

IEP Data Management Plan

Project Element Number:

047

Year:

2024

Date Updated:

2023-05-30

Start Date:

1998-01-01

Study Title

Yolo Bypass Fish Monitoring Program

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Data Description

Dataset is from 1998 to present, composed of catch data for rotary screw trap, fyke trap, egg and larval fish tows, beach seines, zooplankton, and phytoplankton monitoring along with accompanying water quality data conducted by the DWR Aquatic Ecology Unit on the Yolo Bypass. Water temperature, turbidity, EC, pH, and dissolved oxygen are collected at all sampling locations. An 8' rotary screw trap is operated in the Toe Drain 5 - 7 days/week Jan - June. All fish are identified to species with up to 20 individuals/species measured, then plus counted. Beach seining is conducted on a biweekly basis (weekly during inundation) at 10 sites in the Toe Drain. A 10' diameter fyke trap is used to monitor the adult fish abundance and species composition October-June. Fish monitoring data base is ~45 MB and lower trophic data base is ~14 MB.

Related Data

[Estimated Yolo Bypass inundation days](https://portal.edirepository.org/nis/mapbrowse?packageid=edi.840.1) is available on EDI. URL location:

<https://portal.edirepository.org/nis/mapbrowse?packageid=edi.840.1>

Metadata

Each YBFMP monitoring element has its own dedicated metadata document. [Metadata related to fish sampling \(fyke trap, rotary screw trap, beach seine\)](https://portal.edirepository.org/nis/mapbrowse?packageid=edi.233.3) are available. URL:

<https://portal.edirepository.org/nis/mapbrowse?packageid=edi.233.3>,

[Metadata related to zooplankton sampling](https://portal.edirepository.org/nis/mapbrowse?packageid=edi.494) are available. URL:

<https://portal.edirepository.org/nis/mapbrowse?packageid=edi.494>,

[Metadata related to drift invertebrate sampling](#) are available at: <https://portal.edirepository.org/nis/mapbrowse?packageid=edi.818.3>, and [metadata related to nutrient, phytoplankton, and water quality data](#) are available. URL: <https://portal.edirepository.org/nis/mapbrowse?packageid=edi.1391.1>. Metadata documents for ichthyoplankton sampling are available upon request.

Storage and Backup

Hardcopy datasheets are stored in binders in our office at 3500 Industrial Blvd, West Sacramento, CA 95691. All datasheets are scanned annually, and the scans are stored on DWR servers. The main electronic Access databases are stored on DWR servers with tape backup. Additional backup copies are stored on staff desktops in our office; all backups are updated every Friday.

Archiving and Preservation

All datasheets and databases will continue to be housed and archived at DWR facilities. Data will be archived in .csv format on the Environmental Data Initiative data repository.

Format

All YBFMP data is stored in relational Access (.accdb) databases. One database stores all fish sampling and corresponding water quality data and one database stores all lower trophic sampling and corresponding water quality data. Starting in 2020, lower trophic sampling and corresponding water quality data is stored in Excel while awaiting import into a future database (software pending). Data requests will be fulfilled using Excel (.xlsx) files.

Quality Assurance

Data QA/QC is a four-stage process. First, the data sheets are error checked at the end of each day by a member of the crew who was not the primary data recorder. Second, data is then entered into a Microsoft Access form with automatic error-checking and data validation. Third, a separate data entry person compares the original data sheets to the electronic database. Finally, each data field is sorted and/or summarized based on unique records to highlight erroneous outliers. Each metadata document linked above provides a description of the QA/QC procedure for that element.

Access and Sharing

[Fish data is published online via Environmental Data Initiatives](#) and is accessible for download at <https://portal.edirepository.org/nis/mapbrowse?packageid=edi.233.3>. Fish data can also be visualized on [Bay-Delta Live](#) www.baydeltalive.com. Lower trophic data ([zooplankton](#) and [drift](#)) is accessible for download at <https://portal.edirepository.org/nis/mapbrowse?packageid=edi.494.1> and <https://portal.edirepository.org/nis/mapbrowse?packageid=edi.818.3>. [Nutrient, phytoplankton and water quality data](#) is accessible for download at <https://portal.edirepository.org/nis/mapbrowse?packageid=edi.1391.1>. Data is also shared on the [CNRA Open Data Platform](#): <https://data.cnra.ca.gov/dataset/https-portal-edirepository-org-nis-mapbrowse-packageid-edi-233-2>. Ichthyoplankton data sharing is

currently via email request only but is being prepared for publishing to EDI. At this time access is open to anyone. Annual data reports are published every year in the IEP Newsletter.

Rights and Requirements

DWR does not have specific rights and requirements for data use.