

IEP Data Management Plan

Project Element Number:

007

Year:

2024

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Start Date:

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Study Title

Summer Townet Survey (STN)

Principal Investigator

Steven Slater, CDFW, Steven.Slater@wildlife.ca.gov, (209)403-6325

Point of Contact

Steven Slater, CDFW, Steven.Slater@wildlife.ca.gov, (209)403-6325

Data Description

STN collects and record lengths and numbers of fish and invertebrates collected as well as location, time, date and environmental parameters (GPS coordinates, Water Temperature, Water Clarity, Conductivity, Station Conditions, and Microcystis ranking), for sampling events at 40 stations per survey. Stations are sampled 2-3 times, every other week from June through August for a total of six surveys. STN began sampling at 32 historic stations in 1959 with 8 additional stations in the Sacramento Deep Water Ship Channel and Cache Slough added in 2011. The database is currently 73.8 MB.

Related Data

In 2011, STN began collecting a zooplankton sample at each of the 40 stations. The organisms are identified and counted at the CDFW Stockton office. The resulting data is entered into a separate relational database. The Summer Townet Zooplankton database is currently 32 MB. Zooplankton data is available at filelib.wildlife.ca.gov - /Public/TownetFallMidwaterTrawl/Zoopl_TownetFMWT/

Metadata

The metadata, "[Townet Database Metadata.pdf](#)", contains brief descriptions of each field in the database as well as the methods used to measure them. It also contains a brief description of the sampling gear used. URL location:

<https://filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/TNS%20MS%20Access%20Data/TNS%20data/>

Additional information can be found in the [Townet protocol](#) which is also posted on the FTP site.

Metadata for the zooplankton database is included in the excel workbook (ftp://ftp.dfg.ca.gov/TownetFallMidwaterTrawl/Zoopl_TownetFMWT/)

Storage and Backup

Up to date copies of the database are stored on the department shared U: drive and on the PI's computer, both of which are located at the CDFW office located at 2109 Arch-Airport Rd, Suite 100 in the City of Stockton. A copy is also stored on the department's Tier 3 server at the Resource Agency Data Center located at 1416 9th Street in the City of Sacramento. The original datasheets are stored in filing cabinet at the CDFW Stockton office. Digital copies of the datasheets are stored on the shared U: drive.

Archiving and Preservation

Original data sheets are archived at the CDFW Stockton Office. All digital data is archived on the department shared drive and/or Tier-3 server.

Format

Data is entered into a relational database (MS Access) and a subset is summarized into both an excel "flat file" and two '.csv' files. Public versions of the database are available on the [Summer Townet FTP site](#).

<https://filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/TNS%20MS%20Access%20Data/TNS%20data/>

Zooplankton data is stored in a relational database (MS Access) and made available to the public as an excel workbook.

File extension for both MS Access databases is .mdb.

Quality Assurance

After each of the six bi-monthly surveys, CDFW staff check the data entered line by line by comparing the data entered into the database with the original field data sheets. Plots of each field are generated to visually check for outliers and errors. The database is also queried for blank fields, incomplete and improperly formatted entries. Sums of total catch, volume sampled and number of tows completed are checked for accuracy.

An annual check for accuracy is completed at the end of each field season, checks include a series of R scripts which identify outliers and a subset of records are randomly selected and checked against the original data sheets for accuracy.

QA/QC procedures are outlined in the STN protocol which can be found on the Summer Townet FTP site.

<https://filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/TNS%20MS%20Access%20Data/TNS%20data/>

Access and Sharing

A complete relational database and Excel flat file is made available to the public at the end of each field season, after QA/QC procedures have been completed. These files are posted on the project FTP site, which has no restrictions on access:

<https://filelib.wildlife.ca.gov/Public/TownetFallMidwaterTrawl/TNS%20MS%20Access%20Data/TNS%20data/>

A plot of length frequencies for select species, and map of fish distribution are available on the [Summer Townet project website](#) and underlying data will be updated after each survey, pending QA/QC. <https://wildlife.ca.gov/Conservation/Delta/Townet-Survey>

Two memos summarizing catch and relative abundance indices for Delta Smelt and age-0 Striped Bass will be circulated and made available on the project website (<https://www.wildlife.ca.gov/Conservation/Delta/Townet-Survey/Bibliography>) after they are approved for release by the Regional Manager.

Zooplankton data can be accessed on the [project FTP site](#) (ftp://ftp.dfg.ca.gov/TownetFallMidwaterTrawl/Zoopl_TownetFMWT/)

Data is made public after processing and QA/QC procedures are complete.

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.