

# IEP Data Management Plan

## Project Element Number:

003

## Year:

2024

## Date Updated:

5/25/2023

## Start Date:

1/1/2023

## Study Title

Fall Midwater Trawl

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## Data Description

The FMWT samples 122 stations each month from September to December and a subset of these data is used to calculate annual fish abundance indices. At each station a 12-minute tow is conducted during which the net is retrieved obliquely through the water column from bottom to surface. All fish, shrimp, and jellyfish are identified and enumerated. In addition, the crew measures water temperature, electrical conductivity (specific conductance), Secchi depth, and turbidity. Beginning in 2010, macrozooplankton and microzooplankton tows were permanently added for 31 stations (one more station added in 2011 for a total of 32). The local database is approximately 60 MB and data is archived at the end of every survey month on the Tier 3 server in Sacramento.

## Related Data

In 2011, FMWT began collecting zooplankton samples at 32 stations. The organisms are identified and counted at the CDFW Stockton office. The resulting data is entered into a separate relational database. The Fall Midwater Trawl Zooplankton database is currently 32 MB. [Zooplankton data](#) is available. URL location filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/Zoopl\_TownetFMWT/

## Metadata

A Microsoft Word file is available which details all fish data including the variables and Queries in the Access database.

[FMWT Metadata file](#) is available. URL location:

<https://filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/FMWT%20Data/>

An excel file details the zooplankton data collected during FMWT.

[FMWT excel file](#) is available. URL location:

[https://filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/Zoopl\\_TownetFMWT/](https://filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/Zoopl_TownetFMWT/)

## Storage and Backup

After data is finished with QC procedures, datasheets are scanned to create a pdf copy. Physical copies are stored in FMWT staff office cubicle location. All local electronic copies of the Access database and scanned pdf datasheets are saved on the CDFW U: drive. Archived copies of the database are saved on another folder on the U: drive and local hard drive anytime subsequent data corrections are made. Data is uploaded to the permanent archive on the CDFW Tier 3 server in Sacramento after passing QC checks following monthly sampling.

## Archiving and Preservation

Backups and archiving over long term are done by CDFW Sacramento on their Tier 3 server.

## Format

Primary database maintained in Microsoft Access (Office 365) (\*.accdb) with a flatfile (\*.csv) generated for public release.

## Quality Assurance

[QA/QC procedures \(pdf\)](#) are detailed and publicly available. URL on the file server:

<https://filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/FMWT%20Data/FMWT%20Protocol.pdf> .

## Access and Sharing

[All data](#) is made publicly available on the CDFW file server

(<https://filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/FMWT%20Data/>) in the January proceeding the end of the field season in December. Also, [monthly abundance indices for index species](#) are published online (<https://apps.wildlife.ca.gov/fmwt>) mid-season and upon survey completion (October and December, respectively). A graphical version of the same indices are published in December as well on the [CDFW Document Library](#) (<https://nrm.dfg.ca.gov/documents/ContextDocs.aspx?cat=R3-FallMidwaterTrawl>) once they have been reviewed and quality checked by staff and approved for release by the Regional Manager.

## Rights and Requirements

The scientific data collected or created by Department staff (including volunteers), specifically through state-funded efforts, are the property of the Department at all stages of the data collection effort, and not the property of the scientists and volunteers who collect them. Additionally, all scientific data collected or created under contract with the Department (including grantees and their subcontractors), including their use for

publication, must become the property and right of the Department and not of the contractor.