

Equity Data Handbook

CA Water Board's Office of Information Management and Analysis (OIMA)

2024-07-01

Table of contents

Welcome!	4
1 Background	5
I Getting Started	6
2 Getting Started	7
3 Best Practices	8
4 Establishing Common Language	9
II Data Collection	10
5 Planning	11
6 Data Sources	12
7 Surveys	13
8 Data Limitations	14
III Data Prep & Use	15
9 Data Preparation	16
10 Data Analysis	17
11 Data Visualization	18
12 Demographics Data	19
12.1 Point Data	19
12.2 Lines	19
12.3 Polygons	19

IV Sharing & Reproducibility	20
13 Data Sharing	21
14 Documentation	22
V Use Cases	23
15 Use Case 1	24
16 Resources	25
16.1 Websites	25
16.2 Presentations	25
16.3 Other Equity & Data Handbooks or Toolkits	25
16.4 Cool Data Visualization Tools	25
17 Inspiration	26

Welcome!

[Add welcome and intro info]

This [Quarto book](#) is an open, living, and continuously iterating resource. If you have suggestions for additions or revisions you think should be incorporated into this book, please follow the guidance provided in the [Contributing](#) chapter.

1 Background

Part I

Getting Started

2 Getting Started

3 Best Practices

4 Establishing Common Language

Part II

Data Collection

5 Planning

6 Data Sources

7 Surveys

8 Data Limitations

Part III

Data Prep & Use

9 Data Preparation

10 Data Analysis

11 Data Visualization

12 Demographics Data

Adding demographics data to your data project can help increase understanding of potential correlations or relationships between your data and demographic and socioeconomic characteristics of locations of interest.

Depending on what demographics data sources you decide to use, the methods needed to combine, overlay, or compare with the data you are interested in may vary. Below we outline methods of comparing demographics data to point, line, and polygon data types.

12.1 Point Data

12.2 Lines

12.3 Polygons

Part IV

Sharing & Reproducibility

13 Data Sharing

add guidance on open/sharing practices & locations - GitHub, Open Data Portals, etc.

14 Documentation

Add guidance on documentation, reproducibility & transparency, oh my!

Part V

Use Cases

15 Use Case 1

change page title to short description of use case

16 Resources

Here you will find a curated list of presentations, webpages and other resources related to the development, implementation and scaling of the principles and practices outlined in this Data Equity Handbook.

All Water Boards authors are **bolded** below.

16.1 Websites

16.2 Presentations

[Analyzing Water Boards and Demographic Data for Equity](#). Jun 2024. Hannah Cushman Garland. State Water Board Racial Equity Data Subcommittee Webinar. [Recording](#) | [Download and Use the Code](#) | [View Code](#)

16.3 Other Equity & Data Handbooks or Toolkits

[Water Boards Developed Racial Equity Data Tools](#)

[GARE Racial Equity Toolkit: An Opportunity to Operationalize Equity](#)

[CA Water Boards College of Water Informatics Data Toolkit](#)

16.4 Cool Data Visualization Tools

17 Inspiration

The impetus for developing this Data Equity Handbook began in August 2020 when the State Water Resources Control Board (State Water Board) publicly acknowledged that the historical effects of institutional racism must be confronted throughout government, and it directed staff to develop a priority plan of action.

Since then, the State Water Board, its [Office of Information Management and Analysis](#) (OIMA) and OIMA's many internal and external partners have been developing and compiling material, and adding to this Data Equity Handbook as time and bandwidth allow.

This Data Equity Handbook is inspired by many sources, including:

- [Water Boards Racial Equity - Resolution and Related Actions](#)
- [Government Alliance on Race and Equity](#) (GARE)
- [Openscapes](#) and their [Approach Guide](#)
- [NOAA Fisheries](#) (NMFS) [Open Science Resource Book](#)