

# **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

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



## 7 News