

# IEP Data Management Plan

## Basic Information

Year: 2020; PEN: 330; Date Updated: 2019-06-29; Start Date: 2020-04-01

## Study Title

Extracting better information from long-term monitoring data: estimating occupancy and abundance of near-shore fishes in the Sacramento-San Joaquin River Delta

## Principal Investigator

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

Joseph E Merz, Ph.D., Cramer Fish Sciences, Jmerz@fishsciences.net, 209-614-4073

## 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."*

Erwin Van Nieuwenhuyse, Ph.D., Science Division, Bay-Delta Office, Bureau of Reclamation, U.S. Department of Interior, 801 I Street, Suite 140, Sacramento, CA 95814-2536

## 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.*

Between April and May 2020, we will sub-sample habitat units selected to represent available main-channel and off-channel features within each of the designated reaches. When video-sampling organisms, boat latitude and longitude, water depth beneath net frame, boat velocity and water quality (e.g., temperature, dissolved oxygen, turbidity, pH, conductivity, chlorophyll a) will be instantaneously recorded and stored electronically. Latitude, longitude, depth and velocity will be recorded with time-stamp from a Lowrance fish finder and transducer. Water quality at each sampling location will be recorded instantaneously using a YSI sonde unit to an electronic file with time stamp.

## 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.*

N/A or unknown for 2020 study design at this time.

## 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).*

N/A

## 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.*

Short term storage will be in the form of raw data sheets, micro SD cards, local memory devices and hard drives. Long term storage will consist of local storage backed up via Dropbox. Video will be stored on hard drive and Dropbox, water quality, habitat, and all other transect data will be stored in Access Database and Dropbox. Dropbox will be used as a backup to retain secondary copies of ALL data collected.

## 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.*

Data will be stored at Cramer Fish Sciences and copies delivered to USBOR in Sacramento.

## 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.*

The Reclamation project manager would provide regular updates to the IEP Science Management Team and the study team would communicate results to the broader scientific community with two IEP Workshop Presentations. This work would culminate in an IEP Newsletter article and Peer Reviewed Manuscript.

Data Sharing- Data collected from this study would be made available to the IEP after completion of QA/QC.

## 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).*

See above

## **Quality Assurance**

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

We will use a combination of e-DNA and visual validation of species ID for QA/QC of image recognition

Our field crew will perform an initial QA/QC of daily recorded information

We also follow a standardized data entry QA/QC

## **Rights and Requirements**

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

N/A