NEW YORK

CLIMATE CHANGE IMPACTS

Excess heat, major storms, and coastal and inland flooding have already impacted New York, and pose growing challenges to many aspects of life. Human health, infrastructure, and crops will be increasingly compromised.

	ALREADY OBSERVED CHANGES	ANTICIPATED FUTURE CHANGES	RISKS TO SOCIETY
 HEAT	New York is on average **2.7 °F hotter** than in year 1970. A study of New York City estimated that in 2013 there were **133 excess deaths** due to extreme heat.	Buffalo is projected to experience **15 times as many heat danger days** and the typical number of heat wave days in New York is projected to increase five-fold by midcentury. Summers in Albany and Buffalo are projected to be about **10 °F hotter** by 2100.	**Mosquito season** in Albany is now about a month longer than it was in the 1980s. Dew point temperatures in Albany have increased by almost 4 **°F** since 1980. More moisture in the air increases the risk of **heatstroke and heat exhaustion**.
 COASTAL FLOODING	The Battery and Kings Point have each experienced **39 coastal flood days** between 2005-2014; 79% attributed to human-caused sea level rise. **Storm flood heights** driven by hurricanes in New York City have increased by more than 3.9 feet over the last thousand years.	By 2050, New York's **coastal flood threat** is projected to increase by more than 50%, putting an additional 230,000 people in the 100-year coastal floodplain. A 100-year flood in Montauk will be **20 times more likely** by midcentury due to sea level rise.	More than 430,000 people are at risk of a 100-year coastal flood in New York, the **third greatest vulnerable population** among states in the U.S. Should sea level rise reach 10 feet, **754,000 people** will be affected in New York City.
 INLAND FLOODING	New York has experienced a **30-40% increase in heavy downpours** and now observes more than 3 times as many days with heavy precipitation per year compared to 1950.	By 2050, New York's **inland flooding threat** is projected to increase by 35%.	More than 240,000 people in New York are living in **flood prone areas.**

For sources of information, please visit: www.edf.org/climateimpactsources
*Anticipated future changes are for scenarios without climate action

EDF ENVIRONMENTAL DEFENSE FUND
Finding the ways that work

EXPECTED DAMAGES

IN NEW YORK BY 2100 WITHOUT CLIMATE ACTION

- As many as 140,000 homes valued at nearly $100 billion at risk of chronic inundation, and nearly $3.5 billion of annual coastal damages.
- 10 counties, home to over 1.5 million people, will experience a 25-35% decrease in crop yields.
- 10 counties, home to over 12 million people will experience nearly a 10% increase in energy expenditures.