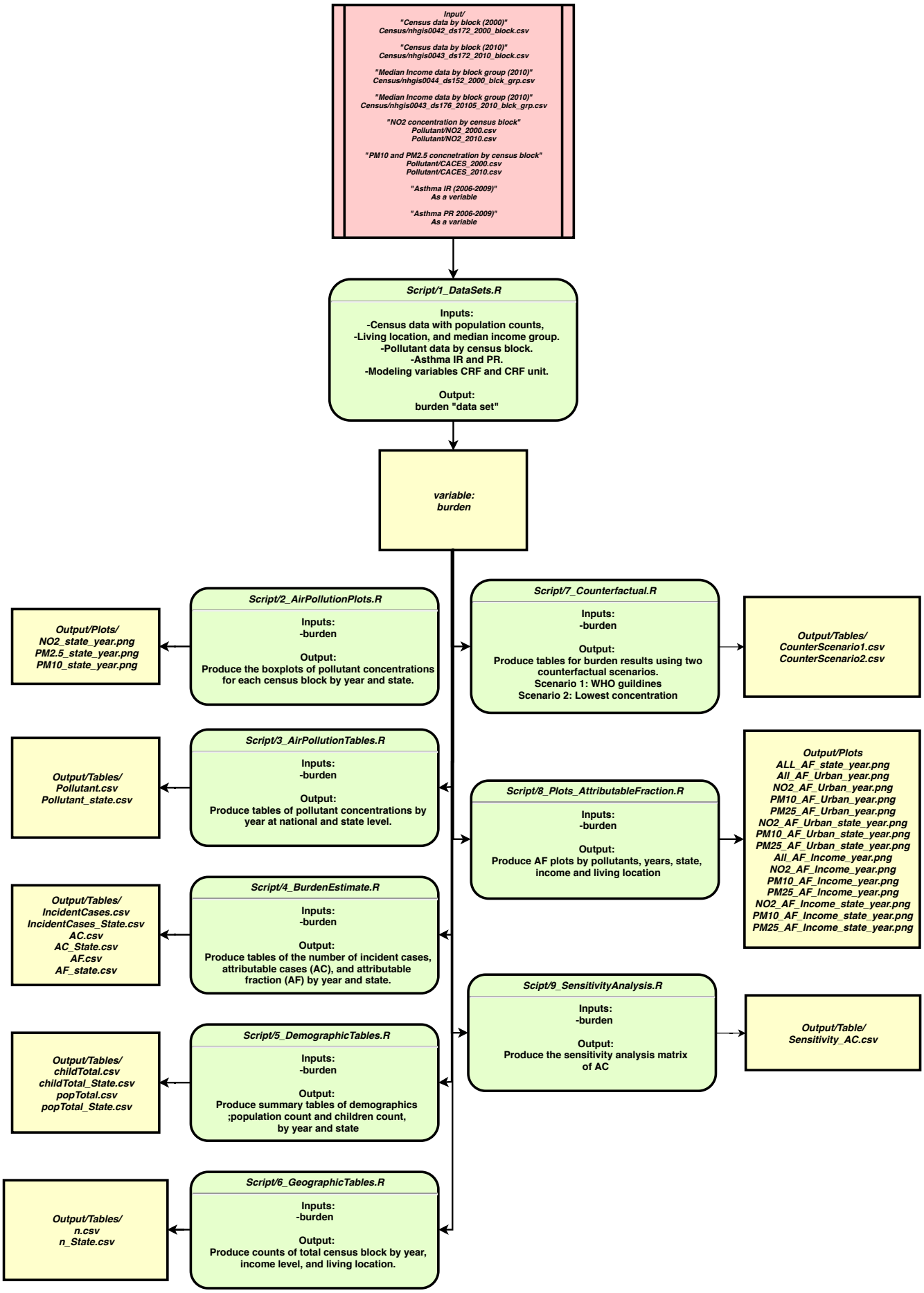
Input/
"Census data by block (2000)"
Census/nhgis0042_ds172_2000_block.csv
"Census data by block (2010)"
Census/nhgis0043_ds172_2010_block.csv
"Median Income data by block group (2010)"
Census/nhgis0044_ds152_2000_blck_grp.csv
"Median Income data by block group (2010)"
Census/nhgis0043_ds176_20105_2010_blck_grp.csv
"NO2 concentration by census block"
Pollutant/NO2_2000.csv
Pollutant/NO2_2010.csv
"PM10 and PM2.5 concnetration by census block"
Pollutant/CACES_2000.csv
Pollutant/CACES_2010.csv
"Asthma IR (2006-2009)"
As a veriable
"Asthma PR 2006-2009)"
As a variable
Script/1_DataSets.R
Inputs:
-Census data with population counts,
-Living location, and median income group.
-Pollutant data by census block.
-Asthma IR and PR.
-Modeling variables CRF and CRF unit.
Output:
burden "data set"
variable:
burden
Script/2_AirPollutionPlots.R
Inputs:
-burden
Output:
Produce the boxplots of pollutant concentrations for each census block by year and state.
Output/Plots/
NO2_state_year.png
PM2.5_state_year.png
PM10_state_year.png
Script/7_Counterfactual.R
Inputs:
-burden
Output:
Produce tables for burden results using two counterfactual scenarios.
Scenario 1: WHO guildines
Scenario 2: Lowest concentration
Output/Tables/
CounterScenario1.csv
CounterScenario2.csv
Script/3_AirPollutionTables.R
Inputs:
-burden
Output:
Produce tables of pollutant concentrations by year at national and state level.
Output/Tables/
Pollutant.csv
Pollutant_state.csv
Script/8_Plots_AttributableFraction.R
Inputs:
-burden
Output:
Produce AF plots by pollutants, years, state, income and living location
Output/Plots
ALL_AF_state_year.png
All_AF_Urban_year.png
NO2_AF_Urban_year.png
PM10_AF_Urban_year.png
PM25_AF_Urban_year.png
NO2_AF_Urban_state_year.png
PM10_AF_Urban_state_year.png
PM25_AF_Urban_state_year.png
All_AF_Income_year.png
NO2_AF_Income_year.png
PM10_AF_Income_year.png
PM25_AF_Income_year.png
NO2_AF_Income_state_year.png
PM10_AF_Income_state_year.png
PM25_AF_Income_state_year.png
Script/4_BurdenEstimate.R
Inputs:
-burden
Output:
Produce tables of the number of incident cases, attributable cases (AC), and attributable fraction (AF) by year and state.
Output/Tables/
IncidentCases.csv
IncidentCases_State.csv
AC.csv
AC_State.csv
AF.csv
AF_state.csv
Scipt/9_SensitivityAnalysis.R
Inputs:
-burden
Output:
Produce the sensitivity analysis matrix of AC
Output/Table/
Sensitivity_AC.csv
Script/5_DemographicTables.R
Inputs:
-burden
Output:
Produce summary tables of demographics ;population count and children count, by year and state
Output/Tables/
childTotal.csv
childTotal_State.csv
popTotal.csv
popTotal_State.csv
Script/6_GeographicTables.R
Inputs:
-burden
Output:
Produce counts of total census block by year, income level, and living location.
Output/Tables/
n.csv
n_State.csv