Boosting Upward Mobility from Poverty Data Documentation

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2024-02-16

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Introduction

The Urban Institute is engaged in a multi-year effort to understand upward mobility from poverty and to work with local leaders to promote policies that boost upward mobility from poverty.

This book contains documentation of the data sets and variables that make up the mobility metrics.

The data are available on the Urban Institute Data Catalog.

To learn more, please read:

- Boosting Upward Mobility: Metrics to Inform Local Action
- Boosting Upward Mobility: Metrics to Inform Local Action Summary

Part I

County Data Sets

The mobility metrics are contained in several distinct data sets. The data sets are organized according to the principles of tidy data and each data set has a unique unit of observation.

Part II

00_mobility-metrics_longitudinal.csv

- **Unit of Observation:** One row per county per year.
- **Dimensions:** 28,281 rows and 94 columns
- **Years:** 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022

This data set contains all of the county-level mobility metrics for all available years. In some cases it will contain more years of data than are available in the mobility metrics data pages.

Part III

00_mobility-metrics_recent.csv

- **Unit of Observation:** One row per county.
- **Dimensions:** 3,143 rows and 93 columns

This data set contains all of the county-level mobility metrics for the most recent year available for each metric. For example, if one metric is available in 2018 and another metric is available in 2021, both metrics will show up in the same row in this data set.

Part IV

01_mobility-metrics_race-ethnicity_longitudinal.csv

- **Unit of Observation:** One row per county per race-ethnicity group per year.
- **Dimensions:** 157,150 rows and 29 columns
- **Years:** 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022

This data set contains mobility metrics disaggregated by race/ethnicity group when available.

Part V

02_mobility-metrics_race_longitudinal.csv

- **Unit of Observation:** One row per county per race group per year.
- **Dimensions:** 47,145 rows and 12 columns
- **Years:** 2018, 2021, 2022

This data set contains mobility metrics disaggregated by race group when available.

Part VI

02_poverty-exposure_race-ethnicity.csv

- **Unit of Observation:** One row per county per race group per year.
- **Dimensions:** 31,425 rows and 9 columns
- **Years:** 2018, 2021

This data set contains special race and ethnicity tabulations for the economic inclusion mobility metric.

Part VII

03_mobility-metrics_race-share_longitudinal.csv

- **Unit of Observation:** One row per county per majority race group in a subgeography per year.
- **Dimensions:** 37,704 rows and 17 columns
- **Years:** 2014, 2016, 2018

This data set contains mobility metrics disaggregated by the majority race of the subgeographies in the county.

Part VIII

04_SEDA-income_longitudinal.csv

- **Unit of Observation:** One row per county per majority race group in a subgeography per year.
- **Dimensions:** 47,130 rows and 11 columns
- **Years:** 2017, 2016, 2015, 2014, 2013

This data set contains mobility metrics disaggregated using special disaggregations for SEDA data.

The next sections provide detailed documentation for each data set.

1 County Longitudinal Data

1.1 Year

`year`

1.2 State

`state` `state_name`

1.3 County

`county` `county_name`

1.4 Population

`population`

1.5 Predictor: Housing Affordablility

1.5.1 Metric: Ratio of affordable and available housing units to households with low-, very low–, and extremely low income levels

Variables: `share_affordable_30_ami`, `share_affordable_50_ami`, `share_affordable_80_ami`, `share_affordable_quality`

Years: 2014, 2018, 2021

Disaggregation: None

1.5.1.1 Variable: `share_affordable_30_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.41

1.83

1.80

3.52

18860

Data Quality

share_affordable_quality

quality_label

n

1

Strong

1680

2

Marginal

7741

3

Weak

2

NA

NA

18858

1.5.1.2 Variable: `share_affordable_50_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.76

1.83

1.81

3.02

18860

Data Quality

share_affordable_quality

quality_label

n

1

Strong

1680

2

Marginal

7741

3

Weak

2

NA

NA

18858

1.5.1.3 Variable: `share_affordable_80_ami`

Summary

Min.

Median

Mean

Max.

NA's

1.02

1.68

1.68

2.66

18860

Data Quality

share_affordable_quality

quality_label

n

1

Strong

1680

2

Marginal

7741

3

Weak

2

NA

NA

18858

1.6 Predictor: Housing Stability

1.6.1 Metric: Number and share of public school children who are ever homeless during the school year

Variables: `count_homeless`, `share_homeless`, `count_homeless_lb`, `count_homeless_ub`, `homeless_quality`

Years: 2014, 2015, 2016, 2017, 2018, 2019

Disaggregation: None

1.6.1.1 Variable: `count_homeless`

Summary

Min.

Median

Mean

Max.

NA's

0

86

488

75,094

11218

Data Quality

homeless_quality

quality_label

n

1

Strong

14575

2

Marginal

581

3

Weak

1908

NA

NA

11217

1.6.1.2 Variable: `share_homeless`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.02

0.03

0.68

11251

Data Quality

homeless_quality

quality_label

n

1

Strong

14575

2

Marginal

581

3

Weak

1908

NA

NA

11217

1.7 Predictor: Economic Inclusion

1.7.1 Metric: Share of residents experiencing poverty living in high-poverty neighborhoods

Variables: `share_poverty_exposure`, `share_poverty_exposure_quality`

Years: 2018, 2021

Disaggregation: Race

1.7.1.1 Variable: `share_poverty_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.04

1.00

22010

Data Quality

share_poverty_exposure_quality

quality_label

n

1

Strong

5746

2

Marginal

496

3

Weak

29

NA

NA

22010

1.8 Predictor: Racial Diversity

1.8.1 Metric: Neighborhood exposure index, or the share of a person's neighbors who are people of other races and ethnicities

Variables: `share_black_nh_exposure`, `share_black_nh_exposure_quality`, `share_hispanic_exposure`, `share_hispanic_exposure_quality`, `share_other_nh_exposure`, `share_other_nh_exposure_quality`, `share_white_nh_exposure`, `share_white_nh_exposure_quality`

Years: 2018, 2021

Disaggregation: None

1.8.1.1 Variable: `share_black_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.12

0.93

0.84

1.00

22900

Data Quality

share_black_nh_exposure_quality

quality_label

n

1

Strong

3368

2

Marginal

1339

3

Weak

674

NA

NA

22900

1.8.1.2 Variable: `share_hispanic_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.01

0.93

0.87

1.00

22179

Data Quality

share_hispanic_exposure_quality

quality_label

n

1

Strong

4341

2

Marginal

1410

3

Weak

351

NA

NA

22179

1.8.1.3 Variable: `share_other_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.04

0.95

0.92

1.00

22169

Data Quality

share_other_nh_exposure_quality

quality_label

n

1

Strong

3914

2

Marginal

1791

3

Weak

407

NA

NA

22169

1.8.1.4 Variable: `share_white_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.16

0.21

0.99

21999

Data Quality

share_white_nh_exposure_quality

quality_label

n

1

Strong

6256

2

Marginal

23

3

Weak

3

NA

NA

21999

1.9 Predictor: Social Capital

1.9.1 Metric: Number of membership associations per 10,000 people

Variables: `count_membership_associations_per_10k`, `count_membership_associations_per_10k_qualit`

Years: 2020

Disaggregation: None

1.9.1.1 Variable: `count_membership_associations_per_10k`

Summary

Min.

Median

Mean

Max.

NA's

1.00

11.00

11.81

59.80

25290

Data Quality

count_membership_associations_per_10k_quality

quality_label

n

1

Strong

2991

NA

NA

25290

1.9.2 Metric: Ratio of Facebook friends with higher socioeconomic status to Facebook friends with lower socioeconomic status ("economic connectedness")

Variables: `ratio_high_low_ses_fb_friends`, `ratio_high_low_ses_fb_friends_quality`

Years: 2022

Disaggregation: None

1.9.2.1 Variable: `ratio_high_low_ses_fb_friends`

Summary

Min.

Median

Mean

Max.

NA's

0.29

0.81

0.81

1.36

25264

Data Quality

ratio_high_low_ses_fb_friends_quality

quality_label

n

1

Strong

3017

NA

NA

25264

1.10 Predictor: Transportation Access

1.10.1 Metric: Transit trips index

Variables: `transportation_cost`, `transportation_cost_quality`, `index_transit_trips`, `index_transit_trips_quality`

Years: 2016

Disaggregation: Race share

1.10.1.1 Variable: `index_transit_trips`

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.70

23.13

98.72

25139

Data Quality

index_transit_trips_quality

quality_label

n

1

Strong

3133

2

Marginal

5

3

Weak

4

NA

NA

25139

1.10.1.2 Variable: `transportation_cost`

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.23

24.05

98.24

25139

Data Quality

transportation_cost_quality

quality_label

n

1

Strong

3132

2

Marginal

6

3

Weak

4

NA

NA

25139

1.11 Predictor: Access to Preschool

1.11.1 Metric: Share of 3- to 4-year-olds enrolled in nursery school or preschool

Variables: `share_in_preschool`, `share_in_preschool_quality`

Years: 2018, 2021

Disaggregation: Race/ethnicity

1.11.1.1 Variable: `share_in_preschool`

Summary

Min.

Median

Mean

Max.

NA's

0.01

0.39

0.40

0.83

22003

Data Quality

share_in_preschool_quality

quality_label

n

1

Strong

850

2

Marginal

3380

3

Weak

2053

NA

NA

21998

1.12 Predictor: Effective Public Education

1.12.1 Metric: Average per grade change in English Language Arts achievement between third and eighth grades

Variables: `rate_learning`, `rate_learning_lb`, `rate_learning_ub`, `rate_learning_quality`

Years: 2014, 2015, 2016, 2017

Disaggregation: Race/ethnicity, Income

1.12.1.1 Variable: `rate_learning`

Summary

Min.

Median

Mean

Max.

NA's

−1.25

0.99

0.99

2.97

16051

Data Quality

rate_learning_quality

quality_label

n

1

Strong

10316

2

Marginal

762

3

Weak

1152

NA

NA

16051

1.13 Predictor: School Economic Diversity

1.13.1 Metric: Share of students attending high-poverty schools, by student race or ethnicity

Variables: `meps20_black`, `meps20_black_quality`, `meps20_hispanic`, `meps20_hispanic_quality`, `meps20_white`, `meps20_white_quality`

Years: 2014, 2015, 2016, 2017, 2018

Disaggregation: None

1.13.1.1 Variable: `meps20_black`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.51

0.50

1.00

13040

Data Quality

meps20_black_quality

quality_label

n

1

Strong

10412

2

Marginal

1622

3

Weak

3207

NA

NA

13040

1.13.1.2 Variable: `meps20_hispanic`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.51

0.50

1.00

12687

Data Quality

meps20_hispanic_quality

quality_label

n

1

Strong

13437

2

Marginal

1033

3

Weak

1124

NA

NA

12687

1.13.1.3 Variable: `meps20_white`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.35

0.42

1.00

12593

Data Quality

meps20_white_quality

quality_label

n

1

Strong

15526

2

Marginal

89

3

Weak

73

NA

NA

12593

1.14 Predictor: Preparation for College

1.14.1 Metric: Share of 19- and 20-year-olds with a high school degree

Variables: `share_hs_degree`, `share_hs_degree_quality`

Years: 2018, 2021

Disaggregation: Race/ethnicity

1.14.1.1 Variable: `share_hs_degree`

Summary

Min.

Median

Mean

Max.

NA's

0.40

0.91

0.89

1.00

22000

Data Quality

share_hs_degree_quality

quality_label

n

1

Strong

860

2

Marginal

2862

3

Weak

2560

NA

NA

21999

1.15 Predictor: Digital Access

1.15.1 Metric: Share of households with broadband access in the home

Variables: `share_digital_access`, `share_digital_access_quality`

Years: 2021

Disaggregation: Race

1.15.1.1 Variable: `share_digital_access`

Summary

Min.

Median

Mean

Max.

NA's

0.23

0.84

0.82

0.99

25140

Data Quality

share_digital_access_quality

quality_label

n

1

Strong

3080

2

Marginal

55

3

Weak

6

NA

NA

25140

1.16 Predictor: Employment Opportunities

1.16.1 Metric: Employment-to-population ratio for adults ages 25 to 54

Variables: `share_employed`, `share_employed_quality`

Years: 2018, 2021

Disaggregation: Race/ethnicity

1.16.1.1 Variable: `share_employed`

Summary

Min.

Median

Mean

Max.

NA's

0.41

0.78

0.78

0.93

23043

Data Quality

share_employed_quality

quality_label

n

1

Strong

1120

2

Marginal

907

3

Weak

4257

NA

NA

21997

1.17 Predictor: Jobs Paying Living Wages

1.17.1 Metric: Ratio of pay on the average job to the cost of living

Variables: `ratio_average_to_living_wage`, `wage_ratio_quality`

Years: 2014, 2018, 2021

Disaggregation: None

1.17.1.1 Variable: `ratio_average_to_living_wage`

Summary

Min.

Median

Mean

Max.

NA's

0.36

0.65

0.67

1.64

18860

Data Quality

ratio_average_to_living_wage_quality

quality_label

n

1

Strong

9386

3

Weak

36

NA

NA

18859

1.18 Predictor: Opportunities for Income

1.18.1 Metric: Household income at the 20th, 50th, and 80th percentiles

Variables: `pctl_income_20`, `pctl_income_50`, `pctl_income_80`, `pctl_income_quality`

Years: 2018, 2021

Disaggregation: Race/ethnicity

1.18.1.1 Variable: `pctl_income_20`

Summary

Min.

Median

Mean

Max.

NA's

9,068.57

23,273.97

24,071.12

79,202.52

22711

Data Quality

pctl_income_quality

quality_label

n

1

Strong

1120

2

Marginal

908

3

Weak

4256

NA

NA

21997

1.18.1.2 Variable: `pctl_income_50`

Summary

Min.

Median

Mean

Max.

NA's

26,125.96

54,182.12

56,487.19

174,000.23

22711

Data Quality

pctl_income_quality

quality_label

n

1

Strong

1120

2

Marginal

908

3

Weak

4256

NA

NA

21997

1.18.1.3 Variable: `pctl_income_80`

Summary

Min.

Median

Mean

Max.

NA's

65,928.21

103,373.28

108,925.90

329,496.85

22711

Data Quality

pctl_income_quality

quality_label

n

1

Strong

1120

2

Marginal

908

3

Weak

4256

NA

NA

21997

1.19 Predictor: Financial Security

1.19.1 Metric: Share with debt in collections

Variables: `share_debt_col`, `share_debt_col_lb`, `share_debt_col_ub`, `share_debt_col_quality`

Years: 2018, 2022

Disaggregation: Race share

1.19.1.1 Variable: `share_debt_col`

Summary

Min.

Median

Mean

Max.

NA's

0.02

0.30

0.31

0.68

22278

Data Quality

share_debt_col_quality

quality_label

n

1

Strong

6003

NA

NA

22278

1.20 Predictor: Wealth Building Opportunities

1.20.1 Metric: Ratio of the share of a community's housing value held by a racial or ethnic group to the share of households of the same group

Variables: `ratio_black_nh_house_value_households`, `ratio_hispanic_house_value_households`, `ratio_other_nh_house_value_households`, `ratio_white_nh_house_value_households`, `ratio_black_nh_house_value_households_quality`, `ratio_hispanic_house_value_households_quality`, `ratio_other_nh_house_value_households_quality`, `ratio_white_nh_house_value_households_quality`

Years: 2014, 2015, 2016, 2017, 2018, 2019, 2021

Disaggregation: None

1.20.1.1 Variable: `ratio_black_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:0.0%

NA

NA

9.9%:29.6%

6309

Data Quality

ratio_black_nh_house_value_households_quality

quality_label

n

1

Strong

1840

2

Marginal

745

3

Weak

19387

NA

NA

6309

1.20.1.2 Variable: `ratio_hispanic_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:0.0%

NA

NA

93.2%:93.3%

6309

Data Quality

ratio_hispanic_house_value_households_quality

quality_label

n

1

Strong

1807

2

Marginal

359

3

Weak

19806

NA

NA

6309

1.20.1.3 Variable: `ratio_other_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:0.0%

NA

NA

9.9%:9.6%

6309

Data Quality

ratio_other_nh_house_value_households_quality

quality_label

n

1

Strong

1766

2

Marginal

451

3

Weak

19755

NA

NA

6309

1.20.1.4 Variable: `ratio_white_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

10.1%:8.1%

NA

NA

99.8%:98.9%

6309

Data Quality

ratio_white_nh_house_value_households_quality

quality_label

n

1

Strong

3913

2

Marginal

3190

3

Weak

14869

NA

NA

6309

1.21 Predictor: Access to Health Services

1.21.1 Metric: Ratio of population per primary care physician

Variables: `ratio_population_pc_physician`, `ratio_population_pc_physician_quality`

Years: 2019

Disaggregation: None

1.21.1.1 Variable: `ratio_population_pc_physician`

Summary

Min.

Median

Mean

Max.

NA's

0

NA

NA

999:1

25139

Data Quality

ratio_population_pc_physician_quality

quality_label

n

1

Strong

2353

2

Marginal

427

3

Weak

207

NA

NA

25294

1.22 Predictor: Neonatal Health

1.22.1 Metric: Share with low birth weight

Variables: `rate_low_birth_weight`, `rate_low_birth_weight_lb`, `rate_low_birth_weight_ub`, `rate_low_birth_weight_quality`

Years: 2018, 2020

Disaggregation: Race/ethnicity

1.22.1.1 Variable: `rate_low_birth_weight`

Summary

Min.

Median

Mean

Max.

NA's

0.04

0.08

0.08

0.15

21996

Data Quality

rate_low_birth_weight_quality

quality_label

n

1

Strong

1155

2

Marginal

1

3

Weak

5129

NA

NA

21996

1.23 Predictor: Environmental Quality

1.23.1 Metric: Air quality index

Variables: `index_air_quality`, `index_air_quality_quality`

Years: 2014, 2018

Disaggregation: Race share

1.23.1.1 Variable: `index_air_quality`

Summary

Min.

Median

Mean

Max.

NA's

0.00

72.00

66.25

100.00

21997

Data Quality

index_air_quality_quality

quality_label

n

1

Strong

6284

NA

NA

21997

1.24 Predictor: Safety from Trauma

1.24.1 Metric: Number of deaths caused by injury per 100,000 people

Variables: `rate_injury_death`, `rate_injury_death_lb`, `rate_injury_death_ub`, `rate_injury_death_quality`

Years: 2019

Disaggregation: None

1.24.1.1 Variable: `rate_injury_death`

Summary

Min.

Median

Mean

Max.

NA's

19.93

89.38

92.05

280.11

25245

Data Quality

rate_injury_death_quality

quality_label

n

1

Strong

2630

2

Marginal

372

3

Weak

34

NA

NA

25245

1.25 Predictor: Political Participation

1.25.1 Metric: Share of the voting-eligible population who turn out to vote

Variables: `share_election_turnout`, `share_election_turnoutt_quality`

Years: 2016, 2020

Disaggregation: None

1.25.1.1 Variable: `share_election_turnout`

Summary

Min.

Median

Mean

Max.

NA's

0.16

0.62

0.63

1.00

22057

Data Quality

share_election_turnout_quality

quality_label

n

1

Strong

6067

2

Marginal

144

3

Weak

13

NA

NA

22057

1.26 Predictor: Descriptive Representation

1.26.1 Metric: Ratio of the share of local elected officials of a racial or ethnic group to the share of residents of the same racial or ethnic group

Variables: `share_desc_rep_asian_other`, `share_desc_rep_asian_other_quality`, `share_desc_rep_black_nonhispanic`, `share_desc_rep_hispanic`, `share_desc_rep_white_nonhispanic`

Years: 2021

Disaggregation: None

1.27 Predictor: Safety from Crime

1.27.1 Metric: Rates of reported violent crime and property crime

Variables: `rate_violent_crime`, `rate_property_crime`, `rate_crime_quality`

Years: 2021

Disaggregation: None

1.27.1.1 Variable: `rate_violent_crime`

Summary

Min.

Median

Mean

Max.

NA's

0.00

708.72

825.03

12,968.59

25581

Data Quality

rate_crime_quality

quality_label

n

1

Strong

920

2

Marginal

492

3

Weak

1288

NA

NA

25581

1.27.1.2 Variable: `rate_property_crime`

Summary

Min.

Median

Mean

Max.

NA's

0.00

1,539.04

1,831.17

21,686.75

25581

Data Quality

rate_crime_quality

quality_label

n

1

Strong

920

2

Marginal

492

3

Weak

1288

NA

NA

25581

1.28 Predictor: Just Policing

1.28.1 Metric: Rate of juvenile justice arrests

Variables: `rate_juv_arrest`, `rate_juv_arrest_quality`

Years: 2021

Disaggregation: Race

1.28.1.1 Variable: `rate_juv_arrest`

Summary

Min.

Median

Mean

Max.

NA's

0.00

549.20

1,070.43

19,073.87

25597

Data Quality

rate_juv_arrest_quality

quality_label

n

1

Strong

864

2

Marginal

480

3

Weak

1340

NA

NA

25597

2 County Recent Data

2.1 State

state state_name

2.2 County

county county_name

2.3 Population

population

2.4 Predictor: Housing Affordablility

2.4.1 Metric: Ratio of affordable and available housing units to households with low-, very low–, and extremely low income levels

Variables: share_affordable_30_ami, share_affordable_50_ami, share_affordable_80_ami, share_affordable_quality

Disaggregation: None

2.4.1.1 Variable: `share_affordable_30_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.43

1.83

1.79

3.52

3

Data Quality

share_affordable_quality

quality_label

n

1

Strong

560

2

Marginal

2580

3

Weak

1

NA

NA

2

2.4.1.2 Variable: `share_affordable_50_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.78

1.85

1.83

3.02

3

Data Quality

share_affordable_quality

quality_label

n

1

Strong

560

2

Marginal

2580

3

Weak

1

NA

NA

2

2.4.1.3 Variable: `share_affordable_80_ami`

Summary

Min.

Median

Mean

Max.

NA's

1.02

1.70

1.69

2.38

3

Data Quality

share_affordable_quality

quality_label

n

1

Strong

560

2

Marginal

2580

3

Weak

1

NA

NA

2

2.5 Predictor: Housing Stability

2.5.1 Metric: Number and share of public school children who are ever homeless during the school year

Variables: `count_homeless`, `share_homeless`, `count_homeless_lb`, `count_homeless_ub`, `homeless_quality`

Disaggregation: None

2.5.1.1 Variable: `count_homeless`

Summary

Min.

Median

Mean

Max.

NA's

1

84

460

55,180

297

Data Quality

homeless_quality

quality_label

n

1

Strong

2503

2

Marginal

100

3

Weak

243

NA

NA

297

2.5.1.2 Variable: `share_homeless`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.02

0.03

0.47

297

Data Quality

homeless_quality

quality_label

n

1

Strong

2503

2

Marginal

100

3

Weak

243

NA

NA

297

2.6 Predictor: Economic Inclusion

2.6.1 Metric: Share of residents experiencing poverty living in high-poverty neighborhoods

Variables: `share_poverty_exposure`, `share_poverty_exposure_quality`

Disaggregation: Race

2.6.1.1 Variable: `share_poverty_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.04

1.00

7

Data Quality

share_poverty_exposure_quality

quality_label

n

1

Strong

2826

2

Marginal

294

3

Weak

16

NA

NA

7

2.7 Predictor: Racial Diversity

2.7.1 Metric: Neighborhood exposure index, or the share of a person's neighbors who are people of other races and ethnicities

Variables: `share_black_nh_exposure`, `share_black_nh_exposure_quality`, `share_hispanic_exposure`, `share_hispanic_exposure_quality`, `share_other_nh_exposure`, `share_other_nh_exposure_quality`, `share_white_nh_exposure`, `share_white_nh_exposure_quality`

Disaggregation: None

2.7.1.1 Variable: `share_black_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.12

0.93

0.84

1.00

453

Data Quality

share_black_nh_exposure_quality

quality_label

n

1

Strong

1643

2

Marginal

684

3

Weak

363

NA

NA

453

2.7.1.2 Variable: `share_hispanic_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.02

0.92

0.86

1.00

91

Data Quality

share_hispanic_exposure_quality

quality_label

n

1

Strong

2165

2

Marginal

718

3

Weak

169

NA

NA

91

2.7.1.3 Variable: `share_other_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.04

0.94

0.91

1.00

65

Data Quality

share_other_nh_exposure_quality

quality_label

n

1

Strong

2013

2

Marginal

881

3

Weak

184

NA

NA

65

2.7.1.4 Variable: `share_white_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.16

0.22

0.97

2

Data Quality

share_white_nh_exposure_quality

quality_label

n

1

Strong

3127

2

Marginal

12

3

Weak

2

NA

NA

2

2.8 Predictor: Social Capital

2.8.1 Metric: Number of membership associations per 10,000 people

Variables: `count_membership_associations_per_10k`, `count_membership_associations_per_10k_qualit`

Disaggregation: None

2.8.1.1 Variable: `count_membership_associations_per_10k`

Summary

Min.

Median

Mean

Max.

NA's

1.00

11.00

11.81

59.80

152

Data Quality

count_membership_associations_per_10k_quality

quality_label

n

1

Strong

2991

NA

NA

152

2.8.2 Metric: Ratio of Facebook friends with higher socioeconomic status to Facebook friends with lower socioeconomic status ("economic connectedness")

Variables: `ratio_high_low_ses_fb_friends`, `ratio_high_low_ses_fb_friends_quality`

Disaggregation: None

2.8.2.1 Variable: `ratio_high_low_ses_fb_friends`

Summary

Min.

Median

Mean

Max.

NA's

0.29

0.81

0.81

1.36

126

Data Quality

ratio_high_low_ses_fb_friends_quality

quality_label

n

1

Strong

3017

NA

NA

126

2.9 Predictor: Transportation Access

2.9.1 Metric: Transit trips index

Variables: `transportation_cost`, `transportation_cost_quality`, `index_transit_trips`, `index_transit_trips_quality`

Disaggregation: Race share

2.9.1.1 Variable: `index_transit_trips`

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.70

23.12

98.72

2

Data Quality

index_transit_trips_quality

quality_label

n

1

Strong

3132

2

Marginal

5

3

Weak

4

NA

NA

2

2.9.1.2 Variable: `transportation_cost`

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.21

24.04

98.24

2

Data Quality

transportation_cost_quality

quality_label

n

1

Strong

3131

2

Marginal

6

3

Weak

4

NA

NA

2

2.10 Predictor: Access to Preschool

2.10.1 Metric: Share of 3- to 4-year-olds enrolled in nursery school or preschool

Variables: `share_in_preschool`, `share_in_preschool_quality`

Disaggregation: Race/ethnicity

2.10.1.1 Variable: `share_in_preschool`

Summary

Min.

Median

Mean

Max.

NA's

0.01

0.37

0.37

0.83

6

Data Quality

share_in_preschool_quality

quality_label

n

1

Strong

415

2

Marginal

1595

3

Weak

1131

NA

NA

2

2.11 Predictor: Effective Public Education

2.11.1 Metric: Average per grade change in English Language Arts achievement between third and eighth grades

Variables: `rate_learning`, `rate_learning_lb`, `rate_learning_ub`, `rate_learning_quality`

Disaggregation: Race/ethnicity, Income

2.11.1.1 Variable: `rate_learning`

Summary

Min.

Median

Mean

Max.

NA's

−1.25

0.96

0.96

2.72

104

Data Quality

rate_learning_quality

quality_label

n

1

Strong

2513

2

Marginal

184

3

Weak

342

NA

NA

104

2.12 Predictor: School Economic Diversity

2.12.1 Metric: Share of students attending high-poverty schools, by student race or ethnicity

Variables: `meps20_black`, `meps20_black_quality`, `meps20_hispanic`, `meps20_hispanic_quality`, `meps20_white`, `meps20_white_quality`

Disaggregation: None

2.12.1.1 Variable: `meps20_black`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.42

0.44

1.00

98

Data Quality

meps20_black_quality

quality_label

n

1

Strong

2065

2

Marginal

334

3

Weak

646

NA

NA

98

2.12.1.2 Variable: `meps20_hispanic`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.41

0.43

1.00

21

Data Quality

meps20_hispanic_quality

quality_label

n

1

Strong

2718

2

Marginal

185

3

Weak

219

NA

NA

21

2.12.1.3 Variable: `meps20_white`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.26

0.36

1.00

6

Data Quality

meps20_white_quality

quality_label

n

1

Strong

3103

2

Marginal

18

3

Weak

16

NA

NA

6

2.13 Predictor: Preparation for College

2.13.1 Metric: Share of 19- and 20-year-olds with a high school degree

Variables: `share_hs_degree`, `share_hs_degree_quality`

Disaggregation: Race/ethnicity

2.13.1.1 Variable: `share_hs_degree`

Summary

Min.

Median

Mean

Max.

NA's

0.40

0.92

0.90

1.00

3

Data Quality

share_hs_degree_quality

quality_label

n

1

Strong

472

2

Marginal

1749

3

Weak

920

NA

NA

2

2.14 Predictor: Digital Access

2.14.1 Metric: Share of households with broadband access in the home

Variables: `share_digital_access`, `share_digital_access_quality`

Disaggregation: Race

2.14.1.1 Variable: `share_digital_access`

Summary

Min.

Median

Mean

Max.

NA's

0.23

0.84

0.82

0.99

2

Data Quality

share_digital_access_quality

quality_label

n

1

Strong

3080

2

Marginal

55

3

Weak

6

NA

NA

2

2.15 Predictor: Employment Opportunities

2.15.1 Metric: Employment-to-population ratio for adults ages 25 to 54

Variables: `share_employed`, `share_employed_quality`

Disaggregation: Race/ethnicity

2.15.1.1 Variable: `share_employed`

Summary

Min.

Median

Mean

Max.

NA's

0.41

0.78

0.77

0.93

536

Data Quality

share_employed_quality

quality_label

n

1

Strong

560

2

Marginal

454

3

Weak

2129

2.16 Predictor: Jobs Paying Living Wages

2.16.1 Metric: Ratio of pay on the average job to the cost of living

Variables: `ratio_average_to_living_wage`, `wage_ratio_quality`

Disaggregation: None

2.16.1.1 Variable: `ratio_average_to_living_wage`

Summary

Min.

Median

Mean

Max.

NA's

0.36

0.61

0.62

1.53

3

Data Quality

ratio_average_to_living_wage_quality

quality_label

n

1

Strong

3126

3

Weak

15

NA

NA

2

2.17 Predictor: Opportunities for Income

2.17.1 Metric: Household income at the 20th, 50th, and 80th percentiles

Variables: `pctl_income_20`, `pctl_income_50`, `pctl_income_80`, `pctl_income_quality`

Disaggregation: Race/ethnicity

2.17.1.1 Variable: `pctl_income_20`

Summary

Min.

Median

Mean

Max.

NA's

10,029.44

24,474.99

25,274.78

79,202.52

361

Data Quality

pctl_income_quality

quality_label

n

1

Strong

560

2

Marginal

454

3

Weak

2129

2.17.1.2 Variable: `pctl_income_50`

Summary

Min.

Median

Mean

Max.

NA's

26,125.96

58,173.86

59,756.76

174,000.23

361

Data Quality

pctl_income_quality

quality_label

n

1

Strong

560

2

Marginal

454

3

Weak

2129

2.17.1.3 Variable: `pctl_income_80`

Summary

Min.

Median

Mean

Max.

NA's

67,533.22

110,158.70

115,066.49

329,496.85

361

Data Quality

pctl_income_quality

quality_label

n

1

Strong

560

2

Marginal

454

3

Weak

2129

2.18 Predictor: Financial Security

2.18.1 Metric: Share with debt in collections

Variables: `share_debt_col`, `share_debt_col_lb`, `share_debt_col_ub`, `share_debt_col_quality`

Disaggregation: Race share

2.18.1.1 Variable: `share_debt_col`

Summary

Min.

Median

Mean

Max.

NA's

0.02

0.28

0.28

0.64

85

Data Quality

share_debt_col_quality

quality_label

n

1

Strong

3058

NA

NA

85

2.19 Predictor: Wealth Building Opportunities

2.19.1 Metric: Ratio of the share of a community's housing value held by a racial or ethnic group to the share of households of the same group

Variables: `ratio_black_nh_house_value_households`, `ratio_hispanic_house_value_households`, `ratio_other_nh_house_value_households`, `ratio_white_nh_house_value_households`, `ratio_black_nh_house_value_households_quality`, `ratio_hispanic_house_value_households_quality`, `ratio_other_nh_house_value_households_quality`, `ratio_white_nh_house_value_households_quality`

Disaggregation: None

2.19.1.1 Variable: `ratio_black_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:0.0%

NA

NA

9.9%:22.0%

5

Data Quality

ratio_black_nh_house_value_households_quality

quality_label

n

1

Strong

265

2

Marginal

106

3

Weak

2767

NA

NA

5

2.19.1.2 Variable: `ratio_hispanic_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:0.0%

NA

NA

93.2%:93.3%

5

Data Quality

ratio_hispanic_house_value_households_quality

quality_label

n

1

Strong

299

2

Marginal

67

3

Weak

2772

NA

NA

5

2.19.1.3 Variable: `ratio_other_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.2%:1.8%

NA

NA

9.9%:10.4%

5

Data Quality

ratio_other_nh_house_value_households_quality

quality_label

n

1

Strong

366

2

Marginal

163

3

Weak

2609

NA

NA

5

2.19.1.4 Variable: `ratio_white_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

10.1%:8.1%

NA

NA

99.5%:96.4%

5

Data Quality

ratio_white_nh_house_value_households_quality

quality_label

n

1

Strong

559

2

Marginal

455

3

Weak

2124

NA

NA

5

2.20 Predictor: Access to Health Services

2.20.1 Metric: Ratio of population per primary care physician

Variables: `ratio_population_pc_physician`, `ratio_population_pc_physician_quality`

Disaggregation: None

2.20.1.1 Variable: `ratio_population_pc_physician`

Summary

Min.

Median

Mean

Max.

NA's

0

2195:1

NA

999:1

2

Data Quality

ratio_population_pc_physician_quality

quality_label

n

1

Strong

2352

2

Marginal

427

3

Weak

207

NA

NA

157

2.21 Predictor: Neonatal Health

2.21.1 Metric: Share of low-weight births

Variables: `rate_low_birth_weight`, `rate_low_birth_weight_lb`, `rate_low_birth_weight_ub`, `rate_low_birth_weight_quality`

Disaggregation: Race/ethnicity

2.21.1.1 Variable: `rate_low_birth_weight`

Summary

Min.

Median

Mean

Max.

NA's

0.04

0.08

0.08

0.15

0

Data Quality

rate_low_birth_weight_quality

quality_label

n

1

Strong

577

2

Marginal

1

3

Weak

2565

2.22 Predictor: Environmental Quality

2.22.1 Metric: Air quality index

Variables: `index_air_quality`, `index_air_quality_quality`

Disaggregation: Race share

2.22.1.1 Variable: `index_air_quality`

Summary

Min.

Median

Mean

Max.

NA's

0.00

64.00

62.96

100.00

2

Data Quality

index_air_quality_quality

quality_label

n

1

Strong

3141

NA

NA

2

2.23 Predictor: Safety from Trauma

2.23.1 Metric: Number of deaths caused by injury per 100,000 people

Variables: `rate_injury_death`, `rate_injury_death_lb`, `rate_injury_death_ub`, `rate_injury_death_quality`

Disaggregation: None

2.23.1.1 Variable: `rate_injury_death`

Summary

Min.

Median

Mean

Max.

NA's

19.93

89.38

92.05

280.11

107

Data Quality

rate_injury_death_quality

quality_label

n

1

Strong

2630

2

Marginal

372

3

Weak

34

NA

NA

107

2.24 Predictor: Political Participation

2.24.1 Metric: Share of the voting-eligible population who turn out to vote

Variables: `share_election_turnout`, `share_election_turnoutt_quality`

Disaggregation: None

2.24.1.1 Variable: `share_election_turnout`

Summary

Min.

Median

Mean

Max.

NA's

0.19

0.66

0.66

1.00

31

Data Quality

share_election_turnout_quality

quality_label

n

1

Strong

3021

2

Marginal

81

3

Weak

10

NA

NA

31

2.25 Predictor: Descriptive Representation

2.25.1 Metric: Ratio of the share of local elected officials of a racial or ethnic group to the share of residents of the same racial or ethnic group

Variables: `share_desc_rep_asian_other`, `share_desc_rep_asian_other_quality`, `share_desc_rep_black_nonhispanic`, `share_desc_rep_hispanic`, `share_desc_rep_white_nonhispanic`

Disaggregation: None

2.26 Predictor: Safety from Crime

2.26.1 Metric: Rates of reported violent crime and property crime

Variables: `rate_violent_crime`, `rate_property_crime`, `rate_crime_quality`

Disaggregation: None

2.26.1.1 Variable: `rate_violent_crime`

Summary

Min.

Median

Mean

Max.

NA's

0.00

708.72

825.03

12,968.59

443

Data Quality

rate_crime_quality

quality_label

n

1

Strong

920

2

Marginal

492

3

Weak

1288

NA

NA

443

2.26.1.2 Variable: `rate_property_crime`

Summary

Min.

Median

Mean

Max.

NA's

0.00

1,539.04

1,831.17

21,686.75

443

Data Quality

rate_crime_quality

quality_label

n

1

Strong

920

2

Marginal

492

3

Weak

1288

NA

NA

443

2.27 Predictor: Just Policing

2.27.1 Metric: Rate of juvenile justice arrests

Variables: `rate_juv_arrest`, `rate_juv_arrest_quality`

Disaggregation: Race

2.27.1.1 Variable: `rate_juv_arrest`

Summary

Min.

Median

Mean

Max.

NA's

0.00

549.20

1,070.43

19,073.87

459

Data Quality

rate_juv_arrest_quality

quality_label

n

1

Strong

864

2

Marginal

480

3

Weak

1340

NA

NA

459

3 County Race/Ethnicity Data

3.1 Year

`year`

3.2 State

`state` `state_name`

3.3 County

`county` `county_name`

3.4 Population

`population`

3.5 Predictor: Access to Preschool

3.5.1 Metric: Share of 3- to 4-year-olds enrolled in nursery school or preschool

Variables: `share_in_preschool`, `share_in_preschool_quality`

Years: 2018, 2021

3.5.1.1 Variable: `share_in_preschool`

Summary

Min.

Median

Mean

Max.

NA's

0.03

0.41

0.42

0.87

141190

Data Quality

share_in_preschool_quality

quality_label

n

1

Strong

2307

2

Marginal

8040

3

Weak

5613

NA

NA

141190

3.6 Predictor: Effective Public Education

3.6.1 Metric: Average per grade change in English Language Arts achievement between third and eighth grades

Variables: `rate_learning`, `rate_learning_lb`, `rate_learning_ub`, `rate_learning_quality`

Years: 2013, 2014, 2015, 2016, 2017

3.6.1.1 Variable: `rate_learning`

Summary

Min.

Median

Mean

Max.

NA's

−1.89

1.00

1.00

3.10

113428

Data Quality

rate_learning_quality

quality_label

n

1

Strong

34495

2

Marginal

2791

3

Weak

6436

NA

NA

113428

3.7 Predictor: Preparation for College

3.7.1 Metric: Share of 19- and 20-year-olds with a high school degree

Variables: `share_hs_degree`, `share_hs_degree_quality`

Years: 2018, 2021

3.7.1.1 Variable: `share_hs_degree`

Summary

Min.

Median

Mean

Max.

NA's

0.48

0.90

0.89

1.00

140940

Data Quality

share_hs_degree_quality

quality_label

n

1

Strong

2349

2

Marginal

7004

3

Weak

6857

NA

NA

140940

3.8 Predictor: Employment Opportunities

3.8.1 Metric: Employment-to-population ratio for adults ages 25 to 54

Variables: `share_employed`, `share_employed_quality`

Years: 2018, 2021

3.8.1.1 Variable: `share_employed`

Summary

Min.

Median

Mean

Max.

NA's

0.44

0.77

0.77

0.98

137807

Data Quality

share_employed_quality

quality_label

n

1

Strong

4713

2

Marginal

2364

3

Weak

12266

NA

NA

137807

3.9 Predictor: Opportunities for Income

3.9.1 Metric: Household income at the 20th, 50th, and 80th percentiles

Variables: `pctl_income_20`, `pctl_income_50`, `pctl_income_80`, `pctl_income_quality`

Years: 2018, 2021

3.9.1.1 Variable: `pctl_income_20`

Summary

Min.

Median

Mean

Max.

NA's

0.00

23,033.00

23,626.56

98,051.63

138036

Data Quality

pctl_income_quality

quality_label

n

1

Strong

4562

2

Marginal

2335

3

Weak

12217

NA

NA

138036

3.9.1.2 Variable: `pctl_income_50`

Summary

Min.

Median

Mean

Max.

NA's

15,657.98

53,057.59

54,817.86

205,149.76

138036

Data Quality

pctl_income_quality

quality_label

n

1

Strong

4562

2

Marginal

2335

3

Weak

12217

NA

NA

138036

3.9.1.3 Variable: `pctl_income_80`

Summary

Min.

Median

Mean

Max.

NA's

35,332.91

101,835.46

105,571.48

367,317.59

138036

Data Quality

pctl_income_quality

quality_label

n

1

Strong

4562

2

Marginal

2335

3

Weak

12217

NA

NA

138036

3.10 Predictor: Neonatal Health

3.10.1 Metric: Share with low birth weight

Variables: `rate_low_birth_weight`, `rate_low_birth_weight_lb`, `rate_low_birth_weight_ub`, `rate_low_birth_weight_quality`

Years: 2018, 2020

3.10.1.1 Variable: `rate_low_birth_weight`

Summary

Min.

Median

Mean

Max.

NA's

0.03

0.08

0.09

0.35

127468

Data Quality

rate_low_birth_weight_quality

quality_label

n

1

Strong

3853

2

Marginal

985

3

Weak

26582

NA

NA

125730

4 County Race Data

4.1 Year

year

4.2 State

state state_name

4.3 County

county county_name

4.4 Population

population

4.5 Predictor: Digital Access

4.5.1 Metric: Share of households with broadband access in the home

Variables: share_digital_access, share_digital_access_quality

Years: 2021

4.5.1.1 Variable: `share_digital_access`

Summary

Min.

Median

Mean

Max.

NA's

0.05

0.84

0.81

1.00

32712

Data Quality

share_digital_access_quality

quality_label

n

1

Strong

10365

2

Marginal

2233

3

Weak

1835

NA

NA

32712

4.6 Predictor: Just Policing

4.6.1 Metric: Rate of juvenile justice arrests

Variables: `rate_juv_arrest`, `rate_juv_arrest_quality`

Years: 2021

4.6.1.1 Variable: `rate_juv_arrest`

Summary

Min.

Median

Mean

Max.

NA's

0.00

263.06

1,354.53

178,274.24

35454

Data Quality

rate_juv_arrest_quality

quality_label

n

1

Strong

3615

2

Marginal

2330

3

Weak

5746

NA

NA

35454

5 County Poverty Exposure Data

5.1 Predictor: Economic Inclusion

5.1.1 Metric: Share of residents experiencing poverty living in high-poverty neighborhoods

Variables: `share_poverty_exposure`, `share_poverty_exposure_quality`

Years: 2018, 2021

5.1.1.1 Variable: `share_poverty_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.05

1.00

3994

Data Quality

share_poverty_exposure_quality

quality_label

n

1

Strong

15449

2

Marginal

7048

3

Weak

4934

NA

NA

3994

6 County Race Share Data

6.1 Predictor: Transportation Access

6.1.1 Metric: Transit trips index

Variables: `transportation_cost`, `transportation_cost_quality`, `index_transit_trips`, `index_transit_trips_quality`

Years: 2016

6.1.1.1 Variable: `index_transit_trips`

Summary

Min.

Median

Mean

Max.

NA's

0.00

20.46

25.58

98.97

29456

Data Quality

index_transit_trips_quality

quality_label

n

1

Strong

7217

2

Marginal

590

3

Weak

441

NA

NA

29456

6.1.1.2 Variable: `transportation_cost`

Summary

Min.

Median

Mean

Max.

NA's

0.00

20.11

26.38

98.49

29456

Data Quality

transportation_cost_quality

quality_label

n

1

Strong

7217

2

Marginal

590

3

Weak

441

NA

NA

29456

6.2 Predictor: Financial Security

6.2.1 Metric: Share with debt in collections

Variables: `share_debt_col`, `share_debt_col_lb`, `share_debt_col_ub`, `share_debt_col_quality`

Years: 2018

6.2.1.1 Variable: `share_debt_col`

Summary

Min.

Median

Mean

Max.

NA's

0.05

0.32

0.33

0.82

31599

Data Quality

share_debt_col_quality

quality_label

n

1

Strong

6105

NA

NA

31599

6.3 Predictor: Environmental Quality

6.3.1 Metric: Air quality index

Variables: `index_air_quality`, `index_air_quality_quality`

Years: 2014, 2018

6.3.1.1 Variable: `index_air_quality`

Summary

Min.

Median

Mean

Max.

NA's

0.00

65.00

62.30

100.00

21203

Data Quality

index_air_quality_quality

quality_label

n

1

Strong

16497

2

Marginal

4

NA

NA

21203

Part IX

City Data Sets

The mobility metrics are contained in several distinct data sets. The data sets are organized according to the principles of tidy data and each data set has a unique unit of observation.

Part X

05_mobility-metrics_place_longitudinal.csv

- **Unit of Observation:** One row per city per year.
- **Dimensions:** 3,888 rows and 76 columns
- **Years:** 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

This data set contains all of the city-level mobility metrics for all available years. In some cases it will contain more years of data than are available in the mobility metrics data pages.

Part XI

05_mobility-metrics_place_recent.csv

- **Unit of Observation:** One row per city.
- **Dimensions:** 486 rows and 75 columns

This data set contains all of the city-level mobility metrics for the most recent year available for each metric. For example, if one metric is available in 2018 and another metric is available in 2021, both metrics will show up in the same row in this data set.

Part XII

06_mobility-metrics_place_race-ethnicity_longitudinal.csv

- **Unit of Observation:** One row per city per race-ethnicity group per year.
- **Dimensions:** 24,300 rows and 30 columns
- **Years:** 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022

This data set contains mobility metrics disaggregated by race/ethnicity group when available.

Part XIII

07_mobility-metrics_place_race_longitudinal.csv

- **Unit of Observation:** One row per city per race group per year.
- **Dimensions:** 2,430 rows and 11 columns
- **Years:** 2021

This data set contains mobility metrics disaggregated by race group when available.

Part XIV

07_poverty-exposure_city_subgroup.csv

- **Unit of Observation:** One row per city per race group per year.
- **Dimensions:** 2,430 rows and 9 columns
- **Years:** 2021

This data set contains special race and ethnicity tabulations for the economic inclusion mobility metric.

Part XV

09_place_environmental-exposure_poverty_longitudinal.csv

- **Unit of Observation:** One row per city per majority race group in a subgeography per year.
- **Dimensions:** 2,907 rows and 9 columns
- **Years:** 2018, 2014

This data set contains mobility metrics disaggregated by the majority race of the subgeographies in the city.

Part XVI

09_place_SEDA-income_longitudinal.csv

- **Unit of Observation:** One row per city per majority race group in a subgeography per year.
- **Dimensions:** 2,910 rows and 11 columns
- **Years:** 2017, 2016

This data set contains mobility metrics disaggregated using special disaggregations for SEDA data.

The next sections provide detailed documentation for each data set.

7 City Longitudinal Data

7.1 Year

year

7.2 State

state state_name

7.3 County

county county_name

7.4 Population

population

7.5 Predictor: Housing Affordablility

7.5.1 Metric: Ratio of affordable and available housing units to households with low-, very low–, and extremely low income levels

Variables: share_affordable_30_ami, share_affordable_50_ami, share_affordable_80_ami, share_affordable_quality

Years: 2021

Disaggregation: None

7.5.1.1 Variable: `share_affordable_30_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.39

1.05

1.13

3.43

3402

Data Quality

share_affordable_quality

quality_label

n

1

Strong

220

2

Marginal

247

3

Weak

19

NA

NA

3402

7.5.1.2 Variable: `share_affordable_50_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.65

1.25

1.30

2.85

3402

Data Quality

share_affordable_quality

quality_label

n

1

Strong

220

2

Marginal

247

3

Weak

19

NA

NA

3402

7.5.1.3 Variable: `share_affordable_80_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.87

1.48

1.50

2.70

3402

Data Quality

share_affordable_quality

quality_label

n

1

Strong

220

2

Marginal

247

3

Weak

19

NA

NA

3402

7.6 Predictor: Housing Stability

7.6.1 Metric: Number and share of public school children who are ever homeless during the school year

Variables: `count_homeless`, `share_homeless`, `count_homeless_lb`, `count_homeless_ub`, `homeless_quality`

Years: 2016, 2017, 2018, 2019

Disaggregation: None

7.6.1.1 Variable: `count_homeless`

Summary

Min.

Median

Mean

Max.

NA's

1

710

1,448

53,661

2175

Data Quality

homeless_quality

quality_label

n

1

Strong

1691

2

Marginal

6

3

Weak

16

NA

NA

2175

7.6.1.2 Variable: `share_homeless`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.02

0.03

0.92

2175

Data Quality

homeless_quality

quality_label

n

1

Strong

1691

2

Marginal

6

3

Weak

16

NA

NA

2175

7.7 Predictor: Economic Inclusion

7.7.1 Metric: Share of residents experiencing poverty living in high-poverty neighborhoods

Variables: `share_poverty_exposure`, `share_poverty_exposure_quality`

Years: 2021

Disaggregation: Race

7.7.1.1 Variable: `share_poverty_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.09

0.61

3402

Data Quality

share_poverty_exposure_quality

quality_label

n

1

Strong

452

2

Marginal

34

NA

NA

3402

7.8 Predictor: Racial Diversity

7.8.1 Metric: Neighborhood exposure index, or the share of a person's neighbors who are people of other races and ethnicities

Variables: `share_black_nh_exposure`, `share_black_nh_exposure_quality`, `share_hispanic_exposure`, `share_hispanic_exposure_quality`, `share_other_nh_exposure`, `share_other_nh_exposure_quality`, `share_white_nh_exposure`, `share_white_nh_exposure_quality`

Years: 2021

Disaggregation: None

7.8.1.1 Variable: `share_black_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.08

0.86

0.79

1.00

3402

Data Quality

share_black_nh_exposure_quality

quality_label

n

1

Strong

444

2

Marginal

40

3

Weak

2

NA

NA

3402

7.8.1.2 Variable: `share_hispanic_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.04

0.72

0.68

0.97

3402

Data Quality

share_hispanic_exposure_quality

quality_label

n

1

Strong

485

2

Marginal

1

NA

NA

3402

7.8.1.3 Variable: `share_other_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.21

0.87

0.83

0.99

3402

Data Quality

share_other_nh_exposure_quality

quality_label

n

1

Strong

478

2

Marginal

7

3

Weak

1

NA

NA

3402

7.8.1.4 Variable: `share_white_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.12

0.42

0.46

0.99

3402

Data Quality

share_white_nh_exposure_quality

quality_label

n

1

Strong

486

NA

NA

3402

7.9 Predictor: Social Capital

7.9.1 Metric: Number of membership associations per 10,000 people

Variables: `count_membership_associations_per_10k`, `count_membership_associations_per_10k_qualit`

Years: 2020

Disaggregation: None

7.9.1.1 Variable: `count_membership_associations_per_10k`

Summary

Min.

Median

Mean

Max.

NA's

0.00

1.60

1.92

7.80

3402

Data Quality

count_membership_associations_per_10k_quality

quality_label

n

1

Strong

157

2

Marginal

329

NA

NA

3402

7.9.2 Metric: Ratio of Facebook friends with higher socioeconomic status to Facebook friends with lower socioeconomic status ("economic connectedness")

Variables: `ratio_high_low_ses_fb_friends`, `ratio_high_low_ses_fb_friends_quality`

Years: 2020

Disaggregation: None

7.9.2.1 Variable: `ratio_high_low_ses_fb_friends`

Summary

Min.

Median

Mean

Max.

NA's

0.42

0.85

0.87

1.56

3402

Data Quality

ratio_high_low_ses_fb_friends_quality

quality_label

n

1

Strong

13

2

Marginal

108

3

Weak

364

NA

NA

3403

7.10 Predictor: Access to Preschool

7.10.1 Metric: Share of 3- to 4-year-olds enrolled in nursery school or preschool

Variables: `share_in_preschool`, `share_in_preschool_quality`

Years: 2021

Disaggregation: Race/ethnicity

7.10.1.1 Variable: `share_in_preschool`

Summary

Min.

Median

Mean

Max.

NA's

0.05

0.38

0.39

0.86

3402

Data Quality

share_in_preschool_quality

quality_label

n

1

Strong

195

2

Marginal

213

3

Weak

78

NA

NA

3402

7.11 Predictor: Effective Public Education

7.11.1 Metric: Average per grade change in English Language Arts achievement between third and eighth grades

Variables: `rate_learning`, `rate_learning_lb`, `rate_learning_ub`, `rate_learning_quality`

Years: 2016, 2017

Disaggregation: Race/ethnicity, Income

7.11.1.1 Variable: `rate_learning`

Summary

Min.

Median

Mean

Max.

NA's

0.29

1.02

1.02

1.99

3089

Data Quality

rate_learning_quality

quality_label

n

1

Strong

675

2

Marginal

57

3

Weak

67

NA

NA

3089

7.12 Predictor: School Economic Diversity

7.12.1 Metric: Share of students attending high-poverty schools, by student race or ethnicity

Variables: `meps20_black`, `meps20_black_quality`, `meps20_hispanic`, `meps20_hispanic_quality`, `meps20_white`, `meps20_white_quality`

Years: 2016, 2017, 2018

Disaggregation: None

7.12.1.1 Variable: `meps20_black`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.52

0.48

1.00

2441

Data Quality

meps20_black_quality

quality_label

n

1

Strong

1441

2

Marginal

3

3

Weak

3

NA

NA

2441

7.12.1.2 Variable: `meps20_hispanic`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.52

0.50

1.00

2441

Data Quality

meps20_hispanic_quality

quality_label

n

1

Strong

1446

2

Marginal

1

NA

NA

2441

7.12.1.3 Variable: `meps20_white`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.21

0.30

1.00

2441

Data Quality

meps20_white_quality

quality_label

n

1

Strong

1447

NA

NA

2441

7.13 Predictor: Preparation for College

7.13.1 Metric: Share of 19- and 20-year-olds with a high school degree

Variables: `share_hs_degree`, `share_hs_degree_quality`

Years: 2021

Disaggregation: Race/ethnicity

7.13.1.1 Variable: `share_hs_degree`

Summary

Min.

Median

Mean

Max.

NA's

0.53

0.92

0.91

1.00

3402

Data Quality

share_hs_degree_quality

quality_label

n

1

Strong

210

2

Marginal

225

3

Weak

51

NA

NA

3402

7.14 Predictor: Digital Access

7.14.1 Metric: Share of households with broadband access in the home

Variables: `share_digital_access`, `share_digital_access_quality`

Years: 2021

Disaggregation: Race

7.14.1.1 Variable: `share_digital_access`

Summary

Min.

Median

Mean

Max.

NA's

0.66

0.90

0.89

0.98

3402

Data Quality

share_digital_access_quality

quality_label

n

1

Strong

486

NA

NA

3402

7.15 Predictor: Employment Opportunities

7.15.1 Metric: Employment-to-population ratio for adults ages 25 to 54

Variables: `share_employed`, `share_employed_quality`

Years: 2018, 2021

Disaggregation: Race/ethnicity

7.15.1.1 Variable: `share_employed`

Summary

Min.

Median

Mean

Max.

NA's

0.59

0.80

0.80

0.93

2918

Data Quality

share_employed_quality

quality_label

n

1

Strong

202

2

Marginal

518

3

Weak

250

NA

NA

2918

7.16 Predictor: Opportunities for Income

7.16.1 Metric: Household income at the 20th, 50th, and 80th percentiles

Variables: `pctl_income_20`, `pctl_income_50`, `pctl_income_80`, `pctl_income_quality`

Years: 2018, 2021

Disaggregation: Race/ethnicity

7.16.1.1 Variable: `pctl_income_20`

Summary

Min.

Median

Mean

Max.

NA's

9,402.82

28,395.35

30,214.60

85,335.99

2918

Data Quality

pctl_income_quality

quality_label

n

1

Strong

202

2

Marginal

518

3

Weak

250

NA

NA

2918

7.16.1.2 Variable: `pctl_income_50`

Summary

Min.

Median

Mean

Max.

NA's

29,811.44

66,341.43

70,880.86

185,322.84

2918

Data Quality

pctl_income_quality

quality_label

n

1

Strong

202

2

Marginal

518

3

Weak

250

NA

NA

2918

7.16.1.3 Variable: `pctl_income_80`

Summary

Min.

Median

Mean

Max.

NA's

56,651.46

127,380.00

137,838.42

424,754.42

2918

Data Quality

pctl_income_quality

quality_label

n

1

Strong

202

2

Marginal

518

3

Weak

250

NA

NA

2918

7.17 Predictor: Financial Security

7.17.1 Metric: Share with debt in collections

Variables: `share_debt_col`, `share_debt_col_lb`, `share_debt_col_ub`, `share_debt_col_quality`

Years: 2021

Disaggregation: None

7.17.1.1 Variable: `share_debt_col`

Summary

Min.

Median

Mean

Max.

NA's

0.12

0.32

0.33

0.58

3784

Data Quality

share_debt_col_quality

quality_label

n

1

Strong

104

NA

NA

3784

7.18 Predictor: Wealth Building Opportunities

7.18.1 Metric: Ratio of the share of a community's housing wealth held by a racial or ethnic group to the share of households of the same group

Variables: `ratio_black_nh_house_value_households`, `ratio_hispanic_house_value_households`, `ratio_other_nh_house_value_households`, `ratio_white_nh_house_value_households`, `ratio_black_nh_house_value_households_quality`, `ratio_hispanic_house_value_households_quality`, `ratio_other_nh_house_value_households_quality`, `ratio_white_nh_house_value_households_quality`

Years: 2014, 2015, 2016, 2017, 2018, 2019, 2021

Disaggregation: None

7.18.1.1 Variable: `ratio_black_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:0.0%

NA

NA

9.9%:9.3%

486

Data Quality

ratio_black_nh_house_value_households_quality

quality_label

n

1

Strong

549

2

Marginal

930

3

Weak

1923

NA

NA

486

7.18.1.2 Variable: `ratio_hispanic_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:0.7%

NA

NA

96.8%:95.7%

486

Data Quality

ratio_hispanic_house_value_households_quality

quality_label

n

1

Strong

510

2

Marginal

1168

3

Weak

1724

NA

NA

486

7.18.1.3 Variable: `ratio_other_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:0.0%

NA

NA

9.9%:9.6%

486

Data Quality

ratio_other_nh_house_value_households_quality

quality_label

n

1

Strong

547

2

Marginal

1215

3

Weak

1640

NA

NA

486

7.18.1.4 Variable: `ratio_white_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.7%:1.3%

NA

NA

99.3%:89.6%

486

Data Quality

ratio_white_nh_house_value_households_quality

quality_label

n

1

Strong

720

2

Marginal

1456

3

Weak

1226

NA

NA

486

7.19 Predictor: Environmental Quality

7.19.1 Metric: Air quality index

Variables: `index_air_quality`, `index_air_quality_quality`

Years: 2014, 2018

Disaggregation: Race share

7.19.1.1 Variable: `index_air_quality`

Summary

Min.

Median

Mean

Max.

NA's

0.00

40.00

40.19

96.00

2922

Data Quality

index_air_quality_quality

quality_label

n

1

Strong

966

NA

NA

2922

7.20 Predictor: Political Participation

7.20.1 Metric: Share of the voting-eligible population who turn out to vote

Variables: `share_election_turnout`, `share_election_turnoutt_quality`

Years: 2020

Disaggregation: None

7.20.1.1 Variable: `share_election_turnout`

Summary

Min.

Median

Mean

Max.

NA's

0.29

0.64

0.64

0.94

3402

Data Quality

share_election_turnout_quality

quality_label

n

1

Strong

408

2

Marginal

42

3

Weak

36

NA

NA

3402

7.21 Predictor: Descriptive Representation

7.21.1 Metric: Ratio of the share of local elected officials of a racial or ethnic group to the share of residents of the same racial or ethnic group

Variables: `share_desc_rep_asian_other`, `share_desc_rep_asian_other_quality`, `share_desc_rep_black_nonhispanic`, `share_desc_rep_hispanic`, `share_desc_rep_white_nonhispanic`

Years: 2021

Disaggregation: None

7.22 Predictor: Safety from Crime

7.22.1 Metric: Rates of reported violent crime and property crime

Variables: `rate_violent_crime`, `rate_property_crime`, `rate_crime_quality`

Years: 2021

Disaggregation: None

7.22.1.1 Variable: `rate_violent_crime`

Summary

Min.

Median

Mean

Max.

NA's

0.00

1,240.61

1,448.08

13,765.64

3574

Data Quality

rate_crime_quality

quality_label

n

1

Strong

209

2

Marginal

75

3

Weak

30

NA

NA

3574

7.22.1.2 Variable: `rate_property_crime`

Summary

Min.

Median

Mean

Max.

NA's

0.00

3,434.57

3,875.26

22,171.84

3574

Data Quality

rate_crime_quality

quality_label

n

1

Strong

209

2

Marginal

75

3

Weak

30

NA

NA

3574

7.23 Predictor: Just Policing

7.23.1 Metric: Rate of juvenile justice arrests

Variables: `rate_juv_arrest`, `rate_juv_arrest_quality`

Years: 2021

Disaggregation: Race

7.23.1.1 Variable: `rate_juv_arrest`

Summary

Min.

Median

Mean

Max.

NA's

0.00

1,030.99

1,386.13

11,169.73

3578

Data Quality

rate_juv_arrest_quality

quality_label

n

1

Strong

199

2

Marginal

83

3

Weak

28

NA

NA

3578

8 City Recent Data

8.1 Year

year

8.2 State

state state_name

8.3 County

county county_name

8.4 Population

population

8.5 Predictor: Housing Affordablility

8.5.1 Metric: Ratio of affordable and available housing units to households with low-, very low–, and extremely low income levels

Variables: share_affordable_30_ami, share_affordable_50_ami, share_affordable_80_ami, share_affordable_quality

Disaggregation: None

8.5.1.1 Variable: `share_affordable_30_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.39

1.05

1.13

3.43

0

Data Quality

share_affordable_quality

quality_label

n

1

Strong

220

2

Marginal

247

3

Weak

19

8.5.1.2 Variable: `share_affordable_50_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.65

1.25

1.30

2.85

0

Data Quality

share_affordable_quality

quality_label

n

1

Strong

220

2

Marginal

247

3

Weak

19

8.5.1.3 Variable: `share_affordable_80_ami`

Summary

Min.

Median

Mean

Max.

NA's

0.87

1.48

1.50

2.70

0

Data Quality

share_affordable_quality

quality_label

n

1

Strong

220

2

Marginal

247

3

Weak

19

8.6 Predictor: Housing Stability

8.6.1 Metric: Number and share of public school children who are ever homeless during the school year

Variables: `count_homeless`, `share_homeless`, `count_homeless_lb`, `count_homeless_ub`, `homeless_quality`

Disaggregation: None

8.6.1.1 Variable: `count_homeless`

Summary

Min.

Median

Mean

Max.

NA's

1

665

1,302

21,911

56

Data Quality

homeless_quality

quality_label

n

1

Strong

425

2

Marginal

2

3

Weak

3

NA

NA

56

8.6.1.2 Variable: `share_homeless`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.02

0.03

0.32

56

Data Quality

homeless_quality

quality_label

n

1

Strong

425

2

Marginal

2

3

Weak

3

NA

NA

56

8.7 Predictor: Economic Inclusion

8.7.1 Metric: Share of residents experiencing poverty living in high-poverty neighborhoods

Variables: `share_poverty_exposure`, `share_poverty_exposure_quality`

Disaggregation: Race

8.7.1.1 Variable: `share_poverty_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.09

0.61

0

Data Quality

share_poverty_exposure_quality

quality_label

n

1

Strong

452

2

Marginal

34

8.8 Predictor: Racial Diversity

8.8.1 Metric: Neighborhood exposure index, or the share of a person's neighbors who are people of other races and ethnicities

Variables: `share_black_nh_exposure`, `share_black_nh_exposure_quality`, `share_hispanic_exposure`, `share_hispanic_exposure_quality`, `share_other_nh_exposure`, `share_other_nh_exposure_quality`, `share_white_nh_exposure`, `share_white_nh_exposure_quality`

Disaggregation: None

8.8.1.1 Variable: `share_black_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.08

0.86

0.79

1.00

0

Data Quality

share_black_nh_exposure_quality

quality_label

n

1

Strong

444

2

Marginal

40

3

Weak

2

8.8.1.2 Variable: `share_hispanic_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.04

0.72

0.68

0.97

0

Data Quality

share_hispanic_exposure_quality

quality_label

n

1

Strong

485

2

Marginal

1

8.8.1.3 Variable: `share_other_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.21

0.87

0.83

0.99

0

Data Quality

share_other_nh_exposure_quality

quality_label

n

1

Strong

478

2

Marginal

7

3

Weak

1

8.8.1.4 Variable: `share_white_nh_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.12

0.42

0.46

0.99

0

Data Quality

share_white_nh_exposure_quality

quality_label

n

1

Strong

486

8.9 Predictor: Social Capital

8.9.1 Metric: Number of membership associations per 10,000 people

Variables: `count_membership_associations_per_10k`, `count_membership_associations_per_10k_qualit`

Disaggregation: None

8.9.1.1 Variable: `count_membership_associations_per_10k`

Summary

Min.

Median

Mean

Max.

NA's

0.00

1.60

1.92

7.80

0

Data Quality

count_membership_associations_per_10k_quality

quality_label

n

1

Strong

157

2

Marginal

329

8.9.2 Metric: Ratio of Facebook friends with higher socioeconomic status to Facebook friends with lower socioeconomic status ("economic connectedness")

Variables: `ratio_high_low_ses_fb_friends`, `ratio_high_low_ses_fb_friends_quality`

Disaggregation: None

8.9.2.1 Variable: `ratio_high_low_ses_fb_friends`

Summary

Min.

Median

Mean

Max.

NA's

0.42

0.85

0.87

1.56

0

Data Quality

ratio_high_low_ses_fb_friends_quality

quality_label

n

1

Strong

13

2

Marginal

108

3

Weak

364

NA

NA

1

8.10 Predictor: Access to Preschool

8.10.1 Metric: Share of 3- to 4-year-olds enrolled in nursery school or preschool

Variables: `share_in_preschool`, `share_in_preschool_quality`

Disaggregation: Race/ethnicity

8.10.1.1 Variable: `share_in_preschool`

Summary

Min.

Median

Mean

Max.

NA's

0.05

0.38

0.39

0.86

0

Data Quality

share_in_preschool_quality

quality_label

n

1

Strong

195

2

Marginal

213

3

Weak

78

8.11 Predictor: Effective Public Education

8.11.1 Metric: Average per grade change in English Language Arts achievement between third and eighth grades

Variables: `rate_learning`, `rate_learning_lb`, `rate_learning_ub`, `rate_learning_quality`

Disaggregation: Race/ethnicity, Income

8.11.1.1 Variable: `rate_learning`

Summary

Min.

Median

Mean

Max.

NA's

0.29

0.99

1.00

1.54

88

Data Quality

rate_learning_quality

quality_label

n

1

Strong

336

2

Marginal

30

3

Weak

32

NA

NA

88

8.12 Predictor: School Economic Diversity

8.12.1 Metric: Share of students attending high-poverty schools, by student race or ethnicity

Variables: `meps20_black`, `meps20_black_quality`, `meps20_hispanic`, `meps20_hispanic_quality`, `meps20_white`, `meps20_white_quality`

Disaggregation: None

8.12.1.1 Variable: `meps20_black`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.48

0.47

1.00

3

Data Quality

meps20_black_quality

quality_label

n

1

Strong

482

3

Weak

1

NA

NA

3

8.12.1.2 Variable: `meps20_hispanic`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.47

0.48

1.00

3

Data Quality

meps20_hispanic_quality

quality_label

n

1

Strong

482

2

Marginal

1

NA

NA

3

8.12.1.3 Variable: `meps20_white`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.19

0.28

1.00

3

Data Quality

meps20_white_quality

quality_label

n

1

Strong

483

NA

NA

3

8.13 Predictor: Preparation for College

8.13.1 Metric: Share of 19- and 20-year-olds with a high school degree

Variables: `share_hs_degree`, `share_hs_degree_quality`

Disaggregation: Race/ethnicity

8.13.1.1 Variable: `share_hs_degree`

Summary

Min.

Median

Mean

Max.

NA's

0.53

0.92

0.91

1.00

0

Data Quality

share_hs_degree_quality

quality_label

n

1

Strong

210

2

Marginal

225

3

Weak

51

8.14 Predictor: Digital Access

8.14.1 Metric: Share of households with broadband access in the home

Variables: `share_digital_access`, `share_digital_access_quality`

Disaggregation: Race

8.14.1.1 Variable: `share_digital_access`

Summary

Min.

Median

Mean

Max.

NA's

0.66

0.90

0.89

0.98

0

Data Quality

share_digital_access_quality

quality_label

n

1

Strong

486

8.15 Predictor: Employment Opportunities

8.15.1 Metric: Employment-to-population ratio for adults ages 25 to 54

Variables: `share_employed`, `share_employed_quality`

Disaggregation: Race/ethnicity

8.15.1.1 Variable: `share_employed`

Summary

Min.

Median

Mean

Max.

NA's

0.59

0.80

0.79

0.93

1

Data Quality

share_employed_quality

quality_label

n

1

Strong

101

2

Marginal

259

3

Weak

125

NA

NA

1

8.16 Predictor: Opportunities for Income

8.16.1 Metric: Household income at the 20th, 50th, and 80th percentiles

Variables: `pctl_income_20`, `pctl_income_50`, `pctl_income_80`, `pctl_income_quality`

Disaggregation: Race/ethnicity

8.16.1.1 Variable: `pctl_income_20`

Summary

Min.

Median

Mean

Max.

NA's

12,290.91

30,439.98

31,744.26

85,335.99

1

Data Quality

pctl_income_quality

quality_label

n

1

Strong

101

2

Marginal

259

3

Weak

125

NA

NA

1

8.16.1.2 Variable: `pctl_income_50`

Summary

Min.

Median

Mean

Max.

NA's

34,722.11

70,065.79

74,880.55

185,322.84

1

Data Quality

pctl_income_quality

quality_label

n

1

Strong

101

2

Marginal

259

3

Weak

125

NA

NA

1

8.16.1.3 Variable: `pctl_income_80`

Summary

Min.

Median

Mean

Max.

NA's

69,867.23

134,004.89

145,697.18

424,754.42

1

Data Quality

pctl_income_quality

quality_label

n

1

Strong

101

2

Marginal

259

3

Weak

125

NA

NA

1

8.17 Predictor: Financial Security

8.17.1 Metric: Share with debt in collections

Variables: `share_debt_col`, `share_debt_col_lb`, `share_debt_col_ub`, `share_debt_col_quality`

Disaggregation: None

8.17.1.1 Variable: `share_debt_col`

Summary

Min.

Median

Mean

Max.

NA's

0.12

0.32

0.33

0.58

382

Data Quality

share_debt_col_quality

quality_label

n

1

Strong

104

NA

NA

382

8.18 Predictor: Wealth Building Opportunities

8.18.1 Metric: Ratio of the share of a community's housing wealth held by a racial or ethnic group to the share of households of the same group

Variables: `ratio_black_nh_house_value_households`, `ratio_hispanic_house_value_households`, `ratio_other_nh_house_value_households`, `ratio_white_nh_house_value_households`, `ratio_black_nh_house_value_households_quality`, `ratio_hispanic_house_value_households_quality`, `ratio_other_nh_house_value_households_quality`, `ratio_white_nh_house_value_households_quality`

Disaggregation: None

8.18.1.1 Variable: `ratio_black_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:0.0%

NA

NA

9.8%:9.9%

0

Data Quality

ratio_black_nh_house_value_households_quality

quality_label

n

1

Strong

81

2

Marginal

136

3

Weak

269

8.18.1.2 Variable: `ratio_hispanic_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.5%:2.7%

NA

NA

95.0%:95.4%

0

Data Quality

ratio_hispanic_house_value_households_quality

quality_label

n

1

Strong

79

2

Marginal

178

3

Weak

229

8.18.1.3 Variable: `ratio_other_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

0.0%:1.1%

NA

NA

9.8%:14.3%

0

Data Quality

ratio_other_nh_house_value_households_quality

quality_label

n

1

Strong

88

2

Marginal

191

3

Weak

207

8.18.1.4 Variable: `ratio_white_nh_house_value_households`

Summary

Min.

Median

Mean

Max.

NA's

1.8%:1.3%

NA

NA

94.0%:85.3%

0

Data Quality

ratio_white_nh_house_value_households_quality

quality_label

n

1

Strong

102

2

Marginal

208

3

Weak

176

8.19 Predictor: Environmental Quality

8.19.1 Metric: Air quality index

Variables: `index_air_quality`, `index_air_quality_quality`

Disaggregation: Race share

8.19.1.1 Variable: `index_air_quality`

Summary

Min.

Median

Mean

Max.

NA's

0.00

39.00

38.39

96.00

3

Data Quality

index_air_quality_quality

quality_label

n

1

Strong

483

NA

NA

3

8.20 Predictor: Political Participation

8.20.1 Metric: Share of the voting-eligible population who turn out to vote

Variables: `share_election_turnout`, `share_election_turnoutt_quality`

Disaggregation: None

8.20.1.1 Variable: `share_election_turnout`

Summary

Min.

Median

Mean

Max.

NA's

0.29

0.64

0.64

0.94

0

Data Quality

share_election_turnout_quality

quality_label

n

1

Strong

408

2

Marginal

42

3

Weak

36

8.21 Predictor: Descriptive Representation

8.21.1 Metric: Ratio of the share of local elected officials of a racial or ethnic group to the share of residents of the same racial or ethnic group

Variables: `share_desc_rep_asian_other`, `share_desc_rep_asian_other_quality`, `share_desc_rep_black_nonhispanic`, `share_desc_rep_hispanic`, `share_desc_rep_white_nonhispanic`

Disaggregation: None

8.22 Predictor: Safety from Crime

8.22.1 Metric: Rates of reported violent crime and property crime

Variables: `rate_violent_crime`, `rate_property_crime`, `rate_crime_quality`

Disaggregation: None

8.22.1.1 Variable: `rate_violent_crime`

Summary

Min.

Median

Mean

Max.

NA's

0.00

1,240.61

1,448.08

13,765.64

172

Data Quality

rate_crime_quality

quality_label

n

1

Strong

209

2

Marginal

75

3

Weak

30

NA

NA

172

8.22.1.2 Variable: `rate_property_crime`

Summary

Min.

Median

Mean

Max.

NA's

0.00

3,434.57

3,875.26

22,171.84

172

Data Quality

rate_crime_quality

quality_label

n

1

Strong

209

2

Marginal

75

3

Weak

30

NA

NA

172

8.23 Predictor: Just Policing

8.23.1 Metric: Rate of juvenile justice arrests

Variables: `rate_juv_arrest`, `rate_juv_arrest_quality`

Disaggregation: Race

8.23.1.1 Variable: `rate_juv_arrest`

Summary

Min.

Median

Mean

Max.

NA's

0.00

1,030.99

1,386.13

11,169.73

176

Data Quality

rate_juv_arrest_quality

quality_label

n

1

Strong

199

2

Marginal

83

3

Weak

28

NA

NA

176

9 City Race/Ethnicity Data

9.1 Year

year

9.2 State

state state_name

9.3 County

county county_name

9.4 Population

population

9.5 Predictor: Access to Preschool

9.5.1 Metric: Share of 3- to 4-year-olds enrolled in nursery school or preschool

Variables: share_in_preschool, share_in_preschool_quality

Years: 2021

9.5.1.1 Variable: `share_in_preschool`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.42

0.44

1.00

21887

Data Quality

share_in_preschool_quality

quality_label

n

1

Strong

850

2

Marginal

848

3

Weak

732

NA

NA

21870

9.6 Predictor: Effective Public Education

9.6.1 Metric: Average per grade change in English Language Arts achievement between third and eighth grades

Variables: `rate_learning`, `rate_learning_lb`, `rate_learning_ub`, `rate_learning_quality`

Years: 2016, 2017

9.6.1.1 Variable: `rate_learning`

Summary

Min.

Median

Mean

Max.

NA's

−2.40

1.01

1.02

2.75

21214

Data Quality

rate_learning_quality

quality_label

n

1

Strong

2308

2

Marginal

355

3

Weak

423

NA

NA

21214

9.7 Predictor: Preparation for College

9.7.1 Metric: Share of 19- and 20-year-olds with a high school degree

Variables: `share_hs_degree`, `share_hs_degree_quality`

Years: 2021

9.7.1.1 Variable: `share_hs_degree`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.93

0.91

1.00

21877

Data Quality

share_hs_degree_quality

quality_label

n

1

Strong

918

2

Marginal

901

3

Weak

611

NA

NA

21870

9.8 Predictor: Employment Opportunities

9.8.1 Metric: Employment-to-population ratio for adults ages 25 to 54

Variables: `share_employed`, `share_employed_quality`

Years: 2018, 2021

9.8.1.1 Variable: `share_employed`

Summary

Min.

Median

Mean

Max.

NA's

0.34

0.79

0.79

0.94

19658

Data Quality

share_employed_quality

quality_label

n

1

Strong

885

2

Marginal

2069

3

Weak

1895

NA

NA

19451

9.9 Predictor: Opportunities for Income

9.9.1 Metric: Household income at the 20th, 50th, and 80th percentiles

Variables: `pctl_income_20`, `pctl_income_50`, `pctl_income_80`, `pctl_income_quality`

Years: 2018, 2021

9.9.1.1 Variable: `pctl_income_20`

Summary

Min.

Median

Mean

Max.

NA's

41.07

26,677.70

28,754.30

110,595.55

19699

Data Quality

pctl_income_quality

quality_label

n

1

Strong

877

2

Marginal

1975

3

Weak

1998

NA

NA

19450

9.9.1.2 Variable: `pctl_income_50`

Summary

Min.

Median

Mean

Max.

NA's

15,521.68

62,280.00

66,586.34

221,184.34

19699

Data Quality

pctl_income_quality

quality_label

n

1

Strong

877

2

Marginal

1975

3

Weak

1998

NA

NA

19450

9.9.1.3 Variable: `pctl_income_80`

Summary

Min.

Median

Mean

Max.

NA's

39,815.06

119,012.27

127,859.33

436,757.74

19699

Data Quality

pctl_income_quality

quality_label

n

1

Strong

877

2

Marginal

1975

3

Weak

1998

NA

NA

19450

10 City Race Data

10.1 Year

year

10.2 State

state state_name

10.3 County

county county_name

10.4 Population

population

10.5 Predictor: Digital Access

10.5.1 Metric: Share of households with broadband access in the home

Variables: share_digital_access, share_digital_access_quality

Years: 2021

10.5.1.1 Variable: `share_digital_access`

Summary

Min.

Median

Mean

Max.

NA's

0.38

0.89

0.88

1.00

3

Data Quality

share_digital_access_quality

quality_label

n

1

Strong

2179

2

Marginal

207

3

Weak

41

NA

NA

3

10.6 Predictor: Just Policing

10.6.1 Metric: Rate of juvenile justice arrests

Variables: `rate_juv_arrest`, `rate_juv_arrest_quality`

Years: 2021

10.6.1.1 Variable: `rate_juv_arrest`

Summary

Min.

Median

Mean

Max.

NA's

0.00

689.99

1,685.17

40,625.00

882

Data Quality

rate_juv_arrest_quality

quality_label

n

1

Strong

993

2

Marginal

415

3

Weak

140

NA

NA

882

11 City Poverty Exposure Data

11.1 Predictor: Economic Inclusion

11.1.1 Metric: Share of residents experiencing poverty living in high-poverty neighborhoods

Variables: `share_poverty_exposure`, `share_poverty_exposure_quality`

Years: 2021

11.1.1.1 Variable: `share_poverty_exposure`

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.08

1.00

4

Data Quality

share_poverty_exposure_quality

quality_label

n

1

Strong

1298

2

Marginal

783

3

Weak

345

NA

NA

4

12 City Race Share Data

12.1 Predictor: Environmental Quality

12.1.1 Metric: Air quality index

Variables: `index_air_quality`, `index_air_quality_quality`

Years: 2014, 2018

12.1.1.1 Variable: `index_air_quality`

Summary

Min.

Median

Mean

Max.

NA's

0.00

40.00

39.89

97.00

452

Data Quality

index_air_quality_quality

quality_label

n

1

Strong

2455

NA

NA

452

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13 News

13.1 2024

13.1.1 2024-02-13

- The recent file incorrectly included 2018 data for income and employment instead of 2021 data. We resolved the issue.
- The city-level income data incorrectly included missing values coded as large values. We dropped the missing values to fix the calculation.
- We replaced the .SAS programs for income and employment with .R scripts.

14 Contact

Contact Aaron R. Williams with questions or comments.