



GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

State of Georgia Climate Office U.S. Drought Monitor Process



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USDM Process for Georgia

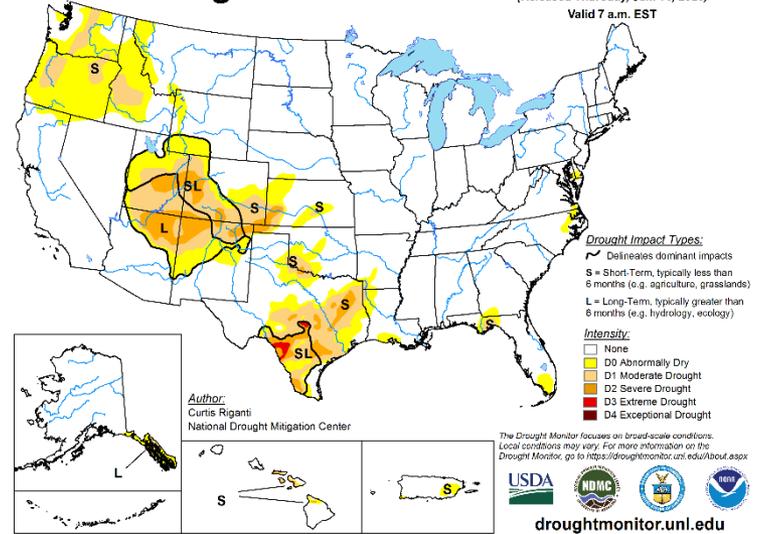


Collaborative effort between:

- State of Georgia Climate Office
- NWS Southern Region headquarters
- Surrounding WFO partners (ex. NWS Peachtree City)
- Other State Climatologists across Southeast
- USDM authors

U.S. Drought Monitor

January 14, 2020
(Released Thursday, Jan. 16, 2020)
Valid 7 a.m. EST



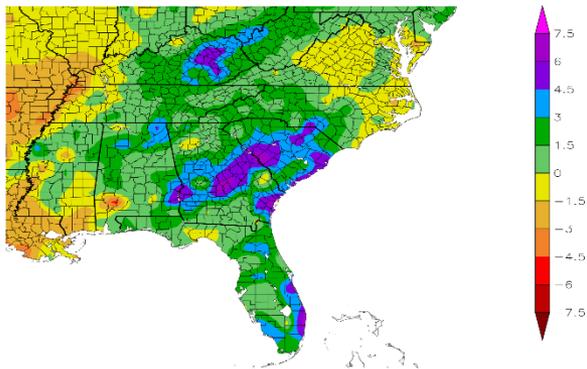
NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



Step-By-Step Process – *Meteorological Conditions*



Departure from Normal Precipitation (in)
12/1/2019 – 12/31/2019

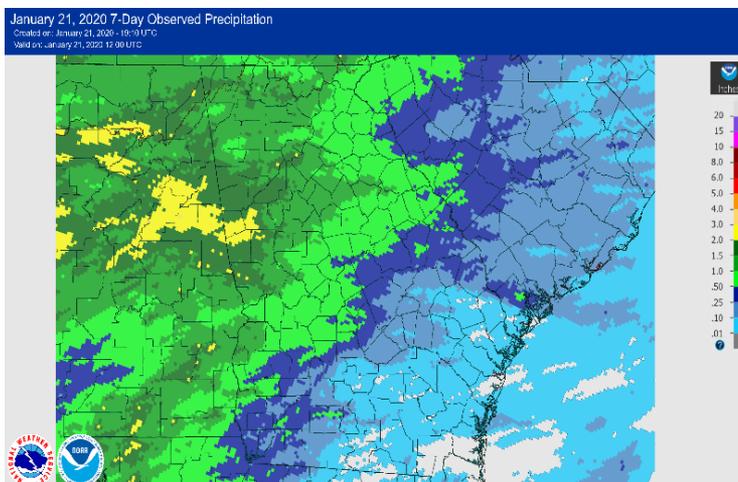
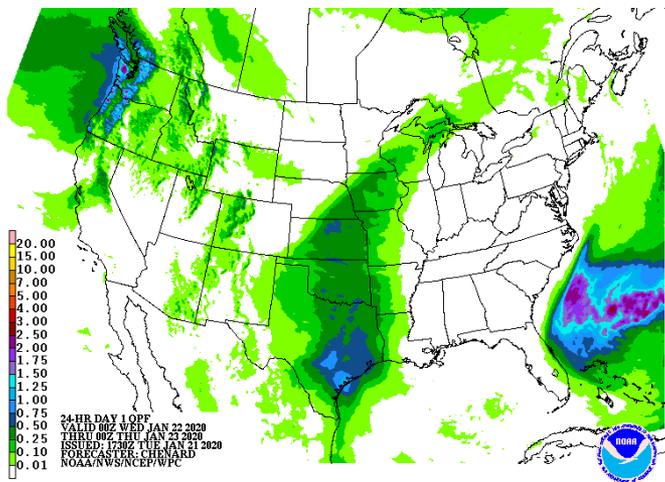


Generated 1/2/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

Precipitation Information:

- Recent 7-day observed rainfall
- 30/60/90/180-day percent-of-normal rainfall from NOAA's Advanced Hydrologic Prediction Service (AHPS)
- NOAA/NWS COOP, ASOS and CoCoRaH daily, monthly and seasonal rainfall data

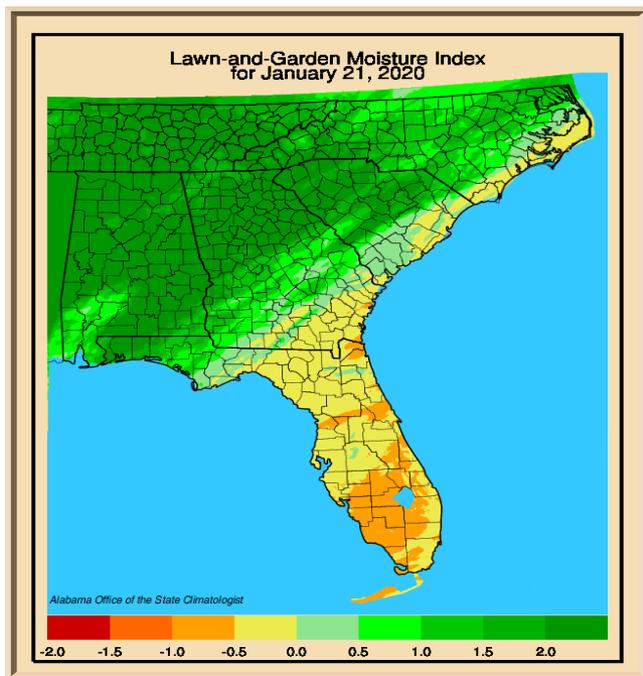




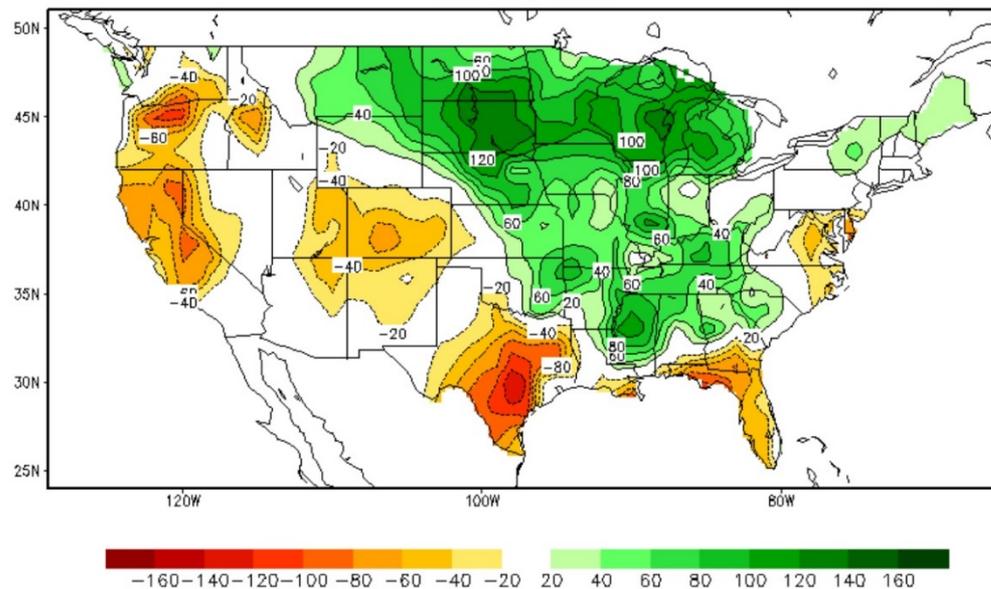
Step-By-Step Process – *Soil Moisture*



- Utilize UGA AEMN mesonet station data
- CPC and VIC products
- UAH Lawn and Garden Index



Calculated Soil Moisture Anomaly (mm)
JAN 28, 2020

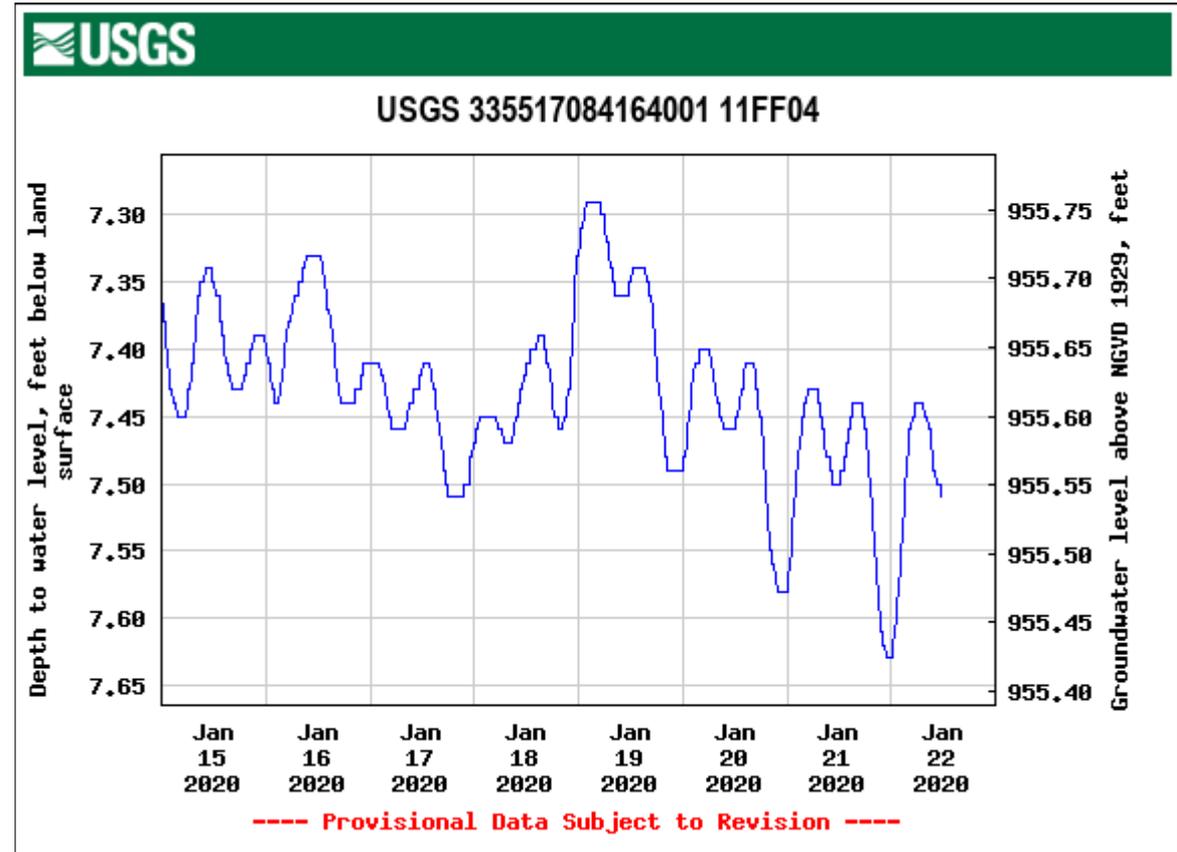




Step-By-Step Process – *Hydrological Conditions*

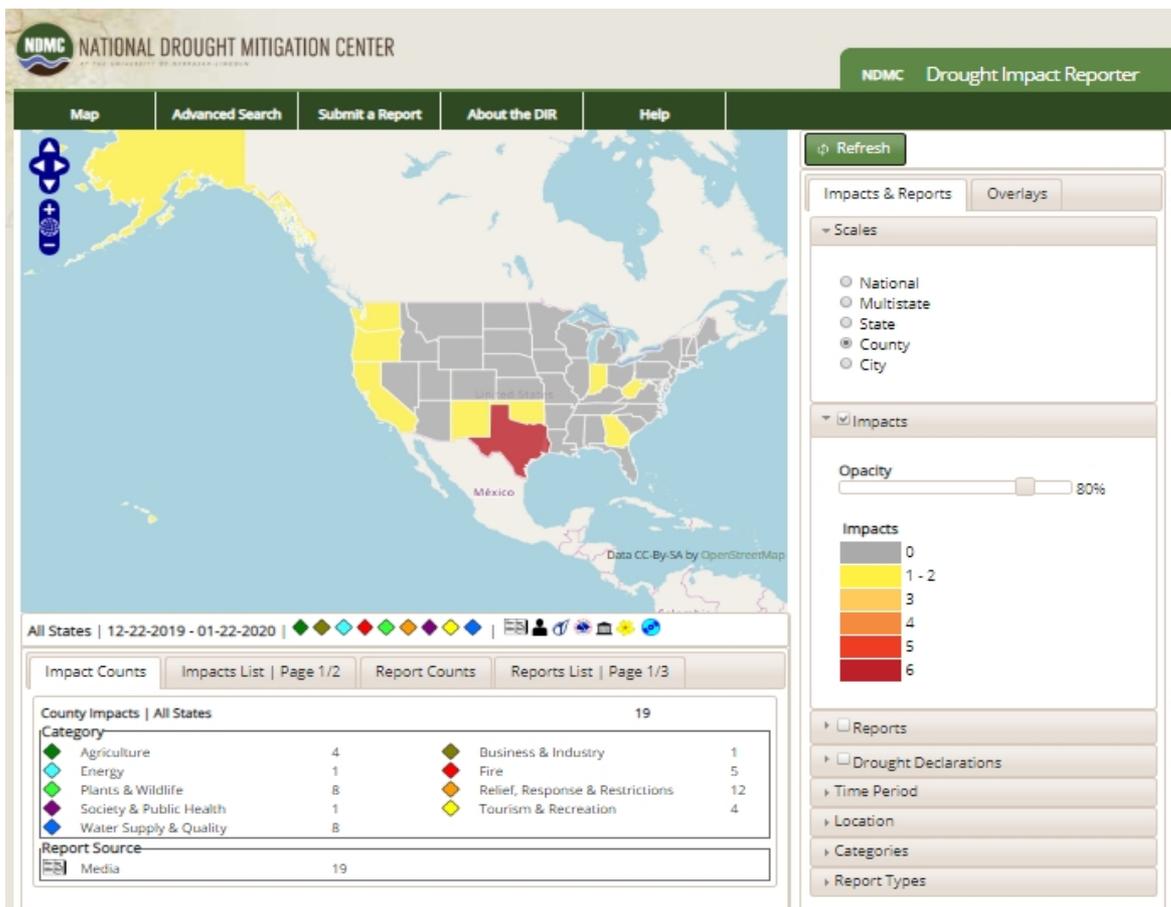


- USGS & EPD stream gauge information –
For streamflow conditions relative to historic flows
- Groundwater and Reservoir levels (ex. Lake Lanier)





Step-By-Step Process – *Agricultural Impacts*



- Drought Impact Reporter
- Information from FSA County Extension agents
- CoCoRaH reports
- Local feedback from producers (i.e. calls, emails, etc.)
- Blog sites (ex. Pam Knox's AG site)



SUMMARY

- The USDM process for Georgia is a collaborative effort among several entities
- Drought conditions are evaluated based on various parameters, including precipitation, soil moisture, hydrological conditions, and agricultural impacts
- The Georgia climate office provides updates to the Georgia Department of Natural Resources, which then makes drought declarations for Georgia