the requested revisions will be implemented as feasible, such as displaying the ESA minimum abundance threshold objectives as a line on the Natural Origin Spawner Abundance graphics.

The revised Objectives Mapping Tool leverages existing population and major population group GIS layers maintained by StreamNet. StreamNet will continue to work with us to locate GIS layers for non-ESA populations such as by accessing GIS Layers from [CRITFC's Columbia Basin Salmon and Steelhead Crosswalk Project](#) and other sources identified by salmon and steelhead managers.

The Objectives Mapping Tool integrates the StreamNet population codes to facilitate real-time links between the [StreamNet CAX mapping tool](#) of fish abundance data and the Objectives Mapping Tool. The annual natural origin spawner abundance (NOSA) estimates for populations shown on the Objectives Mapping Tool are displayed in real-time from the CAX database using StreamNet's CAX web services. The NOSA estimates are provided by the [Coordinated Assessments for Salmon and Steelhead](#) effort to the StreamNet CAX mapping tool. For populations that do not have a NOSA population estimate on the CAX mapping tool we are providing guidance as to where other abundance information can be located.

The Objectives Mapping Tool now has a companion Query Tool to provide the user the ability to apply custom filters for their personal review and use of the information. The mapping tool also provides additional guidance about the relationship of the tool to the Program and overview of the Program task that has informed development of this tool via the [Learn More](#) link). We will also provide web services to facilitate the StreamNet CAX mapping tool accessing and redisplaying relevant objective values from the Objectives Mapping Tool.

Staff continues to collaborate with NOAA to ensure that this tool will be informative for the NOAA-lead [Columbia Basin Partnership Task Force](#) process. Staff will be sharing the content of the Objectives Mapping Tool with NOAA staff and will be providing additional support as needed.

To ensure the mapping tool content remains current, Council staff can update the content as needed through an internal maintenance program. A process for submitting update requests is providing on the Objectives Mapping Tool via the [Report Corrections](#) link. The Objectives Mapping Tools reflects work designed and developed by QW Consulting who compiled existing values and refinements made by Council staff based on input provided by state agencies, federal agencies, and Tribes.

More Info:

- Objectives Mapping Tool and Query Tool are accessible from the Councils Program Resources Maps webpage:
<http://www.nwcouncil.org/fw/program/maps/>
- StreamNet's CAX Mapping tool: <http://cax.streamnet.org/>
- Information about the Coordinated Assessment effort that is coordinated by PNAMP and PSMFC StreamNet: <http://www.pnamp.org/project/3129>
- Information about the NOAA Columbia Basin Partnership Task Force: http://www.westcoast.fisheries.noaa.gov/columbia_river/index.html
- 2014 Program guidance related to this objective task:
http://www.nwcouncil.org/fw/program/2014-12/program/partthree_vision_foundation_goals_objectives_strategies/iii_goals_objectives/a_goals_objectives/1_refining_goals_objectives/