**Supporting Information 1**

**List of variables in the “AirBnB” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | poverty | percent households below poverty |
| Explanatory | crowded | percent housing crowded |
| Explanatory | dependency | percent under 18 or over 64 years old |
| Explanatory | without\_hs | percent aged 25+ without high school diploma |
| Explanatory | unemployed | percent unemployed above 16 years old |
| Explanatory | income\_pc | per capita income |
| Explanatory | harship\_in | hardship index |
| Explanatory | crimes | total number of crimes |
| Explanatory | theft | total number of thefts |
| Response | response\_r | response rate of airbnb host |
| Response | accept\_r | acceptance rate of airbnb host |
| Response | rev\_rating | host’s rating |
| Response | price\_pp | price per person |

**List of variables in the “Baltimore Housing” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | NROOM | number of rooms |
| Explanatory | DWELL | 1 if detached unit, 0 otherwise |
| Explanatory | NBATH | number of bathrooms |
| Explanatory | PATIO | 1 if patio, 0 otherwise |
| Explanatory | FIREPL | 1 if fireplace, 0 otherwise |
| Explanatory | AC | 1 if air conditioning, 0 otherwise |
| Explanatory | BMENT | 1 if basement, 0 otherwise |
| Explanatory | NSTOR | number of stories |
| Explanatory | GAR | number of car spaces in garage (0 = no garage) |
| Explanatory | AGE | age of dwelling in years |
| Explanatory | CITCOU | 1 if dwelling is in Baltimore County, 0 otherwise |
| Response | PRICE\_LIV | Sales price of house per hundred square feet of interior living space in $1000 |
| Response | PRICE\_LOT | Sales price of house per hundred square feet of lot size in $1000 |

**List of variables in the “Boston Housing” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | CRIM | A numeric vector of per capita crime |
| Explanatory | ZN | A numeric vector of proportions of residential land zoned for lots over 25000 sq. ft per town (constant for all Boston tracts) |
| Explanatory | INDUS | A numeric vector of proportions of non-retail business acres per town (constant for all Boston tracts) |
| Explanatory | CHAS | A factor with levels 1 if tract borders Charles River; 0 otherwise |
| Explanatory | NOX | A numeric vector of nitric oxides concentration (parts per 10 million) per town |
| Explanatory | RM | A numeric vector of average numbers of rooms per dwelling |
| Explanatory | AGE | A numeric vector of proportions of owner-occupied units built prior to 1940 |
| Explanatory | DIS | A numeric vector of weighted distances to five Boston employment centers |
| Explanatory | RAD | A numeric vector of an index of accessibility to radial highways per town (constant for all Boston tracts) |
| Explanatory | TAX | A numeric vector full-value property-tax rate per USD 10,000 per town (constant for all Boston tracts) |
| Explanatory | PTRATIO | A numeric vector of pupil-teacher ratios per town (constant for all Boston tracts) |
| Explanatory | B | A numeric vector of 1000\*(Bk - 0.63)^2 where Bk is the proportion of blacks |
| Explanatory | LSTAT | A numeric vector of percentage values of lower status population |
| Response | CMEDV | A numeric vector of corrected median values of owner-occupied housing in USD 1000 |

**List of variables in the “Charleston Industry Mix” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | PCTIME | Industry mix effect, percent (M) |
| Explanatory | PCTCSE | Competitive shift effect, percent (S) |
| Explanatory | PCTGRO | Percent growth establishments, 1998-2001 (R) |
| Explanatory | rateuniv | % of higher than Bachelor's degree to the total population |
| Explanatory | hin | Median household income in 1989 |
| Explanatory | youth | % of 18-24 years old to the total population |
| Response | MAN98 | 1998 total manufacturing establishments (MSA) |
| Response | MAN98\_12 | 1998 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN98\_39 | 1998 total manufacturing establishments 10+ employees (MSA) |
| Response | MAN01 | 2001 total manufacturing establishments (MSA) |
| Response | MAN01\_12 | 2001 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN01\_39 | 2001 total manufacturing establishments, 10+ employees (MSA) |
| Response | OFF98 | 1998 total office establishments (MSA) |
| Response | OFF98\_12 | 1998 total office establishments, 1-9 employees (MSA) |
| Response | OFF98\_39 | 1998 total office establishments, 10+ employees (MSA) |
| Response | OFF01 | 2001 total office establishments (MSA) |
| Response | OFF01\_12 | 2001 total office establishments, 1-9 employees (MSA) |
| Response | OFF01\_39 | 2001 total office establishments, 10+ employees (MSA) |
| Response | INFO98 | 1998 total information establishments (MSA) |
| Response | INFO98\_12 | 1998 total information establishments, 1-9 employees (MSA) |
| Response | INFO98\_39 | 1998 total information establishments, 10+ employees (MSA) |
| Response | INFO01 | 2001 total information establishments (MSA) |
| Response | INFO01\_12 | 2001 total information establishments, 1-9 employees (MSA) |
| Response | INFO01\_39 | 2001 total information establishments, 10+ employees (MSA) |

**List of variables in the “Hickory Industry Mix” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | PCTIME | Industry mix effect, percent (M) |
| Explanatory | PCTCSE | Competitive shift effect, percent (S) |
| Explanatory | PCTGRO | Percent growth establishments, 1998-2001 (R) |
| Explanatory | rateuniv | % of higher than Bachelor's degree to the total population |
| Explanatory | hin | Median household income in 1989 |
| Explanatory | youth | % of 18-24 years old to the total population |
| Response | MAN98 | 1998 total manufacturing establishments (MSA) |
| Response | MAN98\_12 | 1998 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN98\_39 | 1998 total manufacturing establishments 10+ employees (MSA) |
| Response | MAN01 | 2001 total manufacturing establishments (MSA) |
| Response | MAN01\_12 | 2001 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN01\_39 | 2001 total manufacturing establishments, 10+ employees (MSA) |
| Response | OFF98 | 1998 total office establishments (MSA) |
| Response | OFF98\_12 | 1998 total office establishments, 1-9 employees (MSA) |
| Response | OFF98\_39 | 1998 total office establishments, 10+ employees (MSA) |
| Response | OFF01 | 2001 total office establishments (MSA) |
| Response | OFF01\_12 | 2001 total office establishments, 1-9 employees (MSA) |
| Response | OFF01\_39 | 2001 total office establishments, 10+ employees (MSA) |
| Response | INFO98 | 1998 total information establishments (MSA) |
| Response | INFO98\_12 | 1998 total information establishments, 1-9 employees (MSA) |
| Response | INFO98\_39 | 1998 total information establishments, 10+ employees (MSA) |
| Response | INFO01 | 2001 total information establishments (MSA) |
| Response | INFO01\_12 | 2001 total information establishments, 1-9 employees (MSA) |
| Response | INFO01\_39 | 2001 total information establishments, 10+ employees (MSA) |

**List of variables in the “Lansing Industry Mix” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | PCTIME | Industry mix effect, percent (M) |
| Explanatory | PCTCSE | Competitive shift effect, percent (S) |
| Explanatory | PCTGRO | Percent growth establishments, 1998-2001 (R) |
| Explanatory | rateuniv | % of higher than Bachelor's degree to the total population |
| Explanatory | hin | Median household income in 1989 |
| Explanatory | youth | % of 18-24 years old to the total population |
| Response | MAN98 | 1998 total manufacturing establishments (MSA) |
| Response | MAN98\_12 | 1998 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN98\_39 | 1998 total manufacturing establishments 10+ employees (MSA) |
| Response | MAN01 | 2001 total manufacturing establishments (MSA) |
| Response | MAN01\_12 | 2001 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN01\_39 | 2001 total manufacturing establishments, 10+ employees (MSA) |
| Response | OFF98 | 1998 total office establishments (MSA) |
| Response | OFF98\_12 | 1998 total office establishments, 1-9 employees (MSA) |
| Response | OFF98\_39 | 1998 total office establishments, 10+ employees (MSA) |
| Response | OFF01 | 2001 total office establishments (MSA) |
| Response | OFF01\_12 | 2001 total office establishments, 1-9 employees (MSA) |
| Response | OFF01\_39 | 2001 total office establishments, 10+ employees (MSA) |
| Response | INFO98 | 1998 total information establishments (MSA) |
| Response | INFO98\_12 | 1998 total information establishments, 1-9 employees (MSA) |
| Response | INFO98\_39 | 1998 total information establishments, 10+ employees (MSA) |
| Response | INFO01 | 2001 total information establishments (MSA) |
| Response | INFO01\_12 | 2001 total information establishments, 1-9 employees (MSA) |
| Response | INFO01\_39 | 2001 total information establishments, 10+ employees (MSA) |

**List of variables in the “Orlando Industry Mix” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | PCTIME | Industry mix effect, percent (M) |
| Explanatory | PCTCSE | Competitive shift effect, percent (S) |
| Explanatory | PCTGRO | Percent growth establishments, 1998-2001 (R) |
| Explanatory | rateuniv | % of higher than Bachelor's degree to the total population |
| Explanatory | hin | Median household income in 1989 |
| Explanatory | youth | % of 18-24 years old to the total population |
| Response | MAN98 | 1998 total manufacturing establishments (MSA) |
| Response | MAN98\_12 | 1998 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN98\_39 | 1998 total manufacturing establishments 10+ employees (MSA) |
| Response | MAN01 | 2001 total manufacturing establishments (MSA) |
| Response | MAN01\_12 | 2001 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN01\_39 | 2001 total manufacturing establishments, 10+ employees (MSA) |
| Response | OFF98 | 1998 total office establishments (MSA) |
| Response | OFF98\_12 | 1998 total office establishments, 1-9 employees (MSA) |
| Response | OFF98\_39 | 1998 total office establishments, 10+ employees (MSA) |
| Response | OFF01 | 2001 total office establishments (MSA) |
| Response | OFF01\_12 | 2001 total office establishments, 1-9 employees (MSA) |
| Response | OFF01\_39 | 2001 total office establishments, 10+ employees (MSA) |
| Response | INFO98 | 1998 total information establishments (MSA) |
| Response | INFO98\_12 | 1998 total information establishments, 1-9 employees (MSA) |
| Response | INFO98\_39 | 1998 total information establishments, 10+ employees (MSA) |
| Response | INFO01 | 2001 total information establishments (MSA) |
| Response | INFO01\_12 | 2001 total information establishments, 1-9 employees (MSA) |
| Response | INFO01\_39 | 2001 total information establishments, 10+ employees (MSA) |

**List of variables in the “Sacramento Industry Mix” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | PCTIME | Industry mix effect, percent (M) |
| Explanatory | PCTCSE | Competitive shift effect, percent (S) |
| Explanatory | PCTGRO | Percent growth establishments, 1998-2001 (R) |
| Explanatory | rateuniv | % of higher than Bachelor's degree to the total population |
| Explanatory | hin | Median household income in 1989 |
| Explanatory | youth | % of 18-24 years old to the total population |
| Response | MAN98 | 1998 total manufacturing establishments (MSA) |
| Response | MAN98\_12 | 1998 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN98\_39 | 1998 total manufacturing establishments 10+ employees (MSA) |
| Response | MAN01 | 2001 total manufacturing establishments (MSA) |
| Response | MAN01\_12 | 2001 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN01\_39 | 2001 total manufacturing establishments, 10+ employees (MSA) |
| Response | OFF98 | 1998 total office establishments (MSA) |
| Response | OFF98\_12 | 1998 total office establishments, 1-9 employees (MSA) |
| Response | OFF98\_39 | 1998 total office establishments, 10+ employees (MSA) |
| Response | OFF01 | 2001 total office establishments (MSA) |
| Response | OFF01\_12 | 2001 total office establishments, 1-9 employees (MSA) |
| Response | OFF01\_39 | 2001 total office establishments, 10+ employees (MSA) |
| Response | INFO98 | 1998 total information establishments (MSA) |
| Response | INFO98\_12 | 1998 total information establishments, 1-9 employees (MSA) |
| Response | INFO98\_39 | 1998 total information establishments, 10+ employees (MSA) |
| Response | INFO01 | 2001 total information establishments (MSA) |
| Response | INFO01\_12 | 2001 total information establishments, 1-9 employees (MSA) |
| Response | INFO01\_39 | 2001 total information establishments, 10+ employees (MSA) |

**List of variables in the “Seattle Industry Mix” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | PCTIME | Industry mix effect, percent (M) |
| Explanatory | PCTCSE | Competitive shift effect, percent (S) |
| Explanatory | PCTGRO | Percent growth establishments, 1998-2001 (R) |
| Explanatory | rateuniv | % of higher than Bachelor's degree to the total population |
| Explanatory | hin | Median household income in 1989 |
| Explanatory | youth | % of 18-24 years old to the total population |
| Response | MAN98 | 1998 total manufacturing establishments (MSA) |
| Response | MAN98\_12 | 1998 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN98\_39 | 1998 total manufacturing establishments 10+ employees (MSA) |
| Response | MAN01 | 2001 total manufacturing establishments (MSA) |
| Response | MAN01\_12 | 2001 total manufacturing establishments, 1-9 employees (MSA) |
| Response | MAN01\_39 | 2001 total manufacturing establishments, 10+ employees (MSA) |
| Response | OFF98 | 1998 total office establishments (MSA) |
| Response | OFF98\_12 | 1998 total office establishments, 1-9 employees (MSA) |
| Response | OFF98\_39 | 1998 total office establishments, 10+ employees (MSA) |
| Response | OFF01 | 2001 total office establishments (MSA) |
| Response | OFF01\_12 | 2001 total office establishments, 1-9 employees (MSA) |
| Response | OFF01\_39 | 2001 total office establishments, 10+ employees (MSA) |
| Response | INFO98 | 1998 total information establishments (MSA) |
| Response | INFO98\_12 | 1998 total information establishments, 1-9 employees (MSA) |
| Response | INFO98\_39 | 1998 total information establishments, 10+ employees (MSA) |
| Response | INFO01 | 2001 total information establishments (MSA) |
| Response | INFO01\_12 | 2001 total information establishments, 1-9 employees (MSA) |
| Response | INFO01\_39 | 2001 total information establishments, 10+ employees (MSA) |

**List of variables in the “Chicago Health and Socio-Economic” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | COIave | Average Childhood Opportunity Index |
| Explanatory | HISave | Average Economic Hardship Index |
| Explanatory | SESave | Average SES |
| Explanatory | Hlitave | Average health literacy |
| Response | PretBrth | Preterm births as percent of live births |
| Response | TeenBirth | Teen birth rate per 1000 females aged 15-19 |
| Response | Assault | Homicide deaths per 100,000 persons (age adjusted) |
| Response | BrstCancr | Breast cancer deaths per 100,000 females (age adjusted) |
| Response | CancerAll | Cancer deaths per 100,000 persons (age adjusted) |
| Response | Colorect | Colorectal cancer deaths per 100,000 persons (age adjusted) |
| Response | DiabetM | Diabetes-related deaths per 100,000 persons (age adjusted) |
| Response | FirearmM | Firearm-related deaths per 100,000 persons (age adjusted) |
| Response | InfntMR | Infant mortality rate: deaths per 1000 live births |
| Response | LungCancer | Lung cancer deaths per 100,000 persons (age adjusted) |
| Response | ProstateC | Prostate cancer deaths per 100,000 males (age adjusted) |
| Response | Stroke | Stroke deaths per 100,000 persons (age adjusted) |
| Response | ChlBLLS | Childhood blood lead level screening, per 1000 children aged 0-6 years |
| Response | ChlLeadP | Childhood lead poisoning per 100 |
| Response | GonorrF | Gonorrhea in females, per 10,000 females age 15-44 |
| Response | GonorrM | Gonorrhea in males, per 10,000 females age 15-44 |
| Response | Tuberc | Tuberculosis per 100,000 persons |

**List of variables in the “Chicago Health Indicators” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | Below\_evel | Percent of households below poverty level |
| Explanatory | Crowd\_sing | Percent of occupied housing units |
| Explanatory | Dependency | Percent of persons aged less than 16 or more than 64 years |
| Explanatory | NoHig\_loma | Percent of persons age 25 or higher without high school diploma |
| Explanatory | PerCa\_come | Percapita income, 2011 adjusted dollars |
| Explanatory | Unemp\_ment | Unemployment as a percent of persons aged 16 or older |
| Response | BirthRate | Births per 1,000 residents |
| Response | Gener\_Rate | General fertility rate per 1,000 females 15-44 |
| Response | LowBi\_ight | Percent of live births with low birth weight |
| Response | Prena\_ster | Percent of live births who had prenatal care beginning in first trimester |
| Response | Prete\_rths | Preterm births as percent of live births |
| Response | TeenB\_Rate | Teen birth rate per 1,000 females age 15-19 |
| Response | Assau\_cide | Assault(homicide) per 100,000 people, age adjusted. |
| Response | Breas\_ales | Breast cancer deaths per 100,000 females, age adjusted. |
| Response | Cance\_ites | Cancer deaths per 100,000 people, age adjusted. |
| Response | Color\_ncer | Colorectal cancer deaths per 100,000 people, age adjusted. |
| Response | Diabe\_ated | Diabetes-related deaths per 100,000 people, age adjusted. |
| Response | Firea\_ated | Firearm related deaths per 1000,000 people, age adjusted. |
| Response | Infan\_Rate | Infant mortality rate per 1,000 live births |
| Response | LungCancer | Lung cancer deaths per 100,000 people, age adjusted. |
| Response | Prost\_ales | Prostate cancer deaths per 100,000 males, age adjusted. |
| Response | Strok\_ease | Stroke deaths per 100,000 people, age adjusted. |
| Response | Child\_ning | Childhood blood lead level screening per 1,000 children age 0-6 years |
| Response | Chil\_ing\_1 | Childhood lead poisoning per 100 |
| Response | Gonor\_ales | Gonorrhea in females, per 100,000 females age 15-44 |
| Response | Gono\_les\_1 | Gonorrhea in females, per 100,000 females age 15-44 |
| Response | Tuber\_osis | Tuberculosis per 100,000 people |

**List of variables in the “Cincinnati Crime” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | HH\_NON | % of non family households to the total number of households |
| Explanatory | HU\_VACANT | % of vacant housing units to the total number of housing units |
| Explanatory | GROUP\_QUAR | % of population living in group quarters instead of traditional households |
| Explanatory | GQ\_NONINST | % of non-institutional population |
| Explanatory | NONWHITE | % of nonwhite population to the total population |
| Explanatory | JUVENILE | % of 15-24 years old to the total population |
| Response | BURG | Counts of burglary per 1,000 persons |
| Response | ASSA | Counts of assault per 1,000 persons |
| Response | THEF | Counts of theft per 1,000 persons |

**List of variables in the “Columbus Crime” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | INC | household income (in $1,000) |
| Explanatory | HOVAL | housing value (in $1,000) |
| Explanatory | OPEN | open space (area) |
| Explanatory | PLUMB | percent housing units without plumbing |
| Explanatory | DISCBD | distance to CBD |
| Explanatory | NSA | north-south indicator variable (North = 1) |
| Explanatory | NSB | other north-south indicator variable (North = 1) |
| Explanatory | EW | east-west indicator variable (East = 1) |
| Explanatory | CP | core-periphery indicator variable (Core = 1) |
| Response | CRIME | residential burglaries and vehicle thefts per 1000 households |

**List of variables in the “Denver Crime” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pnonwhite | % of nonwhite population to the total population |
| Explanatory | pvacant | % of vacant housing units to the total number of housing units |
| Explanatory | prent | % of renter-occupied housing units to the total numer of housing units |
| Explanatory | psinglef | % of single-headed households to the total number of households |
| Explanatory | pjuvenile | % of juvenile population to the total population |
| Response | aggravated.assault.dv2017 | Assault causing serious bodily injury - domestic violence per 100,000 persons in 2017 |
| Response | aggravated.assault.dv2018 | Assault causing serious bodily injury - domestic violence per 100,000 persons in 2018 |
| Response | aggravated.assault2014 | Assault causing serious bodily injury per 100,000 persons in 2014 |
| Response | aggravated.assault2015 | Assault causing serious bodily injury per 100,000 persons in 2015 |
| Response | aggravated.assault2016 | Assault causing serious bodily injury per 100,000 persons in 2016 |
| Response | aggravated.assault2017 | Assault causing serious bodily injury per 100,000 persons in 2017 |
| Response | aggravated.assault2018 | Assault causing serious bodily injury per 100,000 persons in 2018 |
| Response | assault.dv2014 | Assault causing minor bodily injury - domestic violence per 100,000 persons in 2014 |
| Response | assault.dv2015 | Assault causing minor bodily injury - domestic violence per 100,000 persons in 2015 |
| Response | assault.dv2016 | Assault causing minor bodily injury - domestic violence per 100,000 persons in 2016 |
| Response | assault.dv2017 | Assault causing minor bodily injury - domestic violence per 100,000 persons in 2017 |
| Response | assault.dv2018 | Assault causing minor bodily injury - domestic violence per 100,000 persons in 2018 |
| Response | assault.simple2014 | Assault causing minor bodily injury per 100,000 persons in 2014 |
| Response | assault.simple2015 | Assault causing minor bodily injury per 100,000 persons in 2015 |
| Response | assault.simple2016 | Assault causing minor bodily injury per 100,000 persons in 2016 |
| Response | assault.simple2017 | Assault causing minor bodily injury per 100,000 persons in 2017 |
| Response | assault.simple2018 | Assault causing minor bodily injury per 100,000 persons in 2018 |
| Response | burglary.business.by.force2014 | Burglary of a business with forced entry per 100,000 persons in 2014 |
| Response | burglary.business.by.force2015 | Burglary of a business with forced entry per 100,000 persons in 2015 |
| Response | burglary.business.by.force2016 | Burglary of a business with forced entry per 100,000 persons in 2016 |
| Response | burglary.business.by.force2017 | Burglary of a business with forced entry per 100,000 persons in 2017 |
| Response | burglary.business.by.force2018 | Burglary of a business with forced entry per 100,000 persons in 2018 |
| Response | burglary.business.no.force2016 | Burglary of a business without forced entry per 100,000 persons in 2016 |
| Response | burglary.business.no.force2017 | Burglary of a business without forced entry per 100,000 persons in 2017 |
| Response | burglary.business.no.force2018 | Burglary of a business without forced entry per 100,000 persons in 2018 |
| Response | burglary.residence.by.force2014 | Burglary of a residence with forced entry per 100,000 persons in 2014 |
| Response | burglary.residence.by.force2015 | Burglary of a residence with forced entry per 100,000 persons in 2015 |
| Response | burglary.residence.by.force2016 | Burglary of a residence with forced entry per 100,000 persons in 2016 |
| Response | burglary.residence.by.force2017 | Burglary of a residence with forced entry per 100,000 persons in 2017 |
| Response | burglary.residence.by.force2018 | Burglary of a residence with forced entry per 100,000 persons in 2018 |
| Response | burglary.residence.no.force2014 | Burglary of a residence without forced entry per 100,000 persons in 2014 |
| Response | burglary.residence.no.force2015 | Burglary of a residence without forced entry per 100,000 persons in 2015 |
| Response | burglary.residence.no.force2016 | Burglary of a residence without forced entry per 100,000 persons in 2016 |
| Response | burglary.residence.no.force2017 | Burglary of a residence without forced entry per 100,000 persons in 2017 |
| Response | burglary.residence.no.force2018 | Burglary of a residence without forced entry per 100,000 persons in 2018 |
| Response | criminal.mischief.graffiti2014 | Criminal mischief - graffiti per 100,000 persons in 2014 |
| Response | criminal.mischief.graffiti2015 | Criminal mischief - graffiti per 100,000 persons in 2015 |
| Response | criminal.mischief.graffiti2016 | Criminal mischief - graffiti per 100,000 persons in 2016 |
| Response | criminal.mischief.graffiti2017 | Criminal mischief - graffiti per 100,000 persons in 2017 |
| Response | criminal.mischief.mtr.veh2014 | Criminal mischief to a motor vehicle per 100,000 persons in 2014 |
| Response | criminal.mischief.mtr.veh2015 | Criminal mischief to a motor vehicle per 100,000 persons in 2015 |
| Response | criminal.mischief.mtr.veh2016 | Criminal mischief to a motor vehicle per 100,000 persons in 2016 |
| Response | criminal.mischief.mtr.veh2017 | Criminal mischief to a motor vehicle per 100,000 persons in 2017 |
| Response | criminal.mischief.mtr.veh2018 | Criminal mischief to a motor vehicle per 100,000 persons in 2018 |
| Response | criminal.mischief.other2014 | Criminal mischief - other per 100,000 persons in 2014 |
| Response | criminal.mischief.other2015 | Criminal mischief - other per 100,000 persons in 2015 |
| Response | criminal.mischief.other2016 | Criminal mischief - other per 100,000 persons in 2016 |
| Response | criminal.mischief.other2017 | Criminal mischief - other per 100,000 persons in 2017 |
| Response | criminal.mischief.other2018 | Criminal mischief - other per 100,000 persons in 2018 |
| Response | criminal.trespassing2014 | Criminal trespassing per 100,000 persons in 2014 |
| Response | criminal.trespassing2015 | Criminal trespassing per 100,000 persons in 2015 |
| Response | criminal.trespassing2016 | Criminal trespassing per 100,000 persons in 2016 |
| Response | criminal.trespassing2017 | Criminal trespassing per 100,000 persons in 2017 |
| Response | criminal.trespassing2018 | Criminal trespassing per 100,000 persons in 2018 |
| Response | curfew2014 | Curfew per 100,000 persons in 2014 |
| Response | curfew2016 | Curfew per 100,000 persons in 2016 |
| Response | disturbing.the.peace2014 | Disturbing the peace per 100,000 persons in 2014 |
| Response | disturbing.the.peace2015 | Disturbing the peace per 100,000 persons in 2015 |
| Response | disturbing.the.peace2016 | Disturbing the peace per 100,000 persons in 2016 |
| Response | disturbing.the.peace2017 | Disturbing the peace per 100,000 persons in 2017 |
| Response | disturbing.the.peace2018 | Disturbing the peace per 100,000 persons in 2018 |
| Response | drug.cocaine.possess2014 | Possession of cocaine per 100,000 persons in 2014 |
| Response | drug.cocaine.possess2015 | Possession of cocaine per 100,000 persons in 2015 |
| Response | drug.cocaine.possess2016 | Possession of cocaine per 100,000 persons in 2016 |
| Response | drug.cocaine.possess2017 | Possession of cocaine per 100,000 persons in 2017 |
| Response | drug.cocaine.possess2018 | Possession of cocaine per 100,000 persons in 2018 |
| Response | drug.heroin.possess2015 | Possession of heroin per 100,000 persons in 2015 |
| Response | drug.heroin.possess2016 | Possession of heroin per 100,000 persons in 2016 |
| Response | drug.heroin.possess2017 | Possession of heroin per 100,000 persons in 2017 |
| Response | drug.heroin.possess2018 | Possession of heroin per 100,000 persons in 2018 |
| Response | drug.marijuana.possess2014 | Possession of marijuana per 100,000 persons in 2014 |
| Response | drug.marijuana.possess2015 | Possession of marijuana per 100,000 persons in 2015 |
| Response | drug.marijuana.possess2016 | Possession of marijuana per 100,000 persons in 2016 |
| Response | drug.methampetamine.possess2014 | Possession of methampetamine per 100,000 persons in 2014 |
| Response | drug.methampetamine.possess2015 | Possession of methampetamine per 100,000 persons in 2015 |
| Response | drug.methampetamine.possess2016 | Possession of methampetamine per 100,000 persons in 2016 |
| Response | drug.methampetamine.possess2017 | Possession of methampetamine per 100,000 persons in 2017 |
| Response | drug.methampetamine.possess2018 | Possession of methampetamine per 100,000 persons in 2018 |
| Response | drug.poss.paraphernalia2014 | Possession of drug paraphernalia per 100,000 persons in 2014 |
| Response | drug.poss.paraphernalia2015 | Possession of drug paraphernalia per 100,000 persons in 2015 |
| Response | drug.poss.paraphernalia2016 | Possession of drug paraphernalia per 100,000 persons in 2016 |
| Response | drug.poss.paraphernalia2017 | Possession of drug paraphernalia per 100,000 persons in 2017 |
| Response | drug.poss.paraphernalia2018 | Possession of drug paraphernalia per 100,000 persons in 2018 |
| Response | fraud.identity.theft2015 | Identity theft per 100,000 persons in 2015 |
| Response | liquor.possession2014 | Illegal possession of liquor per 100,000 persons in 2014 |
| Response | liquor.possession2015 | Illegal possession of liquor per 100,000 persons in 2015 |
| Response | liquor.possession2016 | Illegal possession of liquor per 100,000 persons in 2016 |
| Response | liquor.possession2017 | Illegal possession of liquor per 100,000 persons in 2017 |
| Response | liquor.possession2018 | Illegal possession of liquor per 100,000 persons in 2018 |
| Response | menacing.felony.w.weap2014 | Threatening to imminently injure with a weapon per 100,000 persons in 2014 |
| Response | menacing.felony.w.weap2015 | Threatening to imminently injure with a weapon per 100,000 persons in 2015 |
| Response | menacing.felony.w.weap2016 | Threatening to imminently injure with a weapon per 100,000 persons in 2016 |
| Response | menacing.felony.w.weap2017 | Threatening to imminently injure with a weapon per 100,000 persons in 2017 |
| Response | menacing.felony.w.weap2018 | Threatening to imminently injure with a weapon per 100,000 persons in 2018 |
| Response | police.false.information2014 | Giving false information to police per 100,000 persons in 2014 |
| Response | police.false.information2015 | Giving false information to police per 100,000 persons in 2015 |
| Response | police.false.information2016 | Giving false information to police per 100,000 persons in 2016 |
| Response | police.false.information2017 | Giving false information to police per 100,000 persons in 2017 |
| Response | police.false.information2018 | Giving false information to police per 100,000 persons in 2018 |
| Response | police.interference2014 | Obstructing police per 100,000 persons in 2014 |
| Response | police.interference2015 | Obstructing police per 100,000 persons in 2015 |
| Response | police.interference2016 | Obstructing police per 100,000 persons in 2016 |
| Response | police.interference2018 | Obstructing police per 100,000 persons in 2018 |
| Response | public.order.crimes.other2014 | Public order offense - other per 100,000 persons in 2014 |
| Response | public.order.crimes.other2015 | Public order offense - other per 100,000 persons in 2015 |
| Response | public.order.crimes.other2016 | Public order offense - other per 100,000 persons in 2016 |
| Response | public.order.crimes.other2017 | Public order offense - other per 100,000 persons in 2017 |
| Response | public.order.crimes.other2018 | Public order offense - other per 100,000 persons in 2018 |
| Response | public.peace.other2014 | Public peace - other per 100,000 persons in 2014 |
| Response | public.peace.other2015 | Public peace - other per 100,000 persons in 2015 |
| Response | public.peace.other2016 | Public peace - other per 100,000 persons in 2016 |
| Response | robbery.street2014 | Robbery of a person in the open per 100,000 persons in 2014 |
| Response | robbery.street2015 | Robbery of a person in the open per 100,000 persons in 2015 |
| Response | robbery.street2016 | Robbery of a person in the open per 100,000 persons in 2016 |
| Response | robbery.street2017 | Robbery of a person in the open per 100,000 persons in 2017 |
| Response | robbery.street2018 | Robbery of a person in the open per 100,000 persons in 2018 |
| Response | theft.bicycle2014 | Bicycle theft per 100,000 persons in 2014 |
| Response | theft.bicycle2015 | Bicycle theft per 100,000 persons in 2015 |
| Response | theft.bicycle2016 | Bicycle theft per 100,000 persons in 2016 |
| Response | theft.bicycle2017 | Bicycle theft per 100,000 persons in 2017 |
| Response | theft.bicycle2018 | Bicycle theft per 100,000 persons in 2018 |
| Response | theft.from.bldg2014 | Theft from a building per 100,000 persons in 2014 |
| Response | theft.from.bldg2015 | Theft from a building per 100,000 persons in 2015 |
| Response | theft.from.bldg2016 | Theft from a building per 100,000 persons in 2016 |
| Response | theft.from.bldg2017 | Theft from a building per 100,000 persons in 2017 |
| Response | theft.from.bldg2018 | Theft from a building per 100,000 persons in 2018 |
| Response | theft.items.from.vehicle2014 | Theft of items from a vehicle per 100,000 persons in 2014 |
| Response | theft.items.from.vehicle2015 | Theft of items from a vehicle per 100,000 persons in 2015 |
| Response | theft.items.from.vehicle2016 | Theft of items from a vehicle per 100,000 persons in 2016 |
| Response | theft.items.from.vehicle2017 | Theft of items from a vehicle per 100,000 persons in 2017 |
| Response | theft.items.from.vehicle2018 | Theft of items from a vehicle per 100,000 persons in 2018 |
| Response | theft.of.motor.vehicle2014 | Motor vehicle theft per 100,000 persons in 2014 |
| Response | theft.of.motor.vehicle2015 | Motor vehicle theft per 100,000 persons in 2015 |
| Response | theft.of.motor.vehicle2016 | Motor vehicle theft per 100,000 persons in 2016 |
| Response | theft.of.motor.vehicle2017 | Motor vehicle theft per 100,000 persons in 2017 |
| Response | theft.of.motor.vehicle2018 | Motor vehicle theft per 100,000 persons in 2018 |
| Response | theft.other2014 | Theft - other per 100,000 persons in 2014 |
| Response | theft.other2015 | Theft - other per 100,000 persons in 2015 |
| Response | theft.other2016 | Theft - other per 100,000 persons in 2016 |
| Response | theft.other2017 | Theft - other per 100,000 persons in 2017 |
| Response | theft.other2018 | Theft - other per 100,000 persons in 2018 |
| Response | theft.parts.from.vehicle2014 | Theft of parts from a vehicle per 100,000 persons in 2014 |
| Response | theft.parts.from.vehicle2015 | Theft of parts from a vehicle per 100,000 persons in 2015 |
| Response | theft.parts.from.vehicle2016 | Theft of parts from a vehicle per 100,000 persons in 2016 |
| Response | theft.parts.from.vehicle2017 | Theft of parts from a vehicle per 100,000 persons in 2017 |
| Response | theft.parts.from.vehicle2018 | Theft of parts from a vehicle per 100,000 persons in 2018 |
| Response | theft.shoplift2014 | Shoplifting per 100,000 persons in 2014 |
| Response | theft.shoplift2015 | Shoplifting per 100,000 persons in 2015 |
| Response | theft.shoplift2016 | Shoplifting per 100,000 persons in 2016 |
| Response | theft.shoplift2017 | Shoplifting per 100,000 persons in 2017 |
| Response | theft.shoplift2018 | Shoplifting per 100,000 persons in 2018 |
| Response | threats.to.injure2014 | Threatening to injure per 100,000 persons in 2014 |
| Response | threats.to.injure2015 | Threatening to injure per 100,000 persons in 2015 |
| Response | threats.to.injure2016 | Threatening to injure per 100,000 persons in 2016 |
| Response | threats.to.injure2017 | Threatening to injure per 100,000 persons in 2017 |
| Response | threats.to.injure2018 | Threatening to injure per 100,000 persons in 2018 |
| Response | traf.habitual.offender2014 | Habitual traffic offender per 100,000 persons in 2014 |
| Response | traf.habitual.offender2015 | Habitual traffic offender per 100,000 persons in 2015 |
| Response | traf.habitual.offender2016 | Habitual traffic offender per 100,000 persons in 2016 |
| Response | traf.habitual.offender2017 | Habitual traffic offender per 100,000 persons in 2017 |
| Response | traf.habitual.offender2018 | Habitual traffic offender per 100,000 persons in 2018 |
| Response | traf.other2014 | Traffic offense - other per 100,000 persons in 2014 |
| Response | traf.other2015 | Traffic offense - other per 100,000 persons in 2015 |
| Response | traf.other2016 | Traffic offense - other per 100,000 persons in 2016 |
| Response | traf.other2017 | Traffic offense - other per 100,000 persons in 2017 |
| Response | traf.other2018 | Traffic offense - other per 100,000 persons in 2018 |
| Response | traffic.accident.dui.duid2014 | Traffic accident - DUI-DUID per 100,000 persons in 2014 |
| Response | traffic.accident.dui.duid2015 | Traffic accident - DUI-DUID per 100,000 persons in 2015 |
| Response | traffic.accident.dui.duid2016 | Traffic accident - DUI-DUID per 100,000 persons in 2016 |
| Response | traffic.accident.dui.duid2017 | Traffic accident - DUI-DUID per 100,000 persons in 2017 |
| Response | traffic.accident.dui.duid2018 | Traffic accident - DUI-DUID per 100,000 persons in 2018 |
| Response | traffic.accident.hit.and.run2014 | Traffic accident - hit and run per 100,000 persons in 2014 |
| Response | traffic.accident.hit.and.run2015 | Traffic accident - hit and run per 100,000 persons in 2015 |
| Response | traffic.accident.hit.and.run2016 | Traffic accident - hit and run per 100,000 persons in 2016 |
| Response | traffic.accident.hit.and.run2017 | Traffic accident - hit and run per 100,000 persons in 2017 |
| Response | traffic.accident.hit.and.run2018 | Traffic accident - hit and run per 100,000 persons in 2018 |
| Response | traffic.accident2014 | Traffic accident per 100,000 persons in 2014 |
| Response | traffic.accident2015 | Traffic accident per 100,000 persons in 2015 |
| Response | traffic.accident2016 | Traffic accident per 100,000 persons in 2016 |
| Response | traffic.accident2017 | Traffic accident per 100,000 persons in 2017 |
| Response | traffic.accident2018 | Traffic accident per 100,000 persons in 2018 |
| Response | vehicular.eluding.no.chase2015 | Vehicular eluding - no chase per 100,000 persons in 2015 |
| Response | vehicular.eluding.no.chase2016 | Vehicular eluding - no chase per 100,000 persons in 2016 |
| Response | vehicular.eluding.no.chase2017 | Vehicular eluding - no chase per 100,000 persons in 2017 |
| Response | vehicular.eluding.no.chase2018 | Vehicular eluding - no chase per 100,000 persons in 2018 |
| Response | violation.of.court.order2014 | Violation of a court order per 100,000 persons in 2014 |
| Response | violation.of.court.order2015 | Violation of a court order per 100,000 persons in 2015 |
| Response | violation.of.court.order2016 | Violation of a court order per 100,000 persons in 2016 |
| Response | violation.of.court.order2017 | Violation of a court order per 100,000 persons in 2017 |
| Response | violation.of.court.order2018 | Violation of a court order per 100,000 persons in 2018 |
| Response | violation.of.restraining.order2014 | Violation of a restraining order per 100,000 persons in 2014 |
| Response | violation.of.restraining.order2015 | Violation of a restraining order per 100,000 persons in 2015 |
| Response | violation.of.restraining.order2016 | Violation of a restraining order per 100,000 persons in 2016 |
| Response | violation.of.restraining.order2017 | Violation of a restraining order per 100,000 persons in 2017 |
| Response | violation.of.restraining.order2018 | Violation of a restraining order per 100,000 persons in 2018 |
| Response | weapon.by.prev.offender.powpo2016 | Possession of a weapon - POWPO per 100,000 persons in 2016 |
| Response | weapon.unlawful.discharge.of2016 | Unlawful discharge of a weapon per 100,000 persons in 2016 |
| Response | weapon.unlawful.discharge.of2017 | Unlawful discharge of a weapon per 100,000 persons in 2017 |
| Response | weapon.unlawful.discharge.of2018 | Unlawful discharge of a weapon per 100,000 persons in 2018 |

**List of variables in the “Natregimes” (National Crime) dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | RD60 | resource deprivation 1960 (principal component) |
| Explanatory | PS60 | population structure 1960 (principal component) |
| Explanatory | UE60 | unemployment rate 1960 |
| Explanatory | DV60 | resource deprivation 1960 (principal component) |
| Explanatory | MA60 | median age 1960 |
| Explanatory | RD70 | resource deprivation 1970 (principal component) |
| Explanatory | PS70 | population structure 1970 (principal component) |
| Explanatory | UE70 | unemployment rate 1970 |
| Explanatory | DV70 | resource deprivation 1970 (principal component) |
| Explanatory | MA70 | median age 1970 |
| Explanatory | RD80 | resource deprivation 1980 (principal component) |
| Explanatory | PS80 | population structure 1980 (principal component) |
| Explanatory | UE80 | unemployment rate 1980 |
| Explanatory | DV80 | resource deprivation 1980 (principal component) |
| Explanatory | MA80 | median age 1980 |
| Explanatory | RD90 | resource deprivation 1990 (principal component) |
| Explanatory | PS90 | population structure 1990 (principal component) |
| Explanatory | UE90 | unemployment rate 1990 |
| Explanatory | DV90 | resource deprivation 1990 (principal component) |
| Explanatory | MA90 | median age 1990 |
| Response | HR60 | homicide rate per 100,000 in 1960 |
| Response | HR70 | homicide rate per 100,000 in 1970 |
| Response | HR80 | homicide rate per 100,000 in 1980 |
| Response | HR90 | homicide rate per 100,000 in 1990 |

**List of variables in the “US Elections” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | ELDER14 | Persons 65 years and over, percent, 2014 |
| Explanatory | WHITE14 | White alone, not Hispanic or Latino, percent, 2014 |
| Explanatory | FEMALE14 | Female persons, percent, 2014 |
| Explanatory | LATINO14 | Hispanic or Latino, percent, 2014 |
| Explanatory | RETAIL07 | Retail sales per capita, 2007 |
| Explanatory | ESTAB13 | Nonemployer establishments, 2013 |
| Explanatory | INCOME13 | Median household income, 2009-2013 |
| Explanatory | POVERTY13 | Persons below poverty level, percent, 2009-2013 |
| Response | diff\_2016 | Difference between the number of votes for Republican and Democratic candidates in the 2016 election |
| Response | diff\_2012 | Difference between the number of votes for Republican and Democratic candidates in the 2012 election |

**List of variables in the “Phoenix ACS” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | renter\_rt | Rate of renters as a share of the total population (in percentage) |
| Explanatory | vac\_hsu\_rt | Rate of vacant housing units (as a percentage of total units) |
| Explanatory | white\_rt | Rate of white population (as a percentage of the total population) |
| Explanatory | black\_rt | Rate of black population (as a percentage of the total population) |
| Explanatory | hisp\_rt | Rate of hispanic population (as a percentage of the total population) |
| Explanatory | fem\_nh\_rt | Rate of females head of the household, no husband (as a percentage of the total population) |
| Response | inc | ACS estimate of per capita income |

**List of variables in the “MSA Employment (Charleston, South Carolina)” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pov\_tot1k | % of population for whom poverty status is determined: Income in 1999 below poverty level |
| Explanatory | hh\_inc1k | Households: Median household income in 1999 |
| Explanatory | hsg\_val1k | Owner-occupied housing units: Median value |
| Response | emp\_away\_p | Workers 16 years and over: Did not work at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_home\_p | Workers 16 years and over: Worked at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_29\_p | Workers 16 years and over: Did not work at home; Travel time to work; Less than 30 minutes (percentage to the total number of workers 16 years and over) |
| Response | emp\_30\_p | Workers 16 years and over: Did not work at home; Travel time to work; 30 minutes or more (percentage to the total number of workers 16 years and over) |
| Response | emp\_civ\_p | Employed civilian population 16 years and over: Total (percentage to the total number of workers 16 years and over) |
| Response | occ\_man\_p | Employed civilian population 16 years and over: Production occupations (percentage to the total number of workers 16 years and over) |
| Response | occ\_off1\_p | Employed civilian population 16 years and over: Office (001-219 except 020, 021) (percentage to the total number of workers 16 years and over) |
| Response | occ\_info\_p | Employed civilian population 16 years and over: Computer and mathematical occupations (percentage to the total number of workers 16 years and over) |

**List of variables in the “MSA Employment (Hickory, North Carolina)” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pov\_tot1k | % of population for whom poverty status is determined: Income in 1999 below poverty level |
| Explanatory | hh\_inc1k | Households: Median household income in 1999 |
| Explanatory | hsg\_val1k | Owner-occupied housing units: Median value |
| Response | emp\_away\_p | Workers 16 years and over: Did not work at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_home\_p | Workers 16 years and over: Worked at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_29\_p | Workers 16 years and over: Did not work at home; Travel time to work; Less than 30 minutes (percentage to the total number of workers 16 years and over) |
| Response | emp\_30\_p | Workers 16 years and over: Did not work at home; Travel time to work; 30 minutes or more (percentage to the total number of workers 16 years and over) |
| Response | emp\_civ\_p | Employed civilian population 16 years and over: Total (percentage to the total number of workers 16 years and over) |
| Response | occ\_man\_p | Employed civilian population 16 years and over: Production occupations (percentage to the total number of workers 16 years and over) |
| Response | occ\_off1\_p | Employed civilian population 16 years and over: Office (001-219 except 020, 021) (percentage to the total number of workers 16 years and over) |
| Response | occ\_info\_p | Employed civilian population 16 years and over: Computer and mathematical occupations (percentage to the total number of workers 16 years and over) |
| Response | emp\_away\_p | Workers 16 years and over: Did not work at home (percentage to the total number of workers 16 years and over) |

**List of variables in the “MSA Employment (Lansing, Michigan)” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pov\_tot1k | % of population for whom poverty status is determined: Income in 1999 below poverty level |
| Explanatory | hh\_inc1k | Households: Median household income in 1999 |
| Explanatory | hsg\_val1k | Owner-occupied housing units: Median value |
| Response | emp\_home\_p | Workers 16 years and over: Worked at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_29\_p | Workers 16 years and over: Did not work at home; Travel time to work; Less than 30 minutes (percentage to the total number of workers 16 years and over) |
| Response | emp\_30\_p | Workers 16 years and over: Did not work at home; Travel time to work; 30 minutes or more (percentage to the total number of workers 16 years and over) |
| Response | emp\_civ\_p | Employed civilian population 16 years and over: Total (percentage to the total number of workers 16 years and over) |
| Response | occ\_man\_p | Employed civilian population 16 years and over: Production occupations (percentage to the total number of workers 16 years and over) |
| Response | occ\_off1\_p | Employed civilian population 16 years and over: Office (001-219 except 020, 021) (percentage to the total number of workers 16 years and over) |
| Response | occ\_info\_p | Employed civilian population 16 years and over: Computer and mathematical occupations (percentage to the total number of workers 16 years and over) |

**List of variables in the “MSA Employment (Milwaukee, Wisconsin)” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pov\_tot1k | % of population for whom poverty status is determined: Income in 1999 below poverty level |
| Explanatory | hh\_inc1k | Households: Median household income in 1999 |
| Explanatory | hsg\_val1k | Owner-occupied housing units: Median value |
| Response | emp\_away\_p | Workers 16 years and over: Did not work at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_home\_p | Workers 16 years and over: Worked at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_29\_p | Workers 16 years and over: Did not work at home; Travel time to work; Less than 30 minutes (percentage to the total number of workers 16 years and over) |
| Response | emp\_30\_p | Workers 16 years and over: Did not work at home; Travel time to work; 30 minutes or more (percentage to the total number of workers 16 years and over) |
| Response | emp\_civ\_p | Employed civilian population 16 years and over: Total (percentage to the total number of workers 16 years and over) |
| Response | occ\_man\_p | Employed civilian population 16 years and over: Production occupations (percentage to the total number of workers 16 years and over) |
| Response | occ\_off1\_p | Employed civilian population 16 years and over: Office (001-219 except 020, 021) (percentage to the total number of workers 16 years and over) |
| Response | occ\_info\_p | Employed civilian population 16 years and over: Computer and mathematical occupations (percentage to the total number of workers 16 years and over) |

**List of variables in the “MSA Employment (Orlando, Florida)” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pov\_tot1k | % of population for whom poverty status is determined: Income in 1999 below poverty level |
| Explanatory | hh\_inc1k | Households: Median household income in 1999 |
| Explanatory | hsg\_val1k | Owner-occupied housing units: Median value |
| Response | emp\_away\_p | Workers 16 years and over: Did not work at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_home\_p | Workers 16 years and over: Worked at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_29\_p | Workers 16 years and over: Did not work at home; Travel time to work; Less than 30 minutes (percentage to the total number of workers 16 years and over) |
| Response | emp\_30\_p | Workers 16 years and over: Did not work at home; Travel time to work; 30 minutes or more (percentage to the total number of workers 16 years and over) |
| Response | emp\_civ\_p | Employed civilian population 16 years and over: Total (percentage to the total number of workers 16 years and over) |
| Response | occ\_man\_p | Employed civilian population 16 years and over: Production occupations (percentage to the total number of workers 16 years and over) |
| Response | occ\_off1\_p | Employed civilian population 16 years and over: Office (001-219 except 020, 021) (percentage to the total number of workers 16 years and over) |
| Response | occ\_info\_p | Employed civilian population 16 years and over: Computer and mathematical occupations (percentage to the total number of workers 16 years and over) |

**List of variables in the “MSA Employment (Sacramento, California)” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pov\_tot1k | % of population for whom poverty status is determined: Income in 1999 below poverty level |
| Explanatory | hh\_inc1k | Households: Median household income in 1999 |
| Explanatory | hsg\_val1k | Owner-occupied housing units: Median value |
| Response | emp\_away\_p | Workers 16 years and over: Did not work at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_home\_p | Workers 16 years and over: Worked at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_29\_p | Workers 16 years and over: Did not work at home; Travel time to work; Less than 30 minutes (percentage to the total number of workers 16 years and over) |
| Response | emp\_30\_p | Workers 16 years and over: Did not work at home; Travel time to work; 30 minutes or more (percentage to the total number of workers 16 years and over) |
| Response | emp\_civ\_p | Employed civilian population 16 years and over: Total (percentage to the total number of workers 16 years and over) |
| Response | occ\_man\_p | Employed civilian population 16 years and over: Production occupations (percentage to the total number of workers 16 years and over) |
| Response | occ\_off1\_p | Employed civilian population 16 years and over: Office (001-219 except 020, 021) (percentage to the total number of workers 16 years and over) |
| Response | occ\_info\_p | Employed civilian population 16 years and over: Computer and mathematical occupations (percentage to the total number of workers 16 years and over) |

**List of variables in the “MSA Employment (Savannah, Georgia)” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pov\_tot1k | % of population for whom poverty status is determined: Income in 1999 below poverty level |
| Explanatory | hh\_inc1k | Households: Median household income in 1999 |
| Explanatory | hsg\_val1k | Owner-occupied housing units: Median value |
| Response | emp\_away\_p | Workers 16 years and over: Did not work at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_home\_p | Workers 16 years and over: Worked at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_29\_p | Workers 16 years and over: Did not work at home; Travel time to work; Less than 30 minutes (percentage to the total number of workers 16 years and over) |
| Response | emp\_30\_p | Workers 16 years and over: Did not work at home; Travel time to work; 30 minutes or more (percentage to the total number of workers 16 years and over) |
| Response | emp\_civ\_p | Employed civilian population 16 years and over: Total (percentage to the total number of workers 16 years and over) |
| Response | occ\_man\_p | Employed civilian population 16 years and over: Production occupations (percentage to the total number of workers 16 years and over) |
| Response | occ\_off1\_p | Employed civilian population 16 years and over: Office (001-219 except 020, 021) (percentage to the total number of workers 16 years and over) |
| Response | occ\_info\_p | Employed civilian population 16 years and over: Computer and mathematical occupations (percentage to the total number of workers 16 years and over) |

**List of variables in the “MSA Employment (Seattle, Washington)” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pov\_tot1k | % of population for whom poverty status is determined: Income in 1999 below poverty level |
| Explanatory | hh\_inc1k | Households: Median household income in 1999 |
| Explanatory | hsg\_val1k | Owner-occupied housing units: Median value |
| Response | emp\_away\_p | Workers 16 years and over: Did not work at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_home\_p | Workers 16 years and over: Worked at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_29\_p | Workers 16 years and over: Did not work at home; Travel time to work; Less than 30 minutes (percentage to the total number of workers 16 years and over) |
| Response | emp\_30\_p | Workers 16 years and over: Did not work at home; Travel time to work; 30 minutes or more (percentage to the total number of workers 16 years and over) |
| Response | emp\_civ\_p | Employed civilian population 16 years and over: Total (percentage to the total number of workers 16 years and over) |
| Response | occ\_man\_p | Employed civilian population 16 years and over: Production occupations (percentage to the total number of workers 16 years and over) |
| Response | occ\_off1\_p | Employed civilian population 16 years and over: Office (001-219 except 020, 021) (percentage to the total number of workers 16 years and over) |
| Response | occ\_info\_p | Employed civilian population 16 years and over: Computer and mathematical occupations (percentage to the total number of workers 16 years and over) |

**List of variables in the “MSA Employment (Tampa, Florida)” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | pov\_tot1k | % of population for whom poverty status is determined: Income in 1999 below poverty level |
| Explanatory | hh\_inc1k | Households: Median household income in 1999 |
| Explanatory | hsg\_val1k | Owner-occupied housing units: Median value |
| Response | emp\_away\_p | Workers 16 years and over: Did not work at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_home\_p | Workers 16 years and over: Worked at home (percentage to the total number of workers 16 years and over) |
| Response | emp\_29\_p | Workers 16 years and over: Did not work at home; Travel time to work; Less than 30 minutes (percentage to the total number of workers 16 years and over) |
| Response | emp\_30\_p | Workers 16 years and over: Did not work at home; Travel time to work; 30 minutes or more (percentage to the total number of workers 16 years and over) |
| Response | emp\_civ\_p | Employed civilian population 16 years and over: Total (percentage to the total number of workers 16 years and over) |
| Response | occ\_man\_p | Employed civilian population 16 years and over: Production occupations (percentage to the total number of workers 16 years and over) |
| Response | occ\_off1\_p | Employed civilian population 16 years and over: Office (001-219 except 020, 021) (percentage to the total number of workers 16 years and over) |
| Response | occ\_info\_p | Employed civilian population 16 years and over: Computer and mathematical occupations (percentage to the total number of workers 16 years and over) |

**List of variables in the “New York Education” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | school\_d | Number of schools per 1,000 persons |
| Explanatory | GENDER\_PAR | gender parity, 1=parity, higher = more males, lower = more females |
| Explanatory | PER\_PRV\_SC | % of all students enrolled in private school |
| Explanatory | YOUTH\_DROP | % of population age 16-19 that has dropped out of high school |
| Explanatory | PER\_MNRTY | % of the population that is non-white |
| Explanatory | mean\_inc | mean income |
| Explanatory | HS\_DROP | % of population over age 25 that dropped out of high school |
| Explanatory | PER\_ASIAN | % of the population that is Asian |
| Response | hs\_d | population over 25, high school degree, count per 1,000 persons over 25 |
| Response | somecol\_d | population over 25, some college, count per 1,000 persons over 25 |
| Response | col\_d | population over 25, bachelor’s degree, count per 1,000 persons over 25 |
| Response | master\_d | population over 25, master’s degree, count per 1,000 persons over 25 |
| Response | prof\_d | population over 25, professional degree, count per 1,000 persons over 25 |
| Response | phd\_d | population over 25, phd, count per 1,000 persons over 25 |
| Response | COL\_DEGREE | % of population over age 25 that obtained at least a bachelor’s degree |

**List of variables in the “New York Unemployment” dataset**

|  |  |  |
| --- | --- | --- |
| Type | Name | Description |
| Explanatory | medianage | Total Population Median Age |
| Explanatory | medianinco | Median household income (In 2012 Inflation Adjusted Dollars) |
| Explanatory | onlylessth | Population 25 Years and over with educational attainment of only less than high school |
| Explanatory | poor | Doing poorly as regard Ratio Of Income In 2012 To Poverty Level (Under 1.00) |
| Explanatory | withssi\_p | Households With Supplemental Security Income |
| Explanatory | withpubass\_p | Households With Public Assistance Income |
| Explanatory | p\_professionb | Population 25 Years and over with educational attainment of a professional degree level and below |
| Explanatory | struggling | Struggling as regards Ratio Of Income In 2012 To Poverty Level (1.00 to 1.99) |
| Response | other.une | Other ethnic unemployed population per 1,000 persons |
| Response | male.une | Unemployed male population per 1,000 persons |
| Response | his.une | Hispanic unemployed population per 1,000 persons |
| Response | fem.une | Unemployed female population per 1,000 persons |
| Response | euro.une | European American unemployed population per 1,000 persons |
| Response | ameind.une | American Indian unemployed population per 1,000 persons |
| Response | afr.une | African American unemployed population per 1,000 persons |