# EDI Metadata Template (2019)[[1]](#footnote-1)

Data should be in csv text file. If starting with an Excel spreadsheet, please make sure it does not contain any formulas and comments on cells. If you need comments put them in their own column. If data were used in a database and major table linking is necessary to analyze, please de-normalize into a flat file, not just database table exports.

## Dataset Title

(be descriptive, more than 5 words):

Salmonid habitat use monitoring used to determine effectiveness of habitat improvement projects in the Sacramento River, CA

## Short name or nickname you use to refer to this dataset:

CVPIA Salmonid Habitat Monitoring Data

## Abstract

(include what, why, where, when, and how) The Central Valley Project Improvement Act (CVPIA) funds habitat improvement work in the Central Valley of California to increase salmonid populations in furtherance of meeting CVPIA fish doubling goals. This dataset covers salmonid observations conducted in the Sacramento River and focused on assessing effectiveness of salmonid habitat improvement projects. Surveys are conducted roughly every other week and include pre-project sites, constructed habitat project sites, and control sites where no treatment is planned. Sites are snorkeled by a crew of two to three people and all salmonids are counted by size category within pre-set survey reaches. Snorkelers record data on dive slates and then transcribe to paper data sheets and computer files. Annual reports summarize the survey findings.

## Investigators

(list in order as for a paper with e-mail addresses, organization and preferably ORCID ID, if you don’t have one, get it, it’s easy and free: <http://orcid.org/>) add table rows as needed

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| First Name | Middle Initial | Last Name | Organization | e-mail address | ORCID ID (optional) |
| John | M | Hannon | US Bureau of Reclamation | jhannon@usbr.gov | https://orcid.org/0000-0001-9057-9084 |
| Mandy |  | Banet | CSU Chico |  |  |
| Steve |  | Tussing |  |  |  |
| Ryan |  | Greathouse | PSMFC |  |  |

## Other personnel names and roles

(dataset creators & contact, field crew, data entry etc. with e-mail addresses, organization and ORCID ID)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| First Name | Middle Initial | Last Name | Organization | e-mail address | ORCID ID (optional) | Role in project |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

## License

(Select a license for release of your data. We have 2 recommendations: [CCO – most accommodating of data reuse](https://creativecommons.org/publicdomain/zero/1.0/), & [CCBY – requires attribution](https://creativecommons.org/licenses/by/4.0/))

CCO

## Keywords

(List keywords and separate with commas. Using keywords from a controlled vocabulary (CV) will improve the future discovery and reuse of your data. The LTER CV is effective at describing ecological and environmental data. [Access the LTER CV here](http://vocab.lternet.edu/vocab/vocab/index.php). [Try this text mining service to extract LTER CV keywords from your abstract or methods](http://vocab.lternet.edu/keywordDistiller/). Additionally, please determine one or two keywords that best describe your lab, station, and/or project (e.g., Trout Lake Station, NTL LTER). This will help others discover your data by site/project).

Sacramento River Salmonid Habitat Restoration Projects Effectiveness Monitoring

## Funding of this work:

Add rows to table if several grants were involved, list only the main PI, start with main grant first:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PI First Name | PI Middle Initial | PI Last Name | PI ORCID ID (optional) | Title of Grant | Funding Agency | Funding Identification Number |
| Susan |  | Strachan |  | Salmonid Spawning and Rearing Habitat Restoration in the Sacramento River | USBR |  |

## Timeframe

* Begin date 2016
* End date Ongoing
* Data collection ongoing/completed ongoing

## Geographic location

* Verbal description: Sacramento River in northern California in the reach of river between Keswick Dam and Sacramento
* North bounding coordinates (decimals) 40.612354°
* South bounding coordinates (decimals) 38.509402° (current data is north of 40.151896°)
* East bounding coordinates (decimals) -121.484446°
* West bounding coordinates (decimals) -122.448217°

## Taxonomic species or groups

Chinook Salmon *Oncorhynchus tshawytscha*

Steelhead/rainbow trout *Oncorhynchus mykiss*

## Methods

(please be specific, include instrument descriptions, or point to a protocol online, if this is a data compilation please specify datasets used, preferably their DOI or URL plus general citation information)

Project page:

<https://www.sacramentoriver.org/forum/index.php?id=channels>

Direct link to monitoring plan with methods: [https://www.sacramentoriver.org/forum/publications/side\_channels/Monitoring Plan Final 170831.pdf](https://www.sacramentoriver.org/forum/publications/side_channels/Monitoring%20Plan%20Final%20170831.pdf)

## Data Table

* Column name: exactly as it appears in the dataset. Please avoid special characters, dashes and spaces.
* Description: please be specific, it can be lengthy
* Unit: please avoid special characters and describe units in this pattern: e.g. microSiemenPerCentimeter, microgramsPerLiter, absoptionPerMolePerCentimeter
* Code explanation: if you use codes in your column, please explain in this way: e.g. LR=Little Rock Lake, A=Sample suspect, J=Nonstandard routine followed
* Data format: please tell us exactly how the date and time is formatted: e.g. mm/dd/yyyy hh:mm:ss plus the time zone and whether or not daylight savings was observed.
* If a code for ‘no data’ is used, please specify: e.g. -99999

Please add rows as needed

**Table description:** Add a description for each table

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Description | Unit or  code explanation or date format | Empty value code |
|  |  |  |  |
|  |  |  |  |

|  |  |
| --- | --- |
| Date | Self explanatory |
| Month | Self explanatory |
| Year | Self explanatory |
| SiteNumber | Number assigned to each site. Site number and site name should always match |
| SiteName | Name of the study sight |
| Treatment | Control is an existing area that is used for comparison. Baseline data are from an area slotted for restoration, but collected prior to restoration. Impact data are areas that have been restored. |
| Pairing | Sites close together that are likely to be similar get the same "pairing" letter. Sometimes two impact areas may both be paired with the same control. |
| Time | Military time |
| WaterElevation | Only taken sometimes - lots of missing data |
| Weather | 1: Clear, 2: Partly Cloudy, 3: Cloudy, 4: Rain, 5: Snow, 6: Fog. |
| WaterTemp | in Fahrenheit |
| Visibility | Visibility in feet using a secchi disk. Maximum distance is 10ft due to the length of the secchi disk pole |
| SurveyMethod | Currently written in, but the codes I was initially given are - 0: Snorkel downstream, 1: Snorkel upstream, 3: wading, 4: Seining, 5: E-fishing |
| VideoOrObserver | Currently written in, but the codes I was initially given are - 0: Video counted, 1: observer counted(direct count) |
| LFRcount | number of Late Fall Run Chinook counted |
| WRcount | number of Winter Run Chinook counted |
| SRcount | Number of Spring Run Chinook counted - not that there is some question about whether these are really spring run. |
| FRcount | Number of Fall Fun Chinook counted |
| Troutcount | Number of Trout counted |
| COMMENTS | various notes, not currently formated for analysis |
| Calculated Flow | estimated flow in cubic feet per second. |

## Articles

(List articles citing this dataset)

|  |  |  |
| --- | --- | --- |
| Article DOI or URL (DOI is preferred) | Article title | Journal title |
|  | See project page link above for annual monitoring reports using this data. |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Scripts/code (software)

(List any software scripts/code you would like to archive along with your data. These may include processing scripts you wrote to create, clean, or analyze the data.)

|  |  |  |
| --- | --- | --- |
| File name | Description | Scripting language |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Data provenance

(Were these data derived from other data? If so, you will want to document this information so users know where these data come from.)

|  |  |  |  |
| --- | --- | --- | --- |
| Dataset title | Dataset DOI or URL | Creator (name & email) | Contact (name & email) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Notes and Comments

1. This document liberally borrows from similar documents at SBC and GCE [↑](#footnote-ref-1)