![CrisisReady logo]

HDSI | Harvard Data Science Initiative
Affiliate Project

DirectRelief

Hurricane Ian Situation Report for Oct 4, 2022 at 08:00

Data last updated on Oct 4, 2022 at 08:00

01 Movement
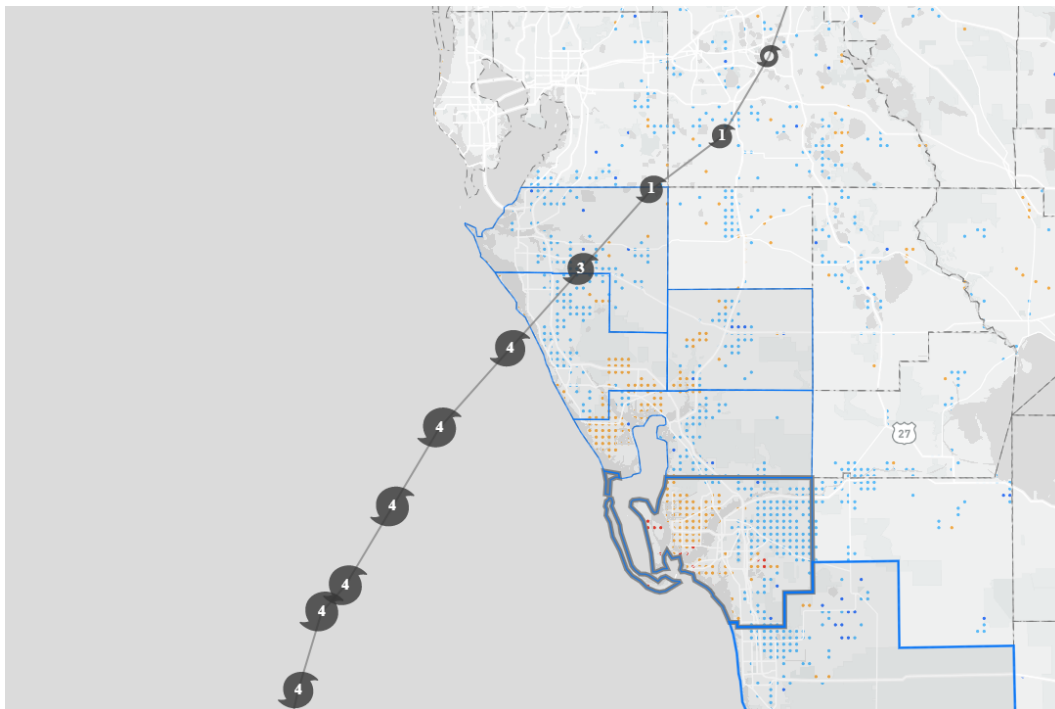
02 Vulnerability

Summary

As of October 4th widespread power outages persisted across the entire area of southwest Florida proximate to the landfall of Hurricane Ian.

Rates of return throughout the affected area are above baseline except for the most affected counties of Charlotte and Lee. Even in these counties, however, population densities based on Facebook users have nearly returned to baseline.

The rate of return remains linear day-over-day, which forecasts full return across the region by Monday or Tuesday (Oct 10th or 11th).

MOVEMENT

% Pop. Density Change on Oct 4, 2022 at 08:00

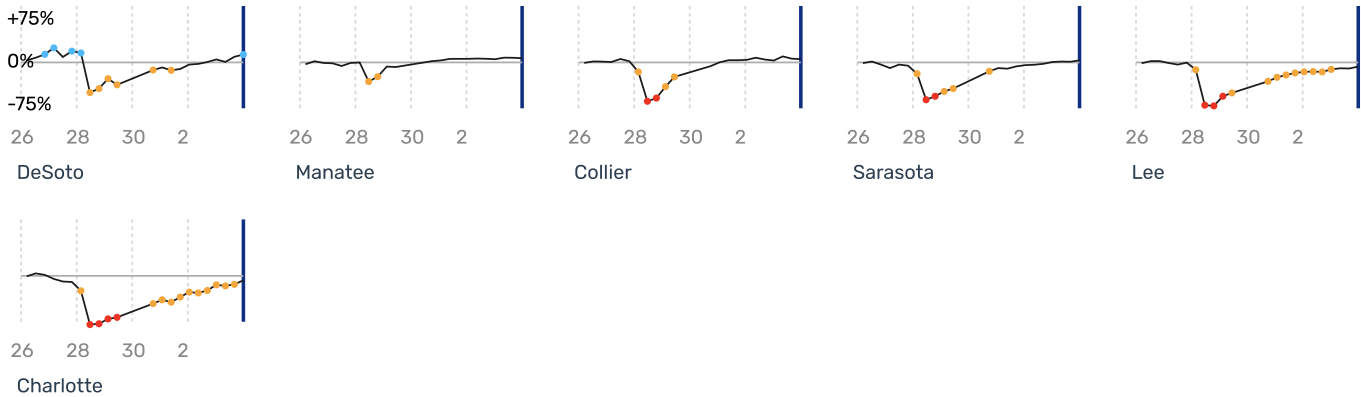**Facebook Mobility Data**

- 🟥 -50%+
- 🟧 -50 to -10%
- 🟦 10 to 50%
- 🟦 50%+

% Pop. Density Change on Oct 4, 2022 at 08:00 with place selections.
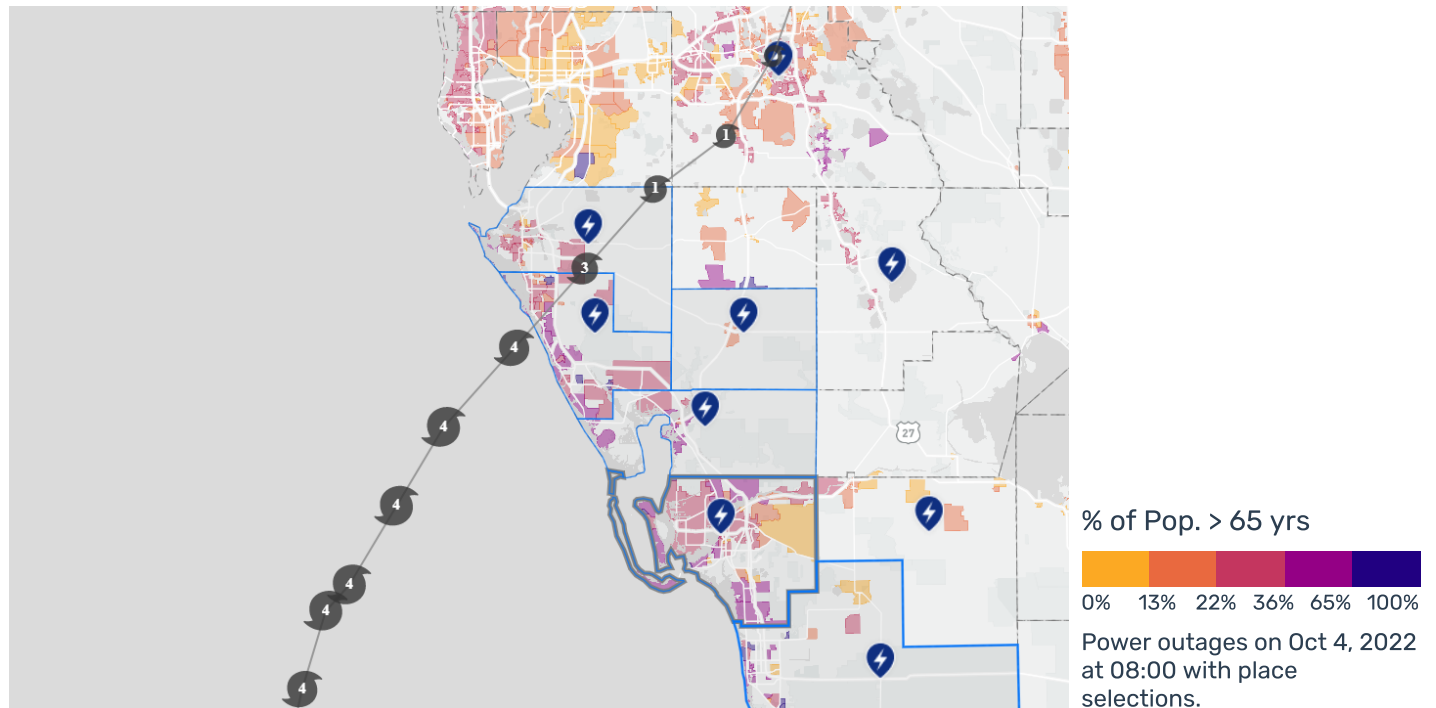
Population Density on Oct 4, 2022 at 08:00

Location	Baseline Pop.	Current Crisis Pop.	Pop. Density vs. Baseline ▼	Confidence Level
DeSoto	5715	6399	12%	N/A
Manatee	86224	91734	6%	N/A
Collier	73418	77096	5%	N/A
Sarasota	95179	98225	3%	N/A
Lee	171057	160195	−6%	N/A
Charlotte	43255	40344	−7%	N/A

% Pop. Density Change Over Time

VULNERABILITY

Pop. > 65 yrs on Oct 4, 2022 at 08:00

% of Pop. > 65 yrs

0% 13% 22% 36% 65% 100%

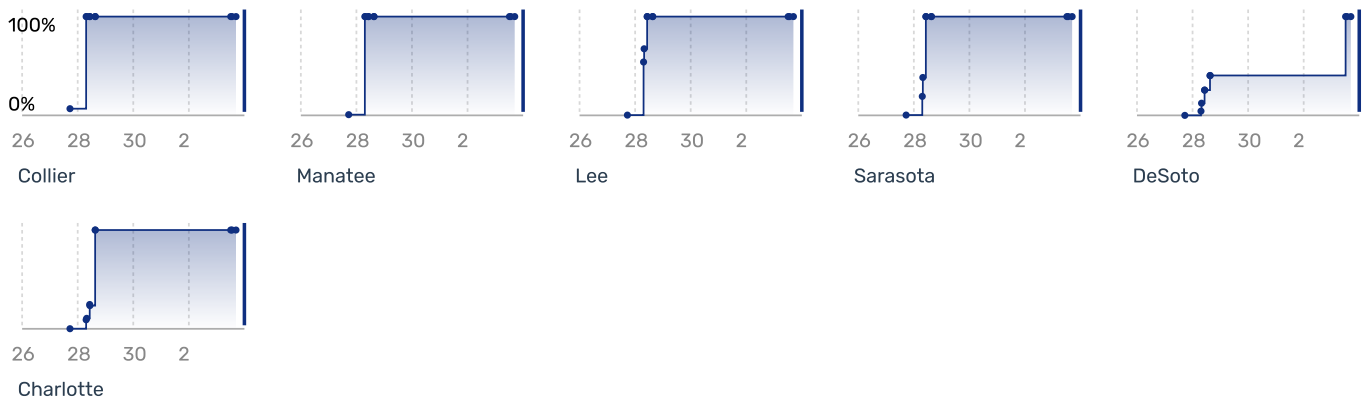Power outages on Oct 4, 2022 at 08:00 with place selections.

Demographics

Location	Total Pop.	Pop. > 65 yrs	% of Pop. > 65 yrs ▼	% of Pop. Below Poverty Level	Num. Customers Without Power	DME Users	DME Users / 100K Pop.
Charlotte	185,926	74,548	40%	10%	82,589	2632	0.0263
Sarasota	427,766	156,983	37%	9%	76,370	4475	0.0447
Collier	379,345	122,024	32%	11%	33,302	2579	0.0258
Lee	756,570	215,942	29%	12%	251,521	6559	0.0656
Manatee	393,847	108,468	28%	11%	28,387	3363	0.0336
DeSoto	37,371	8,317	22%	25%	9,218	403	0.0040

Power Outages

Places

Collier   Manatee   Lee   Sarasota   DeSoto

Charlotte

CrisisReady is a research response platform at the Harvard Data Science Initiative and Direct Relief that advances data-driven decision making in emergency response. Contact us at info.crisisready.io to get in touch.

Report created on Oct 7, 2022 at 16:47