Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:

BPA genetic monitoring - BPA Genetic Monitoring of Snake River Chinook Salmon and Steelhead

1.2. Summary description of the data:

This is a long-term (30-year) NWFSC Genetics and Evolution Program study to monitor the genetic characteristics and population dynamics of hatchery- and natural-origin Chinook salmon and steelhead in the Snake River Basin, which are both species listed as threatened under the US Endangered Species Act. Genetic tools are used to determine if naturally spawning hatchery fish are influencing the adaptive potential and viability of wild fish in the basin. This work involves long-term annual field work to collect DNA from threatened Chinook salmon and steelhead at numerous locations throughout the Snake and Salmon River Basin and analyze the genetic signatures from the collections in the context of a long-term historical baseline of hatchery production and natural variation in wild salmonid production there.

Initiated in 1989, this study monitors genetic changes associated with hatchery propagation in multiple Snake River sub-basins for Chinook salmon and steelhead. We also derive estimates of reproductive success for individual families and groups of fish. The information obtained from this study directly addresses a critical knowledge gap identified by comanagers, which is: under what conditions does hatchery supplementation provide a sustained contribution to natural production? Co-managers are ODFW, CTUIR, NPT, WDFW, IDFG, and SBT. This type of monitoring work is now an essential part of hatchery reform and the goal of using widespread hatchery propagation in recovery of natural populations.

1.3. Is this a one-time data collection, or an ongoing series of measurements?

Ongoing series of measurements

1.4. Actual or planned temporal coverage of the data:

1989-11-01 to Present, 1989-11-01 to Present, 1989-11-01 to Present

1.5. Actual or planned geographic coverage of the data:

W: -122.5547, E: -122.5547, N: 47.569, S: 47.569

Manchester Research Station

W: -122.3062, E: -122.3062, N: 47.6449, S: 47.6449
NWFSC Montlake: NWFSC Montlake, Seattle

W: -122.5547, E: -122.3062, N: 47.6449, S: 47.569
Snake River Basin: Snake River Basin, a Columbia River tributary

1.6. Type(s) of data:
(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
Table (digital)

1.7. Data collection method(s):
(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)
Instrument: DNA Sequencer
Platform: Unknown Platform
Physical Collection / Fishing Gear: Unknown Physical Collection Device

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:
Northwest Fisheries Science Center (NWFSC)

2.2. Title:
Metadata Contact

2.3. Affiliation or facility:
Northwest Fisheries Science Center (NWFSC)

2.4. E-mail address:
nmfs.nwfsc.metadata@noaa.gov

2.5. Phone number:
206-860-3200

3. Responsible Party for Data Management

Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:
Ewann A Berntson

3.2. Title:

Data Steward

4. Resources

Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?

No

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):

5

5. Data Lineage and Quality

NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible

(describe or provide URL of description):

Lineage Statement:
Genotype generation, plus genotype QA/QC.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

QA/QC genotypes run, elimination of fish missing too many genotypes, elimination of duplicate genotypes.

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?

Yes

6.1.1. If metadata are non-existent or non-compliant, please explain:

6.2. Name of organization or facility providing metadata hosting:

NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:
https://www.fisheries.noaa.gov/inport/item/18054

6.4. Process for producing and maintaining metadata
(describe or provide URL of description):
Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf

7. Data Access
NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?
No

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?
No

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:
NA

7.2. Name of organization of facility providing data access:
Northwest Fisheries Science Center (NWFSC)

7.2.1. If data hosting service is needed, please indicate:
No

7.2.2. URL of data access service, if known:
https://www.webapps.nwfsc.noaa.gov/apex/parr/little_sheep_creek_steelhead/data/page/
https://www.webapps.nwfsc.noaa.gov/apex/parrdata/inventory/tables/table/little_sheep_creek_steelh

7.3. Data access methods or services offered:
At this time, contact the Data Manager for information on obtaining access to this data set. In the near future, the NWFSC will strive to provide all data resources as a web service in order to meet the NOAA Data Access Policy Directive (https://nosc.noaa.gov/EDMC/PD.DA.php).

7.4. Approximate delay between data collection and dissemination:
0 days

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

No Delay

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

OTHER

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):

Northwest Fisheries Science Center - Seattle, WA

8.3. Approximate delay between data collection and submission to an archive facility:

365

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

See FishGen.net website for details.

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.