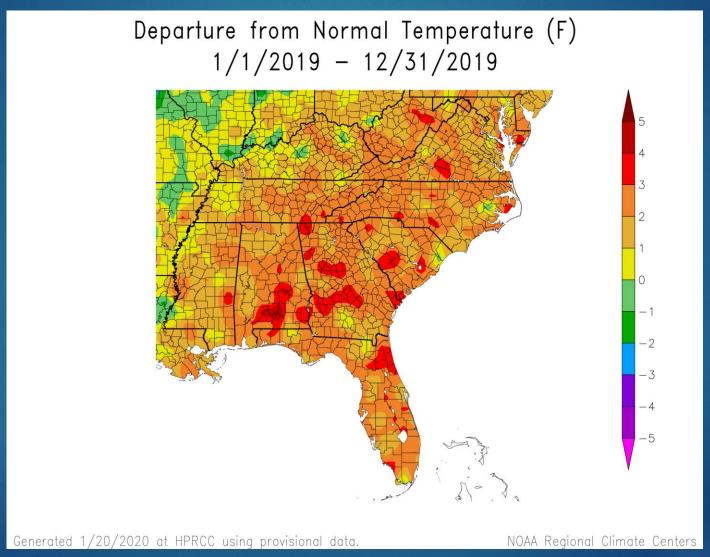
Southeast Spring Climate Outlook

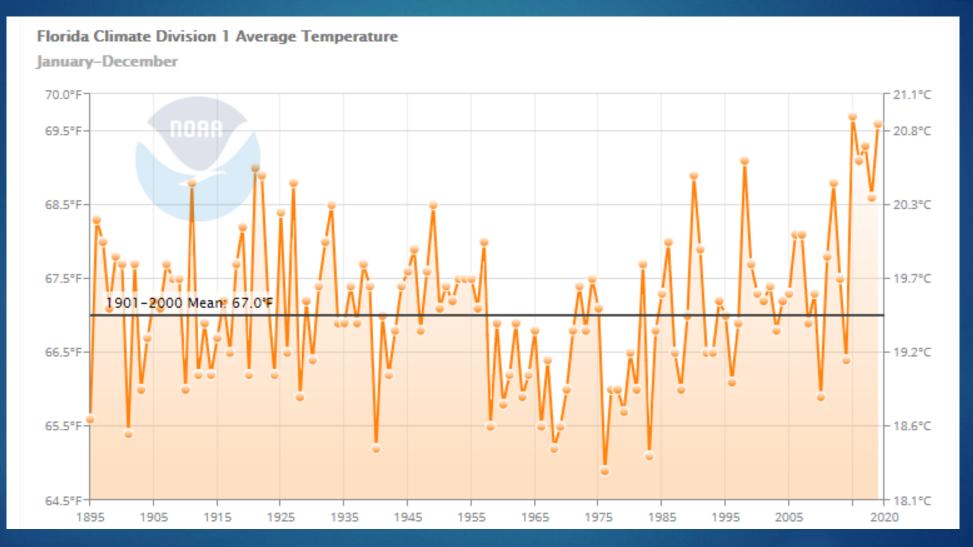
PAM KNOX

DIRECTOR, UGA WEATHER NETWORK AND AGRICULTURAL CLIMATOLOGIST

Climate summary for 2019

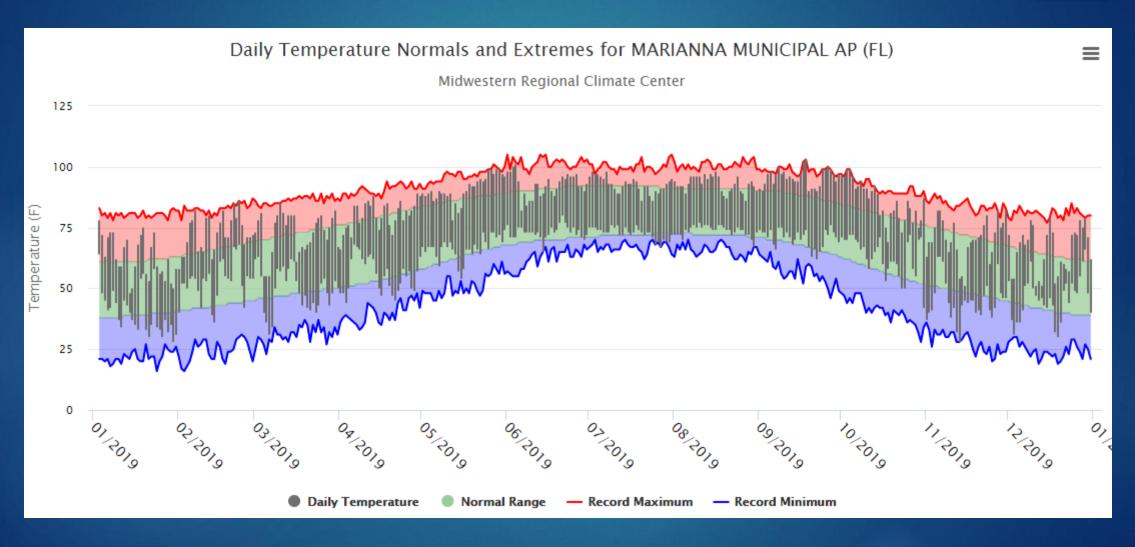


Annual Temperature for NW Florida

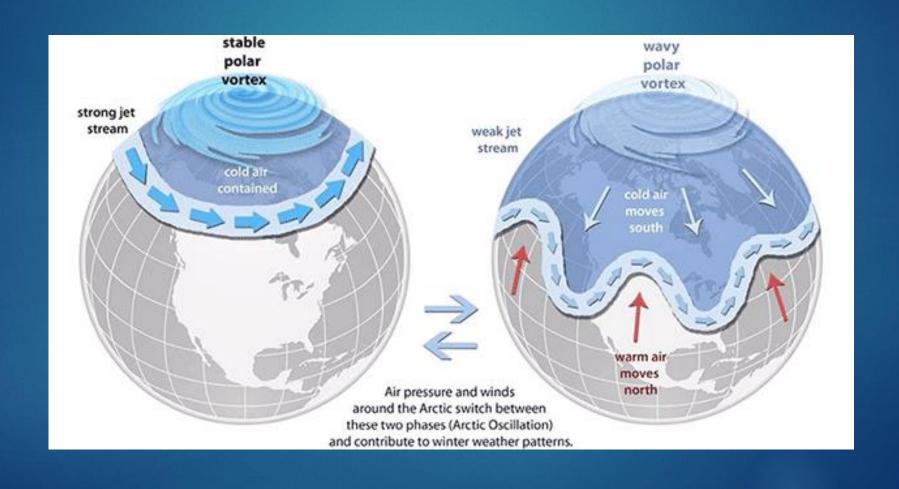


Second warmest year on record for NW FL

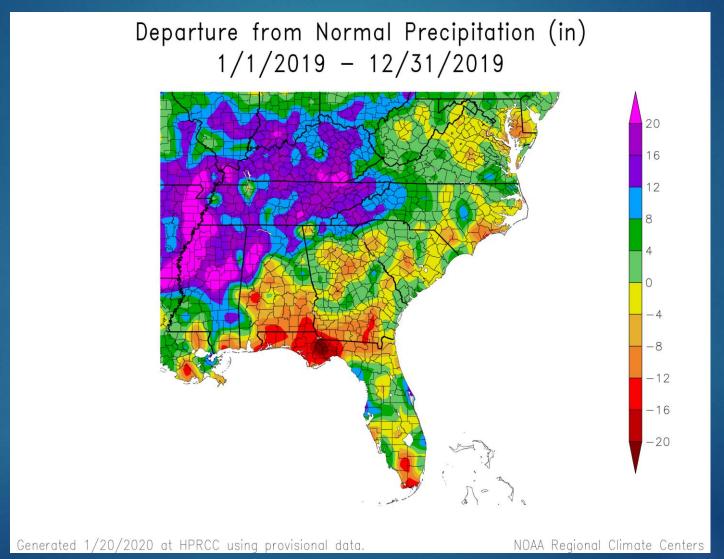
Marianna FL daily temperatures



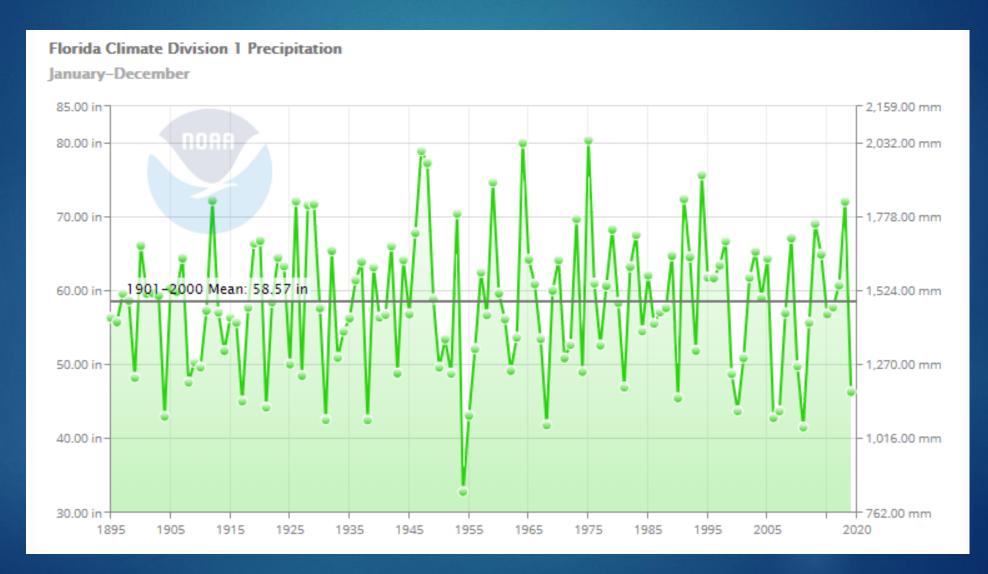
Strong Polar Vortex has kept cold air bottled up near North Pole



Climate summary for 2019

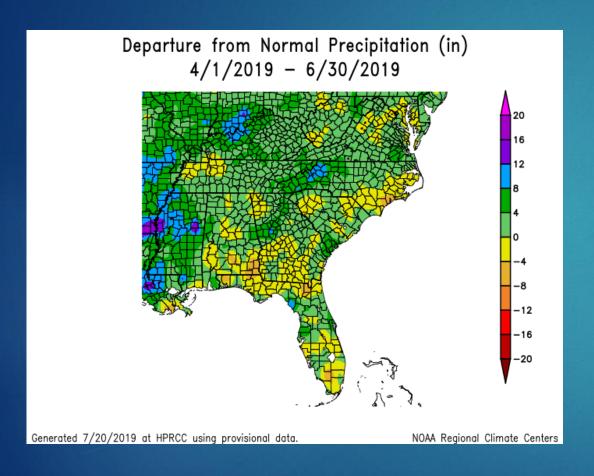


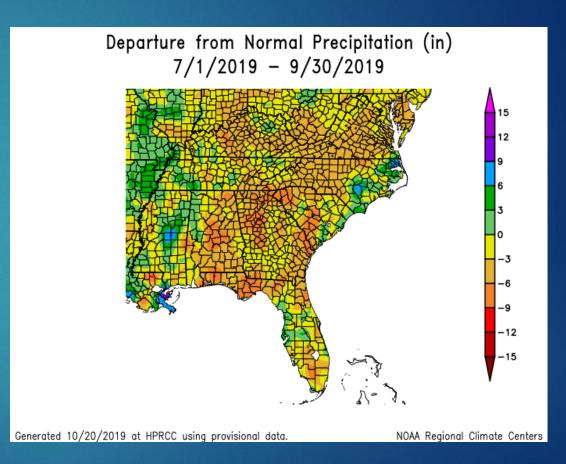
Annual Precipitation for NW Florida



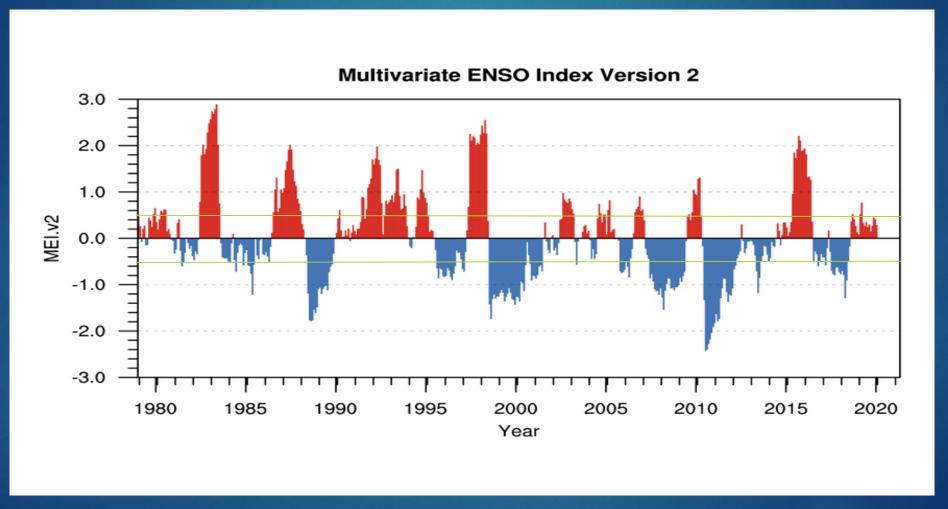
14th driest year on record for NW FL

Climate summary for 2019

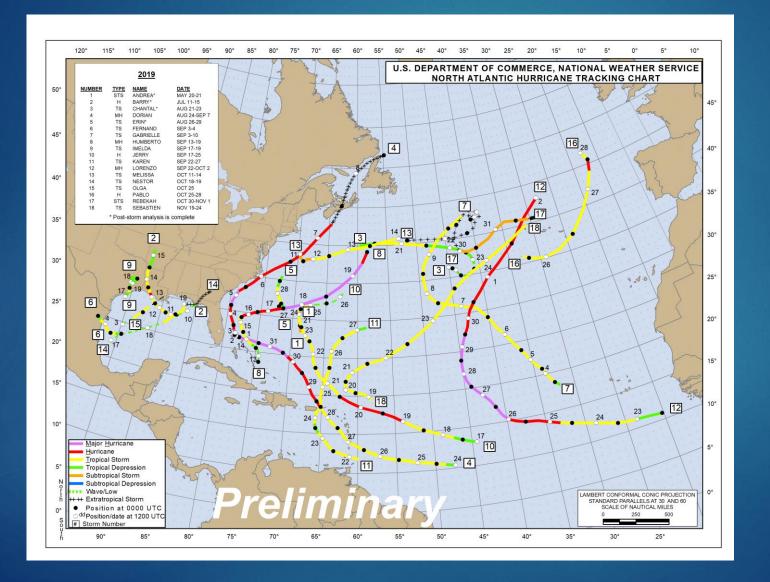




ENSO was neutral in 2019



2019 Atlantic Tropical Season

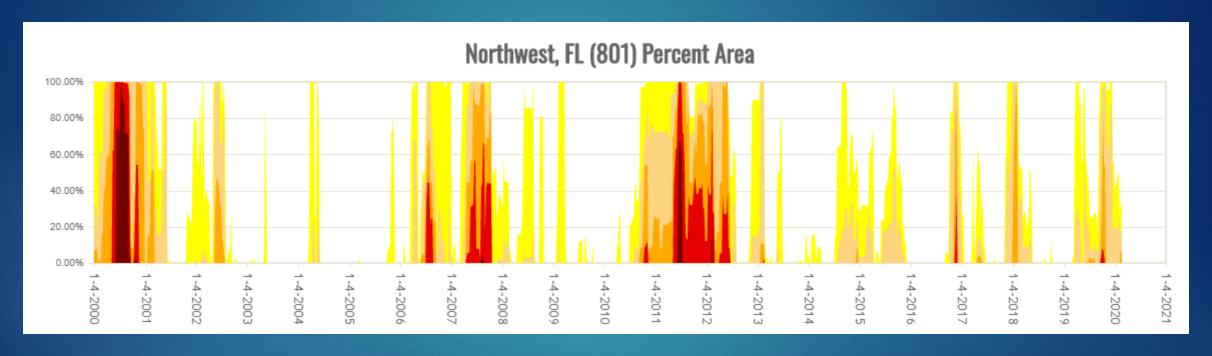


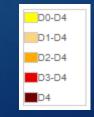
An active season overall but not much impact on the Southeast

Hurricane Dorian brought rain and wind to the East Coast

TS Nestor brought rain to southern Georgia and parts of AL and FL

2019 Drought





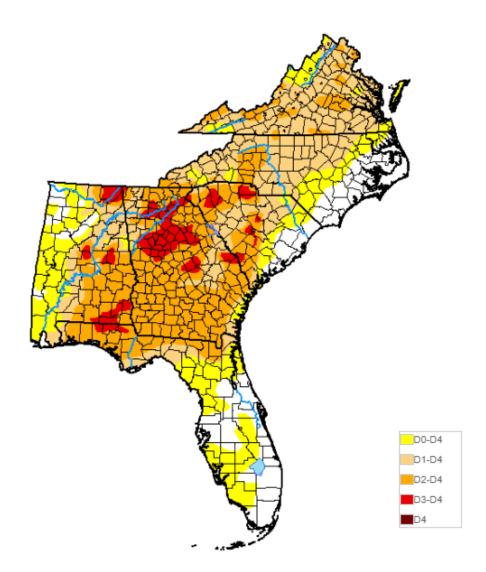
2019 Drought

Dry conditions started in late spring 2019 but disappeared in summer in many locations. SE AL had continuing drought through summer.

Rainfall deficits increased dramatically after Labor Day and temperatures set new records.

Rainfall in mid-October moistened soil and reduced drought over the next month.

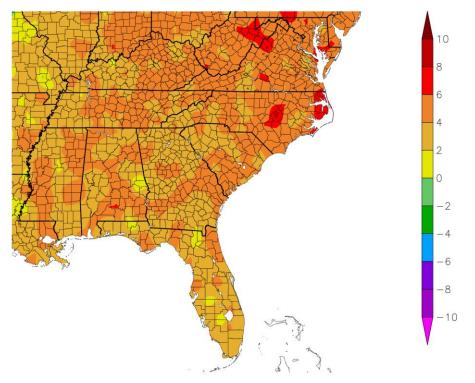
U.S. Drought Monitor Southeast

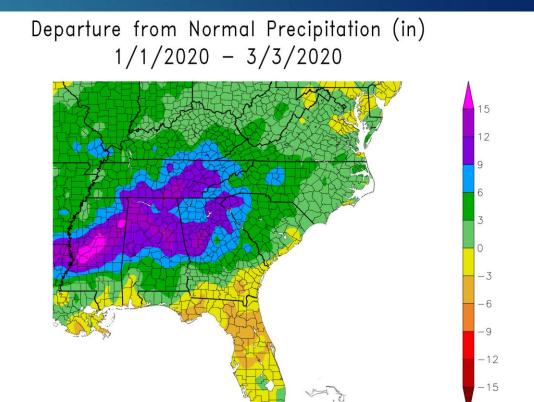


https://droughtmonitor.unl.edu/Maps/MapArchive.aspx

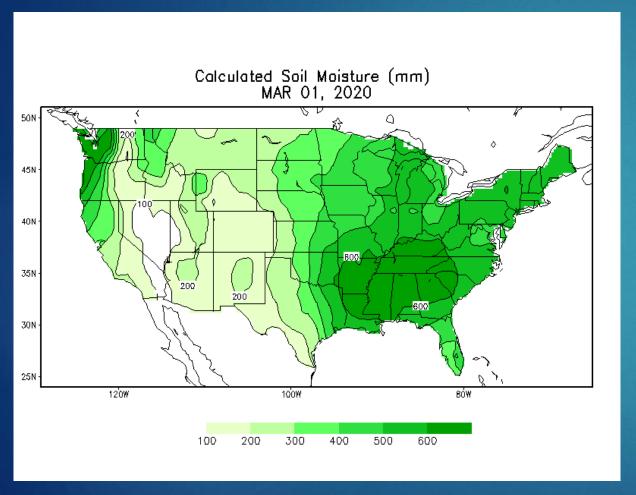
2020 so far

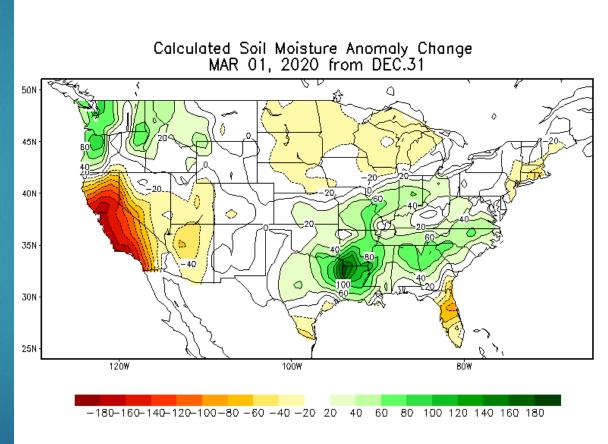
Departure from Normal Temperature (F) 1/1/2020 - 3/3/2020



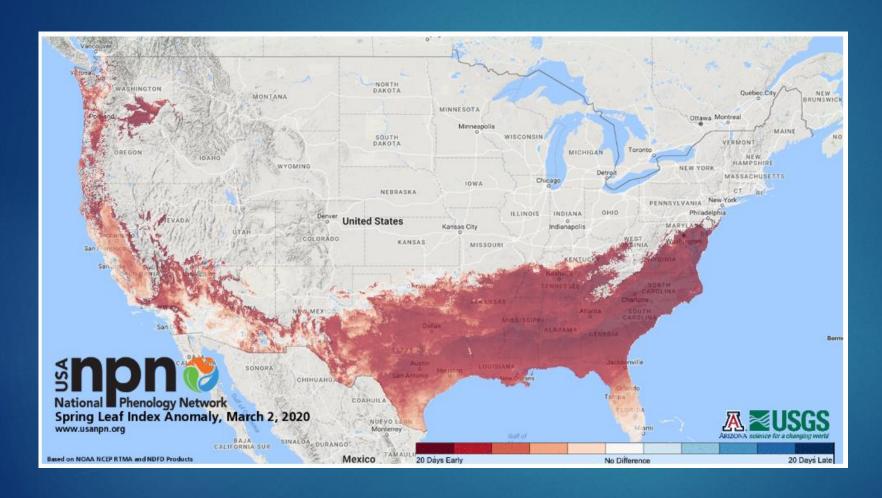


Current Conditions



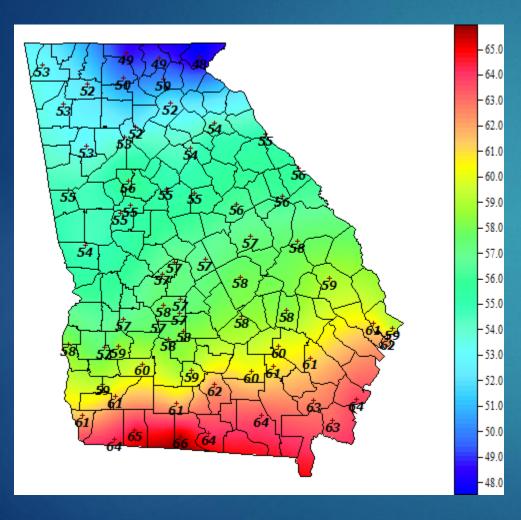


How early is spring this year?



Early spring means plants come out of dormancy early, increased water use from evapotranspiration

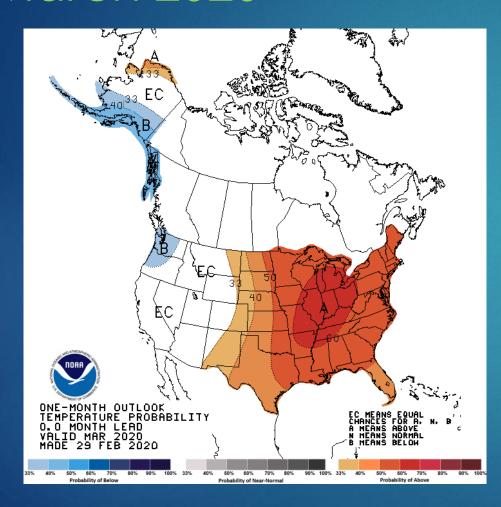
Soil temperatures at 4 inches

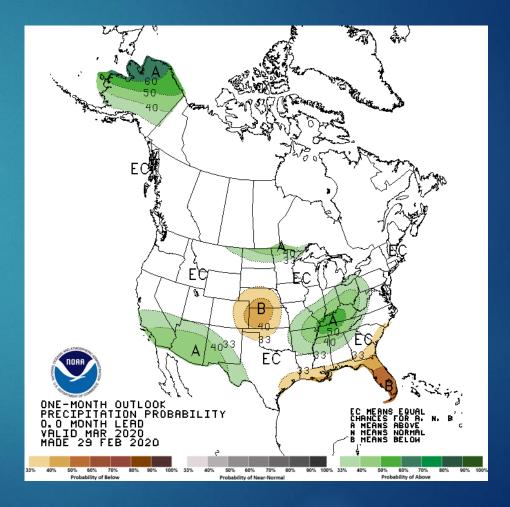


Soil temperatures will rise more slowly in places where the soil is very wet

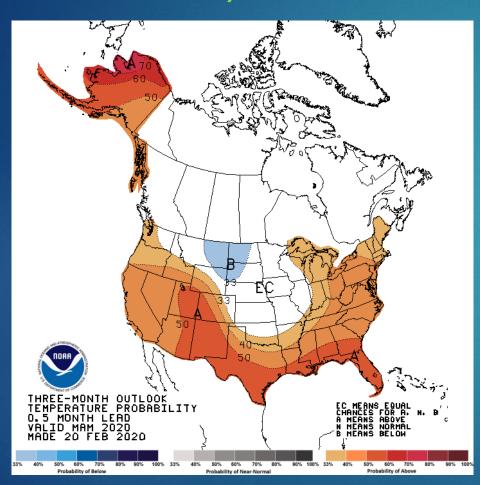
FAWN has soil temperature data for Florida but I could not find a map version, just tables https://fawn.ifas.ufl.edu/

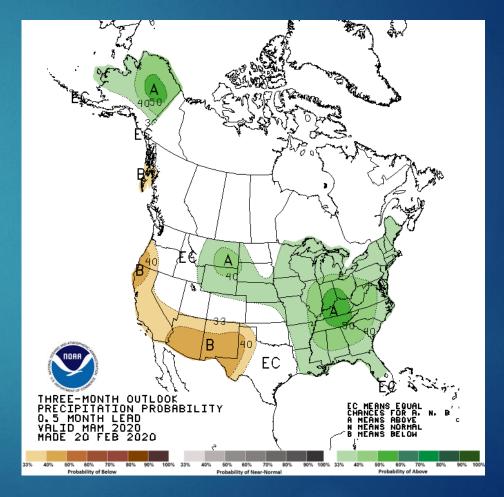
Climate Prediction Center— March 2020



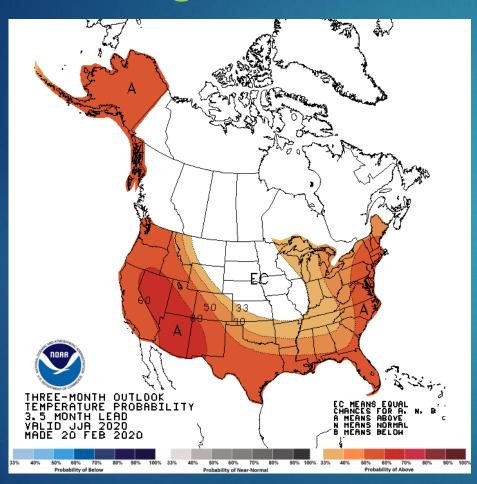


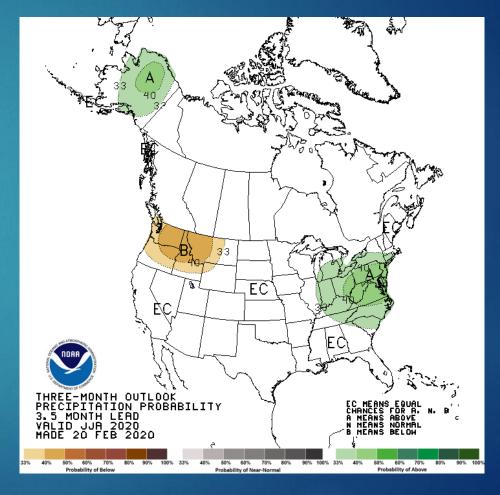
Climate Prediction Center— March-May 2020



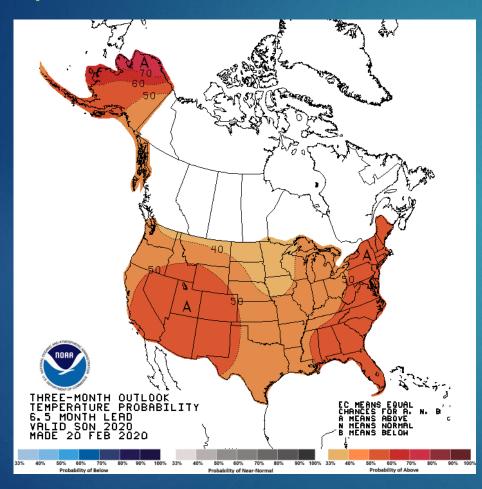


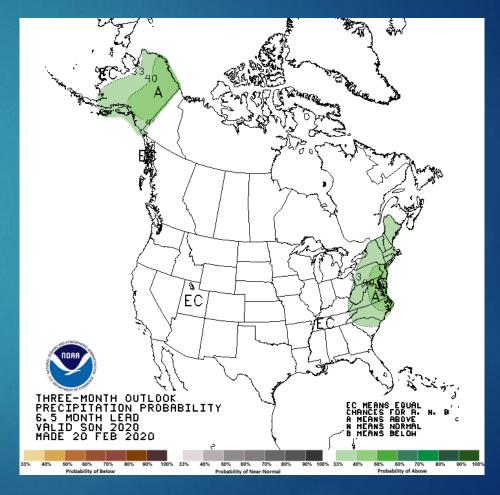
Climate Prediction Center— June-Aug 2020



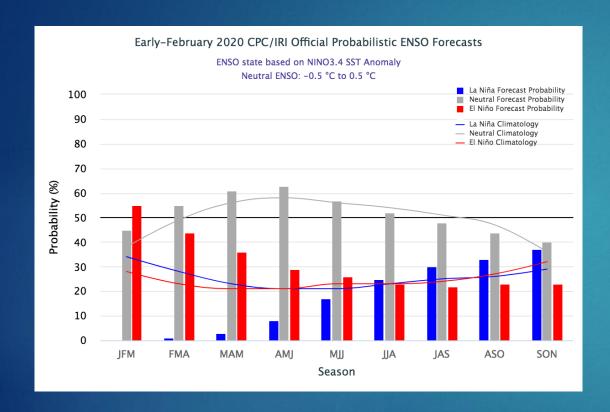


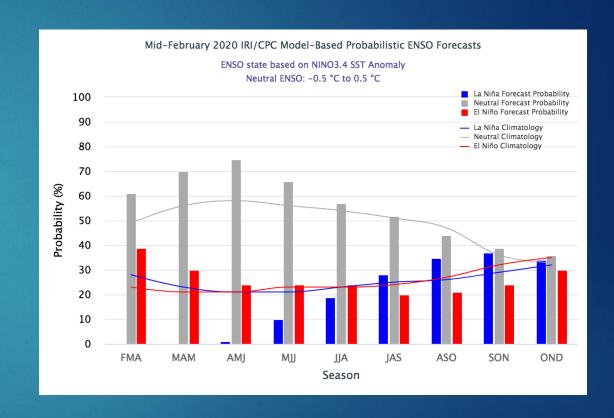
Climate Prediction Center— Sept-Nov 2020



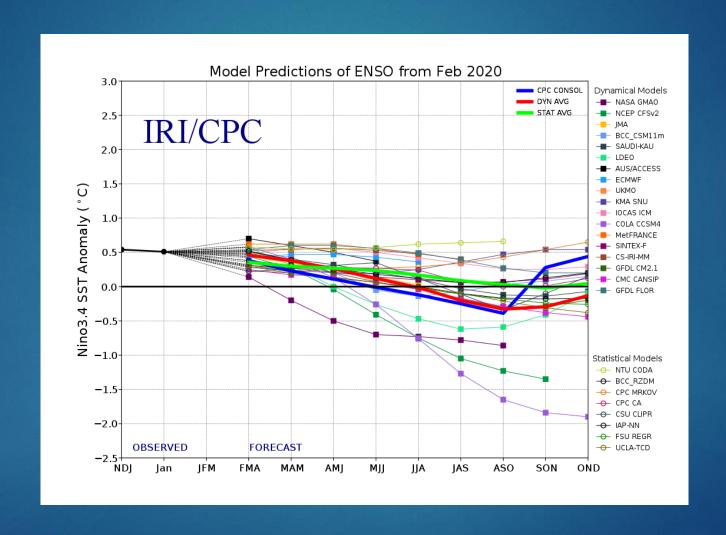


Current ENSO forecasts





Current ENSO forecasts



Summary of Outlook

- Current conditions are generally moist across the region
- Early start to growing season (up to 3 weeks in some areas) has increased water demand
- Warmer than normal temperatures have contributed to water needs
- No big pattern shift is seen in near term
- Warmer than normal conditions expected to continue due to long-term warming trends across the region
- Precipitation pattern shows tendency towards wetter than normal conditions through spring; after that equal chances (no idea)
- Increased chance of La Nina could mean another active Atlantic tropical season
- La Nina next winter could mean increased potential for drought in 2021 due to dry and warm winter conditions (that's a big IF)

Thank you! Contact me at:

Pam Knox <u>pknox@uga.edu</u> 706-310-3467

http://site.extension.uga.edu/climate



On the CASE ...

Climate and Agriculture in the South East



SEAgClimate @SE_AgClimate

UGA Weather Network: http://georgiaweather.net