ACS Data Dictionary

ACS 2005-2009, to be merged with NHANES 1999-2010

|  |  |  |
| --- | --- | --- |
| Variable Name | Description | Code used to generate |
| X | Directly from ACS |  |
| GEOID | Census tract number |  |
| estimate.tot\_pop |  | key\_acs\_vars2009 <-c(tot\_pop='B00001\_001', Hispanic = "B03002\_012", White = "B03002\_003", Black = "B03002\_004", Asian = "B03002\_006",  MHI='B19013\_001', FPL00.100='B06012\_002', FPL100.149='B06012\_003', FPL150.plus='B06012.004', unemp16.64menwhite='C23002A\_008', unemp16.64womenwhite='C23002A\_021',  educ.lt9th='B15001\_004', educ.912\_nodegree='B15001\_005', educ.HS='B15001\_006', educ.some\_coll='B15001\_007', educ.assocdeg='B15001\_008',  educ.bach='B15001\_009', educ.gradprof='B15001\_010')  acs2009\_demog <- get\_acs(geography='tract', variables=key\_acs\_vars2009\_demog, state=state.abb, year=2009, survey='acs5') |
| moe.tot\_pop |  | - |
| estimate.pct\_white | Number of white residents divided by total population | acs2009\_demog\_wide$estimate.pct\_white <- acs2009\_demog\_wide$estimate.White / acs2009\_demog\_wide$estimate.tot\_pop |
| moe.pct\_white |  | acs2009\_demog\_wide$moe.pct\_white <- ifelse(acs2009\_demog\_wide$moe.White^2-((acs2009\_demog\_wide$estimate.White / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2 <0, (1 / acs2009\_demog\_wide$estimate.tot\_pop) \* (sqrt((acs2009\_demog\_wide$moe.White^2)+((acs2009\_demog\_wide$estimate.White / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2)), (1 / acs2009\_demog\_wide$estimate.tot\_pop) \* (sqrt((acs2009\_demog\_wide$moe.White^2)-((acs2009\_demog\_wide$estimate.White / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2))) |
| estimate.pct\_Black | Number of Black residents divided by total population | acs2009\_demog\_wide$estimate.pct\_Black <- acs2009\_demog\_wide$estimate.Black / acs2009\_demog\_wide$estimate.tot\_pop |
| moe.pct\_Black |  | acs2009\_demog\_wide$moe.pct\_Black <- ifelse(acs2009\_demog\_wide$moe.Black^2-((acs2009\_demog\_wide$estimate.Black / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2 <0, (1 / acs2009\_demog\_wide$estimate.tot\_pop) \* (sqrt((acs2009\_demog\_wide$moe.Black^2)+((acs2009\_demog\_wide$estimate.Black / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2)), (1 / acs2009\_demog\_wide$estimate.tot\_pop) \* (sqrt((acs2009\_demog\_wide$moe.Black^2)-((acs2009\_demog\_wide$estimate.Black / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2))) |
| estimate.pct\_Asian | Number of Asian residents divided by total population | acs2009\_demog\_wide$estimate.pct\_Asian <- acs2009\_demog\_wide$estimate.Asian / acs2009\_demog\_wide$estimate.tot\_pop |
| moe.pct\_Asian |  | acs2009\_demog\_wide$moe.pct\_Asian <- ifelse(acs2009\_demog\_wide$moe.Asian^2-((acs2009\_demog\_wide$estimate.Asian / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2 <0, (1 / acs2009\_demog\_wide$estimate.tot\_pop) \* (sqrt((acs2009\_demog\_wide$moe.Asian^2)+((acs2009\_demog\_wide$estimate.Asian / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2)), (1 / acs2009\_demog\_wide$estimate.tot\_pop) \* (sqrt((acs2009\_demog\_wide$moe.Asian^2)-((acs2009\_demog\_wide$estimate.Asian / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2))) |
| estimate.pct\_Hispanic | Number of Hispanic residents divided by total population | acs2009\_demog\_wide$estimate.pct\_Hispanic <- acs2009\_demog\_wide$estimate.Hispanic / acs2009\_demog\_wide$estimate.tot\_pop |
| moe.pct\_Hispanic |  | acs2009\_demog\_wide$moe.pct\_Hispanic <- ifelse(acs2009\_demog\_wide$moe.Hispanic^2-((acs2009\_demog\_wide$estimate.Hispanic / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2 <0, (1 / acs2009\_demog\_wide$estimate.tot\_pop) \* (sqrt((acs2009\_demog\_wide$moe.Hispanic^2)+((acs2009\_demog\_wide$estimate.Hispanic / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2)), (1 / acs2009\_demog\_wide$estimate.tot\_pop) \* (sqrt((acs2009\_demog\_wide$moe.Hispanic^2)-((acs2009\_demog\_wide$estimate.Hispanic / acs2009\_demog\_wide$estimate.tot\_pop)^2)\*acs2009\_demog\_wide$moe.tot\_pop^2))) |
| estimate.mhi |  | key\_acs\_vars2009\_inc <-c(MHI='B19013\_001')  acs2009\_inc <- get\_acs(geography='tract', variables=key\_acs\_vars2009\_inc, state=state.abb, year=2009, survey='acs5') |
| moe.mhi |  | - |
| estimate.pct\_fpl100 | Number living below 100% of the federal poverty level divided by total population | key\_acs\_vars2009\_pov <-c(FPL00.100='B06012\_002', FPL100.149='B06012\_003')#, FPL150.plus='B06012.004', FPL.lt100='B17001\_002')  acs2009\_pov <- get\_acs(geography='tract', variables=key\_acs\_vars2009\_pov, state=state.abb, year=2009, survey='acs5')  acs2009\_pov100 <-acs2009\_pov[acs2009\_pov$variable=='FPL00.100', c('GEOID', 'estimate', 'moe')]  colnames(acs2009\_pov100) <- c('GEOID', 'estimate.fpl\_lt100', 'moe.fpl\_lt100')  …  acs2009\_2 <- merge(acs2009\_demog\_tomerge, acs2009\_inc\_tomerge, by='GEOID', all.x=TRUE, all.y=TRUE, sort=TRUE)  acs2009\_3 <- merge(acs2009\_2, acs2009\_pov\_tomerge, by='GEOID', all.x=TRUE, all.y=TRUE, sort=TRUE)  …  acs2009\_3$estimate.pct\_fpl100 <- acs2009\_3$estimate.fpl\_lt100 / acs2009\_3$estimate.tot\_pop |
| moe.pct\_fpl\_lt100 |  | - |
| estimate.pct\_fpl150 | Number living below 150% of the federal poverty level divided by total population | estimate.fpl\_lt150 <- aggregate(acs2009\_pov$estimate, by=list(c(acs2009\_pov$GEOID)), FUN=sum)  …  acs2009\_3$estimate.pct\_fpl150 <- acs2009\_3$estimate.fpl\_lt150 / acs2009\_3$estimate.tot\_pop |
| moe.pct\_fpl150 |  | moe.fpl\_lt150 <- aggregate(acs2009\_empl$moe, by=list(acs2009\_empl$GEOID), function(x) sqrt(sum(x^2)))  …  acs2009\_3$moe.pct\_fpl150 <- ifelse(acs2009\_3$moe.fpl\_lt150^2-((acs2009\_3$estimate.fpl\_lt150 / acs2009\_3$estimate.tot\_pop)^2)\*acs2009\_3$moe.tot\_pop^2 <0, (1 / acs2009\_3$estimate.tot\_pop) \* (sqrt((acs2009\_3$moe.fpl\_lt150^2)+((acs2009\_3$estimate.fpl\_lt150 / acs2009\_3$estimate.tot\_pop)^2)\*acs2009\_3$moe.tot\_pop^2)), (1 / acs2009\_3$estimate.tot\_pop) \* (sqrt((acs2009\_3$moe.fpl\_lt150^2)-((acs2009\_3$estimate.fpl\_lt150 / acs2009\_3$estimate.tot\_pop)^2)\*acs2009\_3$moe.tot\_pop^2))) |
| moe.pct\_fpl100 |  | acs2009\_3$moe.pct\_fpl100 <- ifelse(acs2009\_3$moe.fpl\_lt100^2-((acs2009\_3$estimate.fpl\_lt100 / acs2009\_3$estimate.tot\_pop)^2)\*acs2009\_3$moe.tot\_pop^2 <0, (1 / acs2009\_3$estimate.tot\_pop) \* (sqrt((acs2009\_3$moe.fpl\_lt100^2)+((acs2009\_3$estimate.fpl\_lt100 / acs2009\_3$estimate.tot\_pop)^2)\*acs2009\_3$moe.tot\_pop^2)), (1 / acs2009\_3$estimate.tot\_pop) \* (sqrt((acs2009\_3$moe.fpl\_lt100^2)-((acs2009\_3$estimate.fpl\_lt100 / acs2009\_3$estimate.tot\_pop)^2)\*acs2009\_3$moe.tot\_pop^2))) |
| estimate\_pct\_unemp | Total unemployed civilian labor force (age 16-64) divided by total civilian labor force | key\_acs\_vars2009\_civlabforce\_unempbyage <-c(civlabforce\_unemp\_men1619='B23001\_008', civlabforce\_unemp\_women1619='B23001\_094',  civlabforce\_unemp\_men2021='B23001\_015', civlabforce\_unemp\_women2021='B23001\_101',  civlabforce\_unemp\_men2224='B23001\_022', civlabforce\_unemp\_women2224='B23001\_108',  civlabforce\_unemp\_men2529='B23001\_029', civlabforce\_unemp\_women2529='B23001\_115',  civlabforce\_unemp\_men3034='B23001\_036', civlabforce\_unemp\_women3034='B23001\_122',  civlabforce\_unemp\_men3544='B23001\_043', civlabforce\_unemp\_women3544='B23001\_129',  civlabforce\_unemp\_men4554='B23001\_050', civlabforce\_unemp\_women4554='B23001\_136',  civlabforce\_unemp\_men5559='B23001\_057', civlabforce\_unemp\_women5559='B23001\_143',  civlabforce\_unemp\_men6061='B23001\_064', civlabforce\_unemp\_women6061='B23001\_150',  civlabforce\_unemp\_men6264='B23001\_071', civlabforce\_unemp\_women6264='B23001\_157')  key\_acs\_vars2009\_civlabforce\_byage <-c(civlabforcemen1619='B23001\_006', civlabforcewomen1619='B23001\_092',  civlabforcemen2021='B23001\_013', civlabforcewomen2021='B23001\_099',  civlabforcemen2224='B23001\_020', civlabforcewomen2224='B23001\_106',  civlabforcemen2529='B23001\_027', civlabforcewomen2529='B23001\_113',  civlabforcemen3034='B23001\_034', civlabforcewomen3034='B23001\_120',  civlabforcemen3544='B23001\_041', civlabforcewomen3544='B23001\_127',  civlabforcemen4554='B23001\_048', civlabforcewomen4554='B23001\_134',  civlabforcemen5559='B23001\_055', civlabforcewomen5559='B23001\_141',  civlabforcemen6061='B23001\_062', civlabforcewomen6061='B23001\_148',  civlabforcemen6264='B23001\_069', civlabforcewomen6264='B23001\_155')  acs2009\_empl <- get\_acs(geography='tract', variables=key\_acs\_vars2009\_civlabforce\_unempbyage, state=state.abb, year=2009, survey='acs5')  acs2009\_civlabforce <- get\_acs(geography='tract', variables=key\_acs\_vars2009\_civlabforce\_byage, state=state.abb, year=2009, survey='acs5')  …  tot\_unemp\_estimate <- aggregate(acs2009\_empl$estimate, by=list(c(acs2009\_empl$GEOID)), FUN=sum)  tot\_unemp\_moe <- aggregate(acs2009\_empl$moe, by=list(acs2009\_empl$GEOID), function(x) sqrt(sum(x^2)))  acs2009\_unemp <- merge(tot\_unemp\_estimate, tot\_unemp\_moe, by='Group.1', all.x=TRUE, all.y=TRUE, sort=TRUE)  dim(acs2009\_unemp)  tot\_civlab\_estimate <- aggregate(acs2009\_civlabforce$estimate, by=list(c(acs2009\_empl$GEOID)), FUN=sum)  tot\_civlab\_moe <- aggregate(acs2009\_civlabforce$moe, by=list(acs2009\_empl$GEOID), function(x) sqrt(sum(x^2)))  acs2009\_civlabforce <- merge(tot\_civlab\_estimate, tot\_civlab\_moe, by='Group.1', all.x=TRUE, all.y=TRUE, sort=TRUE)  colnames(acs2009\_unemp) <- c('GEOID', 'estimate', 'moe')  colnames(acs2009\_civlabforce) <- c('GEOID', 'estimate', 'moe')  acs2009\_empl\_clean <- merge(acs2009\_unemp, acs2009\_civlabforce, by='GEOID', all.x=TRUE, all.y=TRUE, sort=TRUE)  dim(acs2009\_empl\_clean)  colnames(acs2009\_empl\_clean) <- c('GEOID', 'estimate\_unemp', 'moe\_unemp', 'estimate\_civlabforce', 'moe\_civlabforce')  acs2009\_empl\_clean$estimate\_pct\_unemp <- acs2009\_empl\_clean$estimate\_unemp / acs2009\_empl\_clean$estimate\_civlabforce |
| moe\_pct\_unemp |  | acs2009\_empl\_clean$moe\_pct\_unemp <- ifelse(acs2009\_empl\_clean$moe\_unemp^2+((acs2009\_empl\_clean$estimate\_unemp / acs2009\_empl\_clean$estimate\_civlabforce)^2)\*acs2009\_empl\_clean$moe\_civlabforce^2 <0, (1 / acs2009\_empl\_clean$estimate\_civlabforce) \* (sqrt((acs2009\_empl\_clean$moe\_unemp^2)+((acs2009\_empl\_clean$estimate\_unemp / acs2009\_empl\_clean$estimate\_civlabforce)^2)\*acs2009\_empl\_clean$moe\_civlabforce^2)), (1 / acs2009\_empl\_clean$estimate\_civlabforce) \* (sqrt((acs2009\_empl\_clean$moe\_unemp^2)-((acs2009\_empl\_clean$estimate\_unemp / acs2009\_empl\_clean$estimate\_civlabforce)^2)\*acs2009\_empl\_clean$moe\_civlabforce^2))) |
| estimate.pct\_lths | Number with less than a high school degree divided by population greater than age 18 | key\_acs\_vars2009\_educ <-c(educ.lt9th='B15001\_004', educ.912\_nodegree='B15001\_005', educ.HS='B15001\_006', educ.some\_coll='B15001\_007', educ.assocdeg='B15001\_008',  educ.bach='B15001\_009', educ.gradprof='B15001\_010')  key\_acs\_vars2009\_popgt18 <- c(men1819='B01001\_007', men20='B01001\_008', men21='B01001\_009', men2224='B01001\_010', men2529='B01001\_011', men3034='B01001\_012', men3539='B01001\_013', men4044='B01001\_014', men4549='B01001\_015', men5054='B01001\_016', men5559='B01001\_017', men6061='B01001\_018', men6264='B01001\_019', men6566='B01001\_020', men6769='B01001\_021', men7074='B01001\_022', men7579='B01001\_023', men8084='B01001\_024', mengt85='B01001\_025', women1819='B01001\_031', women20='B01001\_032', women21='B01001\_033', women2224='B01001\_034', women2529='B01001\_035', women3034='B01001\_036', women3539='B01001\_037', women4044='B01001\_038', women4549='B01001\_039', women5054='B01001\_040', women5559='B01001\_041', women6061='B01001\_042', women6264='B01001\_043', women6566='B01001\_044', women6769='B01001\_045', women7074='B01001\_046', women7579='B01001\_047', women8084='B01001\_048', womengt85='B01001\_049')  acs2009\_educ <- get\_acs(geography='tract', variables=key\_acs\_vars2009\_educ, state=state.abb, year=2009, survey='acs5')  acs2009\_popgt18 <- get\_acs(geography='tract', variables=key\_acs\_vars2009\_popgt18, state=state.abb, year=2009, survey='acs5')  tot\_lths\_estimate <- aggregate(acs2009\_educlths$estimate, by=list(c(acs2009\_educlths$GEOID)), FUN=sum)  acs2009\_educ\_popgt18$estimate.pct\_lths <- acs2009\_educ\_popgt18$estimate.lths / acs2009\_educ\_popgt18$estimate.popgt18 |
| moe.pct\_lths |  | tot\_lths\_moe <- aggregate(acs2009\_educlths$moe, by=list(acs2009\_educlths$GEOID), function(x) sqrt(sum(x^2)))  acs2009\_educ\_popgt18$moe.pct\_lths <- ifelse(acs2009\_educ\_popgt18$moe.lths^2-((acs2009\_educ\_popgt18$estimate.lths / acs2009\_educ\_popgt18$estimate.popgt18)^2)\*acs2009\_educ\_popgt18$moe.popgt18^2 <0, (1 / acs2009\_educ\_popgt18$estimate.popgt18) \* (sqrt((acs2009\_educ\_popgt18$moe.lths^2)+((acs2009\_educ\_popgt18$estimate.lths / acs2009\_educ\_popgt18$estimate.popgt18)^2)\*acs2009\_educ\_popgt18$moe.popgt18^2)), (1 / acs2009\_educ\_popgt18$estimate.popgt18) \* (sqrt((acs2009\_educ\_popgt18$moe.lths^2)-((acs2009\_educ\_popgt18$estimate.lths / acs2009\_educ\_popgt18$estimate.popgt18)^2)\*acs2009\_educ\_popgt18$moe.popgt18^2))) |
| estimate.pct\_ltcoll |  | tot\_ltcoll\_estimate <- aggregate(acs2009\_educltcoll$estimate, by=list(c(acs2009\_educltcoll$GEOID)), FUN=sum) acs2009\_educ\_popgt18$estimate.pct\_ltcoll <- acs2009\_educ\_popgt18$estimate.ltcoll / acs2009\_educ\_popgt18$estimate.popgt18 |
| moe.pct\_ltcoll |  | tot\_ltcoll\_moe <- aggregate(acs2009\_educltcoll$moe, by=list(acs2009\_educltcoll$GEOID), function(x) sqrt(sum(x^2)))  acs2009\_educ\_popgt18$moe.pct\_ltcoll <- ifelse(acs2009\_educ\_popgt18$moe.ltcoll^2-((acs2009\_educ\_popgt18$estimate.ltcoll / acs2009\_educ\_popgt18$estimate.popgt18)^2)\*acs2009\_educ\_popgt18$moe.popgt18^2 <0, (1 / acs2009\_educ\_popgt18$estimate.popgt18) \* (sqrt((acs2009\_educ\_popgt18$moe.ltcoll^2)+((acs2009\_educ\_popgt18$estimate.ltcoll / acs2009\_educ\_popgt18$estimate.popgt18)^2)\*acs2009\_educ\_popgt18$moe.popgt18^2)), (1 / acs2009\_educ\_popgt18$estimate.popgt18) \* (sqrt((acs2009\_educ\_popgt18$moe.ltcoll^2)-((acs2009\_educ\_popgt18$estimate.ltcoll / acs2009\_educ\_popgt18$estimate.popgt18)^2)\*acs2009\_educ\_popgt18$moe.popgt18^2))) |

ACS 2010-2014, to be merged with NHANES 2011-2014

|  |  |  |
| --- | --- | --- |
| Variable Name | Description | Code used to generate |
| X |  |  |
| GEOID | Census tract number |  |
| estimate.tot\_pop |  | key\_acs\_vars2014 <-c(tot\_pop='B00001\_001', Hispanic = "B03002\_012", White = "B03002\_003", Black = "B03002\_004", Asian = "B03002\_006",  MHI='B19013\_001', FPL00.100='B06012\_002', FPL100.149='B06012\_003', FPL150.plus='B06012.004', unemp='B27011\_014', #unemp also C18120\_006  educ.none='B15003\_002', educ.prek='B15003\_003', educ.kind='B15003\_004', educ.1st='B15003\_005', educ.2nd='B15003\_006', educ.3rd='B15003\_007', educ.4th='B15003\_008', educ.5th='B15003\_009', educ.6th='B15003\_010', educ.7th='B15003\_011', educ.8th='B15003\_012', educ.9th='B15003\_013', educ.10th='B15003\_014', educ.11th='B15003\_015', educ.12th\_nodegree='B15003\_016',  educ.HS='B15001\_017', educ.ged='B15001\_018', educ.some\_coll1yr='B15001\_019', educ.some\_coll='B15001\_020', educ.assocdeg='B15001\_021',  educ.bach='B15003\_022', educ.mast='B15003\_023', educ.prof='B15003\_024', educ.doct='B15003\_025')  acs2014\_raw <- get\_acs(geography='tract', variables=key\_acs\_vars2014, state=state.abb, year=2014, survey='acs5') |
| moe.tot\_pop |  | - |
| estimate.MHI |  |  |
| moe.MHI |  |  |
| estimate.pct\_white |  | acs2014\_wide$estimate.pct\_white <- acs2014\_wide$estimate.White / acs2014\_wide$estimate.tot\_pop |
| moe.pct\_white |  | acs2014\_wide$moe.pct\_white <- ifelse(acs2014\_wide$moe.White^2-((acs2014\_wide$estimate.White / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2 <0, (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.White^2)+((acs2014\_wide$estimate.White / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2)), (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.White^2)-((acs2014\_wide$estimate.White / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2))) |
| estimate.pct\_Black |  | acs2014\_wide$estimate.pct\_Black <- acs2014\_wide$estimate.Black / acs2014\_wide$estimate.tot\_pop |
| moe.pct\_Black |  | acs2014\_wide$moe.pct\_Black <- ifelse(acs2014\_wide$moe.Black^2-((acs2014\_wide$estimate.Black / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2 <0, (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.Black^2)+((acs2014\_wide$estimate.Black / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2)), (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.Black^2)-((acs2014\_wide$estimate.Black / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2))) |
| estimate.pct\_Asian |  | acs2014\_wide$estimate.pct\_Asian <- acs2014\_wide$estimate.Asian / acs2014\_wide$estimate.tot\_pop |
| moe.pct\_Asian |  | acs2014\_wide$moe.pct\_Asian <- ifelse(acs2014\_wide$moe.Asian^2-((acs2014\_wide$estimate.Asian / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2 <0, (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.Asian^2)+((acs2014\_wide$estimate.Asian / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2)), (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.Asian^2)-((acs2014\_wide$estimate.Asian / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2))) |
| estimate.pct\_Hispanic |  | acs2014\_wide$estimate.pct\_Hispanic <- acs2014\_wide$estimate.Hispanic / acs2014\_wide$estimate.tot\_pop |
| moe.pct\_Hispanic |  | acs2014\_wide$moe.pct\_Hispanic <- ifelse(acs2014\_wide$moe.Hispanic^2-((acs2014\_wide$estimate.Hispanic / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2 <0, (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.Hispanic^2)+((acs2014\_wide$estimate.Hispanic / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2)), (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.Hispanic^2)-((acs2014\_wide$estimate.Hispanic / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2))) |
| estimate.pct\_fpl100 |  | acs2014\_raw2 <- acs2014\_raw[, c('GEOID', 'variable', 'estimate', 'moe')]  acs2014\_wide <- data.frame(reshape(acs2014\_raw2, idvar=c('GEOID'), timevar='variable', direction='wide'))  acs2014\_wide$estimate.fpl\_lt100 <- acs2014\_wide$estimate.FPL00.50 + acs2014\_wide$estimate.FPL50.99  acs2014\_wide$estimate.pct\_fpl100 <- acs2014\_wide$estimate.fpl\_lt100 / acs2014\_wide$estimate.tot\_pop |
| moe.pct\_fpl100 |  | acs2014\_wide$moe.fpl\_lt100 <- sqrt((acs2014\_wide$moe.FPL00.50)^2 + (acs2014\_wide$moe.FPL50.99)^2)  acs2014\_wide$moe.pct\_fpl100 <- ifelse(acs2014\_wide$moe.fpl\_lt100^2-((acs2014\_wide$estimate.fpl\_lt100 / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2 <0, (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.fpl\_lt100^2)+((acs2014\_wide$estimate.fpl\_lt100 / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2)), (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.fpl\_lt100^2)-((acs2014\_wide$estimate.fpl\_lt100 / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2))) |
| estimate.pct\_fpl150 |  | acs2014\_wide$estimate.fpl\_lt150 <- acs2014\_wide$estimate.FPL00.50 + acs2014\_wide$estimate.FPL50.99 + acs2014\_wide$estimate.FPL100.124 + acs2014\_wide$estimate.FPL125.149  acs2014\_wide$estimate.pct\_fpl150 <- acs2014\_wide$estimate.fpl\_lt150 / acs2014\_wide$estimate.tot\_pop |
| moe.pct\_fpl150 |  | acs2014\_wide$moe.fpl\_lt150 <- sqrt((acs2014\_wide$moe.FPL00.50)^2 + (acs2014\_wide$moe.FPL50.99)^2 + (acs2014\_wide$moe.FPL100.124)^2 + (acs2014\_wide$moe.FPL125.149)^2)  acs2014\_wide$moe.pct\_fpl150 <- ifelse(acs2014\_wide$moe.fpl\_lt150^2-((acs2014\_wide$estimate.fpl\_lt150 / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2 <0, (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.fpl\_lt150^2)+((acs2014\_wide$estimate.fpl\_lt150 / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2)), (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.fpl\_lt150^2)-((acs2014\_wide$estimate.fpl\_lt150 / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2))) |
| estimate.pct\_fpl200 |  | acs2014\_wide$estimate.fpl\_lt200 <- acs2014\_wide$estimate.FPL00.50 + acs2014\_wide$estimate.FPL50.99 + acs2014\_wide$estimate.FPL100.124 + acs2014\_wide$estimate.FPL125.149 + acs2014\_wide$estimate.FPL150.184 + acs2014\_wide$estimate.FPL185.199  acs2014\_wide$estimate.pct\_fpl200 <- acs2014\_wide$estimate.fpl\_lt200 / acs2014\_wide$estimate.tot\_pop |
| moe.pct\_fpl200 |  | acs2014\_wide$moe.fpl\_lt200 <- sqrt((acs2014\_wide$moe.FPL00.50)^2 + (acs2014\_wide$moe.FPL50.99)^2 + (acs2014\_wide$moe.FPL100.124)^2 + (acs2014\_wide$moe.FPL125.149)^2 + (acs2014\_wide$moe.FPL150.184)^2 + (acs2014\_wide$moe.FPL185.199)^2)  acs2014\_wide$moe.pct\_fpl200 <- ifelse(acs2014\_wide$moe.fpl\_lt200^2-((acs2014\_wide$estimate.fpl\_lt200 / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2 <0, (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.fpl\_lt200^2)+((acs2014\_wide$estimate.fpl\_lt200 / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2)), (1 / acs2014\_wide$estimate.tot\_pop) \* (sqrt((acs2014\_wide$moe.fpl\_lt200^2)-((acs2014\_wide$estimate.fpl\_lt200 / acs2014\_wide$estimate.tot\_pop)^2)\*acs2014\_wide$moe.tot\_pop^2))) |
| estimate\_pct\_unemp |  | key\_acs\_vars2014\_civlabforce\_unempbyage <-c(civlabforce\_unemp\_men1619='B23001\_008', civlabforce\_unemp\_women1619='B23001\_094',  civlabforce\_unemp\_men2021='B23001\_015', civlabforce\_unemp\_women2021='B23001\_101',  civlabforce\_unemp\_men2224='B23001\_022', civlabforce\_unemp\_women2224='B23001\_108',  civlabforce\_unemp\_men2529='B23001\_029', civlabforce\_unemp\_women2529='B23001\_115',  civlabforce\_unemp\_men3034='B23001\_036', civlabforce\_unemp\_women3034='B23001\_122',  civlabforce\_unemp\_men3544='B23001\_043', civlabforce\_unemp\_women3544='B23001\_129',  civlabforce\_unemp\_men4554='B23001\_050', civlabforce\_unemp\_women4554='B23001\_136',  civlabforce\_unemp\_men5559='B23001\_057', civlabforce\_unemp\_women5559='B23001\_143',  civlabforce\_unemp\_men6061='B23001\_064', civlabforce\_unemp\_women6061='B23001\_150',  civlabforce\_unemp\_men6264='B23001\_071', civlabforce\_unemp\_women6264='B23001\_157')  key\_acs\_vars2014\_civlabforce\_byage <-c(civlabforcemen1619='B23001\_006', civlabforcewomen1619='B23001\_092',  civlabforcemen2021='B23001\_013', civlabforcewomen2021='B23001\_099',  civlabforcemen2224='B23001\_020', civlabforcewomen2224='B23001\_106',  civlabforcemen2529='B23001\_027', civlabforcewomen2529='B23001\_113',  civlabforcemen3034='B23001\_034', civlabforcewomen3034='B23001\_120',  civlabforcemen3544='B23001\_041', civlabforcewomen3544='B23001\_127',  civlabforcemen4554='B23001\_048', civlabforcewomen4554='B23001\_134',  civlabforcemen5559='B23001\_055', civlabforcewomen5559='B23001\_141',  civlabforcemen6061='B23001\_062', civlabforcewomen6061='B23001\_148',  civlabforcemen6264='B23001\_069', civlabforcewomen6264='B23001\_155')  acs2014\_empl <- get\_acs(geography='tract', variables=key\_acs\_vars2014\_civlabforce\_unempbyage, state=state.abb, year=2014, survey='acs5')  acs2014\_civlabforce <- get\_acs(geography='tract', variables=key\_acs\_vars2014\_civlabforce\_byage, state=state.abb, year=2014, survey='acs5')  tot\_unemp\_estimate <- aggregate(acs2014\_empl$estimate, by=list(c(acs2014\_empl$GEOID)), FUN=sum)  tot\_civlab\_estimate <- aggregate(acs2014\_civlabforce$estimate, by=list(c(acs2014\_empl$GEOID)), FUN=sum)  acs2014\_civlabforce <- merge(tot\_civlab\_estimate, tot\_civlab\_moe, by='Group.1', all.x=TRUE, all.y=TRUE, sort=TRUE)  acs2014\_empl\_clean <- merge(acs2014\_unemp, acs2014\_civlabforce, by='GEOID', all.x=TRUE, all.y=TRUE, sort=TRUE)  colnames(acs2014\_empl\_clean) <- c('GEOID', 'estimate\_unemp', 'moe\_unemp', 'estimate\_civlabforce', 'moe\_civlabforce')  acs2014\_empl\_clean$estimate\_pct\_unemp <- acs2014\_empl\_clean$estimate\_unemp / acs2014\_empl\_clean$estimate\_civlabforce |
| moe\_pct\_unemp |  | tot\_unemp\_moe <- aggregate(acs2014\_empl$moe, by=list(acs2014\_empl$GEOID), function(x) sqrt(sum(x^2)))  tot\_civlab\_moe <- aggregate(acs2014\_civlabforce$moe, by=list(acs2014\_empl$GEOID), function(x) sqrt(sum(x^2)))  …  acs2014\_empl\_clean$moe\_pct\_unemp <- ifelse(acs2014\_empl\_clean$moe\_unemp^2+((acs2014\_empl\_clean$estimate\_unemp / acs2014\_empl\_clean$estimate\_civlabforce)^2)\*acs2014\_empl\_clean$moe\_civlabforce^2 <0, (1 / acs2014\_empl\_clean$estimate\_civlabforce) \* (sqrt((acs2014\_empl\_clean$moe\_unemp^2)+((acs2014\_empl\_clean$estimate\_unemp / acs2014\_empl\_clean$estimate\_civlabforce)^2)\*acs2014\_empl\_clean$moe\_civlabforce^2)), (1 / acs2014\_empl\_clean$estimate\_civlabforce) \* (sqrt((acs2014\_empl\_clean$moe\_unemp^2)-((acs2014\_empl\_clean$estimate\_unemp / acs2014\_empl\_clean$estimate\_civlabforce)^2)\*acs2014\_empl\_clean$moe\_civlabforce^2))) |
| estimate.pct\_lths |  | key\_acs\_vars2014\_popgt18 <- c(men1819='B01001\_007', men20='B01001\_008', men21='B01001\_009', men2224='B01001\_010', men2529='B01001\_011', men3034='B01001\_012', men3539='B01001\_013', men4044='B01001\_014', men4549='B01001\_015', men5054='B01001\_016', men5559='B01001\_017', men6061='B01001\_018', men6264='B01001\_019', men6566='B01001\_020', men6769='B01001\_021', men7074='B01001\_022', men7579='B01001\_023', men8084='B01001\_024', mengt85='B01001\_025', women1819='B01001\_031', women20='B01001\_032', women21='B01001\_033', women2224='B01001\_034', women2529='B01001\_035', women3034='B01001\_036', women3539='B01001\_037', women4044='B01001\_038', women4549='B01001\_039', women5054='B01001\_040', women5559='B01001\_041', women6061='B01001\_042', women6264='B01001\_043', women6566='B01001\_044', women6769='B01001\_045', women7074='B01001\_046', women7579='B01001\_047', women8084='B01001\_048', womengt85='B01001\_049')  acs2014\_popgt18 <- get\_acs(geography='tract', variables=key\_acs\_vars2014\_popgt18, state=state.abb, year=2014, survey='acs5')  acs2014\_wide$estimate.lths <- acs2014\_wide$estimate.educ.none + acs2014\_wide$estimate.educ.prek + acs2014\_wide$estimate.educ.kind + acs2014\_wide$estimate.educ.1st + acs2014\_wide$estimate.educ.2nd + acs2014\_wide$estimate.educ.3rd + acs2014\_wide$estimate.educ.4th + acs2014\_wide$estimate.educ.5th + acs2014\_wide$estimate.educ.6th + acs2014\_wide$estimate.educ.7th + acs2014\_wide$estimate.educ.8th + acs2014\_wide$estimate.educ.9th + acs2014\_wide$estimate.educ.10th + acs2014\_wide$estimate.educ.11th + acs2014\_wide$estimate.educ.12th\_nodegree  acs2014\_wide$moe.lths <- sqrt((acs2014\_wide$moe.educ.none)^2 + (acs2014\_wide$moe.educ.prek)^2 + (acs2014\_wide$moe.educ.kind)^2 + (acs2014\_wide$moe.educ.1st)^2 + (acs2014\_wide$moe.educ.2nd)^2 + (acs2014\_wide$moe.educ.3rd)^2 + (acs2014\_wide$moe.educ.4th)^2 + (acs2014\_wide$moe.educ.5th)^2 + (acs2014\_wide$moe.educ.6th)^2 + (acs2014\_wide$moe.educ.7th)^2 + (acs2014\_wide$moe.educ.8th)^2 + (acs2014\_wide$moe.educ.9th)^2 + (acs2014\_wide$moe.educ.10th)^2 + (acs2014\_wide$moe.educ.11th)^2 + (acs2014\_wide$moe.educ.12th\_nodegree)^2)  tot\_popgt18\_estimate <- aggregate(acs2014\_popgt18$estimate, by=list(c(acs2014\_popgt18$GEOID)), FUN=sum)  tot\_popgt18\_moe <- aggregate(acs2014\_popgt18$moe, by=list(acs2014\_popgt18$GEOID), function(x) sqrt(sum(x^2)))  acs2014\_fullpopgt18 <- merge(tot\_popgt18\_estimate, tot\_popgt18\_moe, by='Group.1', all.x=TRUE, all.y=TRUE, sort=TRUE)  acs2014\_educlths <- acs2014\_raw[acs2014\_raw$variable=='educ.none' | acs2014\_raw$variable=='educ.prek' | acs2014\_raw$variable=='educ.kind' | acs2014\_raw$variable=='educ.1st' | acs2014\_raw$variable=='educ.2nd' | acs2014\_raw$variable=='educ.3rd' | acs2014\_raw$variable=='educ.4th' | acs2014\_raw$variable=='educ.5th' | acs2014\_raw$variable=='educ.6th' | acs2014\_raw$variable=='educ.7th' | acs2014\_raw$variable=='educ.8th' | acs2014\_raw$variable=='educ.9th' | acs2014\_raw$variable=='educ.10th' | acs2014\_raw$variable=='educ.11th' | acs2014\_raw$variable=='educ.12th\_nodegree', ]  acs2014\_educltcoll <- acs2014\_raw[acs2014\_raw$variable=='educ.none' | acs2014\_raw$variable=='educ.prek' | acs2014\_raw$variable=='educ.kind' | acs2014\_raw$variable=='educ.1st' | acs2014\_raw$variable=='educ.2nd' | acs2014\_raw$variable=='educ.3rd' | acs2014\_raw$variable=='educ.4th' | acs2014\_raw$variable=='educ.5th' | acs2014\_raw$variable=='educ.6th' | acs2014\_raw$variable=='educ.7th' | acs2014\_raw$variable=='educ.8th' | acs2014\_raw$variable=='educ.9th' | acs2014\_raw$variable=='educ.10th' | acs2014\_raw$variable=='educ.11th' | acs2014\_raw$variable=='educ.12th\_nodegree' | acs2014\_raw$variable=='educ.HS' | acs2014\_raw$variable=='educ.ged' | acs2014\_raw$variable=='educ.some\_coll1yr' | acs2014\_raw$variable=='educ.some\_coll' | acs2014\_raw$variable=='educ.assocdeg', ]  tot\_lths\_estimate <- aggregate(acs2014\_educlths$estimate, by=list(c(acs2014\_educlths$GEOID)), FUN=sum)  tot\_lths\_moe <- aggregate(acs2014\_educlths$moe, by=list(acs2014\_educlths$GEOID), function(x) sqrt(sum(x^2)))  acs2014\_tot\_lths <- merge(tot\_lths\_estimate, tot\_lths\_moe, by='Group.1', all.x=TRUE, all.y=TRUE, sort=TRUE)  tot\_ltcoll\_estimate <- aggregate(acs2014\_educltcoll$estimate, by=list(c(acs2014\_educltcoll$GEOID)), FUN=sum)  tot\_ltcoll\_moe <- aggregate(acs2014\_educltcoll$moe, by=list(acs2014\_educltcoll$GEOID), function(x) sqrt(sum(x^2)))  acs2014\_tot\_ltcoll <- merge(tot\_ltcoll\_estimate, tot\_ltcoll\_moe, by='Group.1', all.x=TRUE, all.y=TRUE, sort=TRUE)  acs2014\_tot\_educ <- merge(acs2014\_tot\_lths, acs2014\_tot\_ltcoll, by='Group.1', all.x=TRUE, all.y=TRUE, sort=TRUE)  colnames(acs2014\_tot\_educ) <- c('GEOID', 'estimate.lths', 'moe.lths', 'estimate.ltcoll', 'moe.ltcoll')  acs2014\_educ\_popgt18 <- merge(acs2014\_fullpopgt18, acs2014\_tot\_educ, by='GEOID', all.x=TRUE, all.y=TRUE, sort=TRUE)  acs2014\_educ\_popgt18$estimate.pct\_lths <- acs2014\_educ\_popgt18$estimate.lths / acs2014\_educ\_popgt18$estimate.popgt18  acs2014\_educ\_popgt18$estimate.pct\_ltcoll <- acs2014\_educ\_popgt18$estimate.ltcoll / acs2014\_educ\_popgt18$estimate.popgt18 |
| moe.pct\_lths |  | acs2014\_educ\_popgt18$moe.pct\_lths <- ifelse(acs2014\_educ\_popgt18$moe.lths^2-((acs2014\_educ\_popgt18$estimate.lths / acs2014\_educ\_popgt18$estimate.popgt18)^2)\*acs2014\_educ\_popgt18$moe.popgt18^2 <0, (1 / acs2014\_educ\_popgt18$estimate.popgt18) \* (sqrt((acs2014\_educ\_popgt18$moe.lths^2)+((acs2014\_educ\_popgt18$estimate.lths / acs2014\_educ\_popgt18$estimate.popgt18)^2)\*acs2014\_educ\_popgt18$moe.popgt18^2)), (1 / acs2014\_educ\_popgt18$estimate.popgt18) \* (sqrt((acs2014\_educ\_popgt18$moe.lths^2)-((acs2014\_educ\_popgt18$estimate.lths / acs2014\_educ\_popgt18$estimate.popgt18)^2)\*acs2014\_educ\_popgt18$moe.popgt18^2))) |
| estimate.pct\_ltcoll |  | acs2014\_wide$estimate.ltcoll <- acs2014\_wide$estimate.educ.none + acs2014\_wide$estimate.educ.prek + acs2014\_wide$estimate.educ.kind + acs2014\_wide$estimate.educ.1st + acs2014\_wide$estimate.educ.2nd + acs2014\_wide$estimate.educ.3rd + acs2014\_wide$estimate.educ.4th + acs2014\_wide$estimate.educ.5th + acs2014\_wide$estimate.educ.6th + acs2014\_wide$estimate.educ.7th + acs2014\_wide$estimate.educ.8th + acs2014\_wide$estimate.educ.9th + acs2014\_wide$estimate.educ.10th + acs2014\_wide$estimate.educ.11th + acs2014\_wide$estimate.educ.12th\_nodegree + acs2014\_wide$estimate.educ.HS + acs2014\_wide$estimate.educ.ged + acs2014\_wide$estimate.educ.some\_coll1yr + acs2014\_wide$estimate.educ.some\_coll + acs2014\_wide$estimate.educ.assocdeg  acs2014\_wide$moe.ltcoll <- sqrt((acs2014\_wide$moe.educ.none)^2 + (acs2014\_wide$moe.educ.prek)^2 + (acs2014\_wide$moe.educ.kind)^2 + (acs2014\_wide$moe.educ.1st)^2 + (acs2014\_wide$moe.educ.2nd)^2 + (acs2014\_wide$moe.educ.3rd)^2 + (acs2014\_wide$moe.educ.4th)^2 + (acs2014\_wide$moe.educ.5th)^2 + (acs2014\_wide$moe.educ.6th)^2 + (acs2014\_wide$moe.educ.7th)^2 + (acs2014\_wide$moe.educ.8th)^2 + (acs2014\_wide$moe.educ.9th)^2 + (acs2014\_wide$moe.educ.10th)^2 + (acs2014\_wide$moe.educ.11th)^2 + (acs2014\_wide$moe.educ.12th\_nodegree)^2 + (acs2014\_wide$estimate.educ.HS)^2 + (acs2014\_wide$estimate.educ.ged)^2 + (acs2014\_wide$estimate.educ.some\_coll1yr)^2 + (acs2014\_wide$estimate.educ.some\_coll)^2 + (acs2014\_wide$estimate.educ.assocdeg)^2)  acs2014\_educ\_popgt18$estimate.pct\_ltcoll <- acs2014\_educ\_popgt18$estimate.ltcoll / acs2014\_educ\_popgt18$estimate.popgt18 |
| moe.pct\_ltcoll |  | acs2014\_educ\_popgt18$moe.pct\_ltcoll <- ifelse(acs2014\_educ\_popgt18$moe.ltcoll^2-((acs2014\_educ\_popgt18$estimate.ltcoll / acs2014\_educ\_popgt18$estimate.popgt18)^2)\*acs2014\_educ\_popgt18$moe.popgt18^2 <0, (1 / acs2014\_educ\_popgt18$estimate.popgt18) \* (sqrt((acs2014\_educ\_popgt18$moe.ltcoll^2)+((acs2014\_educ\_popgt18$estimate.ltcoll / acs2014\_educ\_popgt18$estimate.popgt18)^2)\*acs2014\_educ\_popgt18$moe.popgt18^2)), (1 / acs2014\_educ\_popgt18$estimate.popgt18) \* (sqrt((acs2014\_educ\_popgt18$moe.ltcoll^2)-((acs2014\_educ\_popgt18$estimate.ltcoll / acs2014\_educ\_popgt18$estimate.popgt18)^2)\*acs2014\_educ\_popgt18$moe.popgt18^2))) |
| CT | Directly from SDI 2015 |  |
| population | Directly from SDI 2015 |  |
| sdi\_score | Directly from SDI 2015 |  |
| fpl\_100\_score | Directly from SDI 2015 |  |
| sing\_parent\_fam\_score | Directly from SDI 2015 |  |
| black\_score | Directly from SDI 2015 |  |
| dropout\_score | Directly from SDI 2015 |  |
| no\_car\_score | Directly from SDI 2015 |  |
| rent\_occup\_score | Directly from SDI 2015 |  |
| crowding\_score | Directly from SDI 2015 |  |
| nonemp\_score | Directly from SDI 2015 |  |
| unemp\_score | Directly from SDI 2015 |  |
| highneeds\_score | Directly from SDI 2015 |  |
| hisp\_score | Directly from SDI 2015 |  |
| foreignb\_score | Directly from SDI 2015 |  |
| lingisol\_score | Directly from SDI 2015 |  |
| percnt\_ltfpl100 | Directly from SDI 2015 |  |
| percnt\_singlparntfly | Directly from SDI 2015 |  |
| percnt\_black | Directly from SDI 2015 |  |
| percnt\_dropout | Directly from SDI 2015 |  |
| percnt\_hhnocar | Directly from SDI 2015 |  |
| percnt\_rentoccup | Directly from SDI 2015 |  |
| percnt\_crowding | Directly from SDI 2015 |  |
| percnt\_nonemp | Directly from SDI 2015 |  |
| percnt\_unemp | Directly from SDI 2015 |  |
| percnt\_highneeds | Directly from SDI 2015 |  |
| percnt\_hispanic | Directly from SDI 2015 |  |
| percnt\_frgnborn | Directly from SDI 2015 |  |
| percnt\_lingisol | Directly from SDI 2015 |  |

ACS 2014-2018, to be merged with NHANES 2015-2018

|  |  |  |
| --- | --- | --- |
| Variable Name | Description | Code used to generate |
| X |  |  |
| GEOID | Census tract number |  |
| estimate.tot\_pop |  | key\_acs\_vars2018 <-c(tot\_pop='B01001\_001',Hispanic = "B03002\_012", White = "B03002\_003", Black = "B03002\_004", Asian = "B03002\_006",  MHI='B19013\_001', FPL00.50='C17002\_002', FPL50.99='C17002\_003', FPL100.124='C17002\_004', FPL125.149='C17002\_005', FPL150.184='C17002\_006', FPL185.199='C17002\_007',  educ.none='B15003\_002', educ.prek='B15003\_003', educ.kind='B15003\_004', educ.1st='B15003\_005', educ.2nd='B15003\_006', educ.3rd='B15003\_007', educ.4th='B15003\_008', educ.5th='B15003\_009', educ.6th='B15003\_010', educ.7th='B15003\_011', educ.8th='B15003\_012', educ.9th='B15003\_013', educ.10th='B15003\_014', educ.11th='B15003\_015', educ.12th\_nodegree='B15003\_016',  educ.HS='B15001\_017', educ.ged='B15001\_018', educ.some\_coll1yr='B15001\_019', educ.some\_coll='B15001\_020', educ.assocdeg='B15001\_021',  educ.bach='B15003\_022', educ.mast='B15003\_023', educ.prof='B15003\_024', educ.doct='B15003\_025')  acs2018\_raw <- get\_acs(geography='tract', variables=key\_acs\_vars2018, state=state.abb, year=2018, survey='acs5') |
| moe.tot\_pop |  |  |
| estimate.MHI |  |  |
| moe.MHI |  |  |
| estimate.pct\_white |  |  |
| moe.pct\_white |  |  |
| estimate.pct\_Black |  |  |
| moe.pct\_Black |  |  |
| estimate.pct\_Asian |  |  |
| moe.pct\_Asian |  |  |
| estimate.pct\_Hispanic |  |  |
| moe.pct\_Hispanic |  |  |
| estimate.pct\_fpl100 |  | acs2018\_raw2 <- acs2018\_raw[,c('GEOID','variable','estimate','moe')]  acs2018\_wide <- data.frame(reshape(acs2018\_raw2, idvar=c('GEOID'), timevar='variable', direction='wide'))  acs2018\_wide[1:5,]  acs2018\_wide$estimate.fpl\_lt100 <- acs2018\_wide$estimate.FPL00.50 + acs2018\_wide$estimate.FPL50.99  acs2018\_wide$moe.fpl\_lt100 <- sqrt((acs2018\_wide$moe.FPL00.50)^2 + (acs2018\_wide$moe.FPL50.99)^2) |
| moe.pct\_fpl100 |  |  |
| estimate.pct\_fpl150 |  | acs2018\_wide$estimate.fpl\_lt150 <- acs2018\_wide$estimate.FPL00.50 + acs2018\_wide$estimate.FPL50.99 + acs2018\_wide$estimate.FPL100.124 + acs2018\_wide$estimate.FPL125.149  acs2018\_wide$moe.fpl\_lt150 <- sqrt((acs2018\_wide$moe.FPL00.50)^2 + (acs2018\_wide$moe.FPL50.99)^2 + (acs2018\_wide$moe.FPL100.124)^2 + (acs2018\_wide$moe.FPL125.149)^2) |
| moe.pct\_fpl150 |  |  |
| estimate.pct\_fpl200 |  | acs2018\_wide$estimate.fpl\_lt200 <- acs2018\_wide$estimate.FPL00.50 + acs2018\_wide$estimate.FPL50.99 + acs2018\_wide$estimate.FPL100.124 + acs2018\_wide$estimate.FPL125.149 + acs2018\_wide$estimate.FPL150.184 + acs2018\_wide$estimate.FPL185.199  acs2018\_wide$moe.fpl\_lt200 <- sqrt((acs2018\_wide$moe.FPL00.50)^2 + (acs2018\_wide$moe.FPL50.99)^2 + (acs2018\_wide$moe.FPL100.124)^2 + (acs2018\_wide$moe.FPL125.149)^2 + (acs2018\_wide$moe.FPL150.184)^2 + (acs2018\_wide$moe.FPL185.199)^2) |
| moe.pct\_fpl200 |  |  |
| estimate\_pct\_unemp |  | key\_acs\_vars2018\_civlabforce\_unempbyage <-c(civlabforce\_unemp\_men1619='B23001\_008', civlabforce\_unemp\_women1619='B23001\_094',  civlabforce\_unemp\_men2021='B23001\_015', civlabforce\_unemp\_women2021='B23001\_101',  civlabforce\_unemp\_men2224='B23001\_022', civlabforce\_unemp\_women2224='B23001\_108',  civlabforce\_unemp\_men2529='B23001\_029', civlabforce\_unemp\_women2529='B23001\_115',  civlabforce\_unemp\_men3034='B23001\_036', civlabforce\_unemp\_women3034='B23001\_122',  civlabforce\_unemp\_men3544='B23001\_043', civlabforce\_unemp\_women3544='B23001\_129',  civlabforce\_unemp\_men4554='B23001\_050', civlabforce\_unemp\_women4554='B23001\_136',  civlabforce\_unemp\_men5559='B23001\_057', civlabforce\_unemp\_women5559='B23001\_143',  civlabforce\_unemp\_men6061='B23001\_064', civlabforce\_unemp\_women6061='B23001\_150',  civlabforce\_unemp\_men6264='B23001\_071', civlabforce\_unemp\_women6264='B23001\_157')  key\_acs\_vars2018\_civlabforce\_byage <-c(civlabforcemen1619='B23001\_006', civlabforcewomen1619='B23001\_092',  civlabforcemen2021='B23001\_013', civlabforcewomen2021='B23001\_099',  civlabforcemen2224='B23001\_020', civlabforcewomen2224='B23001\_106',  civlabforcemen2529='B23001\_027', civlabforcewomen2529='B23001\_113',  civlabforcemen3034='B23001\_034', civlabforcewomen3034='B23001\_120',  civlabforcemen3544='B23001\_041', civlabforcewomen3544='B23001\_127',  civlabforcemen4554='B23001\_048', civlabforcewomen4554='B23001\_134',  civlabforcemen5559='B23001\_055', civlabforcewomen5559='B23001\_141',  civlabforcemen6061='B23001\_062', civlabforcewomen6061='B23001\_148',  civlabforcemen6264='B23001\_069', civlabforcewomen6264='B23001\_155')  acs2018\_empl <- get\_acs(geography='tract', variables=key\_acs\_vars2018\_civlabforce\_unempbyage, state=state.abb, year=2018, survey='acs5')  acs2018\_civlabforce <- get\_acs(geography='tract', variables=key\_acs\_vars2018\_civlabforce\_byage, state=state.abb, year=2018, survey='acs5') |
| moe\_pct\_unemp |  |  |
| estimate.pct\_lths |  | key\_acs\_vars2018\_popgt18 <- c(men1819='B01001\_007',men20='B01001\_008',men21='B01001\_009',men2224='B01001\_010',men2529='B01001\_011',men3034='B01001\_012',  men3539='B01001\_013',men4044='B01001\_014',men4549='B01001\_015',men5054='B01001\_016',men5559='B01001\_017',men6061='B01001\_018',  men6264='B01001\_019',men6566='B01001\_020',men6769='B01001\_021',men7074='B01001\_022',men7579='B01001\_023',men8084='B01001\_024',mengt85='B01001\_025',  women1819='B01001\_031',women20='B01001\_032',women21='B01001\_033',women2224='B01001\_034',women2529='B01001\_035',women3034='B01001\_036',  women3539='B01001\_037',women4044='B01001\_038',women4549='B01001\_039',women5054='B01001\_040',women5559='B01001\_041',women6061='B01001\_042',  women6264='B01001\_043',women6566='B01001\_044',women6769='B01001\_045',women7074='B01001\_046',women7579='B01001\_047',women8084='B01001\_048',womengt85='B01001\_049')  acs2018\_popgt18 <- get\_acs(geography='tract', variables=key\_acs\_vars2018\_popgt18, state=state.abb, year=2018, survey='acs5')  acs2018\_wide$estimate.lths <- acs2018\_wide$estimate.educ.none + acs2018\_wide$estimate.educ.prek + acs2018\_wide$estimate.educ.kind + acs2018\_wide$estimate.educ.1st + acs2018\_wide$estimate.educ.2nd + acs2018\_wide$estimate.educ.3rd + acs2018\_wide$estimate.educ.4th + acs2018\_wide$estimate.educ.5th + acs2018\_wide$estimate.educ.6th + acs2018\_wide$estimate.educ.7th + acs2018\_wide$estimate.educ.8th + acs2018\_wide$estimate.educ.9th + acs2018\_wide$estimate.educ.10th + acs2018\_wide$estimate.educ.11th + acs2018\_wide$estimate.educ.12th\_nodegree  acs2018\_wide$moe.lths <- sqrt((acs2018\_wide$moe.educ.none)^2 + (acs2018\_wide$moe.educ.prek)^2 + (acs2018\_wide$moe.educ.kind)^2 + (acs2018\_wide$moe.educ.1st)^2 + (acs2018\_wide$moe.educ.2nd)^2 + (acs2018\_wide$moe.educ.3rd)^2 + (acs2018\_wide$moe.educ.4th)^2 + (acs2018\_wide$moe.educ.5th)^2 + (acs2018\_wide$moe.educ.6th)^2 + (acs2018\_wide$moe.educ.7th)^2 + (acs2018\_wide$moe.educ.8th)^2 + (acs2018\_wide$moe.educ.9th)^2 + (acs2018\_wide$moe.educ.10th)^2 + (acs2018\_wide$moe.educ.11th)^2 + (acs2018\_wide$moe.educ.12th\_nodegree)^2) |
| moe.pct\_lths |  |  |
| estimate.pct\_ltcoll |  | acs2018\_wide$estimate.ltcoll <- acs2018\_wide$estimate.educ.none + acs2018\_wide$estimate.educ.prek + acs2018\_wide$estimate.educ.kind + acs2018\_wide$estimate.educ.1st + acs2018\_wide$estimate.educ.2nd + acs2018\_wide$estimate.educ.3rd + acs2018\_wide$estimate.educ.4th + acs2018\_wide$estimate.educ.5th + acs2018\_wide$estimate.educ.6th + acs2018\_wide$estimate.educ.7th + acs2018\_wide$estimate.educ.8th + acs2018\_wide$estimate.educ.9th + acs2018\_wide$estimate.educ.10th + acs2018\_wide$estimate.educ.11th + acs2018\_wide$estimate.educ.12th\_nodegree + acs2018\_wide$estimate.educ.HS + acs2018\_wide$estimate.educ.ged + acs2018\_wide$estimate.educ.some\_coll1yr + acs2018\_wide$estimate.educ.some\_coll + acs2018\_wide$estimate.educ.assocdeg  acs2018\_wide$moe.ltcoll <- sqrt((acs2018\_wide$moe.educ.none)^2 + (acs2018\_wide$moe.educ.prek)^2 + (acs2018\_wide$moe.educ.kind)^2 + (acs2018\_wide$moe.educ.1st)^2 + (acs2018\_wide$moe.educ.2nd)^2 + (acs2018\_wide$moe.educ.3rd)^2 + (acs2018\_wide$moe.educ.4th)^2 + (acs2018\_wide$moe.educ.5th)^2 + (acs2018\_wide$moe.educ.6th)^2 + (acs2018\_wide$moe.educ.7th)^2 + (acs2018\_wide$moe.educ.8th)^2 + (acs2018\_wide$moe.educ.9th)^2 + (acs2018\_wide$moe.educ.10th)^2 + (acs2018\_wide$moe.educ.11th)^2 + (acs2018\_wide$moe.educ.12th\_nodegree)^2 + (acs2018\_wide$estimate.educ.HS)^2 + (acs2018\_wide$estimate.educ.ged)^2 + (acs2018\_wide$estimate.educ.some\_coll1yr)^2 + (acs2018\_wide$estimate.educ.some\_coll)^2 + (acs2018\_wide$estimate.educ.assocdeg)^2) |
| moe.pct\_ltcoll |  |  |
| CT | Directly from SDI 2015 |  |
| population | Directly from SDI 2015 |  |
| sdi\_score | Directly from SDI 2015 |  |
| fpl\_100\_score | Directly from SDI 2015 |  |
| sing\_parent\_fam\_score | Directly from SDI 2015 |  |
| black\_score | Directly from SDI 2015 |  |
| dropout\_score | Directly from SDI 2015 |  |
| no\_car\_score | Directly from SDI 2015 |  |
| rent\_occup\_score | Directly from SDI 2015 |  |
| crowding\_score | Directly from SDI 2015 |  |
| nonemp\_score | Directly from SDI 2015 |  |
| unemp\_score | Directly from SDI 2015 |  |
| highneeds\_score | Directly from SDI 2015 |  |
| hisp\_score | Directly from SDI 2015 |  |
| foreignb\_score | Directly from SDI 2015 |  |
| lingisol\_score | Directly from SDI 2015 |  |
| percnt\_ltfpl100 | Directly from SDI 2015 |  |
| percnt\_singlparntfly | Directly from SDI 2015 |  |
| percnt\_black | Directly from SDI 2015 |  |
| percnt\_dropout | Directly from SDI 2015 |  |
| percnt\_hhnocar | Directly from SDI 2015 |  |
| percnt\_rentoccup | Directly from SDI 2015 |  |
| percnt\_crowding | Directly from SDI 2015 |  |
| percnt\_nonemp | Directly from SDI 2015 |  |
| percnt\_unemp | Directly from SDI 2015 |  |
| percnt\_highneeds | Directly from SDI 2015 |  |
| percnt\_hispanic | Directly from SDI 2015 |  |
| percnt\_frgnborn | Directly from SDI 2015 |  |
| percnt\_lingisol | Directly from SDI 2015 |  |