# Ecopia

Impervious Surfaces in the Most Populous US Coastal Cities

Using Ecopia AI land cover data, we determined the average percentage of impervious surface per census block group in the most populous coastal city of each state covered by NOAA's Digital Coast program.
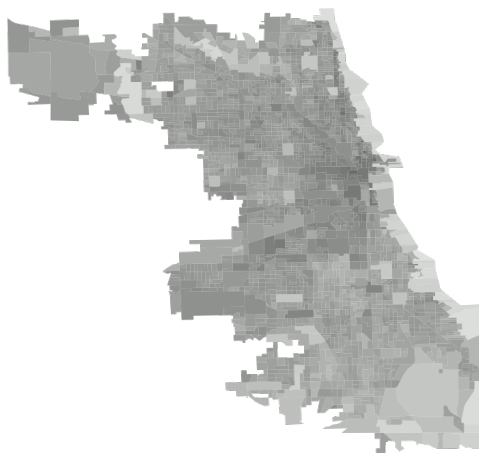
Analyzing this land cover data with median household income, we can better visualize and understand climate inequity within these vulnerable communities.
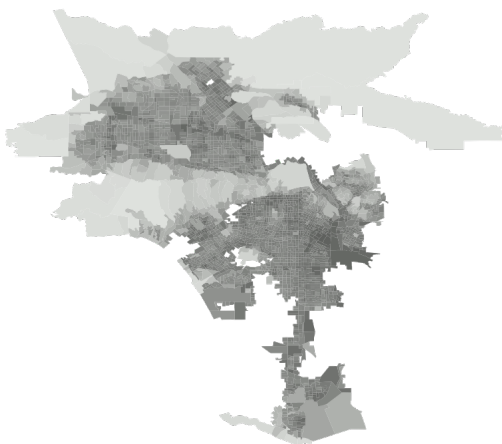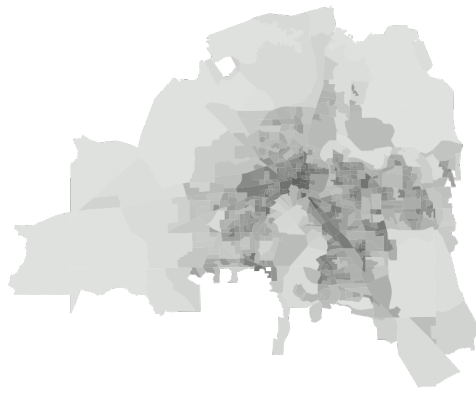
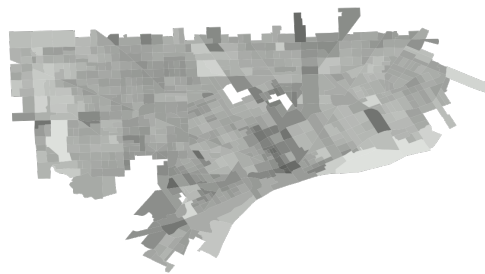|	New York, NY	Los Angeles, CA	Chicago, IL	Houston, TX
Population	8.8M	4.4M	2.9M	2.4M
% Impervious	77%	70%	65%	52%
% Impervious, Top 20% Income	78%	55%	69%	49%
% Impervious, Bottom 20% Income	75%	81%	62%	52%

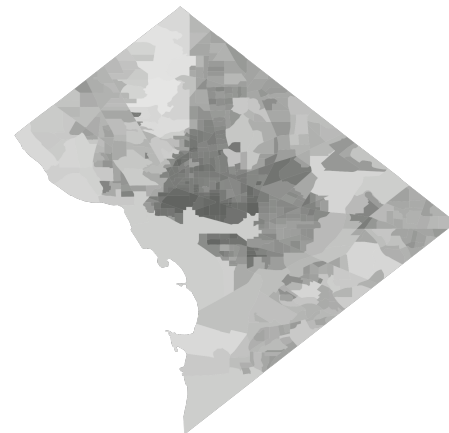|	Philadelphia, PA	Jacksonville, FL	Detroit, MI	Boston, MA
Population	1.6M	1M	790K	784K
% Impervious	67%	30%	50%	64%
% Impervious, Top 20% Income	63%	21%	51%	62%
% Impervious, Bottom 20% Income	70%	37%	50%	67%
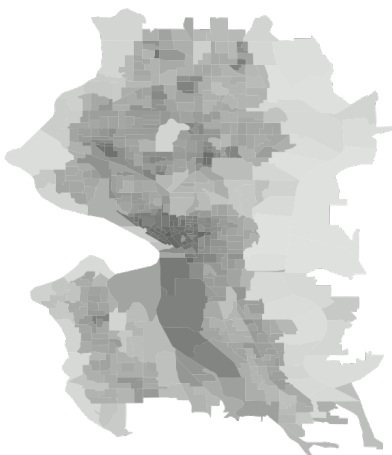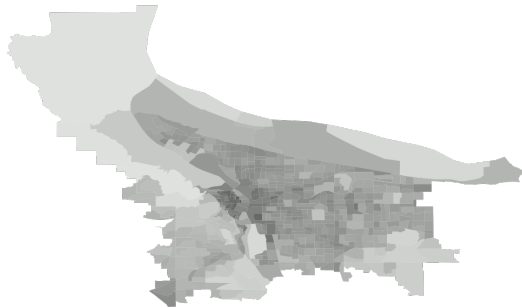
	Seattle, WA	Portland, OR	Milwaukee, WI	Washington, DC
Population	774K	731K	719K	683K
% Impervious	54%	53%	54%	58%
% Impervious, Top 20% Income	46%	47%	47%	51%
% Impervious, Bottom 20% Income	64%	60%	58%	51%
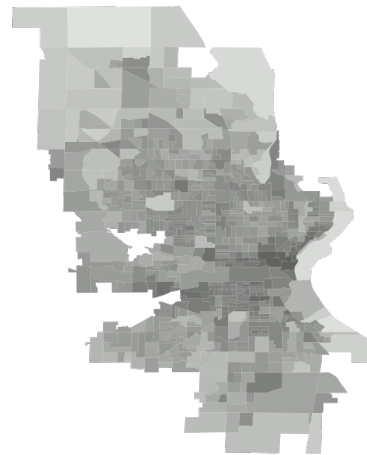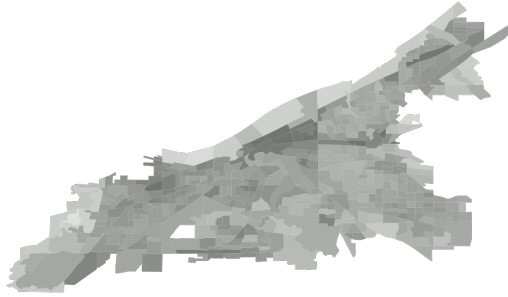
	Baltimore, MD	Cleveland, OH	Virginia Beach, VA	New Orleans, LA
Population	592K	472K	458K	435K
% Impervious	55%	51%	38%	54%
% Impervious, Top 20% Income	53%	50%	29%	56%
% Impervious, Bottom 20% Income	62%	51%	48%	54%
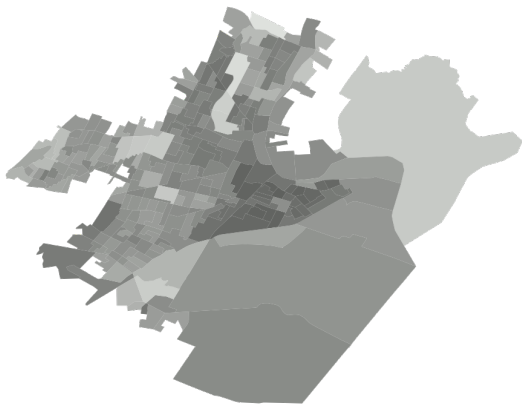
	Newark, NJ	Honolulu, HI	Anchorage, AK	Mobile, AL
Population	381K	372K	298K	248K
% Impervious	69%	64%	40%	29%
% Impervious, Top 20% Income	59%	48%	21%	26%
% Impervious, Bottom 20% Income	66%	75%	51%	34%
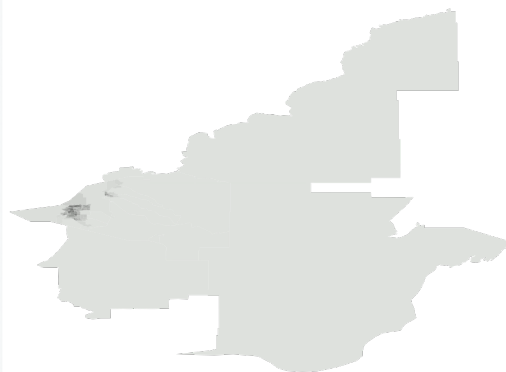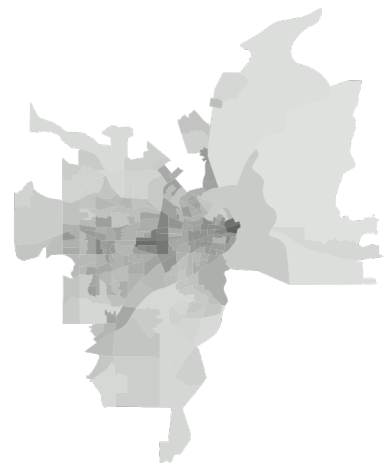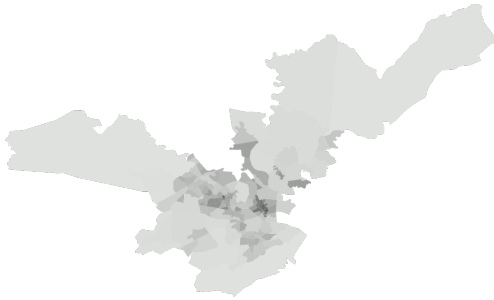
	Providence, RI	Charleston, SC	Savannah, GA	Bridgeport, CT
Population	246K	232K	226K	177K
% Impervious	59%	27%	31%	53%
% Impervious, Top 20% Income	53%	20%	21%	32%
% Impervious, Bottom 20% Income	65%	32%	38%	68%
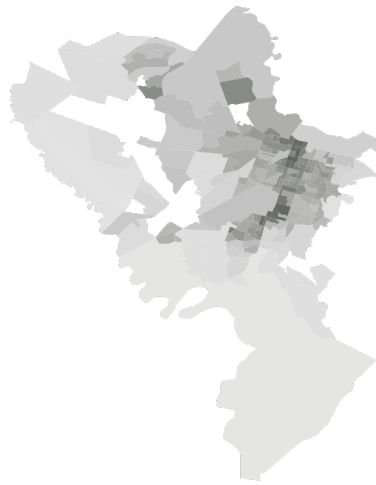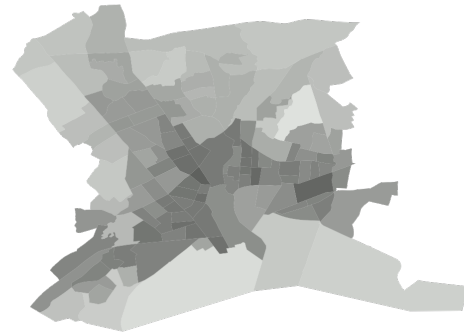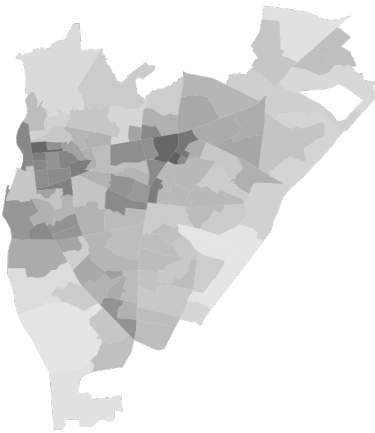
	Wilmington, NC	Manchester, NH	Duluth, MN	Gary, IN
Population	158K	149K	110K	108K
% Impervious	33%	41%	27%	35%
% Impervious, Top 20% Income	26%	24%	17%	33%
% Impervious, Bottom 20% Income	43%	62%	43%	39%
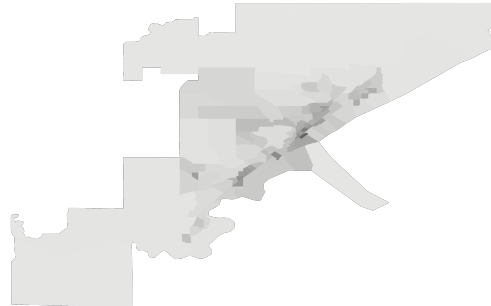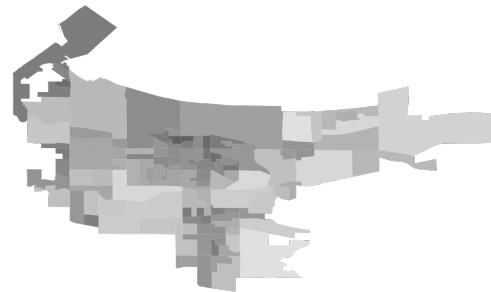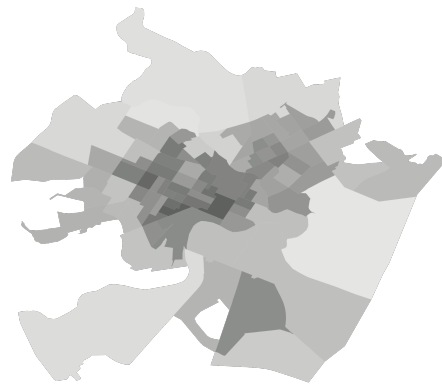
	Portland, ME	Wilmington, DE	Biloxi, MS
Population	95K	90K	74K
% Impervious	38%	53%	23%
% Impervious, Top 20% Income	23%	43%	12%
% Impervious, Bottom 20% Income	45%	62%	33%

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