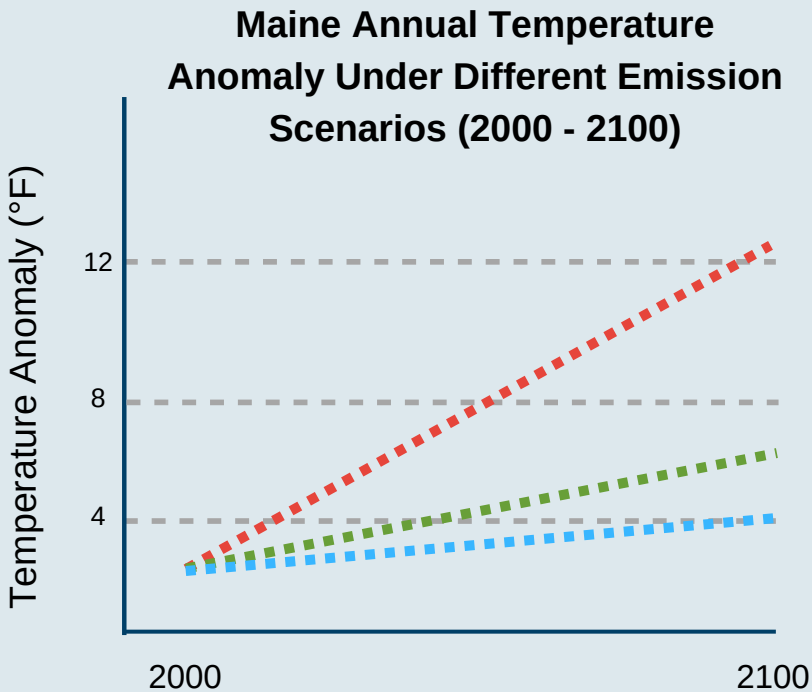


# Maine Climate Hazards & Impacts



## Increasing, Variable Temperatures 3°F warmer

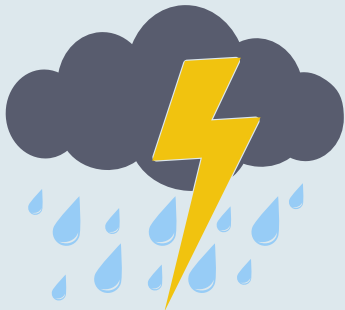
Maine's average annual temperature increase since 1895



- High Emissions
- Medium Emissions
- Low Emissions

15-20 x more high heat days at 2050 will cause: increased energy and cooling costs, heat-related illness, more vector-borne diseases

## Increased Precipitation and Weather Intensity



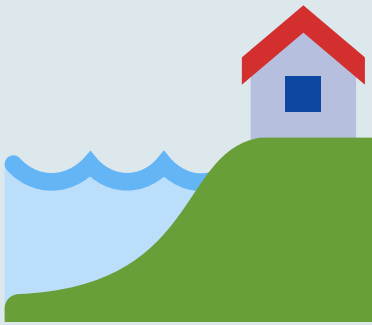
### 15% since 1895

Average annual precipitation has increased 15% since 1895. The occurrences of powerful storms is also increasing

Potential impacts resulting from increased precipitation and weather intensity include: *coastal and inland flooding, decline in water quality, infrastructure and property damage, overburdened wastewater system*



# Maine Climate Hazards & Impacts

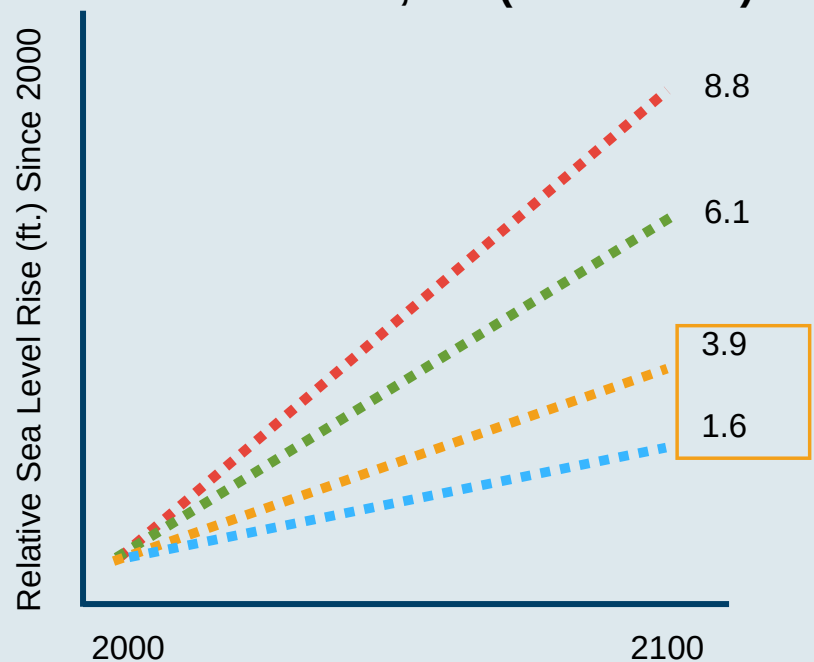
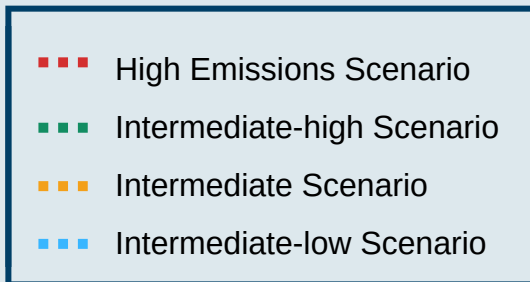


## Increasing Sea Level Rise

**7.5 inches**

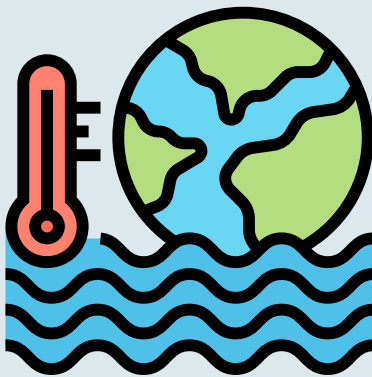
Sea levels around Portland have risen 7.5" since 1912

### Potential Sea Level Rise Scenarios in Portland, ME (2000 - 2100)



**15 x More Flooding at 2050** leads to : *infrastructure and property damage, coastal flooding, coastal erosion, and groundwater contamination*

\*The State of Maine asks all coastal municipalities to *commit to manage* for 1.5 feet of relative sea-level rise by 2050, and 3.9 feet by 2100



## Ocean Warming and Acidification

**2.9°F warmer since 1895**

Average Gulf of Maine surface temperature has increased most sharply in recent years

Potential impacts resulting from ocean warming and acidification include: *changing marine ecosystems, decline in shellfish populations, cold-water fisheries moving north*