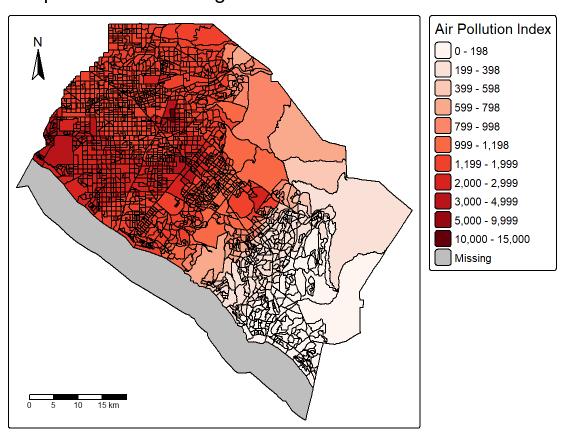
Orange County Air Pollution and Household Income

```
library(tidyverse)
 library(sf)
 library(here)
 library(tmap)
 # read in the the geodatabase
 ejscreen <- sf::st_read(here::here("data", "ejscreen", "EJSCREEN_2023_BG_StatePct_with_AS_CNMI_GU_
Reading layer `EJSCREEN_StatePctiles_with_AS_CNMI_GU_VI' from data source
  `C:\Users\kadon\OneDrive\Documents\MEDS\EDS-223\Homework\EDS223-
HW1\data\ejscreen\EJSCREEN_2023_BG_StatePct_with_AS_CNMI_GU_VI.gdb'
  using driver `OpenFileGDB'
Simple feature collection with 243021 features and 223 fields
Geometry type: MULTIPOLYGON
Dimension:
Bounding box: xmin: -19951910 ymin: -1617130 xmax: 16259830 ymax: 11554350
Projected CRS: WGS 84 / Pseudo-Mercator
 # filter to only include the State and County of focus (Santa Ana) and multiple decimal point var
Orange_County <- ejscreen %>%
   dplyr::filter(ST ABBREV == "CA", CNTY NAME %in% c("Orange County"))
 Orange_County$LOWINCPCT <-Orange_County$LOWINCPCT * 100
 # Map poor air quality, RSEI AIR, within Orange County, with a color gradient system focused on di
 tm_shape(Orange_County) +
   tm_polygons(fill = "RSEI_AIR",
               border.col = "black",
               palette = "Reds",
               title = "Air Pollution Index",
               breaks= c(0.00, 199.00, 399.00, 599.00, 799.0, 999.00, 1199.00, 2000.00, 3000.00, 50
   tm_compass(position = c("left", "top"))+
   tm_scalebar(position = c("left", "bottom")) +
   tm layout(main.title = "Map of Areas With High Air Pollution")
```

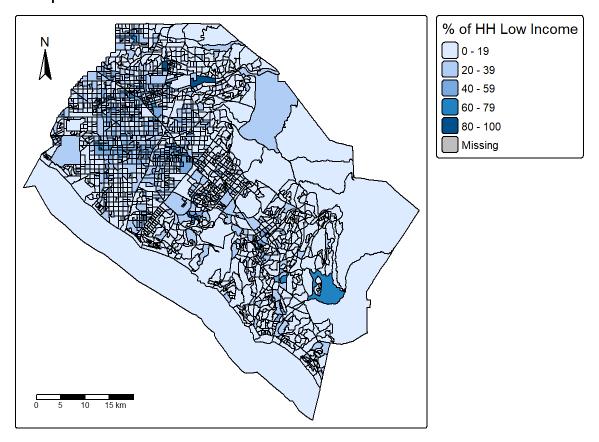
localhost:4084 1/3

Map of Areas With High Air Pollution



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Map of Low Income Households



localhost:4084