

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 per year.
- **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 per year.
- **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 per year.
- **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

quality__label

n

1

Strong

1120

2

Marginal

5161

3

Weak

1

NA

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

quality__label

n

1

Strong

1120

2

Marginal

5161

3

Weak

1

NA

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

quality__label

n

1

Strong

1120

2

Marginal

5161

3

Weak

1

NA

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

quality__label

n

1

Strong

4812

2

Marginal

194

3

Weak

669

NA

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

quality_label

n

1

Strong
4812
2
Marginal
194
3
Weak
669
NA
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

quality__label

n

1

Strong

2204

2

Marginal

810

3

Weak

121

NA

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

quality_label

n

1

Strong

1276

2
Marginal
647
3
Weak
768
NA
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
quality_label
n
1
Strong

1370
2
Marginal
1099
3
Weak
581
NA
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
quality_label
n
1

Strong
1100
2
Marginal
1118
3
Weak
816
NA
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
quality__label
n

1
Strong
3110
2
Marginal
25
3
Weak
6
NA
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

quality_label

n

1

Strong

3133

2

Marginal

5

3

Weak

4

NA

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

quality_label

n

1

Strong

3132

2

Marginal

6

3

Weak

4

NA

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

quality_label

n

1

Strong

435

2
Marginal
1785
3
Weak
922
NA
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

quality_label

n

1

Strong

2377

2

Marginal

347

3

Weak

338

NA

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

quality_label

n

1

Strong

388

2

Marginal

1113

3

Weak

1640

NA

NA

12569

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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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

quality_label

n

1
Strong
6260
3
Weak
21
NA
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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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
quality_label
n
1
Strong
560
2
Marginal
2581
NA
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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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

quality_label

n

1

Strong

2945

NA

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
quality_label
n
1
Strong
578
3
Weak
2564
NA
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

quality_label

n

1

Strong

3140

NA

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

quality_label

n

1

Strong

2977

2

Marginal

120

3

Weak

15

NA

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

quality_label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality_label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality__label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality_label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality_label

n

1

Strong

901

2

Marginal

1687

3

Weak

65

NA

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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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

quality__label

n

1

Strong

560

2

Marginal

2581

NA

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

quality__label

n

1

Strong

2523

2

Marginal

93

3

Weak

240

NA

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

quality__label

n

1

Strong

2523

2

Marginal

93

3

Weak

240

NA

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

quality_label

n

1

Strong

2204

2

Marginal

810

3

Weak

121

NA

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

quality_label

n

1

Strong

1276

2

Marginal

647

3

Weak

768

NA

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

quality_label

n

1

Strong

1370

2

Marginal

1099

3

Weak

581

NA

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

quality_label

n

1

Strong

1100

2

Marginal

1118

3

Weak

816

NA

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

quality_label

n

1

Strong

3110

2

Marginal

25

3

Weak

6

NA

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

quality_label

n

1

Strong

3133

2

Marginal

5

3

Weak

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

quality_label

n

1

Strong

3132

2

Marginal

6

3

Weak

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

quality_label

n

1

Strong

435

2

Marginal

1785

3

Weak

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

quality_label

n

1

Strong

2377

2

Marginal

347

3

Weak

338

NA

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

quality_label

n

1

Strong

388

2

Marginal

1113

3

Weak

1640

NA

NA

1

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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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

quality_label

n

1

Strong

3129

3

Weak

11

NA

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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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`

`quality_label`

n

1

Strong

560

2

Marginal

2581

NA

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

quality_label

n

1

Strong

2945

NA

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

quality__label

n

1

Strong

578

3

Weak

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

quality_label

n

1

Strong

3140

NA

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

quality_label

n

1

Strong

2977

2

Marginal

120

3

Weak

15

NA

NA

30

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

quality_label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality_label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality__label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality_label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality_label

n

1

Strong

901

2

Marginal

1687

3

Weak

65

NA

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

quality__label

n

1

Strong

1120

2

Marginal

5161

3

Weak

1

NA

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

quality__label

n

1

Strong

1120

2

Marginal

5161

3

Weak

1

NA

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

quality__label

n

1

Strong

1120

2

Marginal

5161

3

Weak

1

NA

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

quality_label

n

1

Strong

4812

2

Marginal

194

3

Weak

669

NA

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

quality_label

n

1

Strong
4812
2
Marginal
194
3
Weak
669
NA
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

quality__label

n

1

Strong

2204

2

Marginal

810

3

Weak

121

NA

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

quality_label

n

1

Strong

1276

2
Marginal
647
3
Weak
768
NA
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
quality_label
n
1
Strong

1370
2
Marginal
1099
3
Weak
581
NA
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
quality_label
n
1

Strong
1100
2
Marginal
1118
3
Weak
816
NA
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
quality__label
n

1
Strong
3110
2
Marginal
25
3
Weak
6
NA
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

quality_label

n

1

Strong

3133

2

Marginal

5

3

Weak

4

NA

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

quality_label

n

1

Strong

3132

2

Marginal

6

3

Weak

4

NA

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

quality_label

n

1

Strong

435

2
Marginal
1785
3
Weak
922
NA
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

quality_label

n

1

Strong

2377

2

Marginal

347

3

Weak

338

NA

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

quality_label

n

1

Strong

388

2

Marginal

1113

3

Weak

1640

NA

NA

12569

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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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

quality_label

n

1
Strong
6260
3
Weak
21
NA
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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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
quality_label
n
1
Strong
560
2
Marginal
2581
NA
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

quality_label

n

1

Strong

560

2

Marginal

2581

NA

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

quality_label

n

1

Strong

2945

NA

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
quality_label
n
1
Strong
578
3
Weak
2564
NA
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

quality_label

n

1

Strong

3140

NA

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

quality_label

n

1

Strong

2977

2

Marginal

120

3

Weak

15

NA

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

quality_label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality_label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality__label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality_label

n

1

Strong

44

2

Marginal

215

3

Weak

1262

NA

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

quality_label

n

1

Strong

901

2

Marginal

1687

3

Weak

65

NA

NA

13057

7 News

8 Contact

Contact [Aaron R. Williams](#) with questions or comments.