

Boosting Upward Mobility from Poverty Data Documentation

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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:** 15,710 rows and 116 columns
- **Years:** 2014, 2015, 2016, 2017, 2018

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

01_mobility-metrics.csv

- **Unit of Observation:** One row per county.
- **Dimensions:** 3,142 rows and 115 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

02_mobility-metrics_race-ethnicity.csv

- **Unit of Observation:** One row per county per race-ethnicity group.
- **Dimensions:** 15,710 rows and 50 columns
- **Years:**

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

Part V

03_mobility-metrics_race.csv

- **Unit of Observation:** One row per county per race group.
- **Dimensions:** 12,568 rows and 9 columns
- **Years:**

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

Part VI

04_mobility-metrics_race-share.csv

- **Unit of Observation:** One row per county per majority race group in a subgeography.
- **Dimensions:** 12,576 rows and 17 columns
- **Years:**

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

The next sections provide detailed documentation for each data set.

1 Longitudinal Data

year

1.1 State

state state_name

1.2 County

county county_name

1.3 Population

population

1.4 Predictor: Housing Affordability

1.4.1 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, housing_quality

Years: 2014, 2018

Disaggregation: ([link](#))

1.4.1.1 Variable: share_affordable_30_ami

Summary

Min.

Median

Mean

Max.

NA's

0.41

1.83

1.81

3.10

9429

Data Quality

housing__quality

n

1

1120

2

5161

3

1

NA

9428

1.4.1.2 Variable: share_affordable_50_ami

Summary

Min.

Median

Mean

Max.

NA's

0.76

1.82

1.81

3.01

9429

Data Quality

housing__quality

n

1

1120

2

5161

3

1

NA

9428

1.4.1.3 Variable: share_affordable_80_ami

Summary

Min.

Median

Mean

Max.

NA's

1.09

1.67

1.67

2.66

9429

Data Quality

housing__quality

n

1

1120

2

5161

3

1

NA

9428

1.5 Predictor: Housing Stability

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

Variables: homeless_count, homeless_share, homeless_count_lb, homeless_count_ub, homeless_quality

Years: 2014, 2018

Disaggregation: ([link](#))

1.5.1.1 Variable: homeless_count

Summary

Min.

Median

Mean

Max.

NA's

0

87

478

67,947

10035

Data Quality

homeless_quality

n

1

4812

2

194

3

669
NA
10035

1.5.1.2 Variable: homeless_share

Summary

Min.
Median
Mean
Max.
NA's
0.00
0.02
0.03
0.44
10043

Data Quality

homeless_quality
n
1
4812
2
194
3
669
NA
10035

1.6 Predictor: Economic Inclusion

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

Variables: poverty_exposure, poverty_exposure_quality

Years: 2018

Disaggregation: ([link](#))

1.6.1.1 Variable: poverty_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.05

1.00

12575

Data Quality

poverty_exposure_quality

n

1

2204

2

810

3

121

NA

12575

1.7 Predictor: Racial Diversity

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

Variables: black_nh_exposure, black_nh_exposure_quality, hispanic_exposure, hispanic_exposure_quality, other_nh_exposure, other_nh_exposure_quality, white_nh_exposure, white_nh_exposure_quality

Years: 2018

Disaggregation: ([link](#))

1.7.1.1 Variable: black_nh_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.12

0.93

0.84

1.00

13019

Data Quality

black_nh_exposure_quality

n

1
1276
2
647
3
768
NA
13019

1.7.1.2 Variable: hispanic_exposure

Summary

Min.
Median
Mean
Max.
NA's
0.01
0.94
0.87
1.00
12660

Data Quality

hispanic_exposure_quality
n
1
1370
2
1099

3
581
NA
12660

1.7.1.3 Variable: other_nh_exposure

Summary

Min.
Median
Mean
Max.
NA's
0.05
0.96
0.92
1.00
12676

Data Quality

other_nh_exposure_quality
n
1
1100
2
1118
3
816
NA
12676

1.7.1.4 Variable: white_nh_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.15

0.21

0.99

12569

Data Quality

white_nh_exposure_quality

n

1

3110

2

25

3

6

NA

12569

1.8 Predictor: Social Capital

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

Variables: TBD

Years:

Disaggregation: ([link](#))

1.9 Predictor: Transportation Access

1.9.1 Metric: Transit trips index

Variables: transit_cost, transit_cost_quality, transit_trips, transit_trips_quality

Years: 2016

Disaggregation: ([link](#))

1.9.1.1 Variable: transit_trips

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.70

23.13

98.72

12568

Data Quality

transit_trips_quality

n

1

3133

2

5

3

4

NA

12568

1.9.1.2 Variable: transit_cost

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.23

24.05

98.24

12568

Data Quality

transit_cost_quality

n

1

3132

2
6
3
4
NA
12568

1.10 Predictor: Access to Preschool

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

Variables: `share_in_preschool`, `share_in_preschool_lb`, `share_in_preschool_ub`, `preschool_quality`

Years:

Disaggregation: ([link](#))

1.10.1.1 Variable: `share_in_preschool`

Summary

Min.

Median

Mean

Max.

NA's

0.03

0.42

0.43

0.82

12569

Data Quality

preschool_quality

n

1

435

2

1785

3

922

NA

12568

1.11 Predictor: Effective Public Education

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

Variables: learning_rate, learning_rate_lb, learning_rate_ub, learning_rate_quality

Years: 2015

Disaggregation: ([link](#))

1.11.1.1 Variable: learning_rate

Summary

Min.

Median

Mean

Max.

NA's

−0.22

0.98

0.98

3.02

12648

Data Quality

learning_rate_quality

n

1

2377

2

347

3

338

NA

12648

1.12 Predictor: School Economic Diversity

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

Variables: TBD

Years:

Disaggregation: (link)

1.13 Predictor: Preparation for College

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

Variables: share_hs_degree, share_hs_degree_lb, share_hs_degree_ub, hs_degree_quality

Years: 2018

Disaggregation: ([link](#))

1.13.1.1 Variable: share_hs_degree

Summary

Min.

Median

Mean

Max.

NA's

0.48

0.89

0.88

1.00

12569

Data Quality

hs_degree_quality

n

1

388

2

1113

3

1640

NA

1.14 Predictor: Digital Access

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

Variables: TBD

Years:

Disaggregation: ([link](#))

1.15 Predictor: Employment Opportunities

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

Variables: share_employed, share_employed_lb, share_employed_ub, employed_quality

Years: 2018

Disaggregation: ([link](#))

1.15.1.1 Variable: share_employed

Summary

Min.

Median

Mean

Max.

NA's

0.52

0.79

0.78

0.92

12569

Data Quality

employed_quality

n

1

560

2

2581

NA

12569

1.16 Predictor: Jobs Paying Living Wages

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

Variables: average_to_living_wage_ratio, wage_ratio_quality

Years: 2014, 2018

Disaggregation: ([link](#))

1.16.1.1 Variable: average_to_living_wage_ratio

Summary

Min.

Median

Mean

Max.

NA's

0.39

0.66

0.69

1.61

9429

Data Quality

wage_ratio_quality

n

1

6260

3

21

NA

9429

1.17 Predictor: Opportunities for Income

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

Variables: pctl_20, pctl_50, pctl_80, pctl_quality

Years: 2018

Disaggregation: ([link](#))

1.17.1.1 Variable: `pctl_20`

Summary

Min.

Median

Mean

Max.

NA's

9,117.87

22,288.13

22,950.66

73,956.08

12569

Data Quality

`pctl_quality`

n

1

560

2

2581

NA

12569

1.17.1.2 Variable: `pctl_50`

Summary

Min.

Median

Mean

Max.

NA's

28,164.10

51,667.95

53,221.17

163,716.50

12569

Data Quality

`pctl_quality`

n

1

560

2

2581

NA

12569

1.17.1.3 Variable: `pctl_80`

Summary

Min.

Median

Mean

Max.

NA's

66,053.92

98,270.41

102,697.32

324,302.50

12569

Data Quality

`pctl_quality`

n

1

560

2

2581

NA

12569

1.18 Predictor: Financial Security

1.18.1 Metric: Share with debt in collections

Variables: share_debt_coll, share_debt_coll_lb, share_debt_coll_ub, share_debt_coll_quality

Years: 2018

Disaggregation: ([link](#))

1.18.1.1 Variable: share_debt_coll

Summary

Min.

Median

Mean

Max.

NA's

0.05

0.32

0.33

0.68

12765

Data Quality

share_debt_coll_quality

n

1

2945

NA

12765

1.19 Predictor: Wealth Building Opportunities

1.19.1 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: TBD

Years:

Disaggregation: ([link](#))

1.20 Predictor: Access to Health Services

1.20.1 Metric: Ratio of population per primary care physician

Variables: TBD

Years:

Disaggregation: ([link](#))

1.21 Predictor: Neonatal Health

1.21.1 Metric: Share of low-weight births

Variables: lbw, lbw_quality

Years: 2018

Disaggregation: ([link](#))

1.21.1.1 Variable: lbw

Summary

Min.

Median

Mean

Max.

NA's

0.04

0.08

0.08

0.15

12568

Data Quality

lbw__quality

n

1

578

3

2564

NA

12568

1.22 Predictor: Environmental Quality

1.22.1 Metric: Air quality index

Variables: environmental, environmental_quality

Years: 2014

Disaggregation: ([link](#))

1.22.1.1 Variable: environmental

Summary

Min.

Median

Mean

Max.

NA's

0.00

75.82

69.01

99.00

12570

Data Quality

environmental_quality

n

1

3140

NA

12570

1.23 Predictor: Safety from Trauma

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

Variables: TBD

Years:

Disaggregation: ([link](#))

1.24 Predictor: Political Participation

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

Variables: election_turnout, election_turnout_quality

Years: 2016

Disaggregation: ([link](#))

1.24.1.1 Variable: election_turnout

Summary

Min.

Median

Mean

Max.

NA's

0.16

0.60

0.59

1.00

12598

Data Quality

election_turnout_quality

n

1

2977

2

120

3

15

NA

12598

1.25 Predictor: Descriptive Representation

1.25.1 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: asian_other, asian_other_quality, black_nonhispanic, black_nonhispanic_quality, hispanic, hispanic_quality, white_nonhispanic, white_nonhispanic_quality

Years: 2018

Disaggregation: ([link](#))

1.25.1.1 Variable: asian_other

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.59

230.97

14189

Data Quality

asian_other_quality

n

1

44

2

215

3

1262

NA

14189

1.25.1.2 Variable: black_nonhispanic

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.57

32.50

14189

Data Quality

black_nonhispanic_quality

n

1

44

2

215

3

1262

NA

14189

1.25.1.3 Variable: hispanic

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.15

13.71

14189

Data Quality

hispanic_quality

n

1

44
2
215
3
1262
NA
14189

1.25.1.4 Variable: white_nonhispanic

Summary

Min.
Median
Mean
Max.
NA's
0.00
1.14
1.25
7.10
14189

Data Quality

white_nonhispanic_quality
n
1
44
2
215
3

1262

NA

14189

1.26 Predictor: Safety from Crime

1.26.1 Metric: Rates of reported violent crime and property crime

Variables: TBD

Years:

Disaggregation: (link)

Was violent_crime_rate, will be something new Was property_crime_rate, will be something new crime_rate_quality

1.27 Predictor: Just Policing

1.27.1 Metric: Rate of juvenile justice arrests

Variables: juvenile_arrest_rate, juvenile_arrest_rate_quality

Years: 2016

Disaggregation: (link)

1.27.1.1 Variable: juvenile_arrest_rate

Summary

Min.

Median

Mean

Max.

NA's

4.84

2,168.59

2,842.63

39,457.43

13057

Data Quality

juvenile_arrest_rate_quality

n

1

901

2

1687

3

65

NA

13057

2 Recent Data

state state_name

2.1 County

county county_name

2.2 Population

population

2.3 Predictor: Housing Affordability

2.3.1 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, housing_quality

Year: 2018

Disaggregation: ([link](#))

2.3.1.1 Variable: share_affordable_30_ami

Summary

Min.

Median

Mean

Max.

NA's

0.41

1.82

1.78

3.10

1

Data Quality

housing_quality

n

1

560

2

2581

NA

1

2.3.1.2 Variable: share_affordable_50_ami

Summary

Min.

Median

Mean

Max.

NA's

0.76

1.83

1.80

3.01

1

Data Quality

housing_quality

n

1

560

2

2581

NA

1

2.3.1.3 Variable: share_affordable_80_ami

Summary

Min.

Median

Mean

Max.

NA's

1.09

1.68

1.68

2.35

1

Data Quality

housing_quality

n

1

560

2

2581

NA

1

2.4 Predictor: Housing Stability

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

Variables: homeless_count, homeless_share, homeless_count_lb, homeless_count_ub, homeless_quality

Year: 2018

Disaggregation: ([link](#))

2.4.1.1 Variable: homeless_count

Summary

Min.

Median

Mean

Max.

NA's

1

90

499

67,947

286

Data Quality

homeless_quality

n

1
2523
2
93
3
240
NA
286

2.4.1.2 Variable: homeless_share

Summary

Min.
Median
Mean
Max.
NA's
0.00
0.02
0.03
0.44
286

Data Quality

homeless_quality
n
1
2523
2
93

3
240
NA
286

2.5 Predictor: Economic Inclusion

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

Variables: poverty_exposure, poverty_exposure_quality

Year: 2018

Disaggregation: ([link](#))

2.5.1.1 Variable: poverty_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.05

1.00

7

Data Quality

poverty_exposure_quality

n
1
2204
2
810
3
121
NA
7

2.6 Predictor: Racial Diversity

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

Variables: black_nh_exposure, black_nh_exposure_quality, hispanic_exposure, hispanic_exposure_quality, other_nh_exposure, other_nh_exposure_quality, white_nh_exposure, white_nh_exposure_quality

Year: 2018

Disaggregation: ([link](#))

2.6.1.1 Variable: black_nh_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.12

0.93

0.84

1.00

451

Data Quality

black_nh_exposure_quality

n

1

1276

2

647

3

768

NA

451

2.6.1.2 Variable: hispanic_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.01

0.94

0.87

1.00

92

Data Quality

hispanic_exposure_quality

n

1

1370

2

1099

3

581

NA

92

2.6.1.3 Variable: other_nh_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.05

0.96

0.92

1.00

108

Data Quality

other_nh_exposure_quality

n

1

1100

2

1118

3

816

NA

108

2.6.1.4 Variable: white_nh_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.15

0.21

0.99

1

Data Quality

white_nh_exposure_quality

n

1

3110

2

25

3

6

NA

1

2.7 Predictor: Social Capital

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

Variables: TBD

Year:

Disaggregation: ([link](#))

2.8 Predictor: Transportation Access

2.8.1 Metric: Transit trips index

Variables: transit_cost, transit_cost_quality, transit_trips, transit_trips_quality

Year: 2016

Disaggregation: ([link](#))

2.8.1.1 Variable: transit_trips

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.70

23.13

98.72

0

Data Quality

transit_trips_quality

n

1

3133

2

5

3

4

2.8.1.2 Variable: transit_cost

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.23

24.05

98.24

0

Data Quality

transit_cost_quality

n
1
3132
2
6
3
4

2.9 Predictor: Access to Preschool

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

Variables: `share_in_preschool`, `share_in_preschool_lb`, `share_in_preschool_ub`, `preschool_quality`

Year:

Disaggregation: ([link](#))

2.9.1.1 Variable: `share_in_preschool`

Summary

Min.

Median

Mean

Max.

NA's

0.03

0.42

0.43

0.82

1

Data Quality

preschool_quality

n

1

435

2

1785

3

922

2.10 Predictor: Effective Public Education

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

Variables: learning_rate, learning_rate_lb, learning_rate_ub, learning_rate_quality

Year: 2015

Disaggregation: ([link](#))

2.10.1.1 Variable: learning_rate

Summary

Min.

Median

Mean

Max.

NA's

−0.22

0.98

0.98

3.02

80

Data Quality

learning_rate_quality

n

1

2377

2

347

3

338

NA

80

2.11 Predictor: School Economic Diversity

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

Variables: TBD

Year:

Disaggregation: (link)

2.12 Predictor: Preparation for College

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

Variables: share_hs_degree, share_hs_degree_lb, share_hs_degree_ub, hs_degree_quality

Year: 2018

Disaggregation: ([link](#))

2.12.1.1 Variable: share_hs_degree

Summary

Min.

Median

Mean

Max.

NA's

0.48

0.89

0.88

1.00

1

Data Quality

hs_degree_quality

n

1

388

2

1113

3

1640

NA

2.13 Predictor: Digital Access

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

Variables: TBD

Year:

Disaggregation: ([link](#))

2.14 Predictor: Employment Opportunities

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

Variables: share_employed, share_employed_lb, share_employed_ub, employed_quality

Year: 2018

Disaggregation: ([link](#))

2.14.1.1 Variable: share_employed

Summary

Min.

Median

Mean

Max.

NA's

0.52

0.79

0.78

0.92

1

Data Quality

employed_quality

n

1

560

2

2581

NA

1

2.15 Predictor: Jobs Paying Living Wages

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

Variables: average_to_living_wage_ratio, wage_ratio_quality

Year: 2018

Disaggregation: ([link](#))

2.15.1.1 Variable: average_to_living_wage_ratio

Summary

Min.

Median

Mean

Max.

NA's

0.40

0.67

0.70

1.61

2

Data Quality

wage_ratio_quality

n

1

3129

3

11

NA

2

2.16 Predictor: Opportunities for Income

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

Variables: pctl_20, pctl_50, pctl_80, pctl_quality

Year: 2018

Disaggregation: ([link](#))

2.16.1.1 Variable: `pctl_20`

Summary

Min.

Median

Mean

Max.

NA's

9,117.87

22,288.13

22,950.66

73,956.08

1

Data Quality

`pctl_quality`

n

1

560

2

2581

NA

1

2.16.1.2 Variable: `pctl_50`

Summary

Min.

Median

Mean

Max.

NA's

28,164.10

51,667.95

53,221.17

163,716.50

1

Data Quality

`pctl_quality`

n

1

560

2

2581

NA

1

2.16.1.3 Variable: `pctl_80`

Summary

Min.

Median

Mean

Max.

NA's

66,053.92

98,270.41

102,697.32

324,302.50

1

Data Quality

`pctl_quality`

n

1

560

2

2581

NA

1

2.17 Predictor: Financial Security

2.17.1 Metric: Share with debt in collections

Variables: share_debt_coll, share_debt_coll_lb, share_debt_coll_ub, share_debt_coll_quality

Year: 2018

Disaggregation: ([link](#))

2.17.1.1 Variable: share_debt_coll

Summary

Min.

Median

Mean

Max.

NA's

0.05

0.32

0.33

0.68

197

Data Quality

share_debt_coll_quality

n

1

2945

NA

197

2.18 Predictor: Wealth Building Opportunities

2.18.1 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: TBD

Year:

Disaggregation: ([link](#))

2.19 Predictor: Access to Health Services

2.19.1 Metric: Ratio of population per primary care physician

Variables: TBD

Year:

Disaggregation: ([link](#))

2.20 Predictor: Neonatal Health

2.20.1 Metric: Share of low-weight births

Variables: lbw, lbw_quality

Year: 2018

Disaggregation: ([link](#))

2.20.1.1 Variable: lbw

Summary

Min.

Median

Mean

Max.

NA's

0.04

0.08

0.08

0.15

0

Data Quality

lbw__quality

n

1

578

3

2564

2.21 Predictor: Environmental Quality

2.21.1 Metric: Air quality index

Variables: environmental, environmental_quality

Year: 2014

Disaggregation: ([link](#))

2.21.1.1 Variable: environmental

Summary

Min.

Median

Mean

Max.

NA's

0.00

75.82

69.01

99.00

2

Data Quality

environmental_quality

n

1

3140

NA

2

2.22 Predictor: Safety from Trauma

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

Variables: TBD

Year:

Disaggregation: ([link](#))

2.23 Predictor: Political Participation

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

Variables: election_turnout, election_turnout_quality

Year: 2016

Disaggregation: ([link](#))

2.23.1.1 Variable: election_turnout

Summary

Min.

Median

Mean

Max.

NA's

0.16

0.60

0.59

1.00

30

Data Quality

election_turnout_quality

n

1

2977

2

120

3

15

NA

2.24 Predictor: Descriptive Representation

2.24.1 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: asian_other, asian_other_quality, black_nonhispanic, black_nonhispanic_quality, hispanic, hispanic_quality, white_nonhispanic, white_nonhispanic_quality

Year: 2018

Disaggregation: ([link](#))

2.24.1.1 Variable: asian_other

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.59

230.97

1621

Data Quality

asian_other_quality

n

1

44

2
215
3
1262
NA
1621

2.24.1.2 Variable: black_nonhispanic

Summary

Min.
Median
Mean
Max.
NA's
0.00
0.00
0.57
32.50
1621

Data Quality

black_nonhispanic_quality
n
1
44
2
215
3
1262

NA

1621

2.24.1.3 Variable: hispanic

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.15

13.71

1621

Data Quality

hispanic_quality

n

1

44

2

215

3

1262

NA

1621

2.24.1.4 Variable: white_nonhispanic

Summary

Min.

Median

Mean

Max.

NA's

0.00

1.14

1.25

7.10

1621

Data Quality

white_nonhispanic_quality

n

1

44

2

215

3

1262

NA

1621

2.25 Predictor: Safety from Crime

2.25.1 Metric: Rates of reported violent crime and property crime

Variables: TBD

Year:

Disaggregation: (link)

Was violent_crime_rate, will be something new Was property_crime_rate, will be something new crime_rate_quality

2.26 Predictor: Just Policing

2.26.1 Metric: Rate of juvenile justice arrests

Variables: juvenile_arrest_rate, juvenile_arrest_rate_quality

Year: 2016

Disaggregation: (link)

2.26.1.1 Variable: juvenile_arrest_rate

Summary

Min.

Median

Mean

Max.

NA's

4.84

2,168.59

2,842.63

39,457.43

489

Data Quality

juvenile_arrest_rate_quality

n

1

901

2

1687

3

65

NA

489

3 Race/Ethnicity

4 Race

5 Race Share

Part VII

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 VIII

00_mobility-metrics_longitudinal.csv

- **Unit of Observation:** One row per county per year.
- **Dimensions:** 15,710 rows and 116 columns
- **Years:** 2014, 2015, 2016, 2017, 2018

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 IX

01_mobility-metrics.csv

- **Unit of Observation:** One row per county.
- **Dimensions:** 3,142 rows and 115 columns
- **Years:**

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 X

02_mobility-metrics_race-ethnicity.csv

- **Unit of Observation:** One row per county per race-ethnicity group.
 - **Dimensions:** 15,710 rows and 50 columns
-

Part XI

03_mobility-metrics_race.csv

- **Unit of Observation:** One row per county per race group.
 - **Dimensions:** 12,568 rows and 9 columns
-

Part XII

04_mobility-metrics_race-share.csv

- **Unit of Observation:** One row per county per majority race group in a subgeography.
 - **Dimensions:** 12,576 rows and 17 columns
-

The following sections provide detailed documentation for each data set.

6 Longitudinal Data

year

6.1 State

state state_name

6.2 County

county county_name

6.3 Population

population

6.4 Predictor: Housing Affordability

6.4.1 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, housing_quality

Years: 2014, 2018

Disaggregation: ([link](#))

6.4.1.1 Variable: share_affordable_30_ami

Summary

Min.

Median

Mean

Max.

NA's

0.41

1.83

1.81

3.10

9429

Data Quality

housing__quality

n

1

1120

2

5161

3

1

NA

9428

6.4.1.2 Variable: share_affordable_50_ami

Summary

Min.

Median

Mean

Max.

NA's

0.76

1.82

1.81

3.01

9429

Data Quality

housing__quality

n

1

1120

2

5161

3

1

NA

9428

6.4.1.3 Variable: share_affordable_80_ami

Summary

Min.

Median

Mean

Max.

NA's

1.09

1.67

1.67

2.66

9429

Data Quality

housing__quality

n

1

1120

2

5161

3

1

NA

9428

6.5 Predictor: Housing Stability

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

Variables: homeless_count, homeless_share, homeless_count_lb, homeless_count_ub, homeless_quality

Years: 2014, 2018

Disaggregation: ([link](#))

6.5.1.1 Variable: homeless_count

Summary

Min.

Median

Mean

Max.

NA's

0

87

478

67,947

10035

Data Quality

homeless_quality

n

1

4812

2

194

3

669
NA
10035

6.5.1.2 Variable: homeless_share

Summary

Min.
Median
Mean
Max.
NA's
0.00
0.02
0.03
0.44
10043

Data Quality

homeless_quality
n
1
4812
2
194
3
669
NA
10035

6.6 Predictor: Economic Inclusion

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

Variables: poverty_exposure, poverty_exposure_quality

Years: 2018

Disaggregation: ([link](#))

6.6.1.1 Variable: poverty_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.05

1.00

12575

Data Quality

poverty_exposure_quality

n

1

2204

2

810

3

121

NA
12575

6.7 Predictor: Racial Diversity

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

Variables: black_nh_exposure, black_nh_exposure_quality, hispanic_exposure, hispanic_exposure_quality, other_nh_exposure, other_nh_exposure_quality, white_nh_exposure, white_nh_exposure_quality

Years: 2018

Disaggregation: ([link](#))

6.7.1.1 Variable: black_nh_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.12

0.93

0.84

1.00

13019

Data Quality

black_nh_exposure_quality

n

1
1276
2
647
3
768
NA
13019

6.7.1.2 Variable: hispanic_exposure

Summary

Min.
Median
Mean
Max.
NA's
0.01
0.94
0.87
1.00
12660

Data Quality

hispanic_exposure_quality
n
1
1370
2
1099

3
581
NA
12660

6.7.1.3 Variable: other_nh_exposure

Summary

Min.
Median
Mean
Max.
NA's
0.05
0.96
0.92
1.00
12676

Data Quality

other_nh_exposure_quality
n
1
1100
2
1118
3
816
NA
12676

6.7.1.4 Variable: white_nh_exposure

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.15

0.21

0.99

12569

Data Quality

white_nh_exposure_quality

n

1

3110

2

25

3

6

NA

12569

6.8 Predictor: Social Capital

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

Variables: TBD

Years:

Disaggregation: ([link](#))

6.9 Predictor: Transportation Access

6.9.1 Metric: Transit trips index

Variables: transit_cost, transit_cost_quality, transit_trips, transit_trips_quality

Years: 2016

Disaggregation: ([link](#))

6.9.1.1 Variable: transit_trips

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.70

23.13

98.72

12568

Data Quality

transit_trips_quality

n

1

3133

2

5

3

4

NA

12568

6.9.1.2 Variable: transit_cost

Summary

Min.

Median

Mean

Max.

NA's

0.00

18.23

24.05

98.24

12568

Data Quality

transit_cost_quality

n

1

3132

2
6
3
4
NA
12568

6.10 Predictor: Access to Preschool

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

Variables: `share_in_preschool`, `share_in_preschool_lb`, `share_in_preschool_ub`, `preschool_quality`

Years:

Disaggregation: ([link](#))

6.10.1.1 Variable: `share_in_preschool`

Summary

Min.

Median

Mean

Max.

NA's

0.03

0.42

0.43

0.82

12569

Data Quality

preschool_quality

n

1

435

2

1785

3

922

NA

12568

6.11 Predictor: Effective Public Education

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

Variables: learning_rate, learning_rate_lb, learning_rate_ub, learning_rate_quality

Years: 2015

Disaggregation: ([link](#))

6.11.1.1 Variable: learning_rate

Summary

Min.

Median

Mean

Max.

NA's

−0.22

0.98

0.98

3.02

12648

Data Quality

learning_rate_quality

n

1

2377

2

347

3

338

NA

12648

6.12 Predictor: School Economic Diversity

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

Variables: TBD

Years:

Disaggregation: (link)

6.13 Predictor: Preparation for College

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

Variables: share_hs_degree, share_hs_degree_lb, share_hs_degree_ub, hs_degree_quality

Years: 2018

Disaggregation: ([link](#))

6.13.1.1 Variable: share_hs_degree

Summary

Min.

Median

Mean

Max.

NA's

0.48

0.89

0.88

1.00

12569

Data Quality

hs_degree_quality

n

1

388

2

1113

3

1640

NA

6.14 Predictor: Digital Access

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

Variables: TBD

Years:

Disaggregation: ([link](#))

6.15 Predictor: Employment Opportunities

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

Variables: share_employed, share_employed_lb, share_employed_ub, employed_quality

Years: 2018

Disaggregation: ([link](#))

6.15.1.1 Variable: share_employed

Summary

Min.

Median

Mean

Max.

NA's

0.52

0.79

0.78

0.92

12569

Data Quality

employed_quality

n

1

560

2

2581

NA

12569

6.16 Predictor: Jobs Paying Living Wages

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

Variables: average_to_living_wage_ratio, wage_ratio_quality

Years: 2014, 2018

Disaggregation: ([link](#))

6.16.1.1 Variable: average_to_living_wage_ratio

Summary

Min.

Median

Mean

Max.

NA's

0.39

0.66

0.69

1.61

9429

Data Quality

wage_ratio_quality

n

1

6260

3

21

NA

9429

6.17 Predictor: Opportunities for Income

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

Variables: pctl_20, pctl_50, pctl_80, pctl_quality

Years: 2018

Disaggregation: ([link](#))

6.17.1.1 Variable: `pctl_20`

Summary

Min.

Median

Mean

Max.

NA's

9,117.87

22,288.13

22,950.66

73,956.08

12569

Data Quality

`pctl_quality`

n

1

560

2

2581

NA

12569

6.17.1.2 Variable: `pctl_50`

Summary

Min.

Median

Mean

Max.

NA's

28,164.10

51,667.95

53,221.17

163,716.50

12569

Data Quality

`pctl_quality`

n

1

560

2

2581

NA

12569

6.17.1.3 Variable: `pctl_80`

Summary

Min.

Median

Mean

Max.

NA's

66,053.92

98,270.41

102,697.32

324,302.50

12569

Data Quality

`pctl_quality`

n

1

560

2

2581

NA

12569

6.18 Predictor: Financial Security

6.18.1 Metric: Share with debt in collections

Variables: share_debt_coll, share_debt_coll_lb, share_debt_coll_ub, share_debt_coll_quality

Years: 2018

Disaggregation: ([link](#))

6.18.1.1 Variable: share_debt_coll

Summary

Min.

Median

Mean

Max.

NA's

0.05

0.32

0.33

0.68

12765

Data Quality

share_debt_coll_quality

n

1

2945

NA

12765

6.19 Predictor: Wealth Building Opportunities

6.19.1 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: TBD

Years:

Disaggregation: ([link](#))

6.20 Predictor: Access to Health Services

6.20.1 Metric: Ratio of population per primary care physician

Variables: TBD

Years:

Disaggregation: ([link](#))

6.21 Predictor: Neonatal Health

6.21.1 Metric: Share of low-weight births

Variables: lbw, lbw_quality

Years: 2018

Disaggregation: ([link](#))

6.21.1.1 Variable: lbw

Summary

Min.

Median

Mean

Max.

NA's

0.04

0.08

0.08

0.15

12568

Data Quality

lbw__quality

n

1

578

3

2564

NA

12568

6.22 Predictor: Environmental Quality

6.22.1 Metric: Air quality index

Variables: environmental, environmental_quality

Years: 2014

Disaggregation: ([link](#))

6.22.1.1 Variable: environmental

Summary

Min.

Median

Mean

Max.

NA's

0.00

75.82

69.01

99.00

12570

Data Quality

environmental_quality

n

1

3140

NA

12570

6.23 Predictor: Safety from Trauma

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

Variables: TBD

Years:

Disaggregation: ([link](#))

6.24 Predictor: Political Participation

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

Variables: election_turnout, election_turnout_quality

Years: 2016

Disaggregation: ([link](#))

6.24.1.1 Variable: election_turnout

Summary

Min.

Median

Mean

Max.

NA's

0.16

0.60

0.59

1.00

12598

Data Quality

election_turnout_quality

n

1

2977

2

120

3

15

NA

12598

6.25 Predictor: Descriptive Representation

6.25.1 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: asian_other, asian_other_quality, black_nonhispanic, black_nonhispanic_quality, hispanic, hispanic_quality, white_nonhispanic, white_nonhispanic_quality

Years: 2018

Disaggregation: ([link](#))

6.25.1.1 Variable: asian_other

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.59

230.97

14189

Data Quality

asian_other_quality

n

1

44

2

215

3

1262

NA

14189

6.25.1.2 Variable: black_nonhispanic

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.57

32.50

14189

Data Quality

black_nonhispanic_quality

n

1

44

2

215

3

1262

NA

14189

6.25.1.3 Variable: hispanic

Summary

Min.

Median

Mean

Max.

NA's

0.00

0.00

0.15

13.71

14189

Data Quality

hispanic_quality

n

1

44
2
215
3
1262
NA
14189

6.25.1.4 Variable: white_nonhispanic

Summary

Min.
Median
Mean
Max.
NA's
0.00
1.14
1.25
7.10
14189

Data Quality

white_nonhispanic_quality
n
1
44
2
215
3

1262

NA

14189

6.26 Predictor: Safety from Crime

6.26.1 Metric: Rates of reported violent crime and property crime

Variables: TBD

Years:

Disaggregation: (link)

Was violent_crime_rate, will be something new Was property_crime_rate, will be something new crime_rate_quality

6.27 Predictor: Just Policing

6.27.1 Metric: Rate of juvenile justice arrests

Variables: juvenile_arrest_rate, juvenile_arrest_rate_quality

Years: 2016

Disaggregation: (link)

6.27.1.1 Variable: juvenile_arrest_rate

Summary

Min.

Median

Mean

Max.

NA's

4.84

2,168.59

2,842.63

39,457.43

13057

Data Quality

juvenile_arrest_rate_quality

n

1

901

2

1687

3

65

NA

13057