

Michael Brewer
Center for Weather and Climate
National Centers for Environmental Information

Center for Weather and Climate Products

Weekly Monthly Seasonal-Annual Decadal

Local









Regional









National & Global

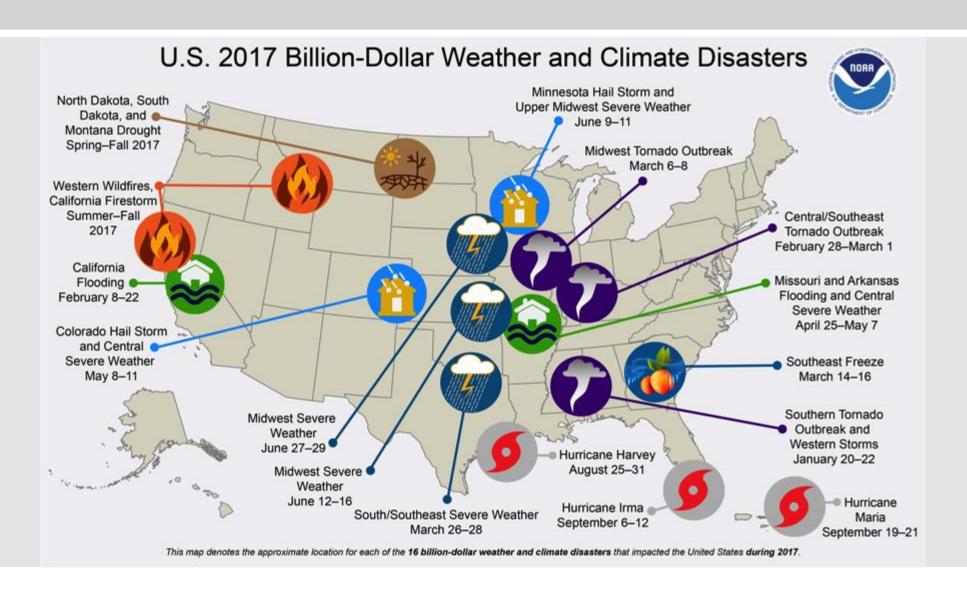






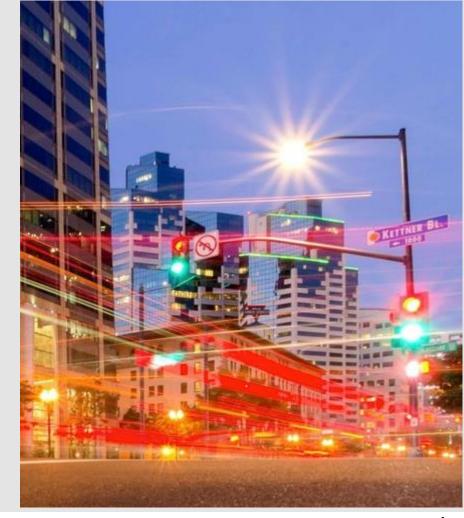


U.S. 2017 Billion Dollar Disasters



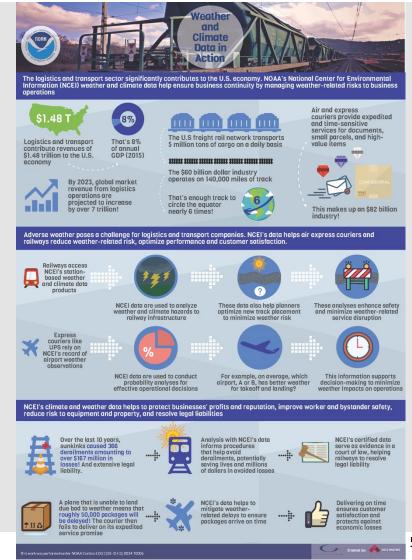
Utility Company

- From NCEI: Climatological and historical datasets
- Uses: San Diego Gas & Electric combined climate datasets to create a set of criteria that minimize grid system weaknesses and litigation
- Impact: >\$2 billion in savings for similar events



Logistics and Transport Industry

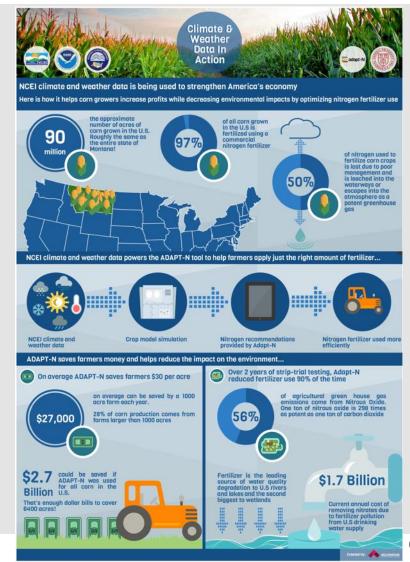
- From NCEI: International Station Meteorological Climate Summary
- Uses: FedEx, UPS, and major railways land planes, set speed limits, and determine where to hub
- Impact: \$1.48T in revenues, brand image



Agriculture Industry

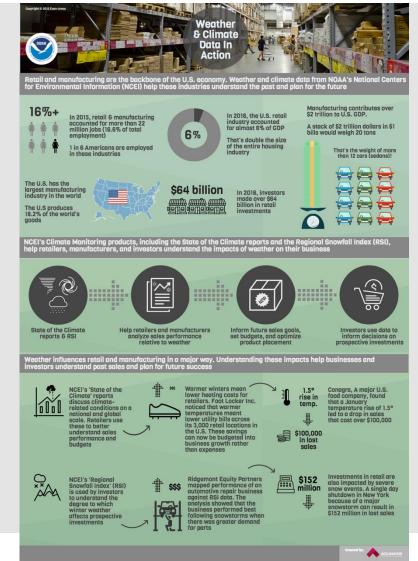
U.S. Corn Growers

- From NCEI: Global Historical Climatological Network–Daily
- Uses: Farmers use climatological data to determine how much fertilizer to apply in order to minimize waste
- Impact: \$2.7B/yr saved in application costs; lessens runoff/water pollution (\$1.7B annual cost avoidance)



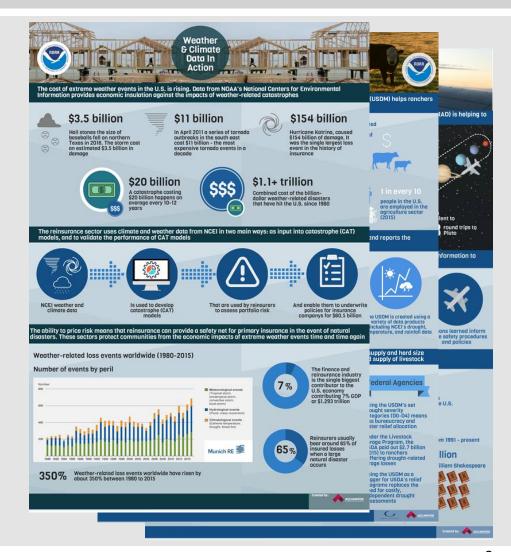
Retail Industry

- From NCEI: State of the Climate Reports
- Uses: Conagra ties sales of dry goods to weather and uses trends to inform product sales forecasts and to stock stores
- Impact: \$100,000 lost revenue from in 2 regions from warm January

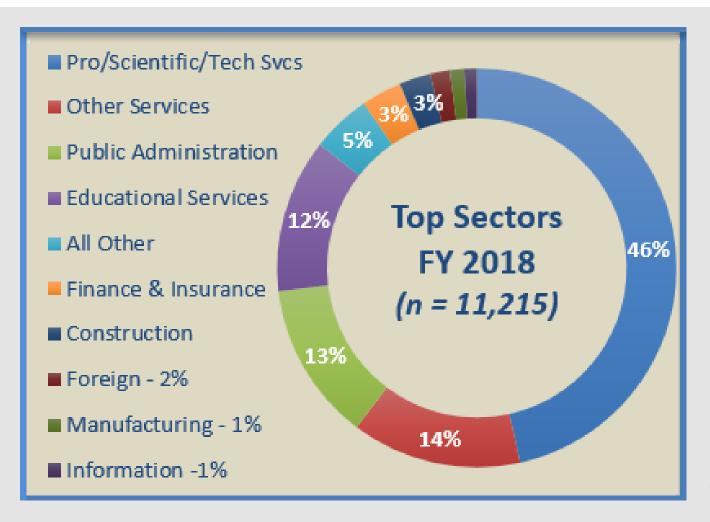


Other Case Studies

- Reinsurance
- Livestock Agriculture
- Air Transportation and Safety
- Private Sector Weather Providers
- Coral Reefs
- Fisheries (Gulf & Atlantic)



NCEI Stakeholder Profile 2018



Insights are difficult if you don't know your users

For all stakeholders that contacted NCEI. Does not include those who view or download data without contact.

Summary

- Every day, climate data adds to the quality of life of many people and communities
- From TV weather forecasts to Smartphone apps, data provide a backbone to our lives
- Safety, security, and many modern conveniences are built on climate data and information





Contacts

- Websites
- www.ncei.noaa.gov
- www.ncdc.noaa.gov
- www.ncdc.noaa.gov/customer-support
- www.ncdc.noaa.gov/data-access
- www.ncdc.noaa.gov/contact
- www.ncdc.noaa.gov/success



