Weekly Fire Danger Assessment
NCFS - Region TWO

For Time Period:

Saturday (3/18/23) to Friday (3/24/23)

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NC Forest Service

Past Week's Signal 14 Activity

NCFS - Region 2		
Previous 7-Day Fire Activity (Does Not Include Federal Ownerships)		
Data Source:	Signal 14 Regional Activity Summary Report (Signal 14 is a snapshot in time)	
Date Range:	3/10 - 3/16, 2023	
Type	Number	Acres
Wildfires:	44	519.7
Prescribed Fires:	45	2,868

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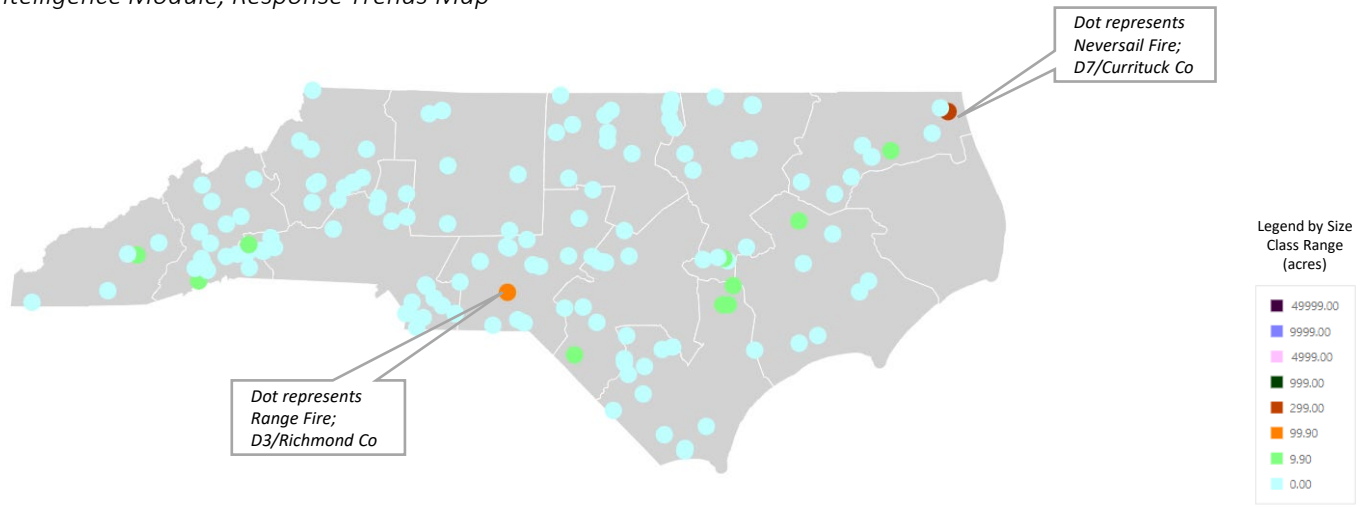
fiResponse Incident Location Map (for general context)
Date Range: 3/10 – 3/16, 2023
Report: Business Intelligence Module, Response Trends Map



Current and Forecasted Fire Danger Conditions by FDRA

R2

Important notes for next slide group:

A. Current ERC, 100-Hr & 1000-Hr Graphics:

- These are extracts from FF+ using weekly observation data downloaded from WIMS.

B. Weekly Outlook - FDRA General Fire Danger Forecast Matrix:

- It will be placed on the FWIP early next week within the "Resources for NCFS" page.
- The operation link is: https://products.climate.ncsu.edu/fwip/outlook.php
- The matrix updates daily - please review the tool notes below for more details.

Tool Summary:

The forecast matrix was created using **standard NFDRS and weather forecast data:**

- Weather conditions and NFDRS outputs are forecasted over the next 7 days by NWS for SIG stations in each FDRA.
- Weather variable ranges and breakpoints were defined by FDRA stakeholders and relate to Pocket Card notes.
- Maximum temperatures in the Critical range are color-coded with shades of red to help visually distinguish daily variations. The brightest red color corresponds to temperatures of 100°F or greater.

Fire danger forecast indices and component values are grouped into three categories based on historical percentiles, assessed using the FF+ All Days filter through 2021:

- Low to Moderate (0 to 74th percentile); shown in blue-green
- High (75th to 89th percentile); shown in yellow
- Very High to Extreme (90th+ percentile); shown in red and labeled as Critical

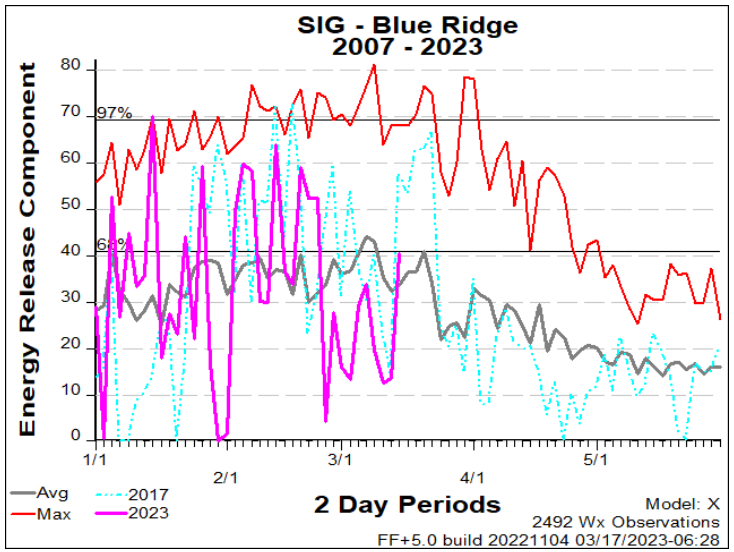
Dead fuel moisture forecast values are grouped into three categories based on historical percentiles, assessed using the FF+ All Days filter through 2021:

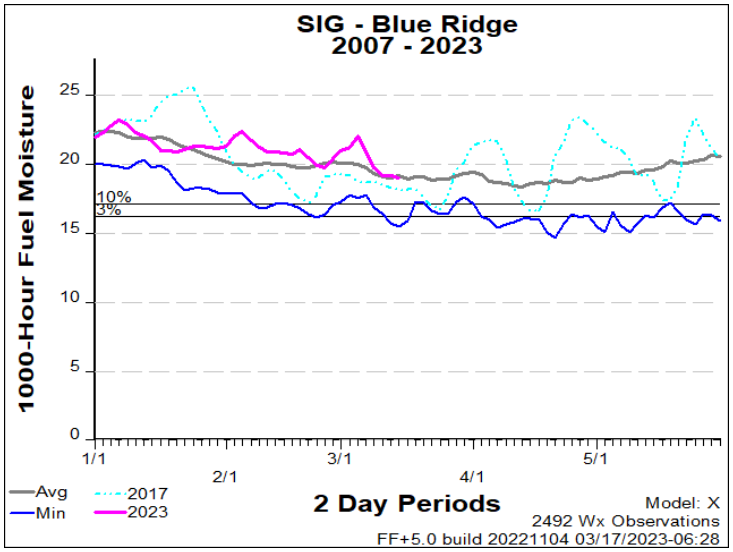
- Low to Moderate (26th to 100th percentile); shown in blue-green
- High (11th to 25th percentile); shown in yellow
- Very High to Extreme (0 to 10th percentile); shown in red and labeled as Critical

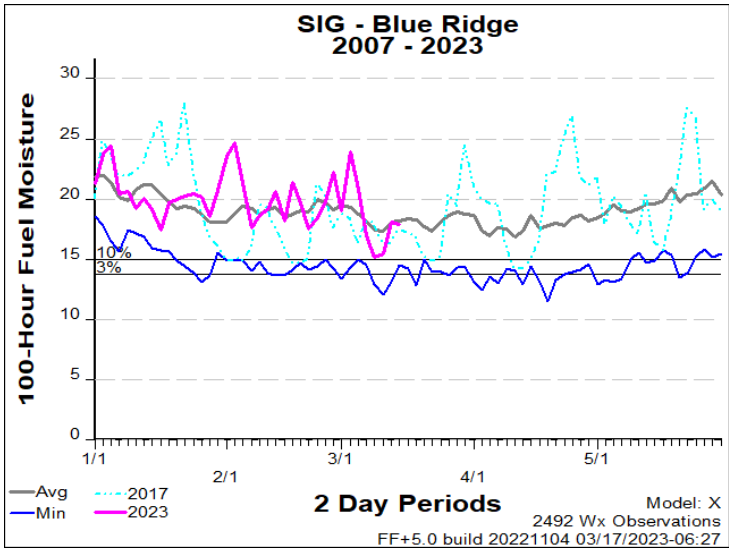
Other Notes:

- Read the key and notes for each FDRA, included on the outlook matrix page.
- Forecasts are variable and can change significantly over a forecast cycle and across the landscape.
- This is another tool for gaining better situational awareness, and should be used for general planning purposes only.
- The outlook matrix is refreshed when an FDRA is selected, using the most recent forecast data available at that time. The 7th day may drop off or display partial data prior to the afternoon/evening forecast update.
- Daily updates to NFDRS forecasts occur around **1530** daily, while general weather forecasts are updated around **1730** daily.

Region Specific – Blue Ridge Escarpment







Weekly Outlook

Blue Ridge Escarpment FDRA - General Fire Danger Forecast

For planning purposes only; forecast is subject to change

Four or more RED blocks in a day signals the potential for a **Critical Fire Day**

DAY	SAT 18-Mar	SUN 19-Mar	MON 20-Mar	TUE 21-Mar	WED 22-Mar	THU 23-Mar	FRI 24-Mar
Avg. Max. Temp. (°F)	48	41	49	55	59	69	72
Avg. Min. Humidity (%)	26	26	24	26	37	47	47
Avg. 20' Wind Speed (mph)	14	11	4	4	4	6	10
Avg. Wind Direction*	NW	NW	SSE	SW	S	SW	SSW
Avg. Probability of Precip. (%)	2	2	2	2	7	22	43
Days Since a Wetting Rain**	5.7	6.7	7.7				
Forecast ERC (Fuel Model X)	32.6	49.4	52.7	55.7	54.3	46.3	38.7
Forecast BI (Fuel Model X)	110.2	117.4	95.8	106.9	108.8	120.7	135.1
Forecast IC (Fuel Model X)	8.2	10.6	8.0	9.2	9.1	9.5	9.1
Forecast 100-Hr. FMC	18.1	18.7	17.8	16.7	15.6	15.1	16.0
Forecast 1000-Hr. FMC	19.1	19.0	19.0	18.8	18.4	17.9	17.9
KBDI	44.7						

Data Source:

- Weather forecasts come from the National Weather Service's Digital Forecast Database. The wind speed and direction, and probability of precipitation, are calculated as averages of the 1 am, 7 am, 1 pm, and 7 pm forecasts. The 20-foot wind speed is estimated from the 10-meter forecast using the log wind profile method.
- Days since a wetting rain is calculated using a combination of historical data (to determine the most recent wetting rain event) and forecasted precipitation amounts. These forecasted amounts are only available for the first three days of the forecast period.
- Fire danger forecasts for the next 7 days are issued by National Weather Service through WIMS. KBDI is only available on the first forecast day since the NFDRS Forecast product does not include precipitation amounts, which are used to adjust KBDI from day to day

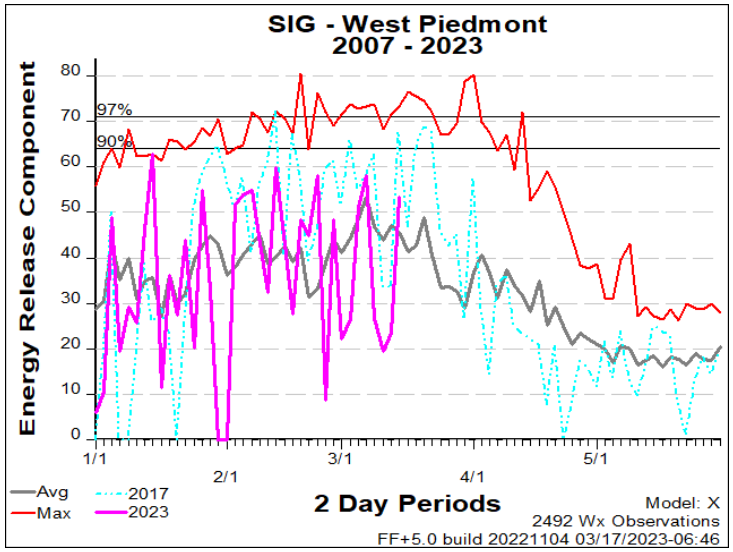
Values in the table above are averages from 3 stations in this FDRA:

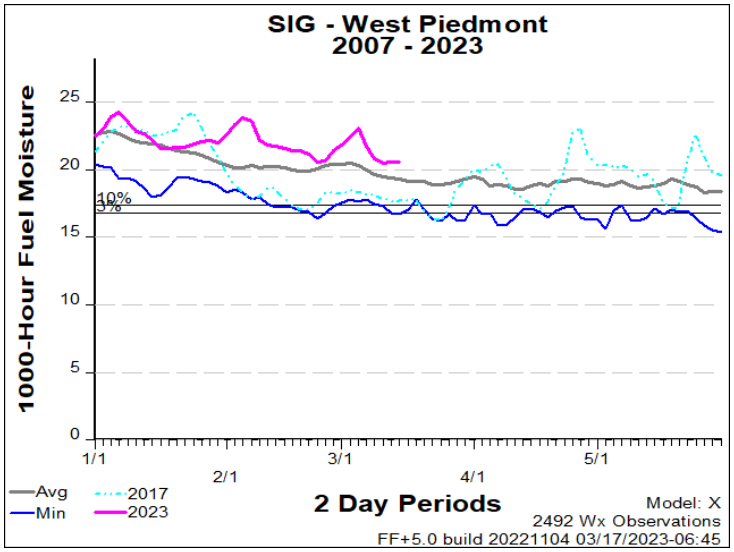
- **Rendezvous Mtn.** (312001)
- **North Cove Pinnacle (fr1)** (314301)
- **Rutherford County** (316302)

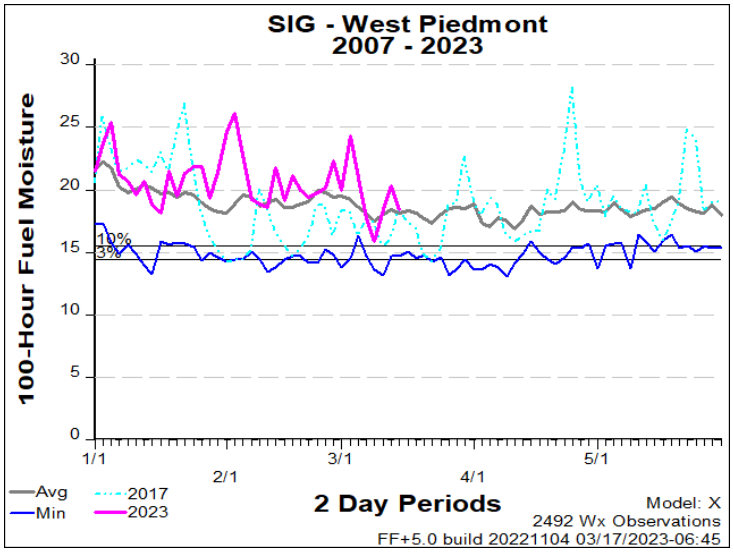
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 40°F	Between 40°F and 50°F	Greater than 50°F
Avg. Min. Humidity	Greater than 35%	Between 30% and 35%	Less than 30%
Avg. 20' Wind Speed	Less than 2 mph	Between 2 mph and 4 mph	Greater than 4 mph
Avg. Wind Direction*	Criticality of wind direction is highly dependent on burn operations and/or structures threatened.		
Days Since a Wetting Rain**	A wetting rain is defined as 0.10" or greater. This is an average of the FDRA stations noted above.		
Energy Release Comp.	Less than 52	Between 52 and 62	Greater than 62
Burning Index	Less than 116	Between 116 and 136	Greater than 136
Ignition Component	Less than 14	Between 14 and 20	Greater than 20
100-Hour Fuel Moisture	Greater than 18%	Between 16% and 18%	Less than 16%
1000-Hour Fuel Moisture	Greater than 19%	Between 18% and 19%	Less than 18%
KBDI	Less than 351	Between 351 and 508	Greater than 508

Other factors to consider when determining fire danger: **sky conditions**, **precipitation amount**, **number of days since rain**, and **season**

Region Specific – Western Piedmont







Weekly Outlook

Western Piedmont FDRA - General Fire Danger Forecast

For planning purposes only; forecast is subject to change

Four or more RED blocks in a day signals the potential for a **Critical Fire Day**

DAY	SAT 18-Mar	SUN 19-Mar	MON 20-Mar	TUE 21-Mar	WED 22-Mar	THU 23-Mar	FRI 24-Mar
Avg. Max. Temp. (°F)	57	48	52	59	63	73	77
Avg. Min. Humidity (%)	26	27	28	27	37	44	47
Avg. 20' Wind Speed (mph)	9	8	6	5	4	6	13
Avg. Wind Direction*	NW	NNW	ENE	ENE	ESE	SSW	SSW
Avg. Probability of Precip. (%)	2	2	2	2	6	13	30
Days Since a Wetting Rain**	6.0	7.0	8.0				
Forecast ERC (Fuel Model X)	32.3	54.3	57.2	55.0	51.8	45.7	40.6
Forecast BI (Fuel Model X)	89.1	114.5	99.7	120.8	91.7	119.3	153.8
Forecast IC (Fuel Model X)	6.5	10.2	7.7	8.5	6.1	8.7	10.3
Forecast 100-Hr. FMC	19.0	19.7	19.8	18.8	17.8	17.5	17.1
Forecast 1000-Hr. FMC	23.3	23.2	23.1	23.0	22.9	22.8	22.5
KBDI	53.3						

Data Source:

- Weather forecasts come from the National Weather Service's Digital Forecast Database. The wind speed and direction, and probability of precipitation, are calculated as averages of the 1 am, 7 am, 1 pm, and 7 pm forecasts. The 20-foot wind speed is estimated from the 10-meter forecast using the log wind profile method.
- Days since a wetting rain is calculated using a combination of historical data (to determine the most recent wetting rain event) and forecasted precipitation amounts. These forecasted amounts are only available for the first three days of the forecast period.
- Fire danger forecasts for the next 7 days are issued by National Weather Service through WIMS. KBDI is only available on the first forecast day since the NFDRS Forecast product does not include precipitation amounts, which are used to adjust KBDI from day to day

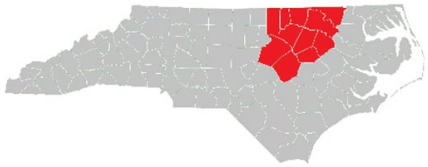
Values in the table above are averages from 3 stations in this FDRA:

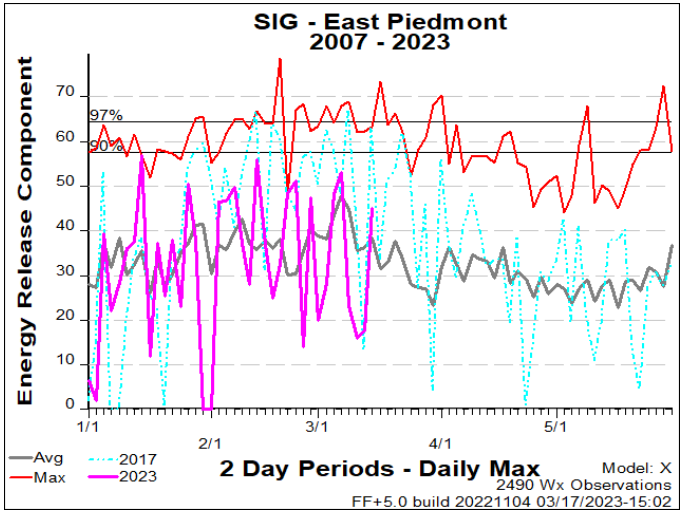
- **Duke Forest** (312501)
- **Lexington** (314602)
- **Mt. Island Lake** (316602)

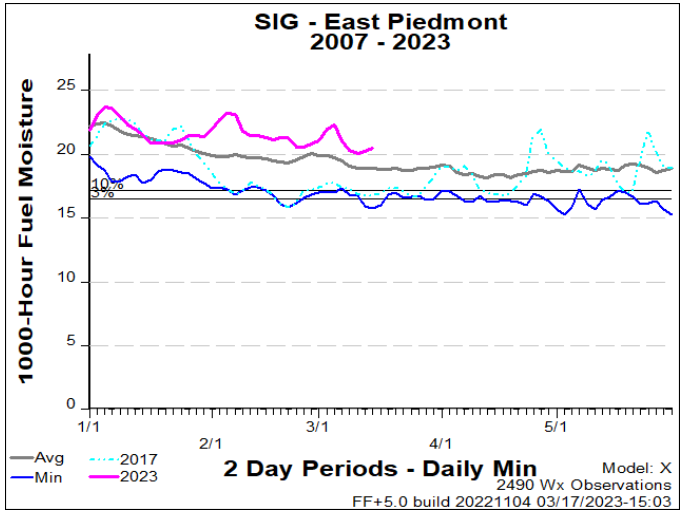
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 40°F	Between 40°F and 50°F	Greater than 50°F
Avg. Min. Humidity	Greater than 35%	Between 30% and 35%	Less than 30%
Avg. 20' Wind Speed	Less than 2 mph	Between 2 mph and 4 mph	Greater than 4 mph
Avg. Wind Direction*	Criticality of wind direction is highly dependent on burn operations and/or structures threatened.		
Days Since a Wetting Rain**	A wetting rain is defined as 0.10" or greater. This is an average of the FDRA stations noted above.		
Energy Release Comp.	Less than 40	Between 40 and 52	Greater than 52
Burning Index	Less than 95	Between 95 and 120	Greater than 120
Ignition Component	Less than 9	Between 9 and 14	Greater than 14
100-Hour Fuel Moisture	Greater than 18%	Between 17% and 18%	Less than 17%
1000-Hour Fuel Moisture	Greater than 19%	Between 18% and 19%	Less than 18%
KBDI	Less than 344	Between 344 and 479	Greater than 479

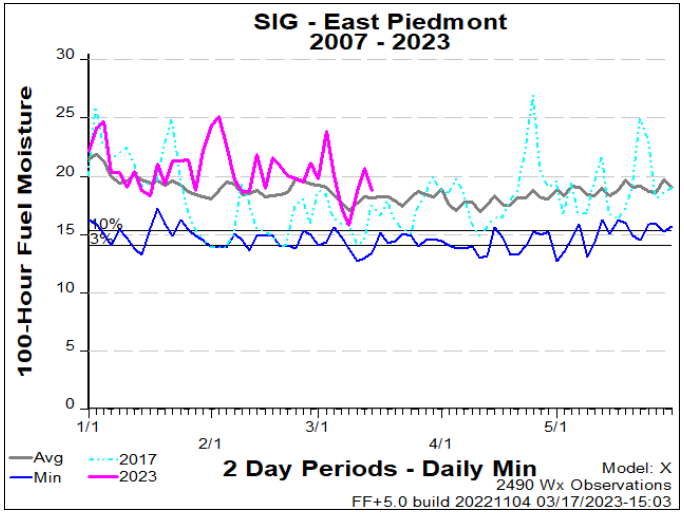
Other factors to consider when determining fire danger: **sky conditions**, **precipitation amount**, **number of days since rain**, and **season**

Region Specific – Eastern Piedmont









Weekly Outlook

Eastern Piedmont FDRA - General Fire Danger Forecast

For planning purposes only; forecast is subject to change

Four or more **RED** blocks in a day signals the potential for a **Critical Fire Day**

DAY	SAT 18-Mar	SUN 19-Mar	MON 20-Mar	TUE 21-Mar	WED 22-Mar	THU 23-Mar	FRI 24-Mar
Avg. Max. Temp. (°F)	57	49	52	59	63	72	77
Avg. Min. Humidity (%)	32	29	30	30	44	46	51
Avg. 20' Wind Speed (mph)	9	9	6	6	5	7	13
Avg. Wind Direction*	WNW	NW	ESE	ENE	ESE	SSW	SSW
Avg. Probability of Precip. (%)	14	4	4	4	7	10	24
Days Since a Wetting Rain**	0.3	1.3	2.3				
Forecast ERC (Fuel Model X)	24.7	41.8	45.4	43.5	38.3	35.2	34.2
Forecast BI (Fuel Model X)	66.8	91.7	81.6	100.5	70.3	89.3	121.3
Forecast IC (Fuel Model X)	6.1	9.3	7.4	7.8	5.0	7.0	11.5
Forecast 100-Hr. FMC	18.8	19.5	19.3	18.4	17.6	17.3	17.1
Forecast 1000-Hr. FMC	22.7	22.6	22.5	22.4	22.3	22.0	21.8
KBDI	33.8						

Data Source:

- Weather forecasts come from the National Weather Service's Digital Forecast Database. The wind speed and direction, and probability of precipitation, are calculated as averages of the 1 am, 7 am, 1 pm, and 7 pm forecasts. The 20-foot wind speed is estimated from the 10-meter forecast using the log wind profile method.
- Days since a wetting rain is calculated using a combination of historical data (to determine the most recent wetting rain event) and forecasted precipitation amounts. These forecasted amounts are only available for the first three days of the forecast period.
- Fire danger forecasts for the next 7 days are issued by National Weather Service through WIMS. KBDI is only available on the first forecast day since the NFDRS Forecast product does not include precipitation amounts, which are used to adjust KBDI from day to day

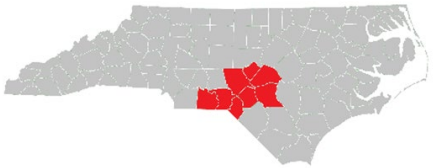
Values in the table above are averages from 4 stations in this FDRA:

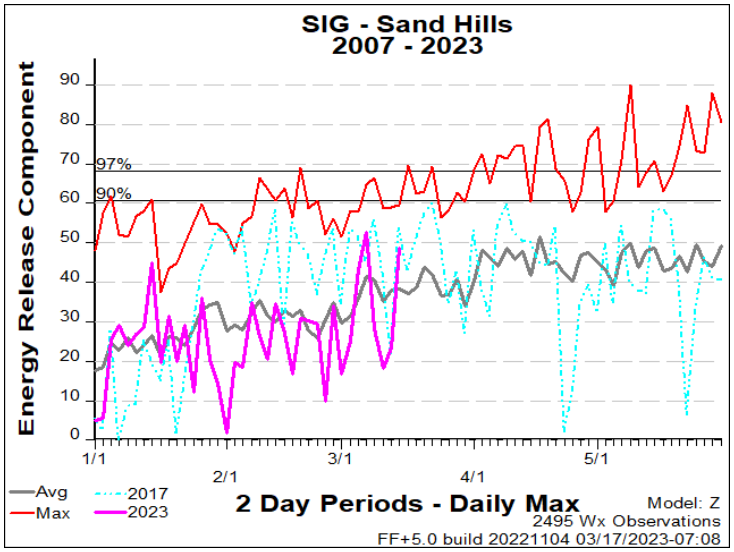
- **Oxford Tobacco Research Stn** (310841)
- **Upper Coastal Plain Res Stn** (312940)
- **Lake Wheeler Rd Field Lab** (314941)
- **Central Crops Research Station** (317441)

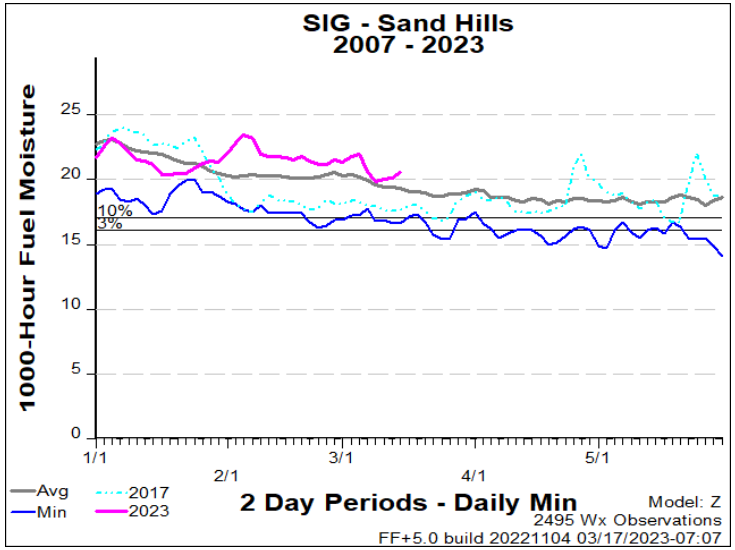
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 50°F	Between 50°F and 60°F	Greater than 60°F
Avg. Min. Humidity	Greater than 40%	Between 35% and 40%	Less than 35%
Avg. 20' Wind Speed	Less than 10 mph	Between 10 mph and 15 mph	Greater than 15 mph
Avg. Wind Direction*	Criticality of wind direction is highly dependent on burn operations and/or structures threatened.		
Days Since a Wetting Rain**	A wetting rain is defined as 0.10" or greater. This is an average of the FDRA stations noted above.		
Energy Release Comp.	Less than 54.2	Between 54.2 and 61.7	Greater than 61.7
Burning Index	Less than 109.3	Between 109.3 and 130.5	Greater than 130.5
Ignition Component	Less than 12.7	Between 12.7 and 16.8	Greater than 16.8
100-Hour Fuel Moisture	Greater than 17.6%	Between 16.4% and 17.6%	Less than 16.4%
1000-Hour Fuel Moisture	Greater than 18.3%	Between 17.5% and 18.3%	Less than 17.5%
KBDI	Less than 337	Between 337 and 460	Greater than 460

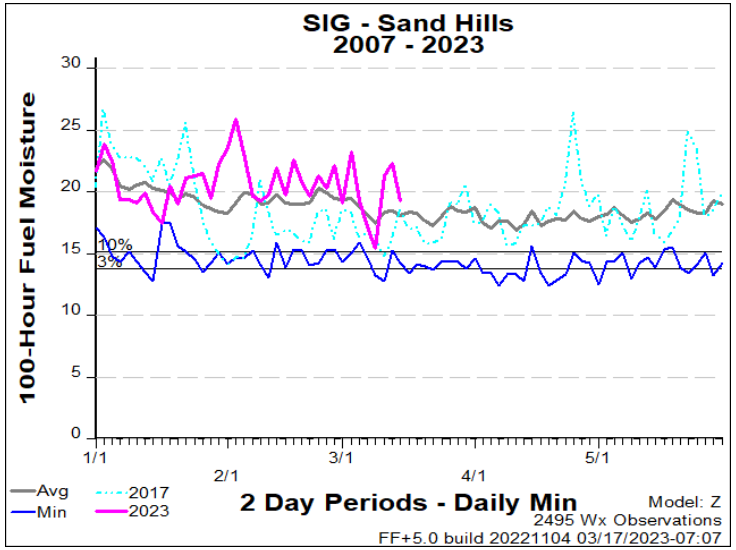
Other factors to consider when determining fire danger: **sky conditions**, **precipitation amount**, **number of days since rain**, and **season**

Region Specific – Sandhills









Weekly Outlook

Sandhills FDRA - General Fire Danger Forecast

For planning purposes only; forecast is subject to change

Four or more RED blocks in a day signals the potential for a **Critical Fire Day**

DAY	SAT 18-Mar	SUN 19-Mar	MON 20-Mar	TUE 21-Mar	WED 22-Mar	THU 23-Mar	FRI 24-Mar
Avg. Max. Temp. (°F)	57	50	53	60	65	75	79
Avg. Min. Humidity (%)	31	28	28	27	39	40	47
Avg. 20' Wind Speed (mph)	8	8	7	7	5	5	13
Avg. Wind Direction*	NW	NNW	NNE	NE	E	SSW	SSW
Avg. Probability of Precip. (%)	13	4	4	3	4	8	20
Days Since a Wetting Rain**	2.3	3.3	4.3				
Forecast ERC (Fuel Model Z)	24.0	37.4	41.5	41.3	36.7	30.6	30.4
Forecast BI (Fuel Model Z)	30.4	37.8	37.0	44.2	30.3	32.3	48.1
Forecast IC (Fuel Model Z)	6.1	9.0	8.6	8.2	5.1	6.0	10.6
Forecast 100-Hr. FMC	19.6	20.4	20.0	19.0	18.0	17.8	17.6
Forecast 1000-Hr. FMC	22.8	22.6	22.6	22.5	22.4	22.2	22.0
KBDI	116.3						

Data Source:

- Weather forecasts come from the National Weather Service's Digital Forecast Database. The wind speed and direction, and probability of precipitation, are calculated as averages of the 1 am, 7 am, 1 pm, and 7 pm forecasts. The 20-foot wind speed is estimated from the 10-meter forecast using the log wind profile method.
- Days since a wetting rain is calculated using a combination of historical data (to determine the most recent wetting rain event) and forecasted precipitation amounts. These forecasted amounts are only available for the first three days of the forecast period.
- Fire danger forecasts for the next 7 days are issued by National Weather Service through WIMS. KBDI is only available on the first forecast day since the NFDRS Forecast product does not include precipitation amounts, which are used to adjust KBDI from day to day

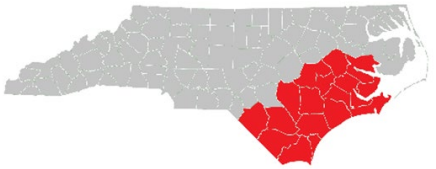
Values in the table above are averages from 3 stations in this FDRA:

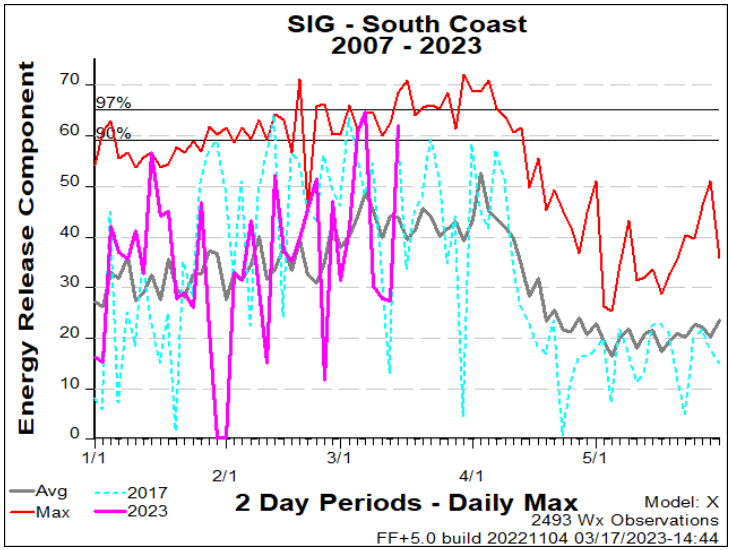
- **Sandhills Research Station** (317040)
- **Rockingham** (318202)
- **Fort Bragg** (318503)

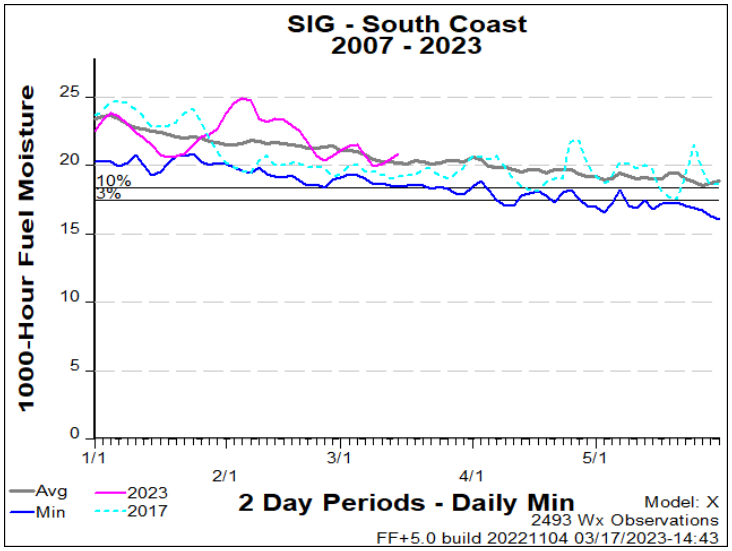
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 50°F	Between 50°F and 60°F	Greater than 60°F
Avg. Min. Humidity	Greater than 40%	Between 30% and 40%	Less than 30%
Avg. 20' Wind Speed	Less than 4 mph	Between 4 mph and 8 mph	Greater than 8 mph
Avg. Wind Direction*	Criticality of wind direction is highly dependent on burn operations and/or structures threatened.		
Days Since a Wetting Rain**	A wetting rain is defined as 0.10" or greater. This is an average of the FDRA stations noted above.		
Energy Release Comp.	Less than 52.4	Between 52.4 and 62	Greater than 62
Burning Index	Less than 45.6	Between 45.6 and 53.3	Greater than 53.3
Ignition Component	Less than 13.6	Between 13.6 and 18.8	Greater than 18.8
100-Hour Fuel Moisture	Greater than 17.4%	Between 16% and 17.4%	Less than 16%
1000-Hour Fuel Moisture	Greater than 18.2%	Between 17.2% and 18.2%	Less than 17.2%
KBDI	Less than 397	Between 397 and 500	Greater than 500

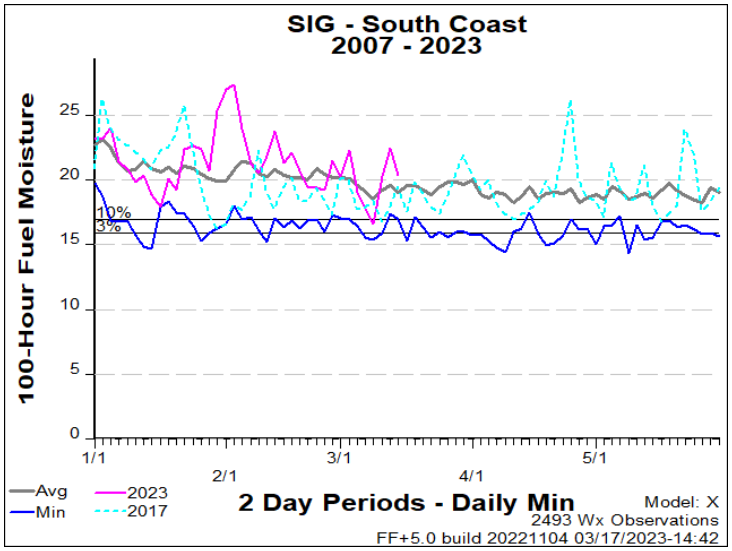
Other factors to consider when determining fire danger: **sky conditions**, **precipitation amount**, **number of days since rain**, and **season**

Region Specific – South Coast









Southern Coastal FDRA - General Fire Danger Forecast

For planning purposes only; forecast is subject to change

Four or more RED blocks in a day signals the potential for a **Critical Fire Day**

DAY	SAT 18-Mar	SUN 19-Mar	MON 20-Mar	TUE 21-Mar	WED 22-Mar	THU 23-Mar	FRI 24-Mar
Avg. Max. Temp. (°F)	61	53	54	62	67	74	79
Avg. Min. Humidity (%)	49	30	35	36	47	45	52
Avg. 20' Wind Speed (mph)	8	7	6	8	6	6	11
Avg. Wind Direction*	WNW	NNW	NE	NE	ENE	SSW	SSW
Avg. Probability of Precip. (%)	43	6	8	7	6	6	18
Days Since a Wetting Rain**	0.0	1.0	2.0				
Forecast ERC (Fuel Model X)	28.5	46.3	42.3	36.9	33.4	29.2	29.2
Forecast BI (Fuel Model X)	72.5	88.8	88.5	100.1	74.4	73.5	103.6
Forecast IC (Fuel Model X)	5.4	8.5	6.9	7.1	5.5	5.6	8.8
Forecast 100-Hr. FMC	20.0	20.7	19.8	18.9	18.4	18.1	18.1
Forecast 1000-Hr. FMC	22.8	22.7	22.6	22.5	22.4	22.2	22.0
KBDI	228.0						

Data Source:

- Weather forecasts come from the National Weather Service's Digital Forecast Database. The wind speed and direction, and probability of precipitation, are calculated as averages of the 1 am, 7 am, 1 pm, and 7 pm forecasts. The 20-foot wind speed is estimated from the 10-meter forecast using the log wind profile method.
- Days since a wetting rain is calculated using a combination of historical data (to determine the most recent wetting rain event) and forecasted precipitation amounts. These forecasted amounts are only available for the first three days of the forecast period.
- Fire danger forecasts for the next 7 days are issued by National Weather Service through WIMS. KBDI is only available on the first forecast day since the NFDRS Forecast product does not include precipitation amounts, which are used to adjust KBDI from day to day

Values in the table above are averages from 7 stations in this FDRA:

- **Finch's Station** (317501)
- **Beaufort** (317801)
- **New Bern** (319004)
- **Turnbull Creek** (319302)
- **Hofmann Forest** (319507)
- **Whiteville** (319701)
- **Sunny Point** (319803)

KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 50°F	Between 50°F and 65°F	Greater than 65°F
Avg. Min. Humidity	Greater than 40%	Between 35% and 40%	Less than 35%
Avg. 20' Wind Speed	Less than 5 mph	Between 5 mph and 10 mph	Greater than 10 mph
Avg. Wind Direction*	Criticality of wind direction is highly dependent on burn operations and/or structures threatened.		
Days Since a Wetting Rain**	A wetting rain is defined as 0.10" or greater. This is an average of the FDRA stations noted above.		
Energy Release Comp.	Less than 36.4	Between 36.4 and 47.2	Greater than 47.2
Burning Index	Less than 68.3	Between 68.3 and 89.5	Greater than 89.5
Ignition Component	Less than 7.9	Between 7.9 and 12	Greater than 12
100-Hour Fuel Moisture	Greater than 18.2%	Between 17.3% and 18.2%	Less than 17.3%
1000-Hour Fuel Moisture	Greater than 19%	Between 18% and 19%	Less than 18%
KBDI	Less than 385	Between 385 and 486	Greater than 486

Other factors to consider when determining fire danger: **sky conditions**, **precipitation amount**, **number of days since rain**, and **season**

Outlook Summary Table – R2

Summary Table by FDRA using count of colored blocks in a day's forecast.

Forecast Subject to Change

Key: 4+ Red Blocks on a Day = "Critical" Day Potential; Red Color
4+ Yellow or Combo of Yellow/Red = "High" Day Potential; Yellow Color
6+ Blue-Green Blocks = "Low to Mod" Potential Day; Blue-green Color

Date	Day of Week	FDRA Matrix Summary - NCFS Region 2				
		Blue Ridge Escarp	Western Piedmont	Eastern Piedmont	Sandhills	South Coast
18-Mar	Sat	Low/Mod	Low/Mod	Low/Mod	Low/Mod	Low/Mod
19-Mar	Sun	High	High	Low/Mod	Low/Mod	High
20-Mar	Mon	High	Critical	Low/Mod	Low/Mod	High
21-Mar	Tues	High	Critical	Low/Mod	Low/Mod	High
22-Mar	Weds	High	High	Low/Mod	Low/Mod	Low/Mod
23-Mar	Thurs	Critical	High	Low/Mod	Low/Mod	High
24-Mar	Fri	High	High	High	Low/Mod	High

Weather Outlook Discussion

Raleigh NWS (Area Forecast Discussion):

.SHORT TERM /SATURDAY NIGHT THROUGH SUNDAY NIGHT/...
As of 245 PM Friday...

NW flow behind the front will bring in much drier air on Saturday, with precipitation exiting the Coastal Plain in the morning. However, as the front remains near the coast, can`t rule out an isolated shower in Sampson County during the afternoon. Highs on Saturday will be back to below normal, in the mid-to-upper-50s. A reinforcing cold front will move through on Saturday night, with chilly lows in the upper-20s to lower-30s in many places (except upper-30s in the far SE). This may result in more frost/freeze concerns.

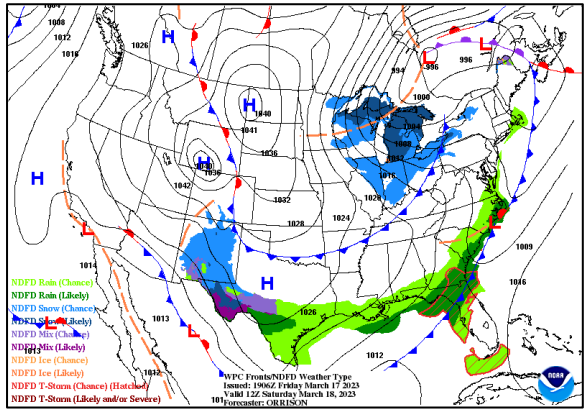
&&

.LONG TERM /MONDAY THROUGH FRIDAY/...
As of 230 PM Friday...

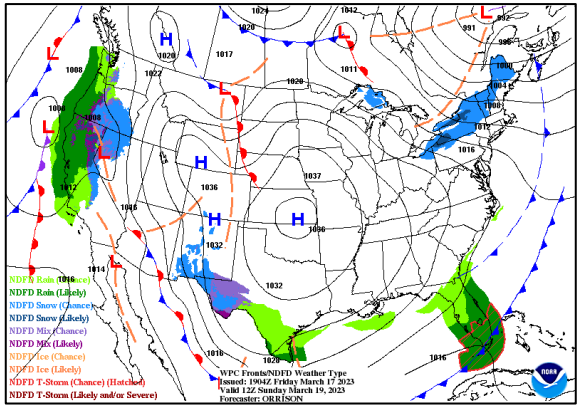
Strong high pressure over the region Monday will influence fair weather for the first half of the week with moderating temperatures through the work week. Cold air advection continues for at least one more night and expect temperatures Monday night to be below or near freezing one last time before moderating by late week. Highs on Tuesday and Wednesday will be in the upper 50s to mid/upper 60s with lows warming from mid 30s to mid/upper 40s on Wednesday night. Thursday and Friday we are expecting to see more spring like temperatures with highs on Thursday in the 70s NW to mid/upper 70s SE. Lows on Thursday night in the mid to upper 50s will be well above normal as the placement of the surface high shifting offshore and WAA spreading across the region. Friday a surface low over the great lakes region with an associated cold front trailing down across the MS valley into TX will be slowly moving east into the Mid-Atlantic by late Friday night. For now limited chance PoPs in the forecast for Friday but timing is still uncertain for the approaching cold front.

WPC Forecasted Surface Fronts & Sea-Level Pressures

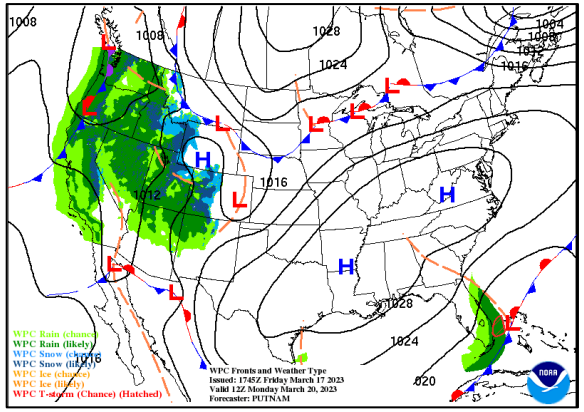
Saturday - 700 am



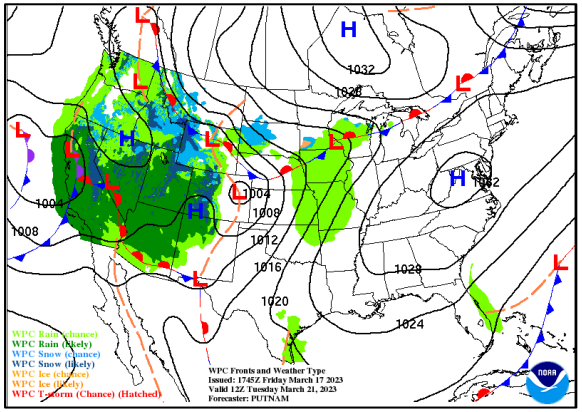
Sunday - 700 am



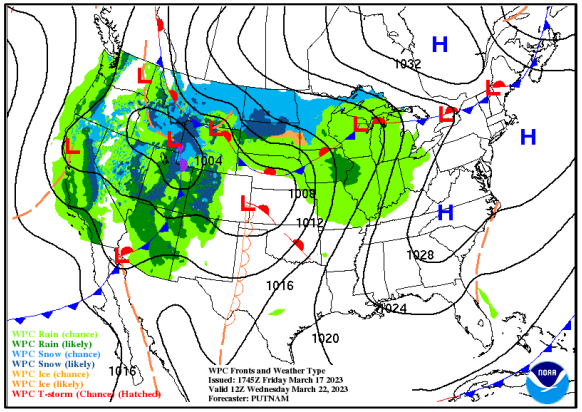
Monday - 700 am



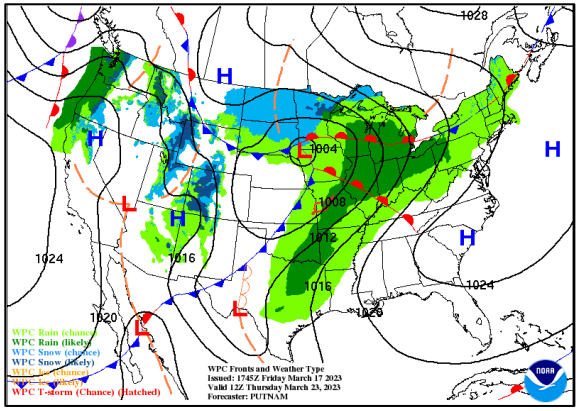
Tuesday - 700 am



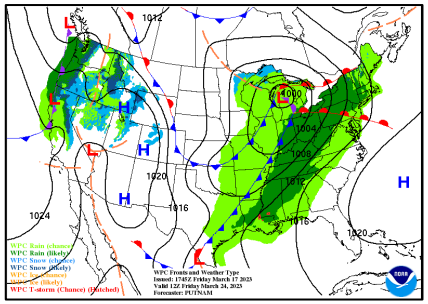
Wednesday - 700 am



Thursday - 700 am



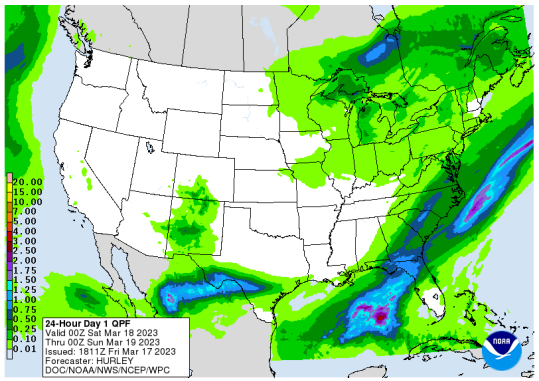
Friday - 700 am



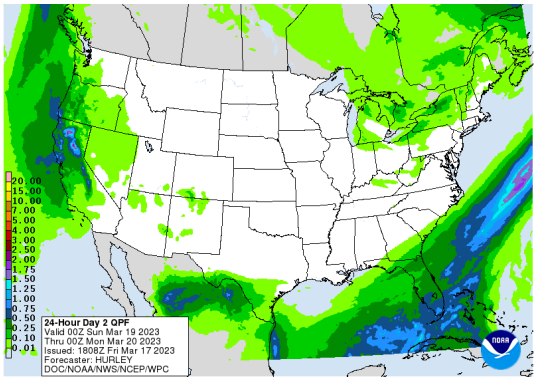
Location: https://www.wpc.ncep.noaa.gov/#

Quantitative Precipitation Forecast, 7-Day

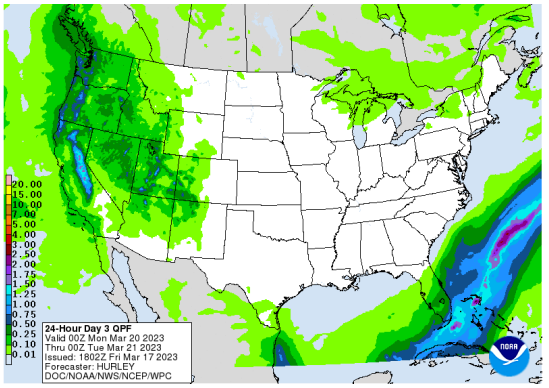
Day - 1



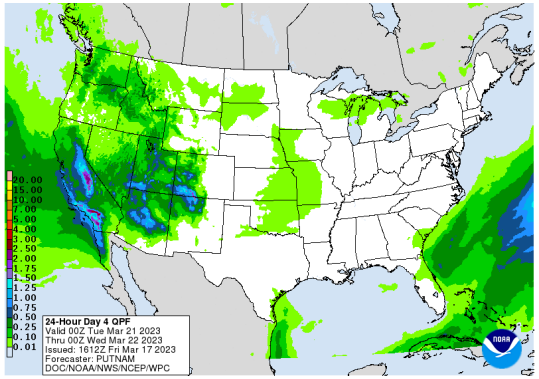
Day - 2



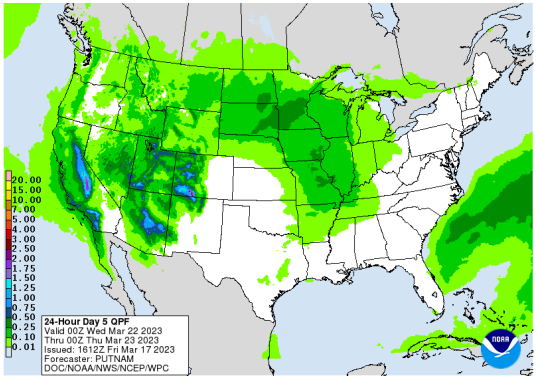
Day - 3



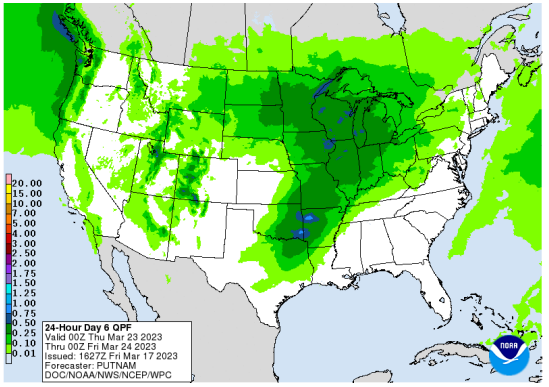
Day - 4



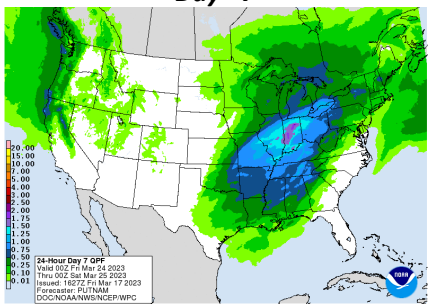
Day - 5



Day - 6

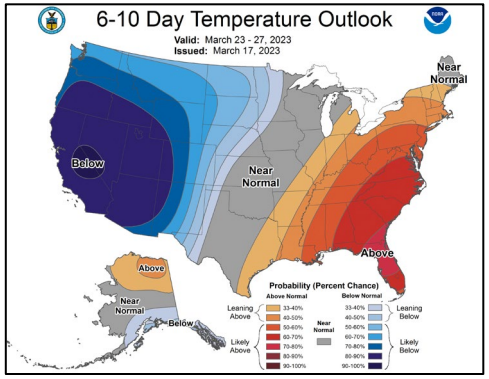


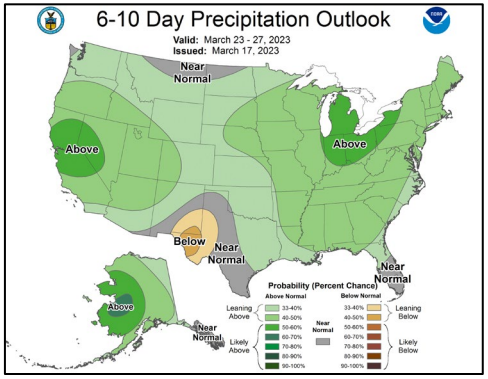
Day - 7

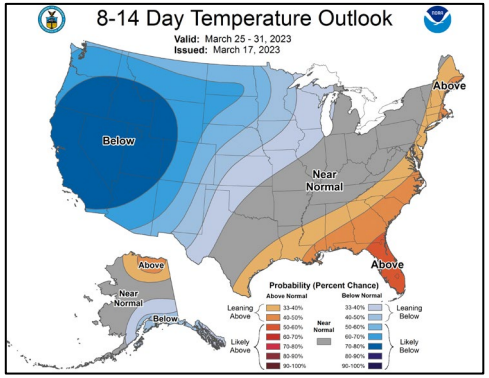


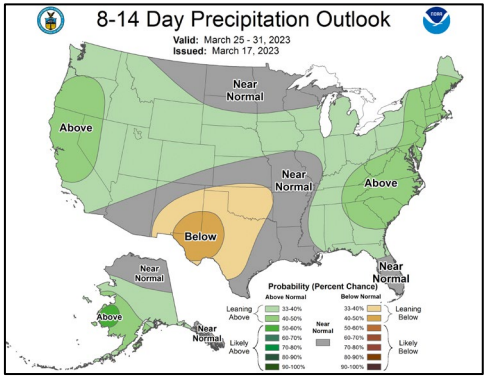
Location: https://www.wpc.ncep.noaa.gov/#

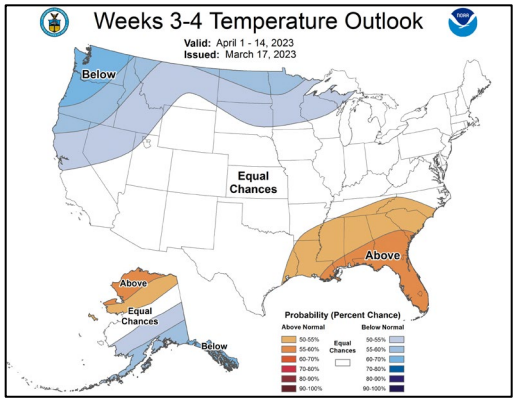
Temp & Precip Outlook
6-10 Day, 8-14 Day & Week 3-4

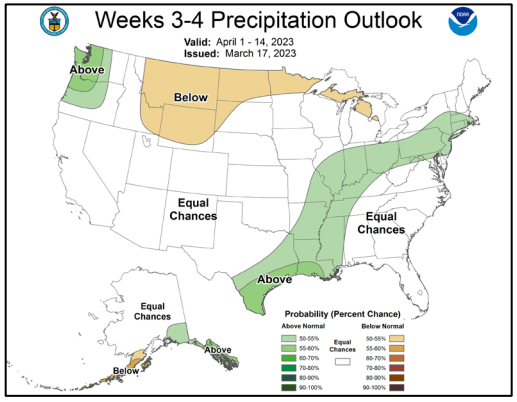








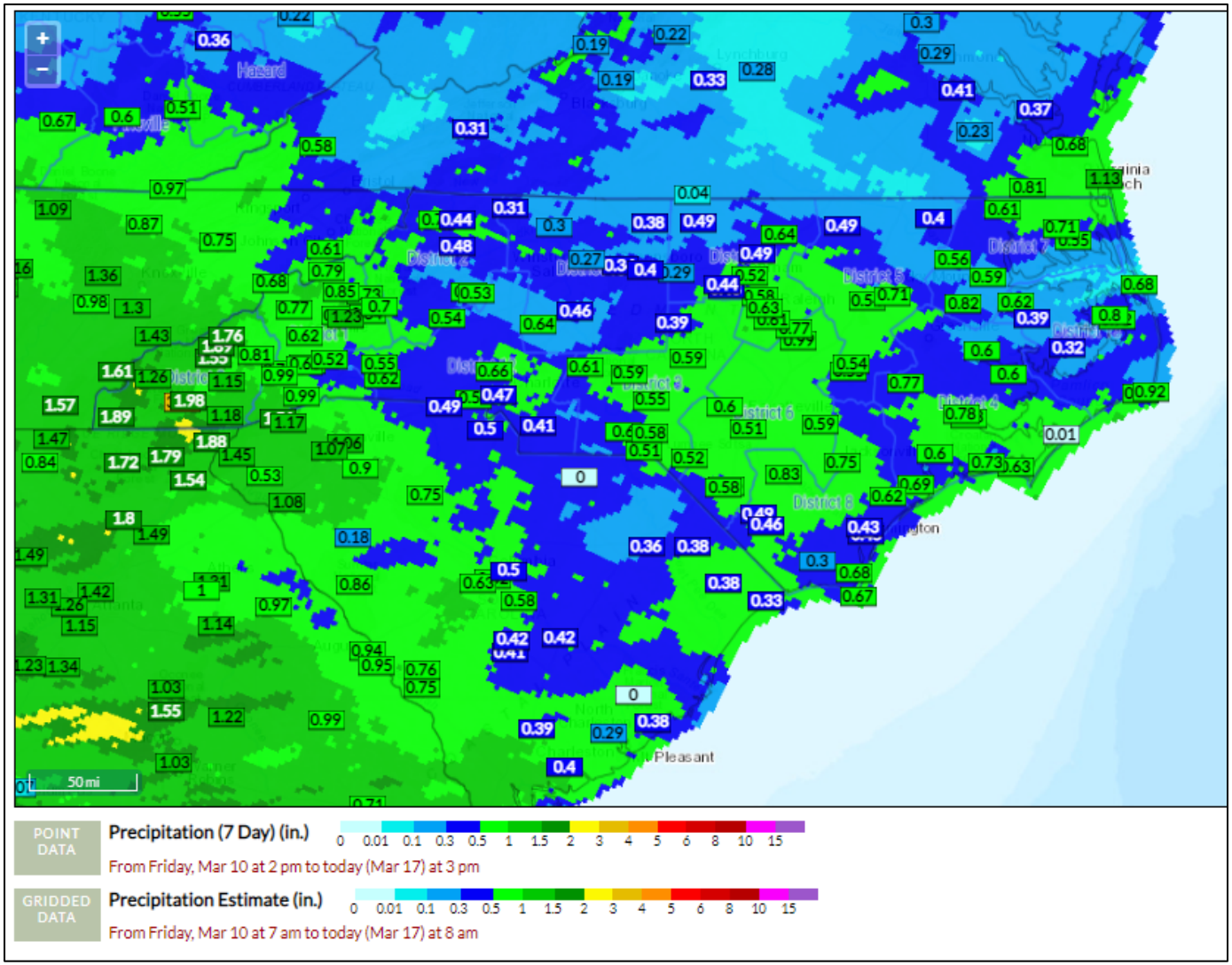




Source: https://www.cpc.ncep.noaa.gov/

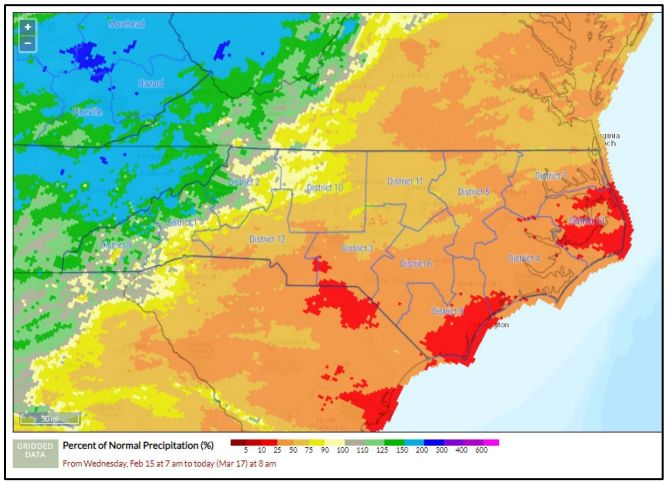
7 Day Precipitation Totals

FWIP *(Point accumulation ending at 1500 on 3/17, Grid ending 0800 3/17)*

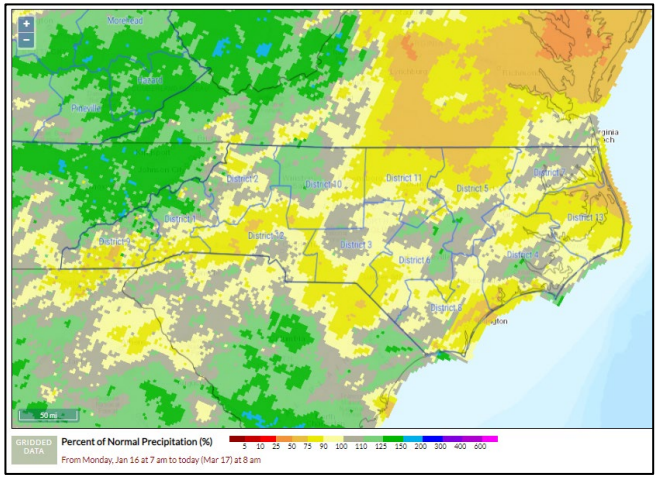


Percent of Normal Precip, *FWIP* *(Ending 0800 3/17)*

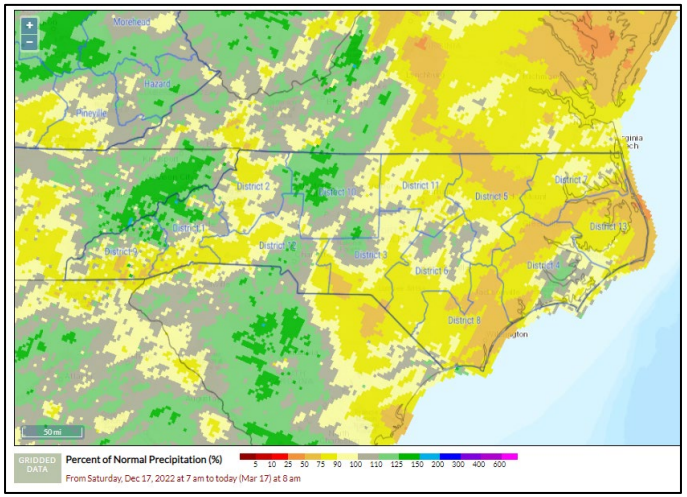
30-Day % of Normal



60-Day % of Normal

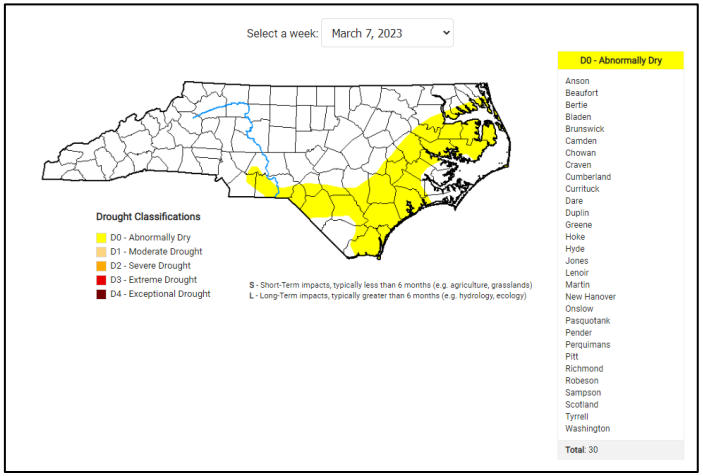


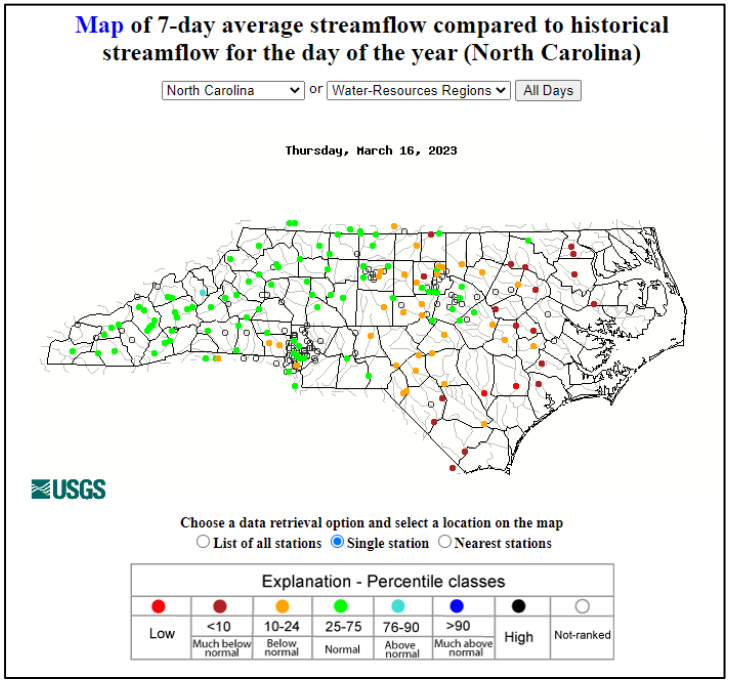
90-Day % of Normal



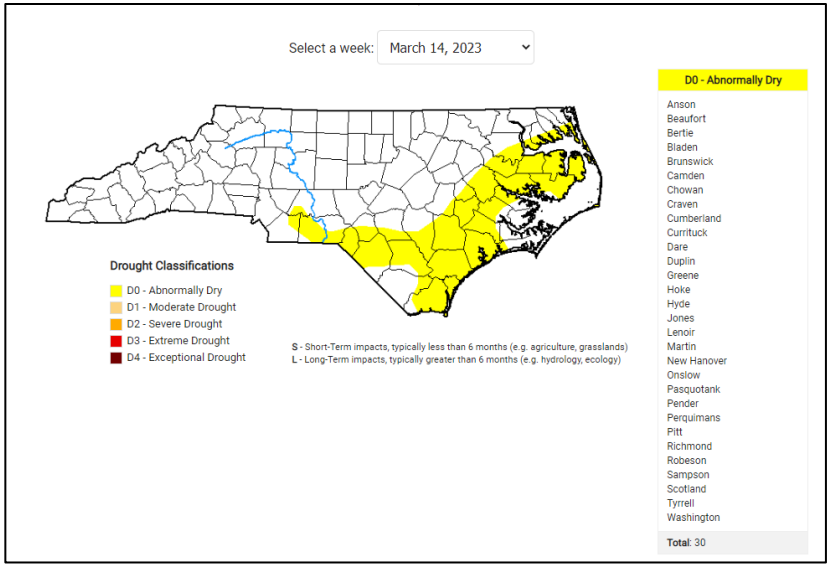
Drought Situation

Previous Week:





Current Week:

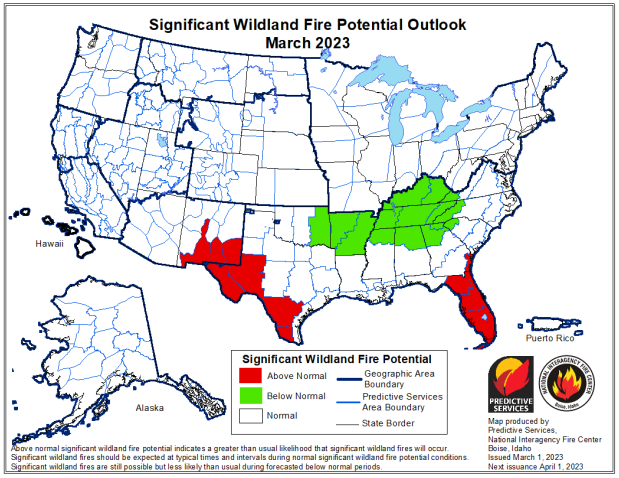


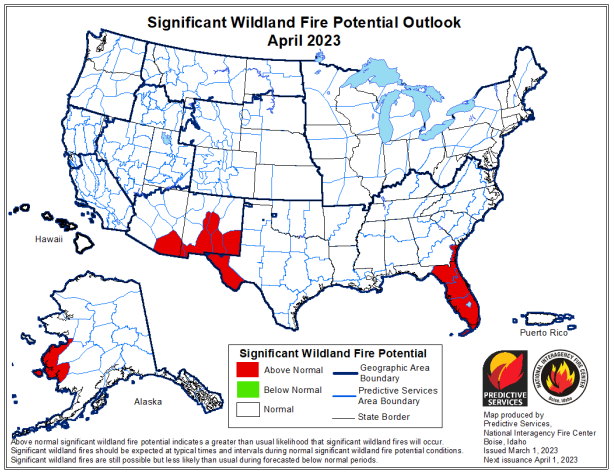
- D-0 Abnormally Dry Conditions within 30 Counties (~26% of State)
- 7-Day Stream flow averages continue to decline, creeping west.

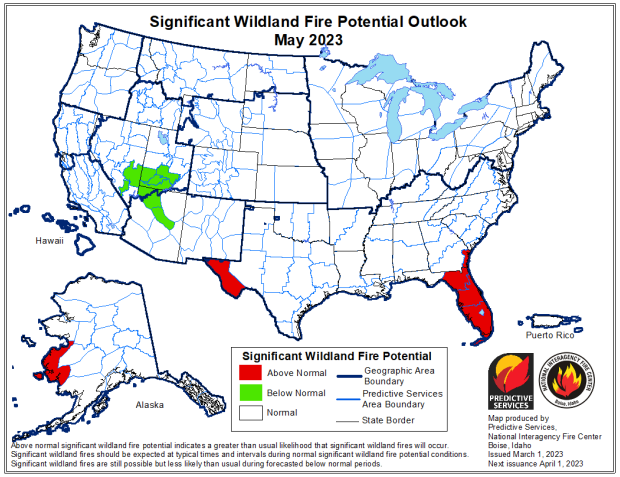
Sources: https://www.ncdrought.org/map-archives , https://waterwatch.usgs.gov/index.php?m=pa07d&r=nc&w=map

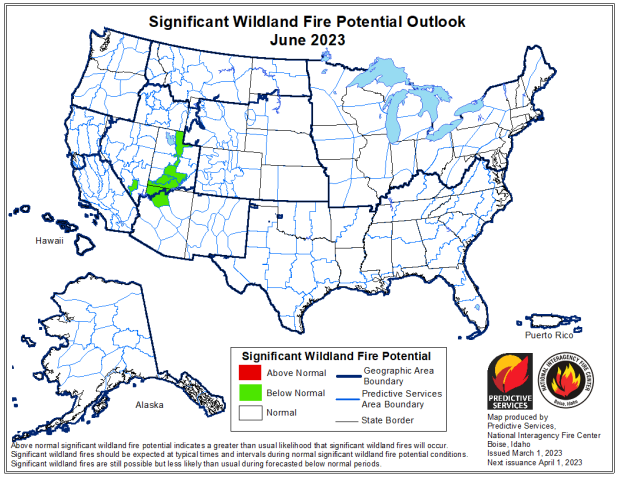
Significant Wildland Fire Potential Outlook:

Updated 3/1/23 – Next Update on 4/1/23





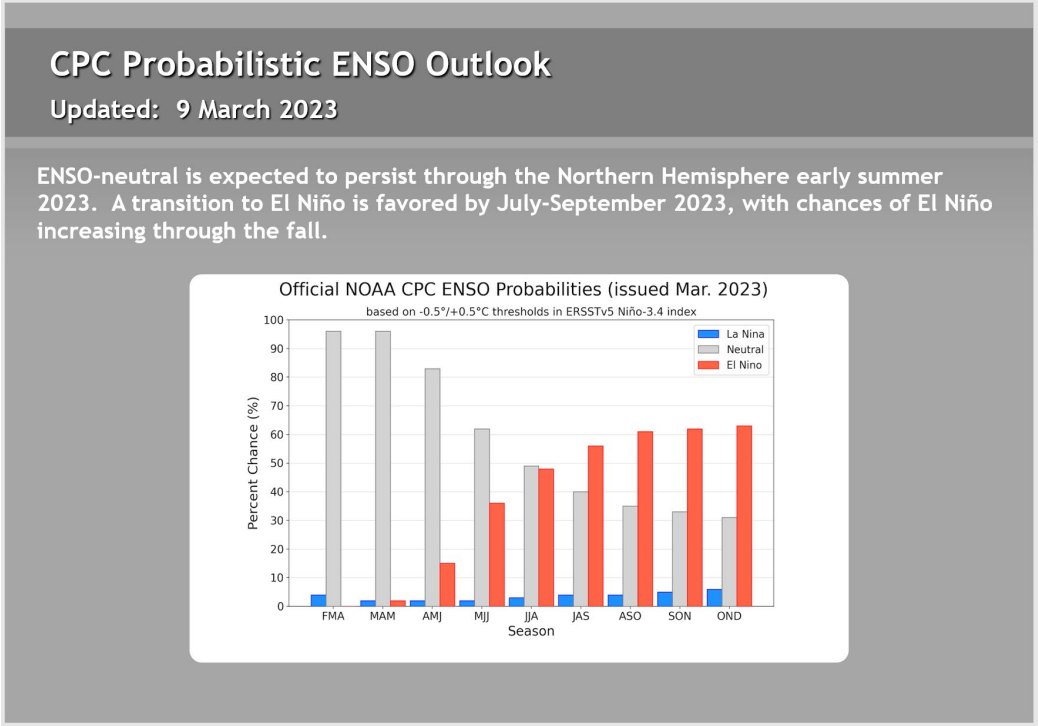




A significant fire is one that requires resources from outside the district (other than aviation). IA potential is based more on shorter term weather factors. Just a few days of dry weather can increase IA activity considerably as we have already seen this year.

ENSO Note

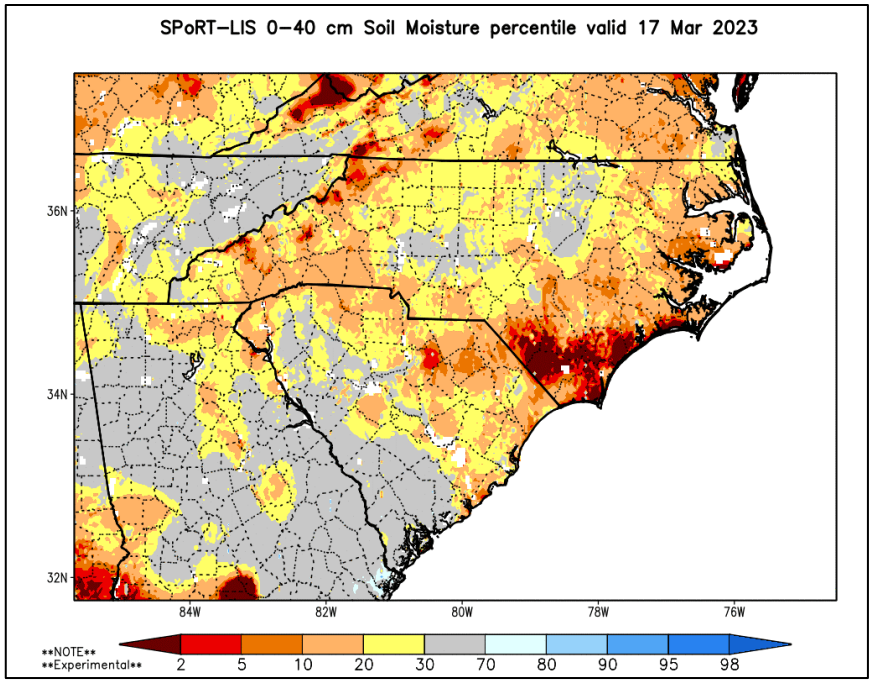
- 3/9/23 Update - La Nina has officially ended.
- ENSO-Neutral conditions expected to continue through spring and early summer of 2023. Signs point to El Nino development in late summer.



Slide Source: https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf

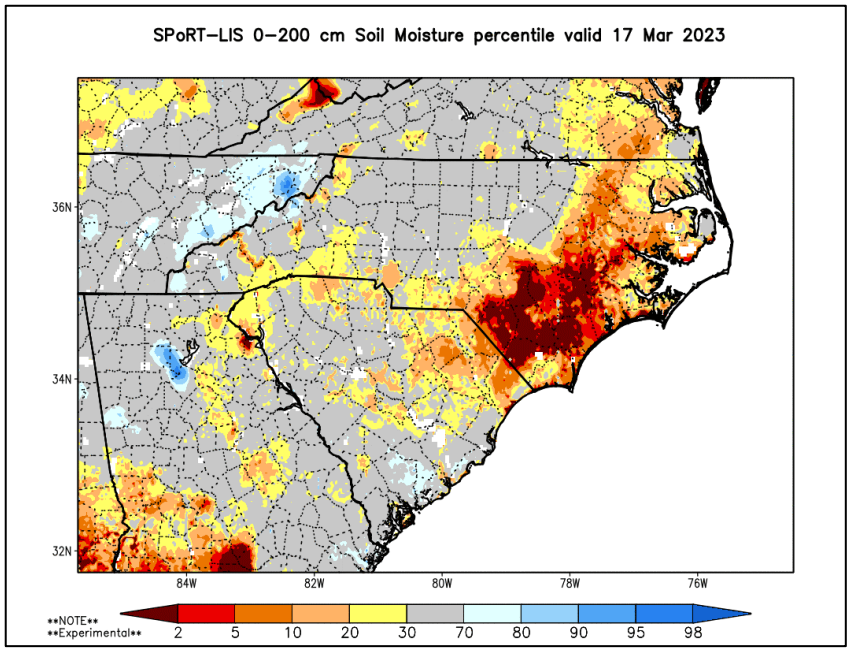
SPoRT Relative Soil Dryness

0-40 cm Depth



- Modeled Drying Trend Continues
- Deeper levels of dryness to the East & South

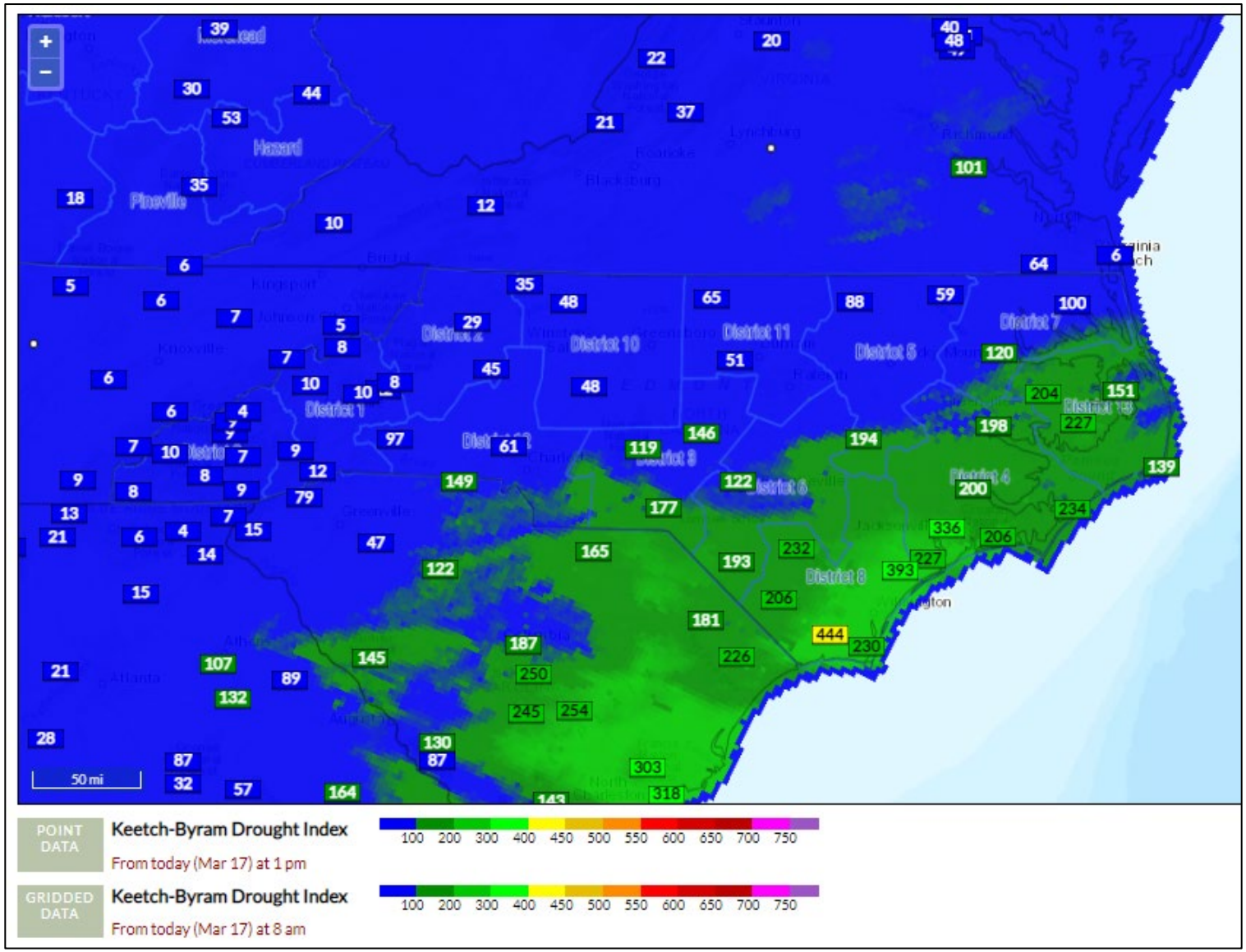
0-200 cm Depth



Source: https://weather.msfc.nasa.gov/sport/case_studies/lis_NC.html

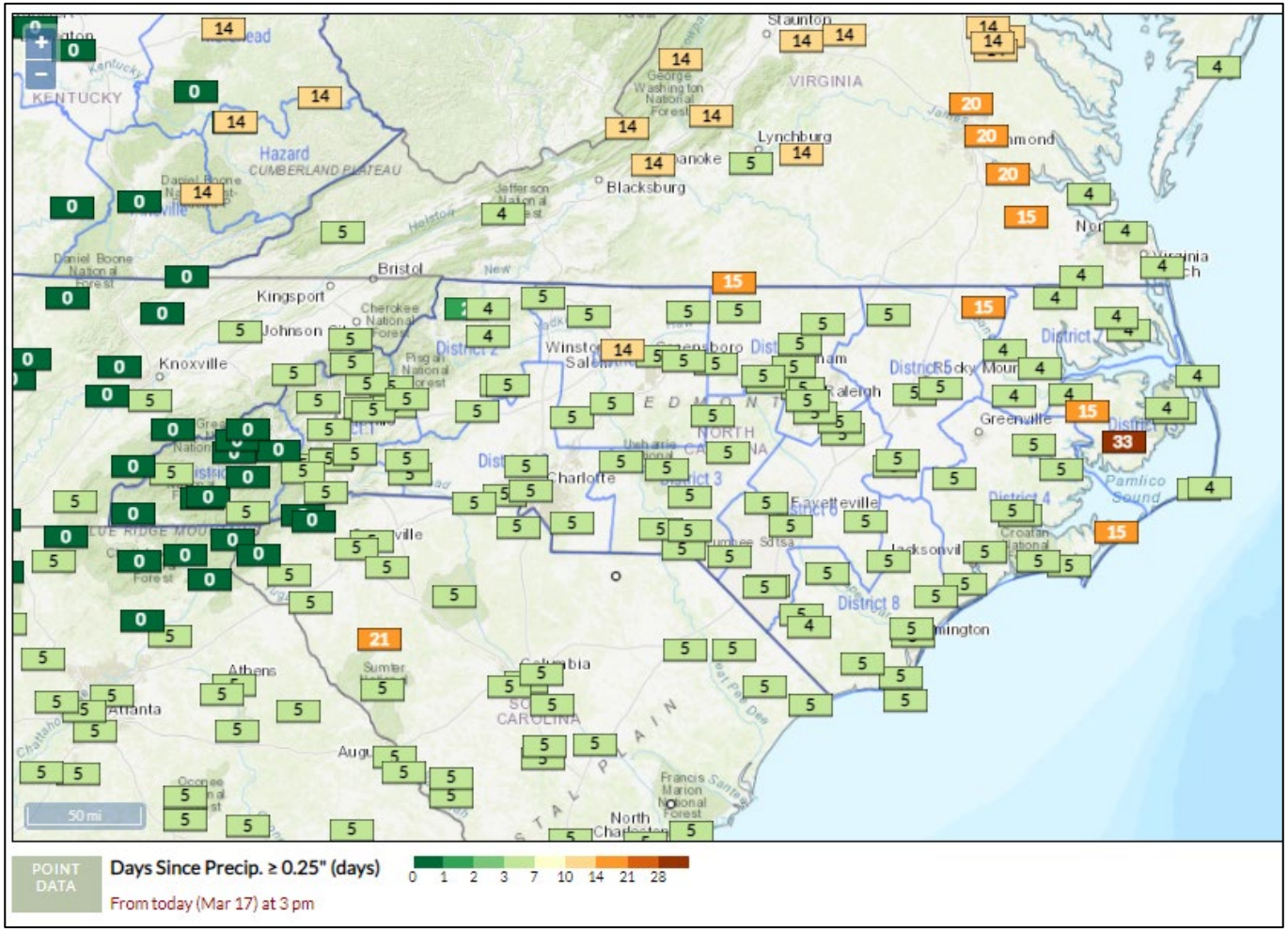
KBDI - Gridded & Station Points

FWIP (Point calculation from 1300 on 3/17, Grid ending 0800 3/17)



Days Since Daily Precip ≥ 0.25”

Note – Latest product run was on 3/17/23 at 1500. Does not consider rainfall after that point.

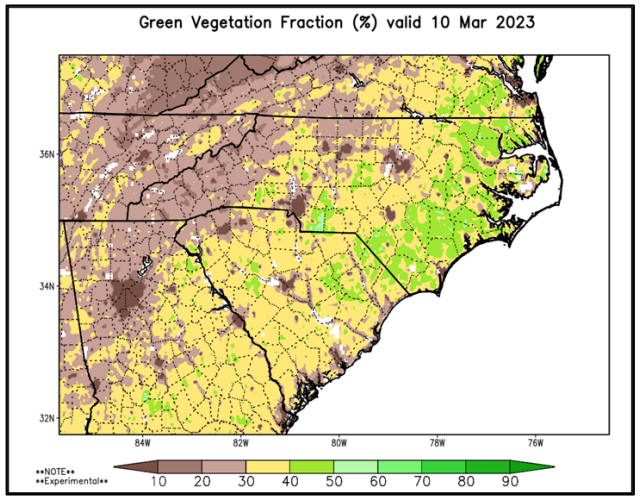


From: Fire Weather Intelligence Portal

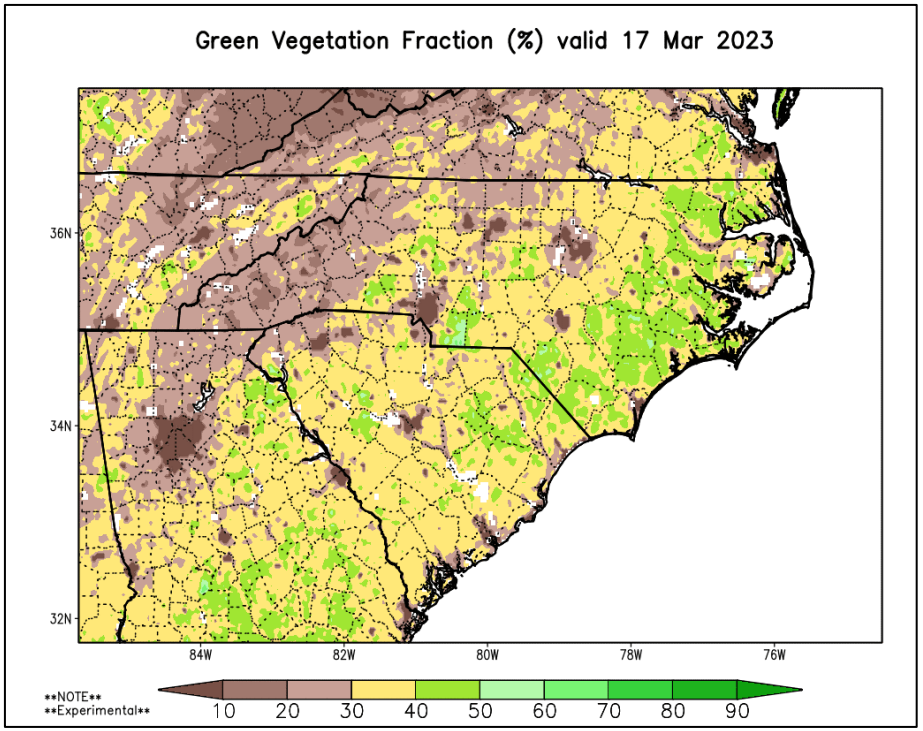
Green Fraction & Green-Up Anomaly

- Generally, 2-3 Weeks Ahead of 30-Yr Avg
- Frost/Freeze Concerns Again for Early Next Week

Last Week



Current



Link: https://weather.msfc.nasa.gov/cgi-bin/basicLooper.pl?category=lis_NC&initialize=first&regex=gvf_20230228