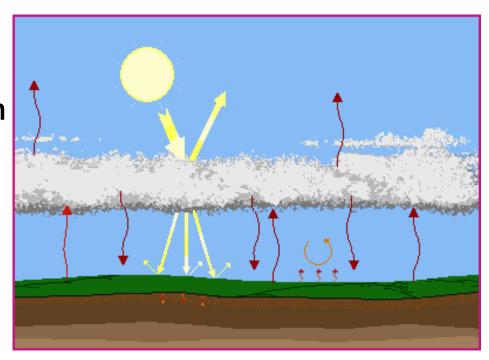


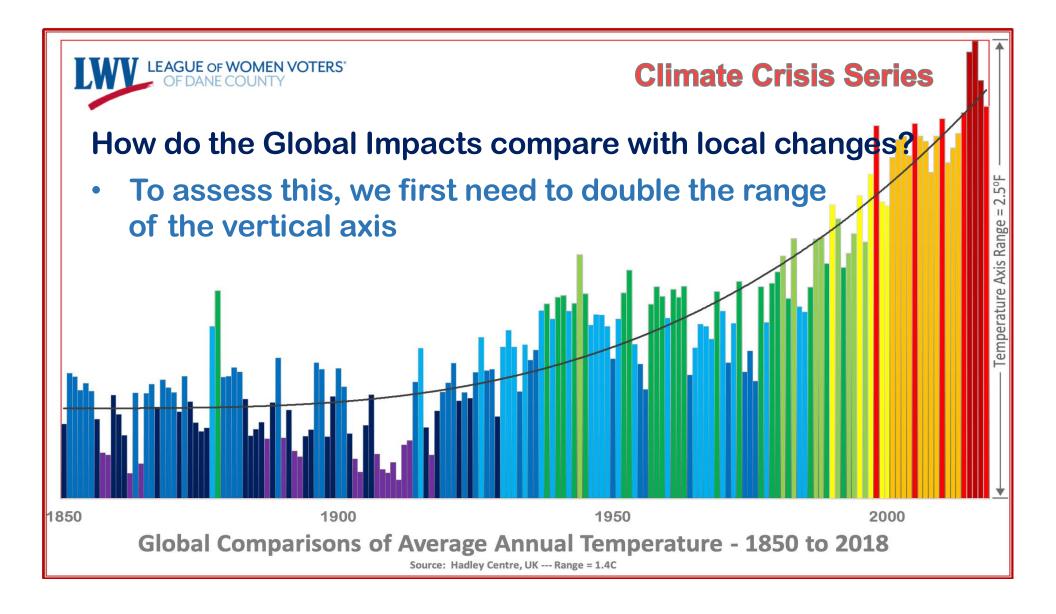


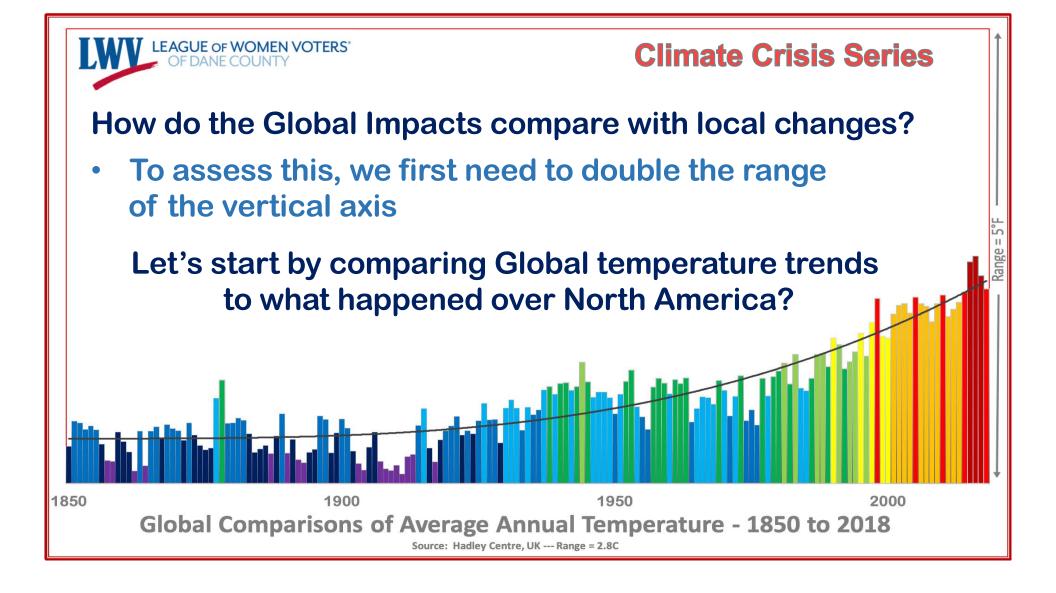
What Processes in the Atmosphere Cause "CO₂ Warming"?

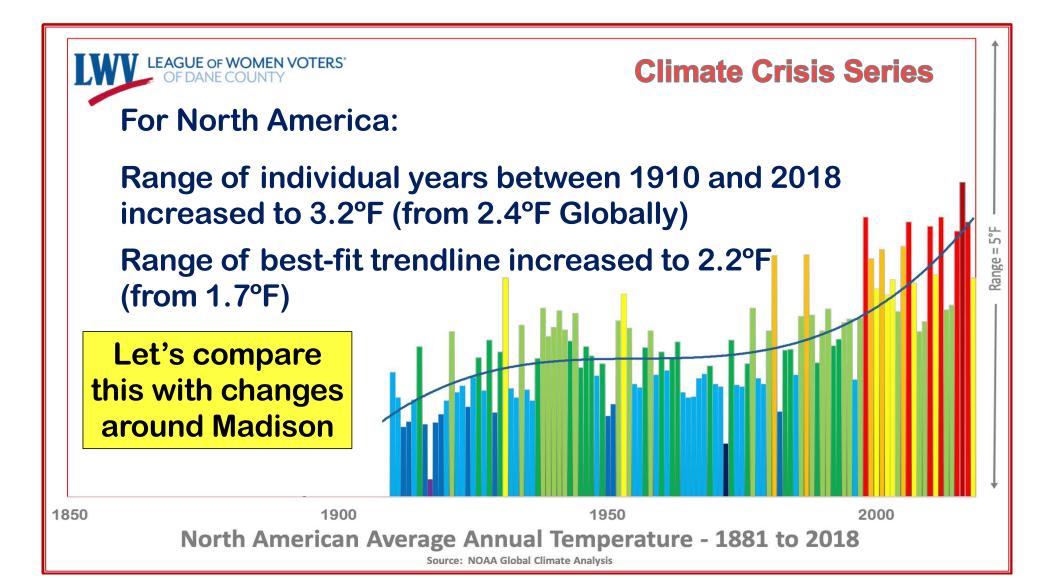
Increasing CO₂ disrupts the normal role of the atmosphere as a 'radiator' that balances incoming solar radiation and outgoing terrestrial radiation by:

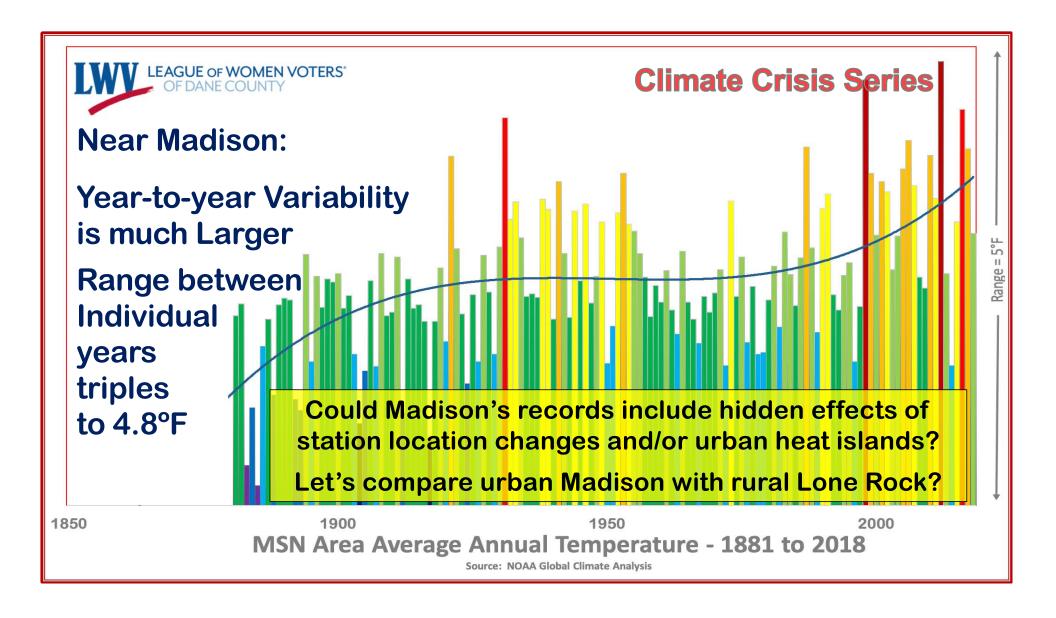
- Reducing the loss of heat through the atmosphere to space and
- Increasing rewarming of the earth's surface by the atmosphere.

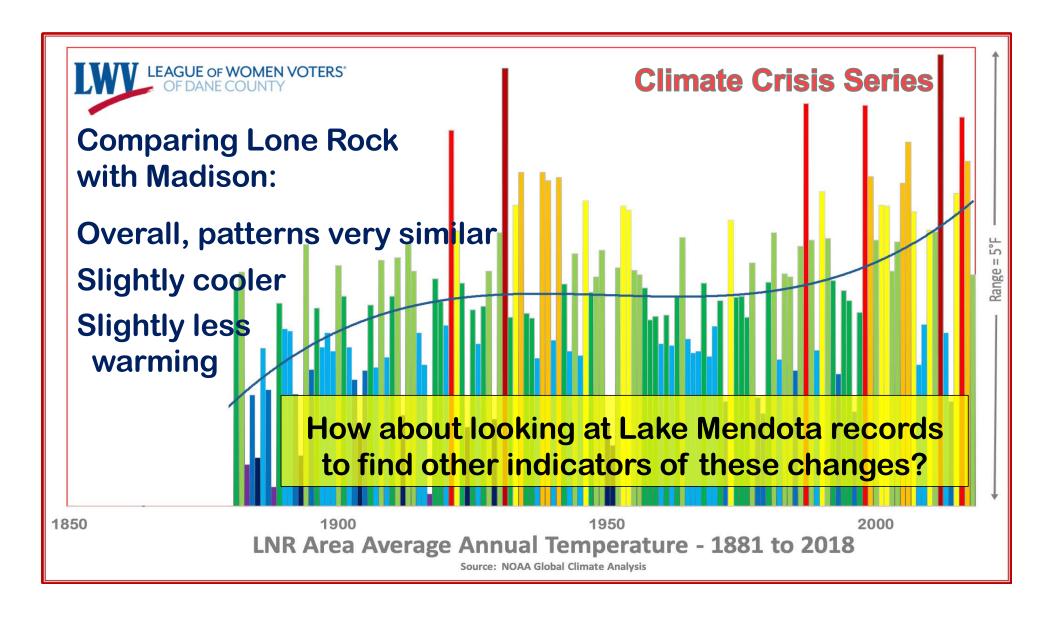


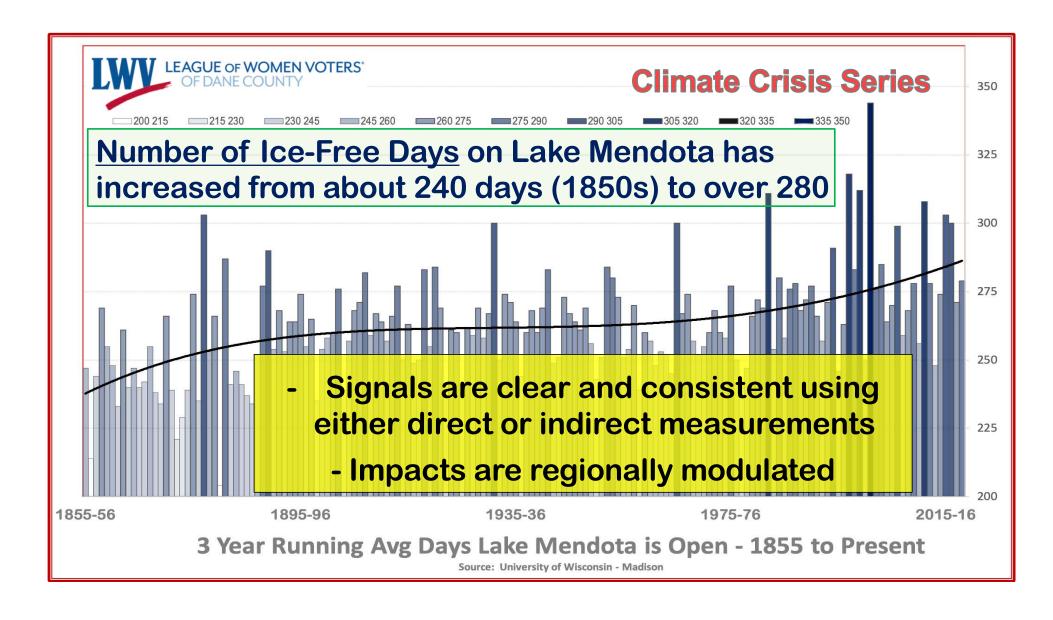


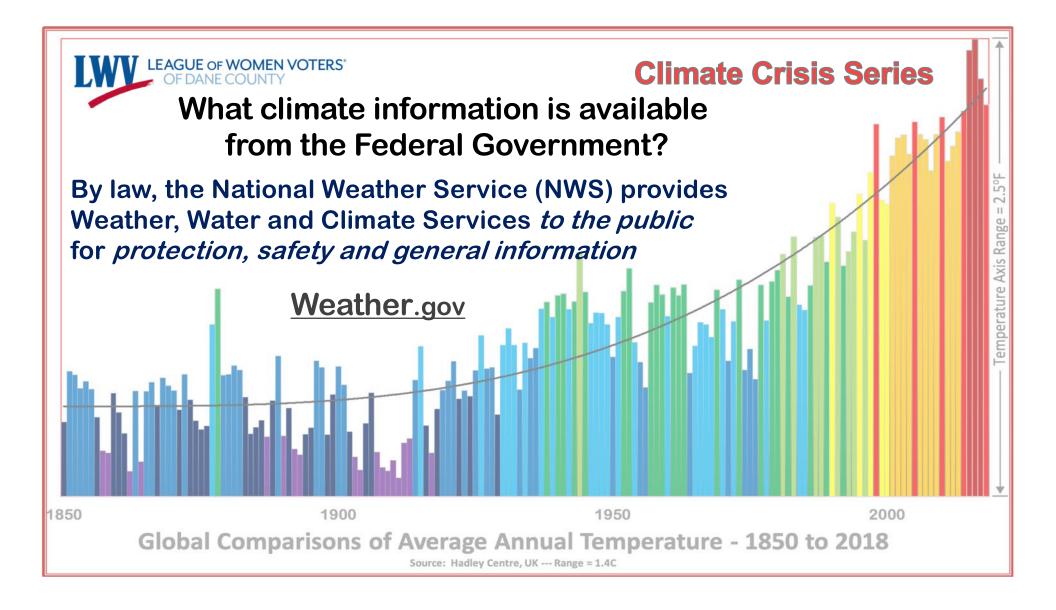












What climate information is available from the Federal Government?

Tasks focus on Observations, Analyses and Forecasts

These include:

LEAGUE OF WOMEN VOTERS

- General forecasts of weather, rivers/coasts, and climate
- Warnings of hazardous weather and flooding potential
- Other extreme weather/climate events
- Shared global responsibility for international aviation and marine forecasts, as well as space weather products

What climate information is available from the Federal Government?

The NWS is also responsible for:

Basic observations

LEAGUE OF WOMEN VOTERS

- Surface and Balloon-borne
 - Taken across the US and some surrounding areas
 - "Weather" observations are also "Climate" observations
 - Radar observations

Other parts of NOAA:

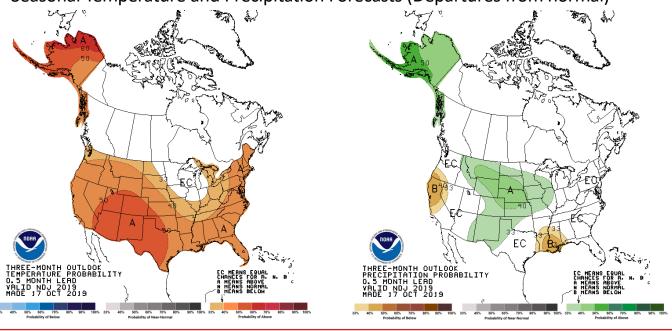
- Run US operational weather-related satellite systems
- Conduct research into improving our understanding and forecasts of weather and climate



The NWS <u>Climate Prediction Center</u> (CPC) monitors and forecasts short-term climate fluctuations and provides information on the effects that changing climate patterns can have on the nation

Some examples include:

Seasonal Temperature and Precipitation Forecasts (Departures from normal)



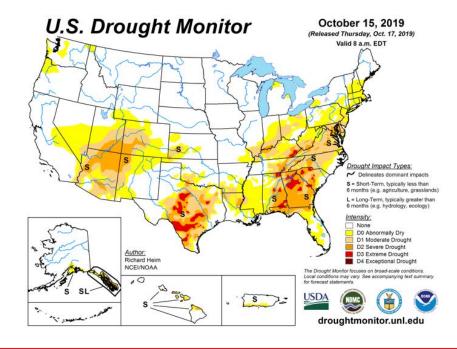


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Some examples include:

CPC also provides climate information to other federal agencies in support of their missions.

Examples include the U.S. Drought Monitor and Drought Forecasts - distributed jointly with Dept. of Ag.

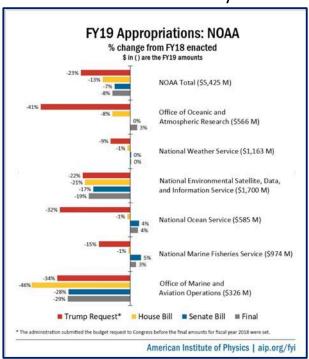




What do NOAA's Weather/Water/Climate Services cost you?

NOAA products are openly available, free of charge

We can look at a detailed Eye Chart



Or We can express it in more practical terms (Annual cost per US resident)

NWS alone costs each of us less than a Big Mac



NOAA's total Weather/Water/Climate observations and services

cost less than one Big Mac, Fries and Shake Combo

Quite the Value Meal!

