

IEP Data Management Plan

Project Element Number

311

Year

2024

Date Updated

5/31/2024

Start Date

1/1/2024

Study Title

SAMPLING FISH AND FOOD-WEB RESOURCES IN TIDAL WETLANDS:
RESTORATION MONITORING IN 2024

Principal Investigator

Christy Bowles /CDFW/christy.bowles@wildlife.ca.gov/209-279-4313

Stacy Sherman /CDFW/stacy.sherman@wildlife.ca.gov/209-234-3687

Point of Contact

Christy Bowles /CDFW/christy.bowles@wildlife.ca.gov/209-279-4313

Data Description

The Fish Restoration Program (FRP) samples fish and invertebrates in tidal wetlands and their adjacent channels in order to inform monitoring of restoration sites. In 2024, sampling will occur around the current and future tidal wetland locations. Data includes fish and invertebrate catch, water quality, submerged aquatic vegetation biomass, chlorophyll *a* concentrations, associated sampling information (effort), and associated environmental variables (weather, tides, etc.). Data from the 2024 workplan will be added to the new Oracle FRP database, and is estimated to be 30 MB in size.

Related Data

FRP will also use data collected by the DWR Yolo Bypass survey (IEP element #047), the USFWS Liberty Island Fish Survey (IEP element #279), UC Davis Suisun Marsh Program (IEP element #093), 20mm survey (IEP element #033), EMP survey (IEP element #077), and Fall Midwater Trawl (IEP element #003) where study areas overlap with ours whenever possible to avoid double-sampling.

Metadata

Metadata, including citation information, geographic scope, standard operating procedures, and QA/QC procedures will be shared via a website (in development) and uploaded with data to the Environmental Data Initiative's website

(environmentaldatainitiative.org). Metadata use Ecological Metadata Language standard.

Storage and Backup

Data is currently preserved on paper and digitally. Paper data sheets will be stored in the Environmental Scientist's cubicles in binders. Digital data will be stored temporarily on the local CDFW server, to be backed up on CDFW's Tier 3 server as soon as reasonably possible and backed up once per month. Data are entered or uploaded into a FRP database, located and backed up on a DWR server. Back up versions of the database are stored on the senior environmental scientist's computer every month.

Archiving and Preservation

The Department of Water Resources Data Management Branch are developing and maintaining an Oracle database. When data are finalized, they are shared publicly via Environmental Data Initiative (<https://edirepository.org>).

Format

Field data will be collected on paper datasheets or iPads. Data collected in lab will be entered directly into computer database when possible, or recorded on paper and transferred to the computer database. Data is currently stored in an Oracle database. Data can be made available in its entirety as multiple flat .csv files with a map of relationships, or a subset of the data can be made available in a .csv flat-file upon request.

Quality Assurance

All data collection SOPs have quality assurance and quality control methods, including regular calibration of instruments, checks of identifications, and checks of data entry. See SOPs described in metadata for details. Contact C. Bowles for documents.

Access and Sharing

Data from 2015-2018 are publicly available as .csv files on the [EDI Data Portal](https://doi.org/10.6073/pasta/86810e72766ad19fccb1b9dd3955bdf8) <https://doi.org/10.6073/pasta/86810e72766ad19fccb1b9dd3955bdf8>. Finalized data will be made public once per year on the [Environmental Data Initiative's](https://edirepository.org) website (<https://edirepository.org>). Earlier access to data will be sent over email when the project investigator is contacted.

Rights and Requirements

We adhere to all CDFW and CDWR [policies on data quality](#).
<https://www.wildlife.ca.gov/Science-Institute/Policies-and-Guidelines>