

IEP Data Management Plan

Basic Information

Year: 2020; PEN:249; Date Updated: 2018-06-04; Start Date: 2012-08-01

Study Title

IEP Gear Efficiency Evaluations in Support of Modeling Efforts for Delta Smelt

Principal Investigator

Individual(s) responsible for the project. Include name, agency, e-mail, & phone.

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Point of Contact

Individuals who data users should contact for access to the data or questions about the data. Include name, agency, e-mail, & phone number or write "same as above."

Vacant

Data Description

A very brief description of the information to be gathered; the nature and scale of the data that will be generated or collected. Include approximate size (in MB) of the resulting data set.

Using fish sampling data collected about monthly spring through fall (2012-2014 and irregular in 2015), relative gear selectivity was modeled statistically using data from simultaneous, adjacent deployment of IEP fish sampling gears. The contracted portion of the study is formally over. No field work in 2018 or 2019 added to current databases. Data previous collected include: sampling date, time, location (lat/lon, trawl lane), water parameter measurements, tow distance through water to obtain volume filtered, species ID and number caught of all fishes and individual lengths of most fishes (some sub-sampling of abundant fishes). Two databases resulted: Multi-gear comparison -- GearEfficiency.mdb is 5.8 MB; Fall Midwater Trawl sampling w/ fine mesh cover -- Covered Codend 29Jan2015_V2.mdb is 4.1MB.

Related Data

Optional. Existing datasets that you incorporate into analysis and reporting for this program element, existing data that are relevant to your study, or data that are collected simultaneously.

In 2018 and 2019, the only gear selectivity field work focused solely on objective 6 -- Quantify bias associated with fixed site sampling of Summer Towntnet, Fall Midwater and Spring Kodiak surveys in comparison with random site selection through USFWS

Enhanced Delta Smelt Monitoring. USFWS random-site-selection sampling will occur in parallel with afore-mentioned fixed site, long-term fish monitoring. Databases associated with the following surveys: Summer Towntnet (2018-007), Fall Midwater Trawl (2018-003), Spring Kodiak Trawl (2018-088) and 20-mm Survey (2018-033)

Metadata

A description of the metadata to be provided along with the generated data, including the metadata standards used. Provide the file name and information on how users can access the metadata (e.g., a link).

Metadata for the Access databases currently reside in MS Word files and stored in the same locations as the databases themselves (see Storage & Backup). Metadata are contained in the first tab of each data spread sheet file (GearSelect_AllSpeciesLnEffortMar2015_v2.xls and GearSelectCCE_March2015.xls)

Storage and Backup

A description of the short-term storage methods and backup procedures for the data, including the physical and electronic resources to be used for the short-term storage of the data.

Original data sheets are stored in binders by year in possession of Baxter. Scanned copies of data sheets, MS Access databases and Excel data files, metadata and field protocols in final report are on Baxter's computer (D:\Data\3NewmanModeling\GearSelect\Database), on his individual server directory, and in USFWS Gear Selectivity contract file (FWS agreement No.: F12AC00796) in USFWS Sacramento, and stored on a flash drive (Store N Go:1Newman_DSModeling\DataAnalysis) carried home with Baxter.

Archiving and Preservation

The procedures for long-term archiving and preservation of the data, including succession plans for the data should the expected archiving entity go out of existence.

See previous section, storage and backup.

Access and Sharing

A description of how data will be shared. Include (1) access procedures, (2) embargo periods, (3) technical mechanisms for dissemination (e.g., website addresses, listserv information), (3) whether access will be open or granted only to specific user groups, and (4) a timeframe for data sharing and publishing.

Data are available on request from Baxter.

We request that California Dept. of Fish and Wildlife, US Fish and Wildlife Service and the Interagency Ecological Program are acknowledged as supporting this work, and that US Fish and Wildlife Service is acknowledged as funding this work.

Format

Formats in which the data will be generated, maintained, and made available. Include BOTH general data type (e.g., spreadsheet, relational database) and file format (extension).

Data are initially collected aboard boats and recorded on paper data sheets, which are scanned to electronic form in the office. Data from paper sheets are entered into a MS Access relational database. The database in-turn contains queries to produce an Excel file containing a single record per fish measured that also includes sampling date, location, time, gear type, a suite of water measurements, tow information etc.

Two Access databases were created: GearEfficiency.mdb, which contains data from simultaneous multi-gear sampling efforts (5.8 MB); and Covered Codend 29Jan2015_V2.mdb, which contains data from Fall Midwater Trawl covered codend sampling in 2014-2015 (4.1 MB). The tow, fish and environmental data from each database was reformatted into Excel spreadsheets, one for each database in .xlsx format: GearSelect_AllSpeciesLnEffor

Quality Assurance

Brief description of procedures for ensuring data quality. Provide links to Quality Assurance Project Plan and/or QA/QC Standard Operating Procedures.

Data sheets were reviewed by lead person from each boat prior to the end of each field day to improve data clarity, identify missing data and fill in any missing data if possible from other sources. Data entry was accomplished by one person and then another person conducted record-by-record checks looking for complete and correct entry. The databases were reviewed table by table by Baxter looking for outliers and other evidence of data entry errors or omissions. Finally, inconsistencies noted by collaborators Newman and Mitchell while using Excel files were returned to Baxter, who checked the data and made revisions if necessary. Current databases and Excel files include all these revisions.

Rights and Requirements

A link to or instructions to locate the agency's rights and requirements for data use.

We adhere to all CDFW policies on data quality soon to be posted to the [Science Institute](#) webpage.