

Full Modeling of Interior West

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Intro

This document contains the code for the five types of models used for comparison in this thesis: direct post-stratified estimator, area-level frequentist model, area-level hierarchical Bayesian model, unit-level frequentist model, and unit-level hierarchical Bayesian model.

Load data

```
intwest <- read_csv("../data/subsets/dat_small.csv")
tccpop <- read_csv("../data/population/tcc_pop.csv")
strata <- read_csv("../data/population/strata.csv")
```

Source modeling functions

```
source("../modeling-functions/direct_CoV.R")
source("../modeling-functions/direct_estimate.R")
source("../modeling-functions/freq_area.R")
source("../modeling-functions/freq_area_CoV.R")
source("../modeling-functions/freq_unit.R")
source("../modeling-functions/freq_unit_CoV.R")
source("../modeling-functions/hb_area.R")
source("../modeling-functions/hb_CoV.R")
source("../modeling-functions/hb_unit.R")
```