Weekly Fire Danger Assessment
NCFS - Region THREE

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 3		
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:	38	60.0
Prescribed Fires:	8	590

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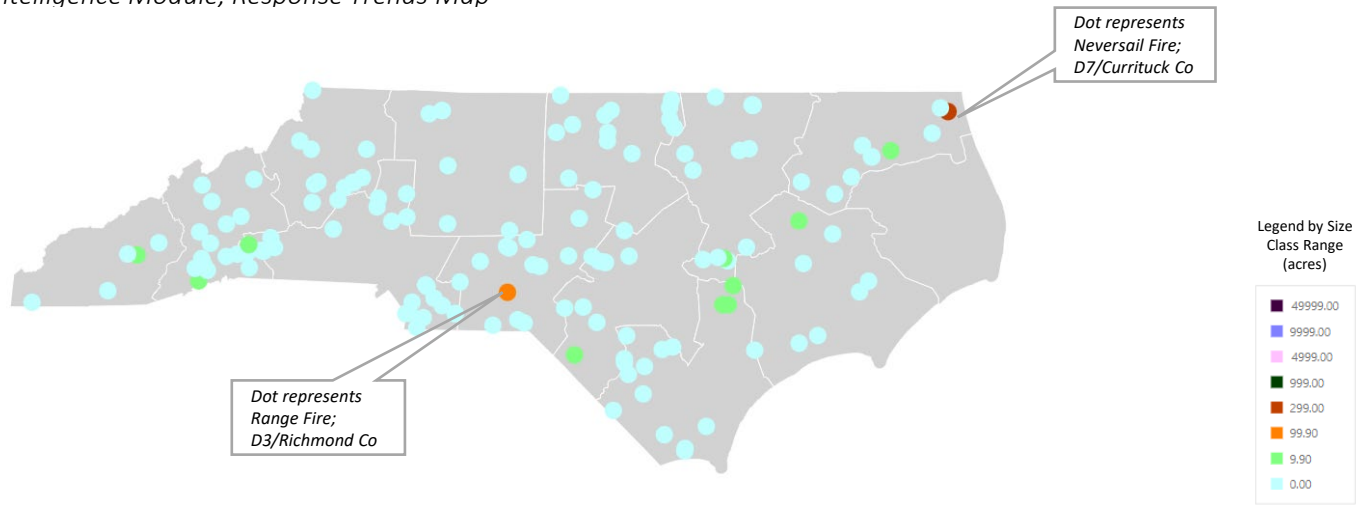
fiResponse Incident Location Map (for general context)
Date Range: 3/10 – 3/16, 2023
Report: Business Intelligence Module, Response Trends Map



Current and Forecasted Fire Danger Conditions by FDRA

R3

Regional Comments for this Week – R3

- On-Going Fire Note:
  Currently working the Locust Cove Fire in D1/McDowell Co – an earlier afternoon report had the fire around 100 acres. Private and USFS Lands involved.

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

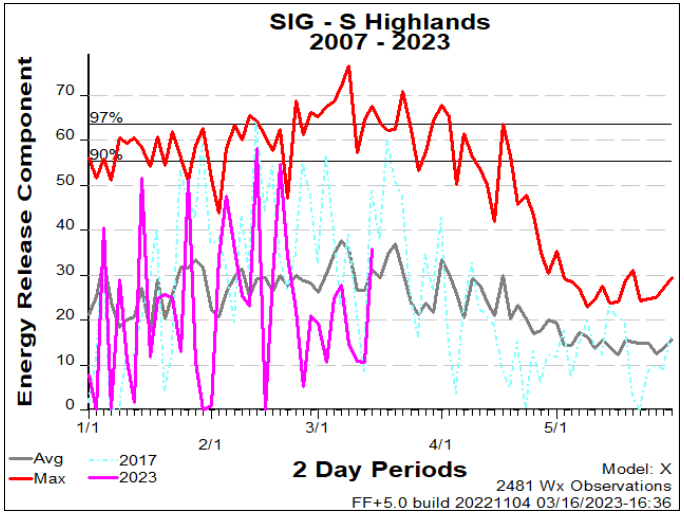
Dead fuel moisture forecast values are grouped into three categories based on historical percentiles, assessed using the FF+ All Days filter through 2021:

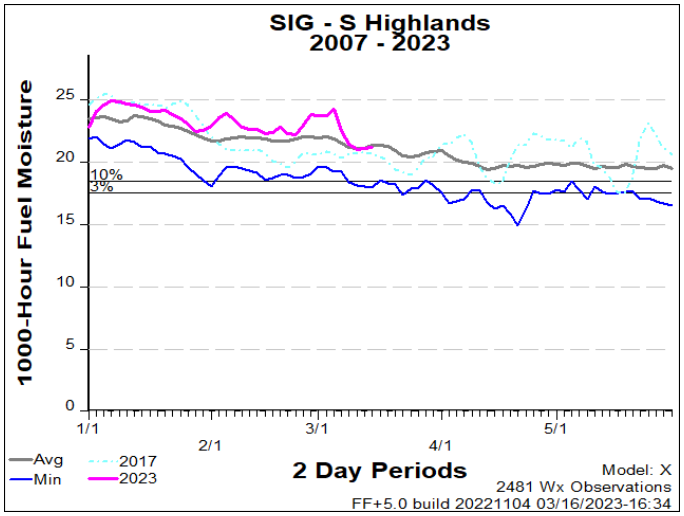
- Low to Moderate (26th to 100th percentile); shown in blue-green
- High (11th to 25th percentile); shown in yellow
- Very High to Extreme (0 to 10th percentile); shown in red and labeled as Critical

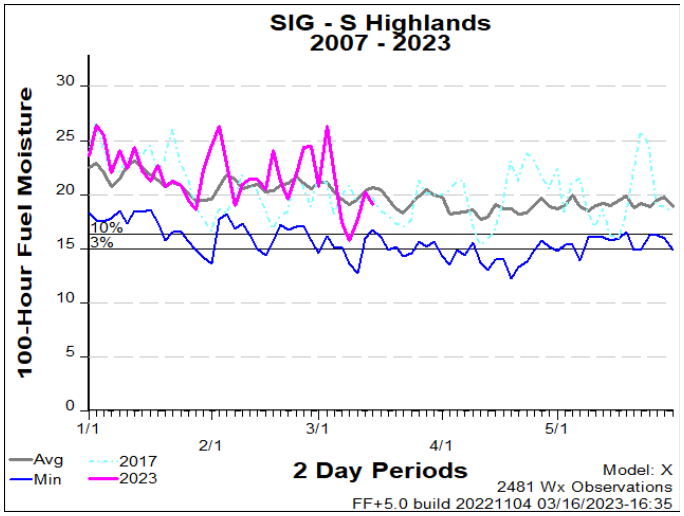
Other Notes:

- 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 – Southern Highlands







Weekly Outlook

Southern Highlands 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)	43	38	49	54	58	68	69
Avg. Min. Humidity (%)	31	30	28	27	42	49	56
Avg. 20' Wind Speed (mph)	13	10	4	5	5	7	12
Avg. Wind Direction*	NW	NNW	SE	ESE	SSE	SSW	SSW
Avg. Probability of Precip. (%)	1	1	2	2	7	25	49
Days Since a Wetting Rain**	1.0	2.0	3.0				
Forecast ERC (Fuel Model X)	21.6	40.7	48.8	53.1	55.5	40.7	34.6
Forecast BI (Fuel Model X)	94.7	116.6	103.2	120.9	126.6	119.6	143.1
Forecast IC (Fuel Model X)	5.0	7.2	5.9	7.6	9.4	6.9	7.6
Forecast 100-Hr. FMC	21.0	21.6	21.7	20.7	19.5	18.6	18.8
Forecast 1000-Hr. FMC	24.8	24.7	24.6	24.5	24.5	24.4	24.2
KBDI	8.3						

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

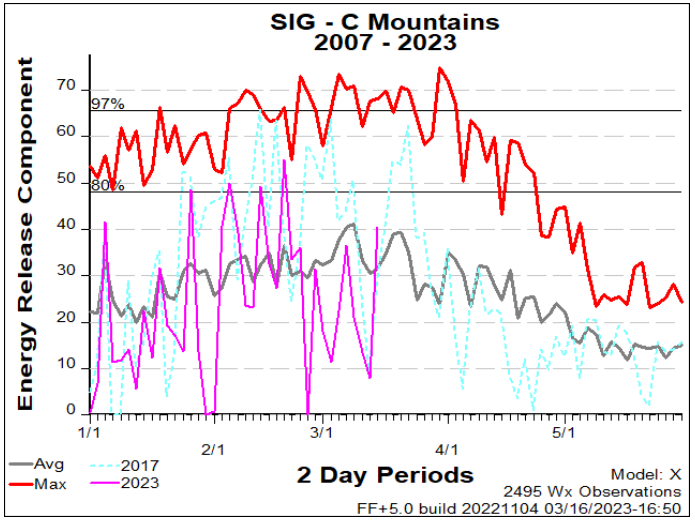
Values in the table above are averages from 3 stations in this FDRA:

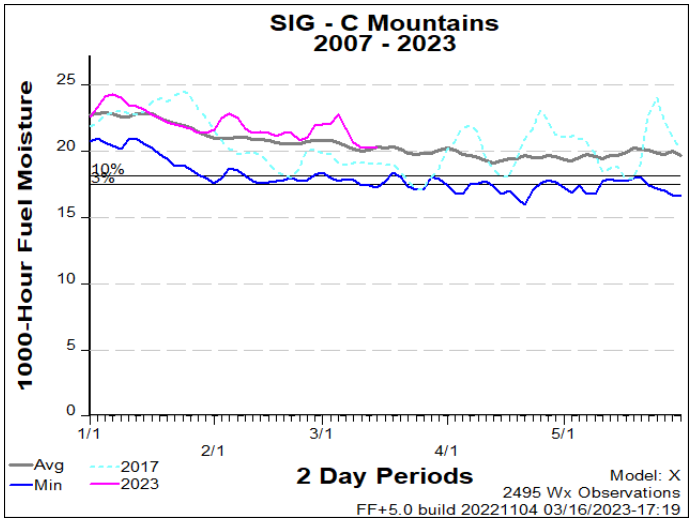
- **Tusquitee** (315602)
- **Locust Gap** (315802)
- **Highlands** (315803)

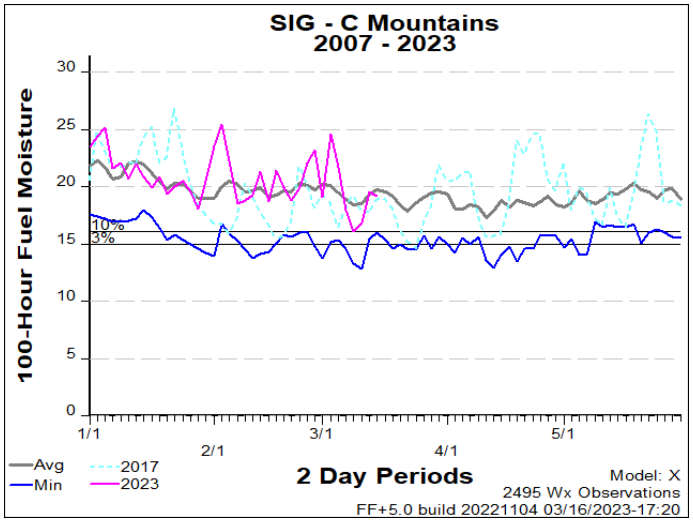
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 50°F	Between 50°F and 55°F	Greater than 55°F
Avg. Min. Humidity	Greater than 35%	Between 30% and 35%	Less than 30%
Avg. 20' Wind Speed	Less than 5 mph	Between 5 mph and 7 mph	Greater than 7 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 118	Greater than 118
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 345	Between 345 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 – Central Mountains







Weekly Outlook

Central Mountains 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)	47	39	49	56	61	72	73
Avg. Min. Humidity (%)	26	28	24	25	37	42	45
Avg. 20' Wind Speed (mph)	14	13	5	4	5	6	11
Avg. Wind Direction*	NW	NNW	SSW	S	S	SSW	SSW
Avg. Probability of Precip. (%)	1	2	2	2	7	27	43
Days Since a Wetting Rain**	2.7	3.7	4.7				
Forecast ERC (Fuel Model X)	23.7	40.4	47.0	53.1	55.2	44.1	37.5
Forecast BI (Fuel Model X)	90.3	119.6	96.2	115.2	121.4	119.9	145.6
Forecast IC (Fuel Model X)	5.6	8.3	6.2	8.1	9.4	8.2	9.4
Forecast 100-Hr. FMC	18.6	19.0	19.2	18.7	17.8	17.1	16.9
Forecast 1000-Hr. FMC	23.2	23.1	23.0	23.0	22.9	22.7	22.5
KBDI	10.0						

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

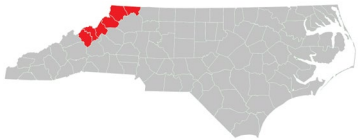
Values in the table above are averages from 3 stations in this FDRA:

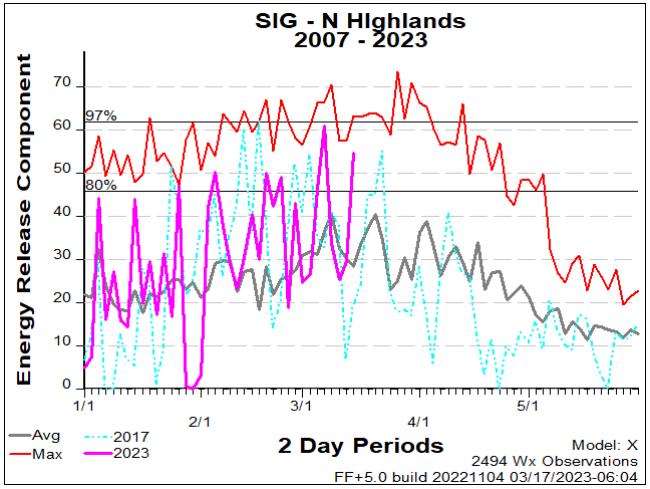
- **7 Mile Ridge** (313302)
- **Davidson River** (316001)
- **Mtn Horticultural Crops Res Stn** (316141)

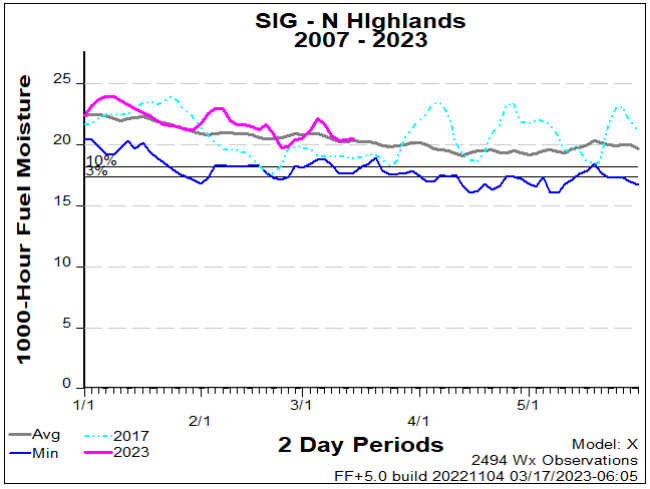
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 50°F	Between 50°F and 60°F	Greater than 60°F
Avg. Min. Humidity	Greater than 35%	Between 30% and 35%	Less than 30%
Avg. 20' Wind Speed	Less than 5 mph	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 33	Between 33 and 50	Greater than 50
Burning Index	Less than 78	Between 78 and 106	Greater than 106
Ignition Component	Less than 6	Between 6 and 11	Greater than 11
100-Hour Fuel Moisture	Greater than 19%	Between 17% and 19%	Less than 17%
1000-Hour Fuel Moisture	Greater than 20%	Between 19% and 20%	Less than 19%
KBDI	Less than 319	Between 319 and 417	Greater than 417

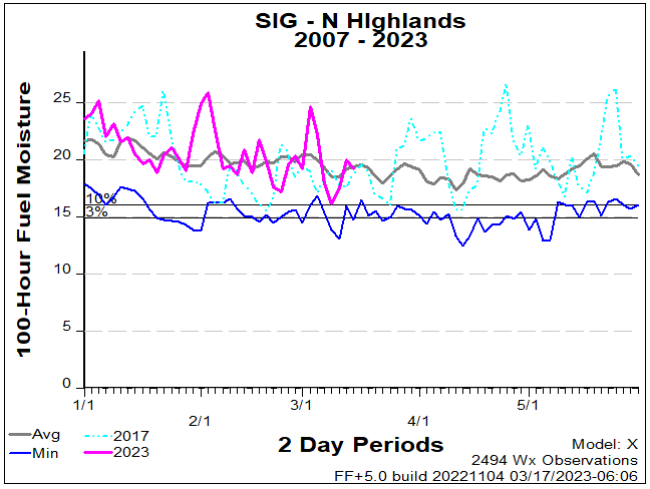
Other factors to consider when determining fire danger: **sky conditions**, **precipitation amount**, **number of days since rain**, and **season**

Region Specific – Northern Highlands









Weekly Outlook

Northern Highlands 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)	41	35	45	50	53	64	67
Avg. Min. Humidity (%)	29	28	24	25	39	50	52
Avg. 20' Wind Speed (mph)	19	15	5	5	6	8	13
Avg. Wind Direction*	WNW	NW	SW	WSW	SW	SSW	SSW
Avg. Probability of Precip. (%)	4	1	2	2	8	21	46
Days Since a Wetting Rain**	2.7	3.7	4.7				
Forecast ERC (Fuel Model X)	27.5	40.1	45.0	47.4	47.0	36.1	26.9
Forecast BI (Fuel Model X)	108.5	113.8	92.2	102.5	101.4	99.8	105.5
Forecast IC (Fuel Model X)	7.3	8.9	7.6	9.1	8.9	7.5	8.0
Forecast 100-Hr. FMC	17.8	17.7	17.4	17.0	16.4	15.7	15.7
Forecast 1000-Hr. FMC	22.5	22.4	22.4	22.3	22.1	22.0	21.7
KBDI	7.5						

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

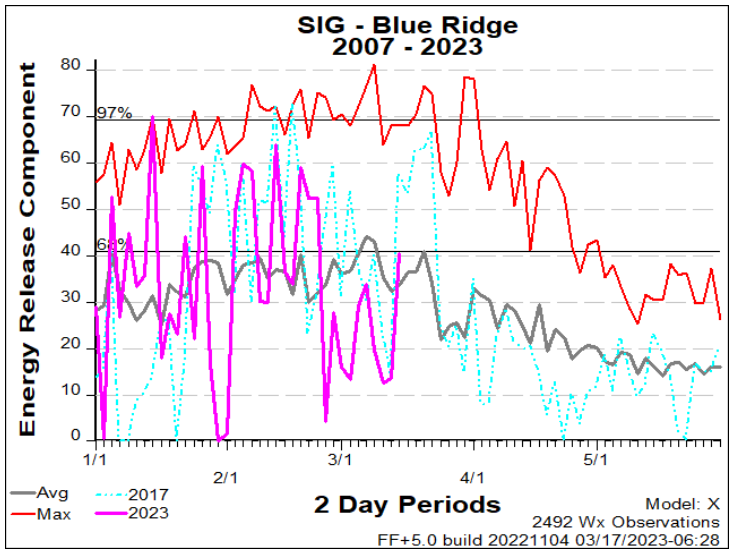
Values in the table above are averages from 3 stations in this FDRA:

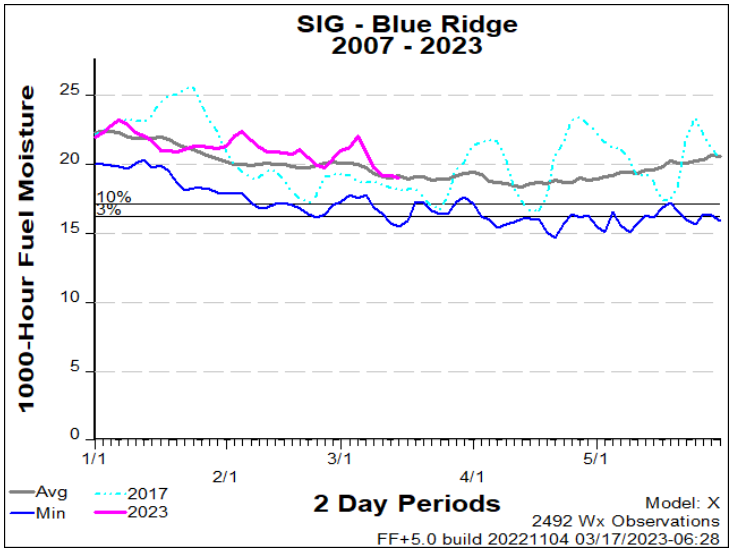
- **Laurel Springs** (310101)
- **Upper Mountain Research Stn** (310141)
- **Busick** (313402)

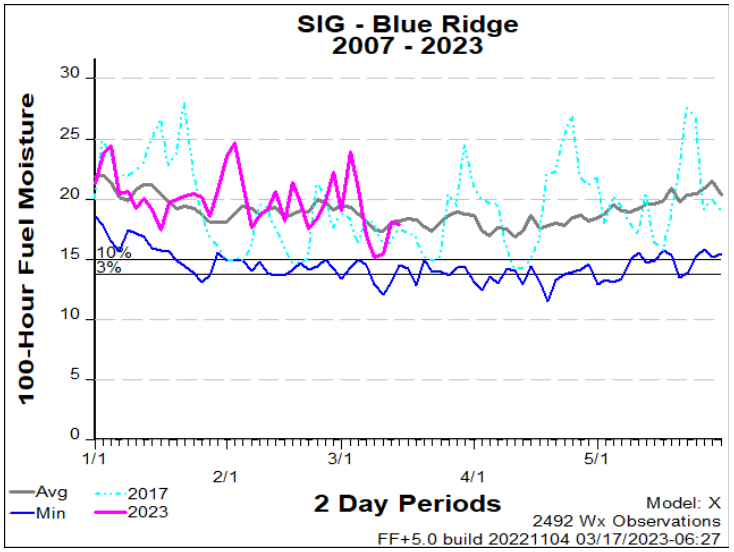
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 50°F	Between 50°F and 58°F	Greater than 58°F
Avg. Min. Humidity	Greater than 35%	Between 30% and 35%	Less than 30%
Avg. 20' Wind Speed	Less than 2 mph	Between 2 mph and 5 mph	Greater than 5 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 26	Between 26 and 46	Greater than 46
Burning Index	Less than 67	Between 67 and 108	Greater than 108
Ignition Component	Less than 5	Between 5 and 9	Greater than 9
100-Hour Fuel Moisture	Greater than 18%	Between 17% and 18%	Less than 17%
1000-Hour Fuel Moisture	Greater than 20%	Between 19% and 20%	Less than 19%
KBDI	Less than 192	Between 192 and 330	Greater than 330

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

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

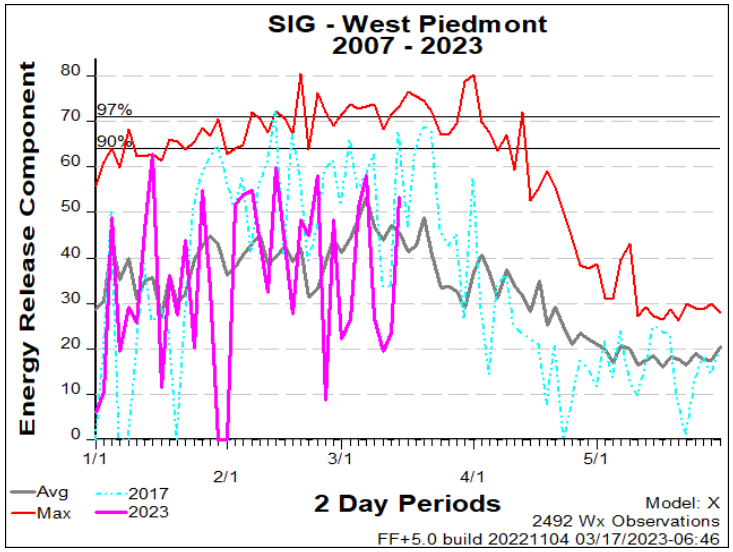
Values in the table above are averages from 3 stations in this FDRA:

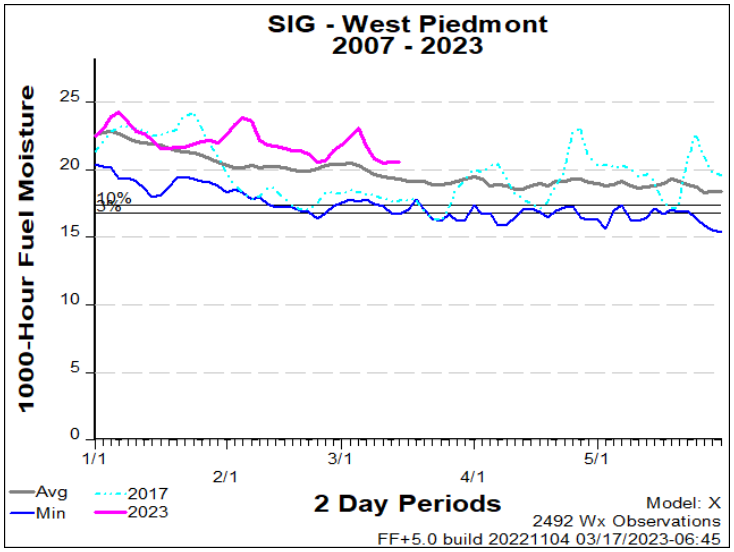
- **Rendezvous Mtn.** (312001)
- **North Cove Pinnacle (fr1)** (314301)
- **Rutherford County** (316302)

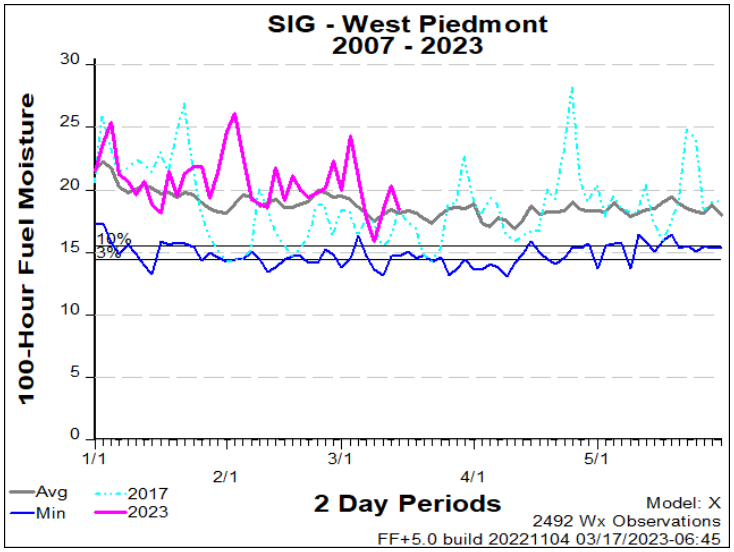
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 40°F	Between 40°F and 50°F	Greater than 50°F
Avg. Min. Humidity	Greater than 35%	Between 30% and 35%	Less than 30%
Avg. 20' Wind Speed	Less than 2 mph	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.
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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**

Outlook Summary Table – R3

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 3				
		Southern Highlands	Central Mountains	Northern Highlands	Blue Ridge Escarp	Western Piedmont
18-Mar	Sat	Low/Mod	High	High	Low/Mod	Low/Mod
19-Mar	Sun	High	High	High	High	High
20-Mar	Mon	Low/Mod	High	High	High	Critical
21-Mar	Tues	High	High	High	High	Critical
22-Mar	Weds	High	High	High	High	High
23-Mar	Thurs	High	High	High	Critical	High
24-Mar	Fri	Low/Mod	High	High	High	High

Weather Outlook Discussion

Greenville-Spartanburg NWS (PM Fire WX Forecast Discussion):

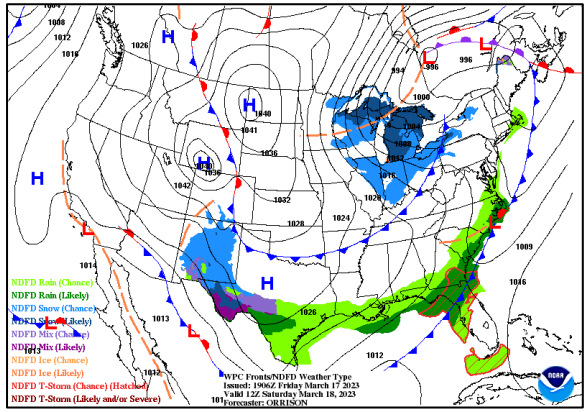
```
 .DISCUSSION...
A cold front will track across the area today bringing widespread
rain. A reinforcing cold front will track across the area late
Saturday bringing drier weather and colder temperatures. Dry high
pressure builds across the southeast Sunday into Monday and remains
in control of the pattern through the middle of next week. Another
cold front will approach out of the west late next week increasing
rain chances again.
```

Blacksburg NWS (PM Area Forecast Discussion):

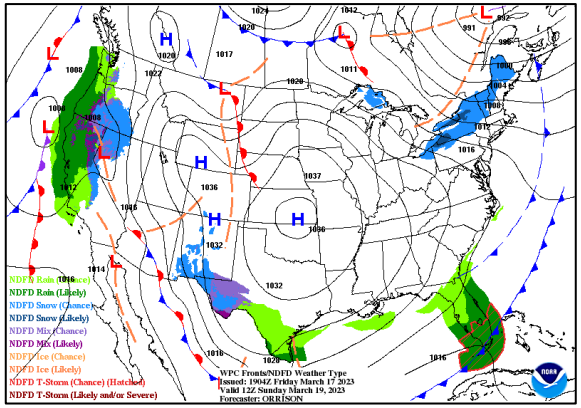
```
.LONG TERM /TUESDAY THROUGH FRIDAY/...
As of 200 PM EDT Friday...

Temperatures will slowly moderate into the end of the week.

A large Arctic high remains anchored over the Southeast blocking any
return moisture of significance. Meanwhile, a deep trough develops
in the Southwest. A weak disturbance will pass to our north
Wednesday night into Thursday. This will result in the chance for
rain showers, mainly in the west. Cold air aloft lingers over
the area throughout Midweek and lift out by late week. The first
half of the week will remain below normal then temperatures
moderate by the weekend.

Low temperatures will recover from the teens and 20s Tuesday to
the 30s for the later half of the week. Afternoon temperatures
will moderate to the mid 50s to around 70 degrees by the end of
the week.

Low to moderate confidence in the Long Term Forecast.
```

WPC Forecasted Surface Fronts & Sea-Level Pressures

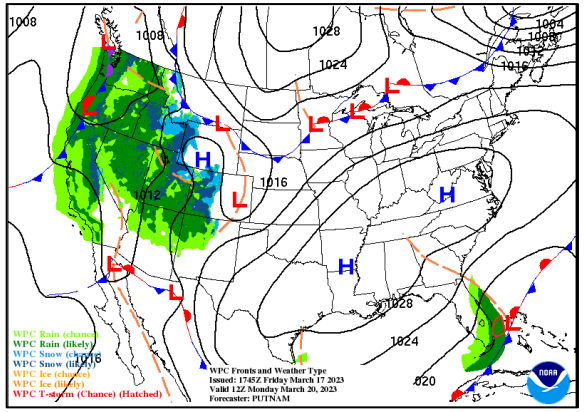
Saturday - 700 am



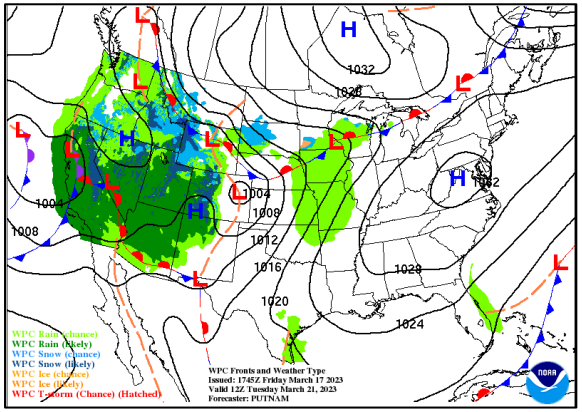
Sunday - 700 am



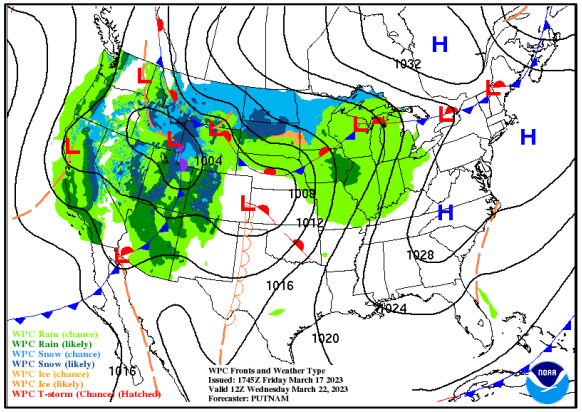
Monday - 700 am



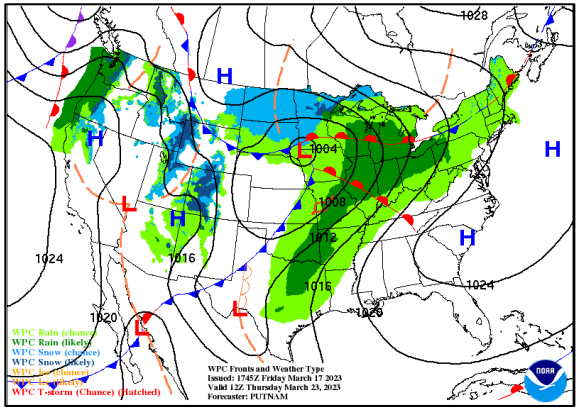
Tuesday - 700 am



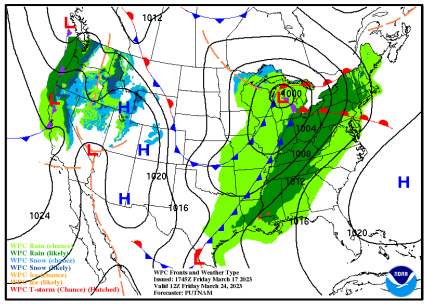
Wednesday - 700 am



Thursday - 700 am



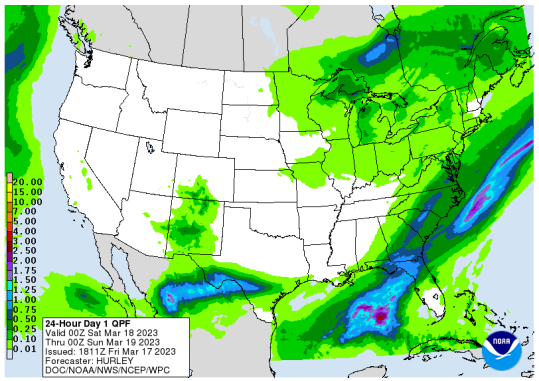
Friday - 700 am



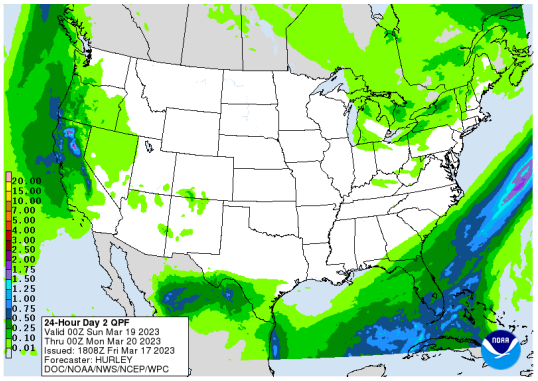
Location: https://www.wpc.ncep.noaa.gov/#

Quantitative Precipitation Forecast, 7-Day

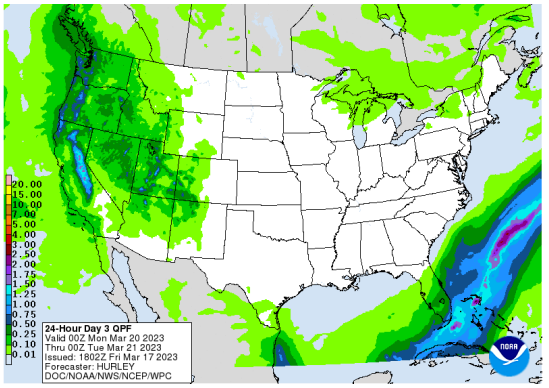
Day - 1



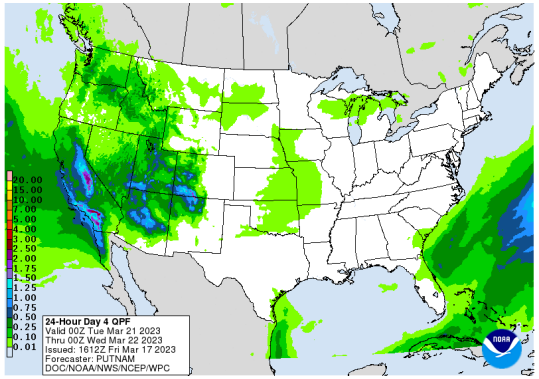
Day - 2



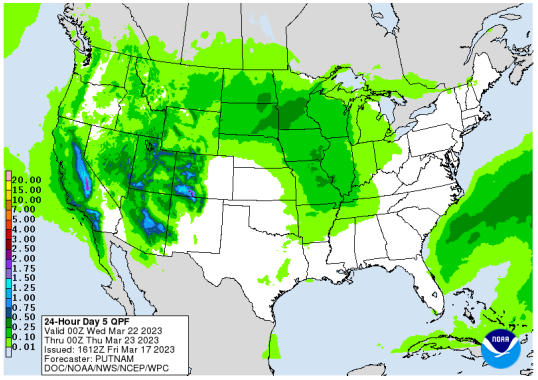
Day - 3



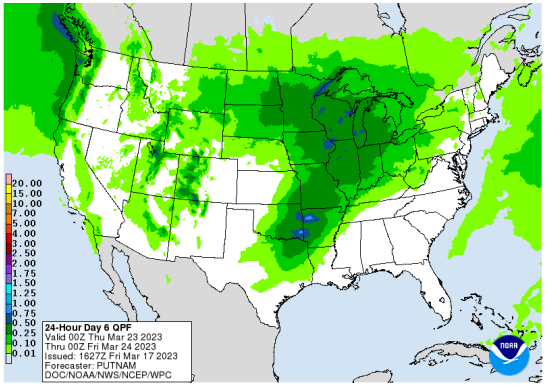
Day - 4



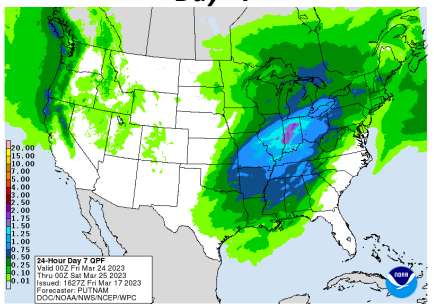
Day - 5



Day - 6

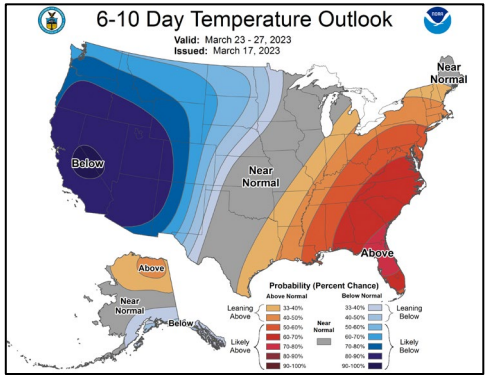


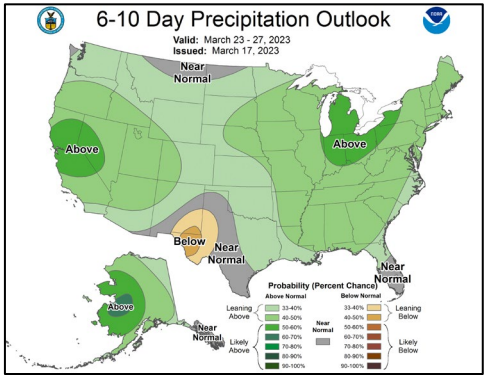
Day - 7

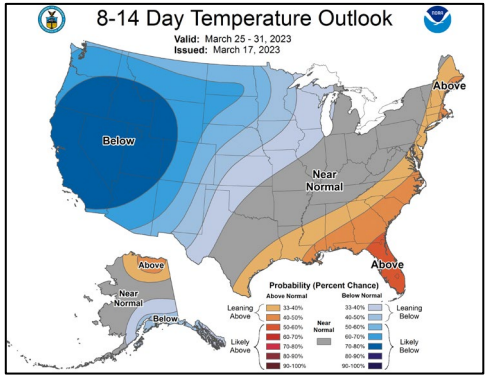


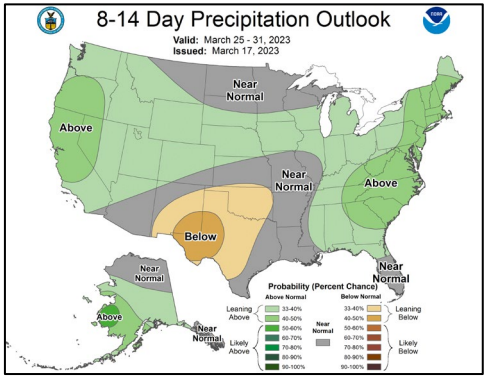
Location: https://www.wpc.ncep.noaa.gov/#

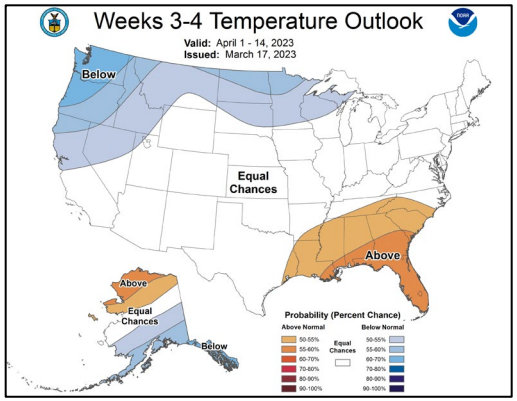
Temp & Precip Outlook
6-10 Day, 8-14 Day & Week 3-4

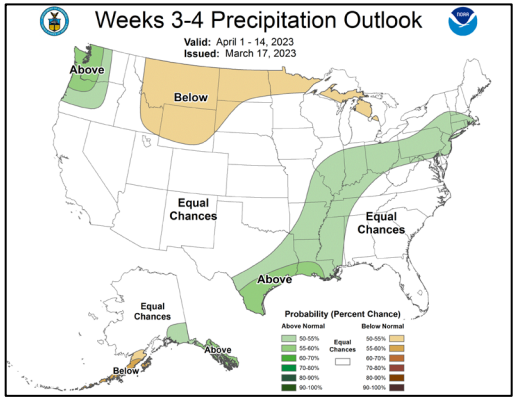








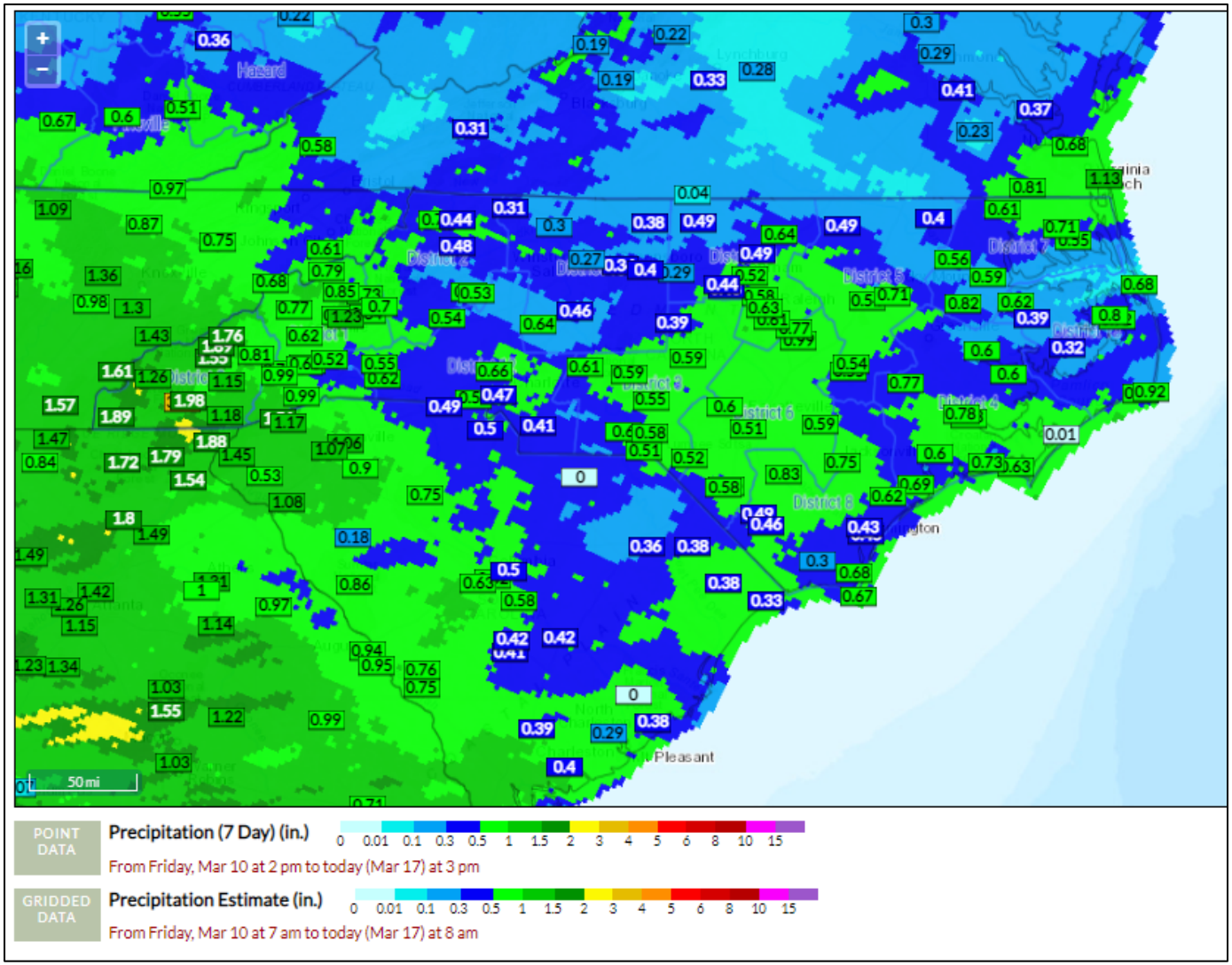




Source: https://www.cpc.ncep.noaa.gov/

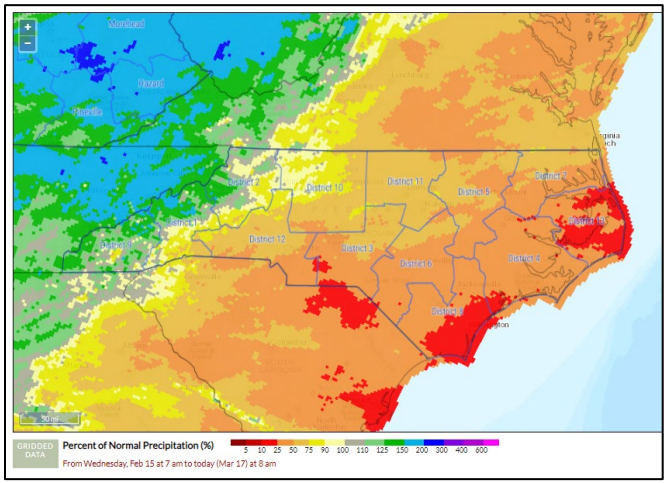
7 Day Precipitation Totals

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

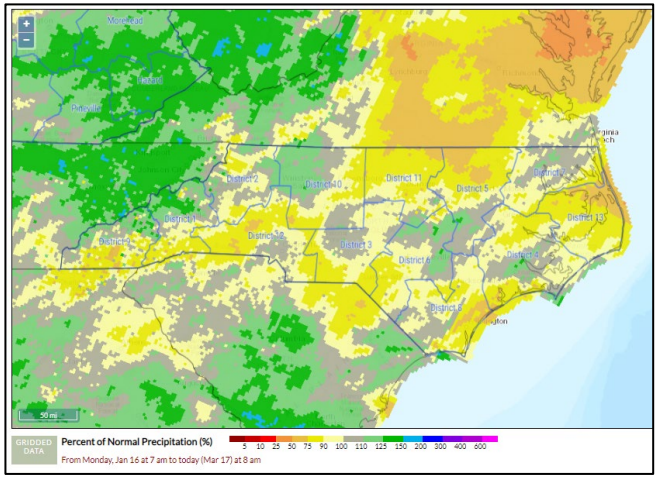


Percent of Normal Precip, *FWIP* *(Ending 0800 3/17)*

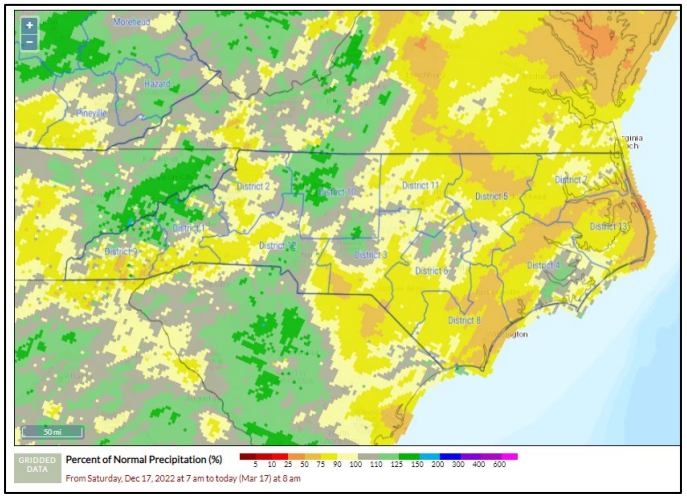
30-Day % of Normal



60-Day % of Normal

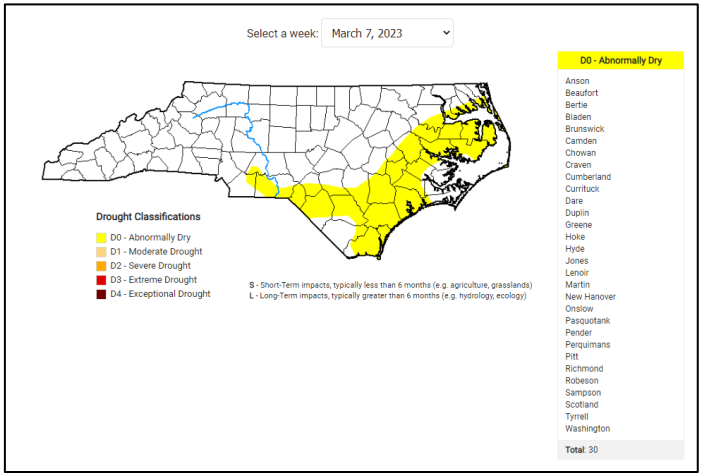


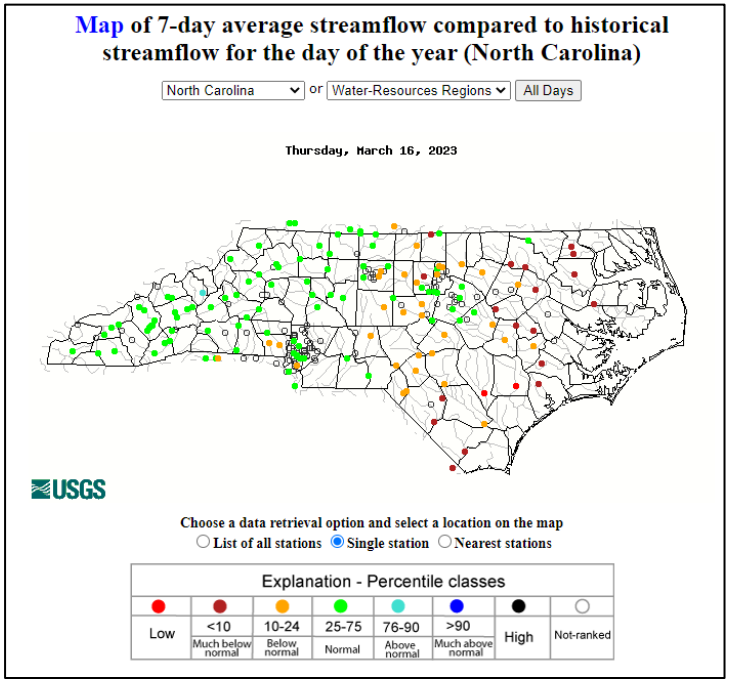
90-Day % of Normal



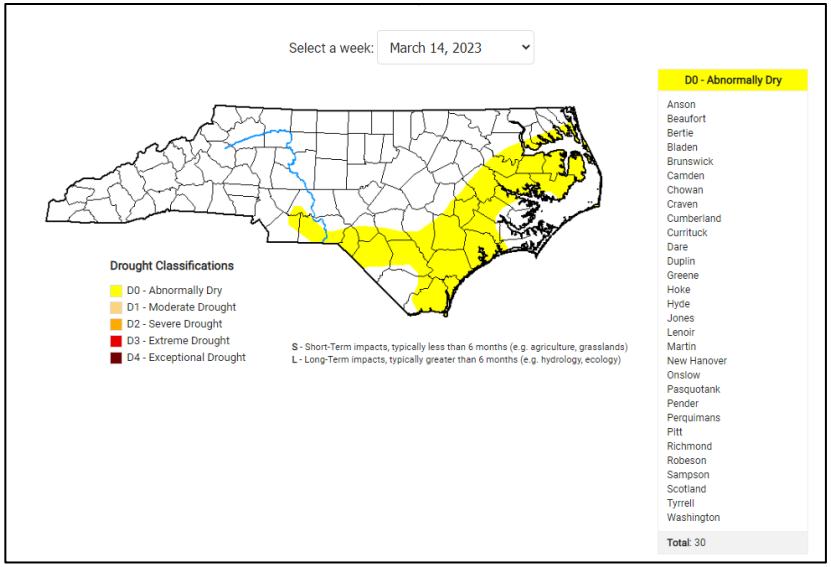
Drought Situation

Previous Week:





Current Week:

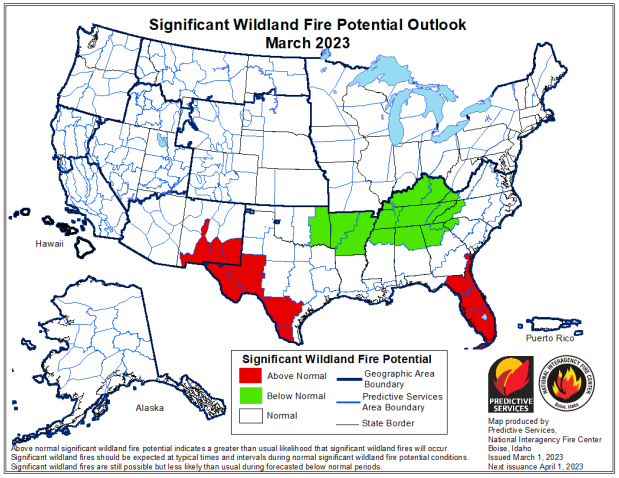


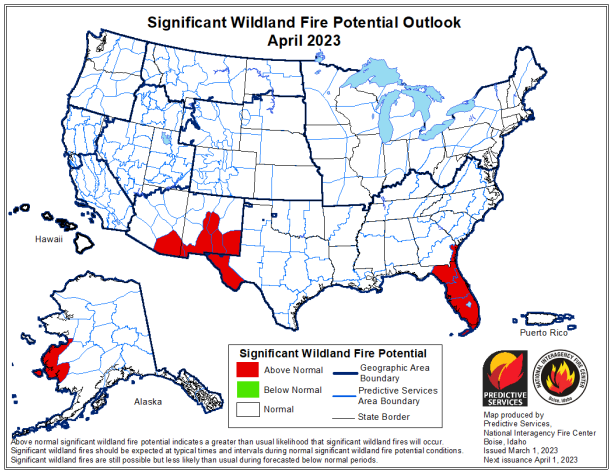
- D-0 Abnormally Dry Conditions within 30 Counties (~26% of State)
- 7-Day Stream flow averages continue to decline, creeping west.

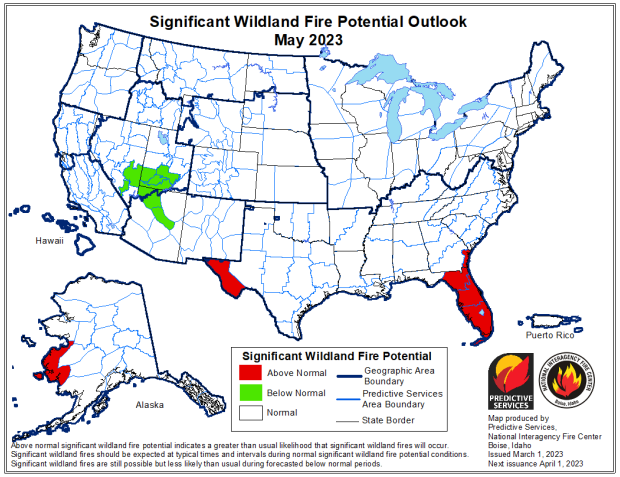
Sources: https://www.ncdrought.org/map-archives , https://waterwatch.usgs.gov/index.php?m=pa07d&r=nc&w=map

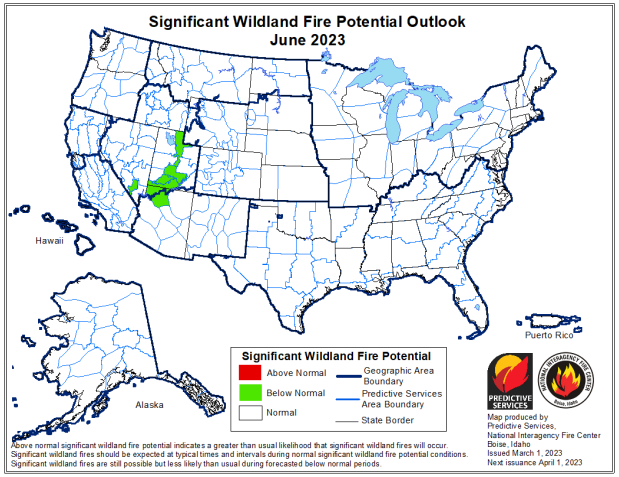
Significant Wildland Fire Potential Outlook:

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





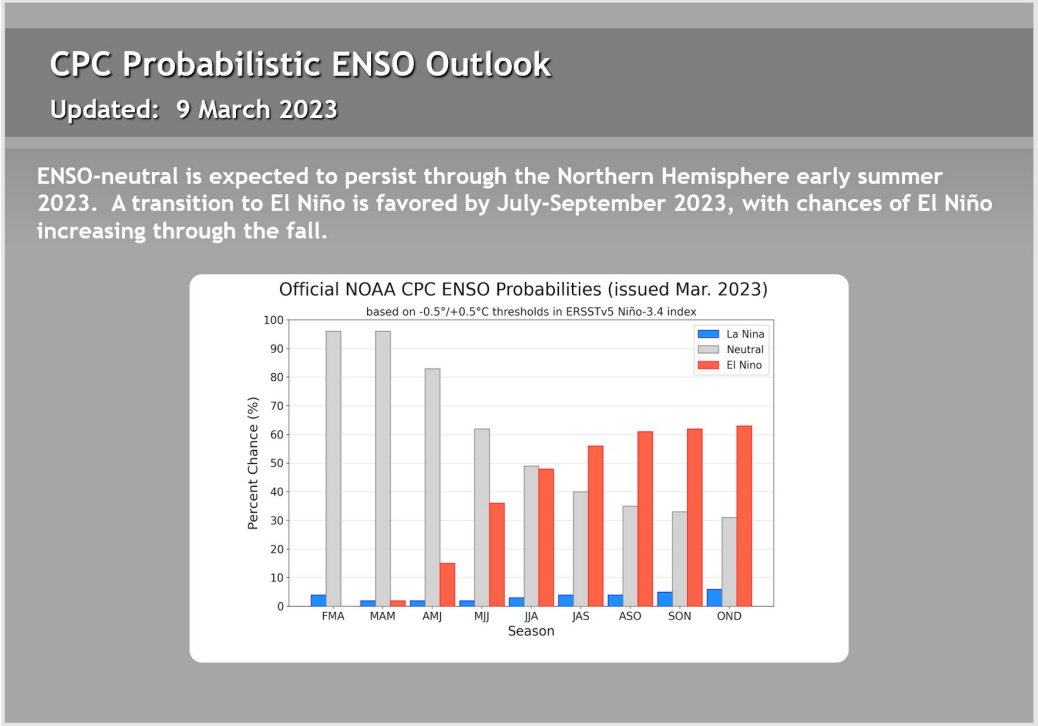




A significant fire is one that requires resources from outside the district (other than aviation). IA potential is based more on shorter term weather factors. Just a few days of dry weather can increase IA activity considerably as we have already seen this year.

ENSO Note

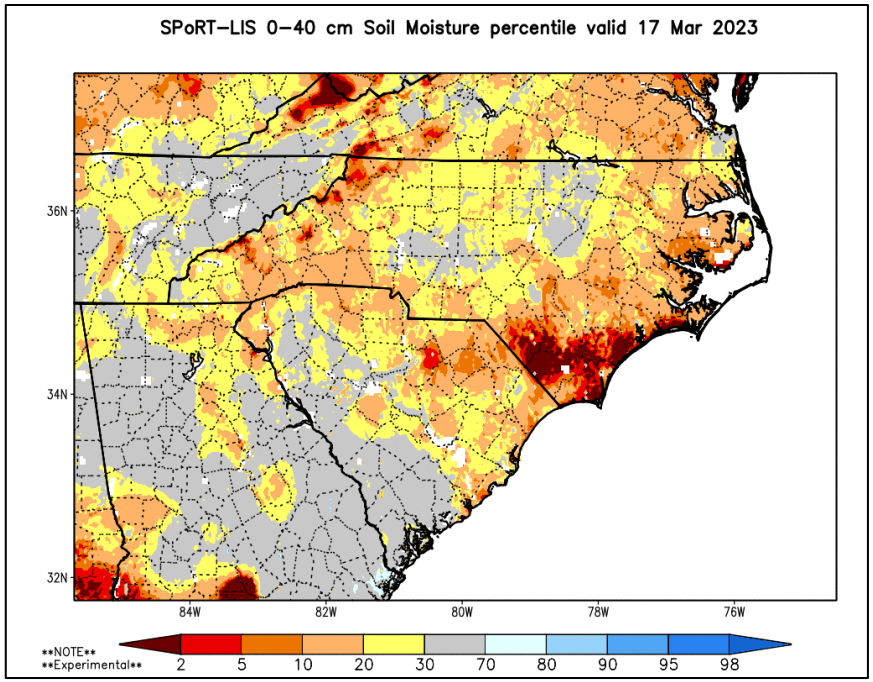
- 3/9/23 Update - La Nina has officially ended.
- ENSO-Neutral conditions expected to continue through spring and early summer of 2023. Signs point to El Nino development in late summer.



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

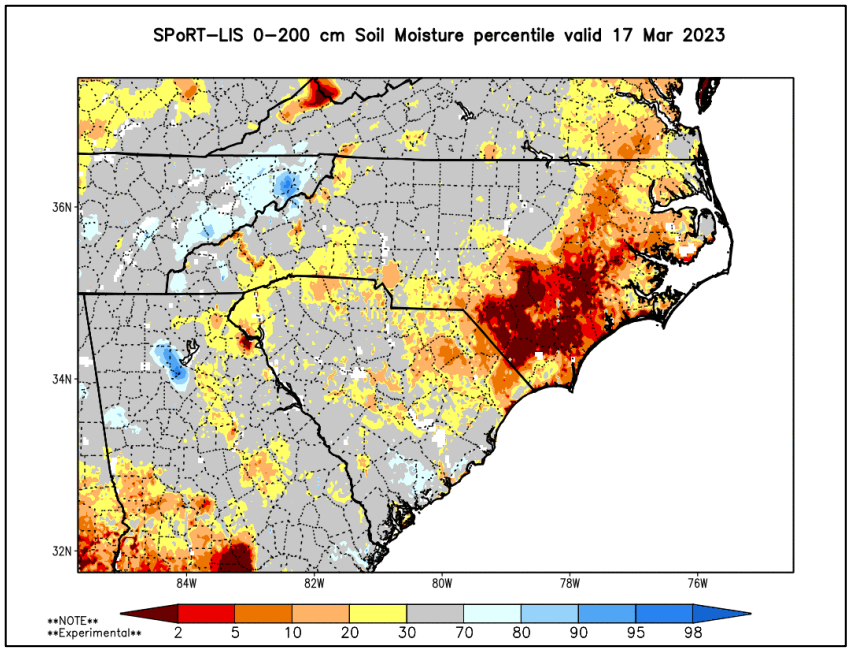
SPoRT Relative Soil Dryness

0-40 cm Depth



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

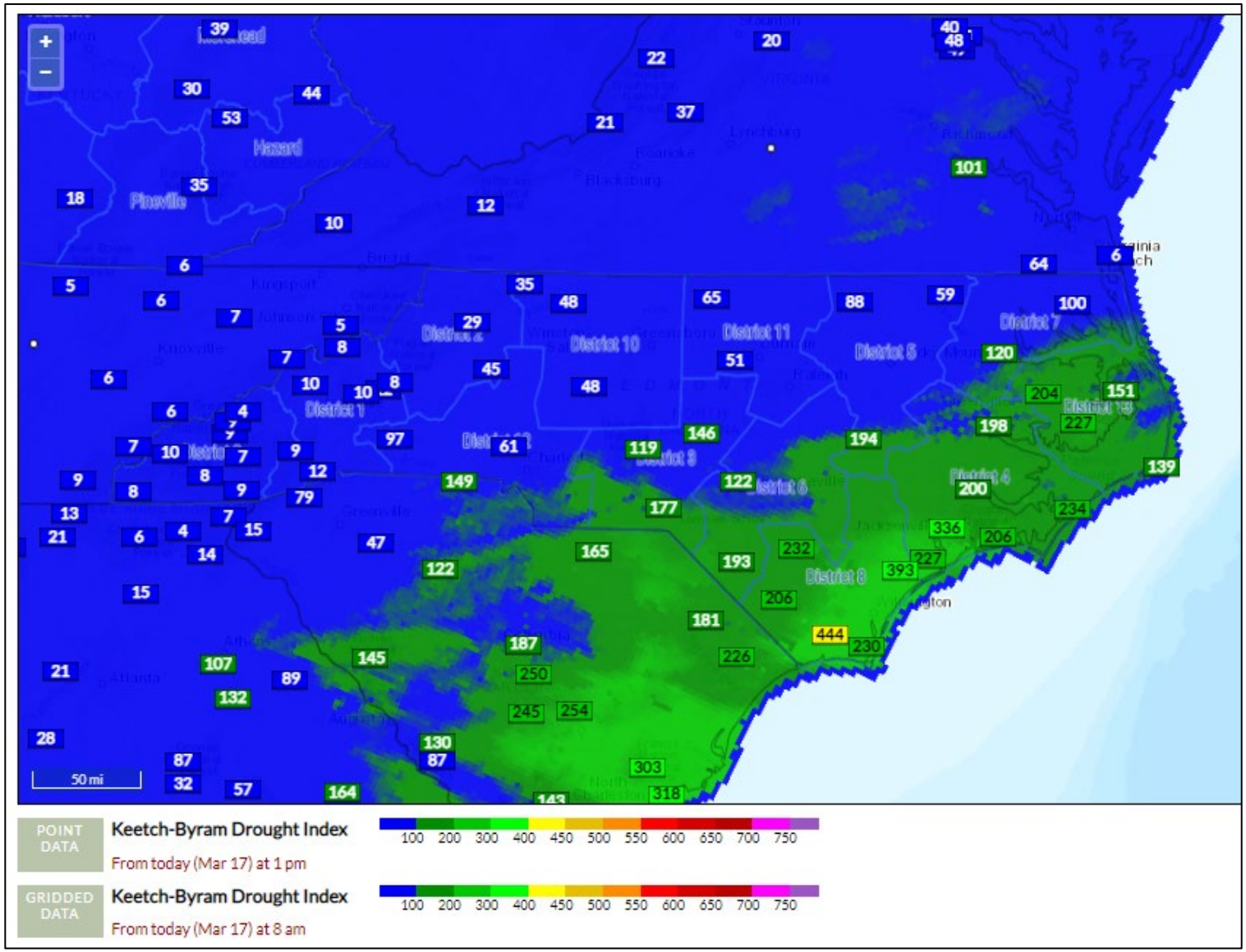
0-200 cm Depth



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

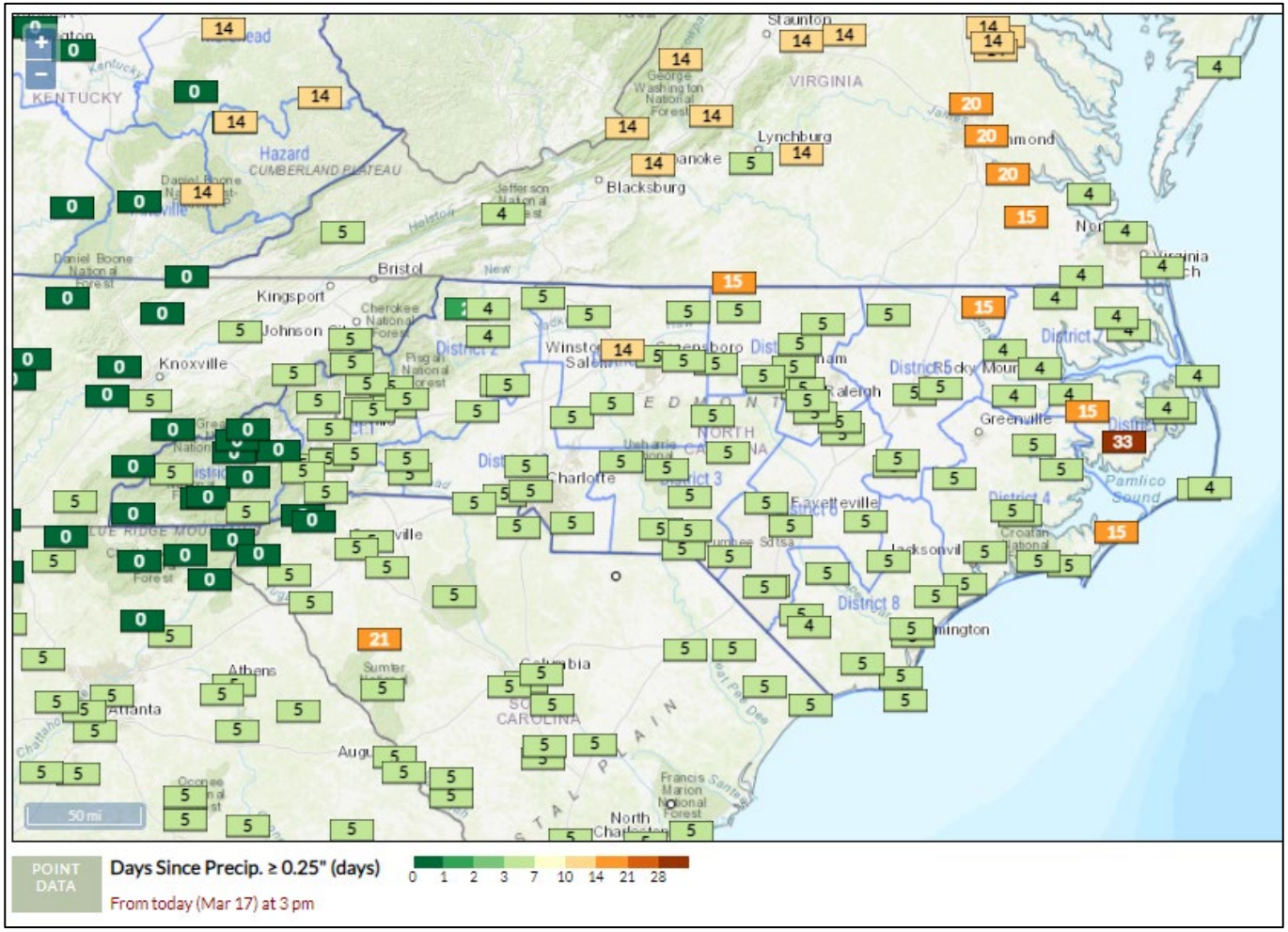
KBDI - Gridded & Station Points

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.

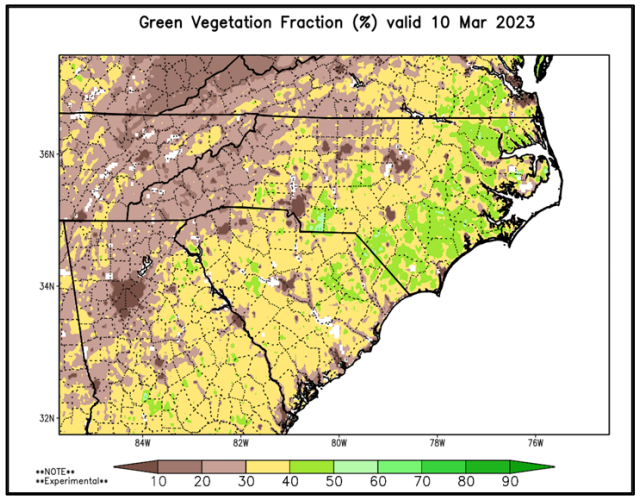


From: Fire Weather Intelligence Portal

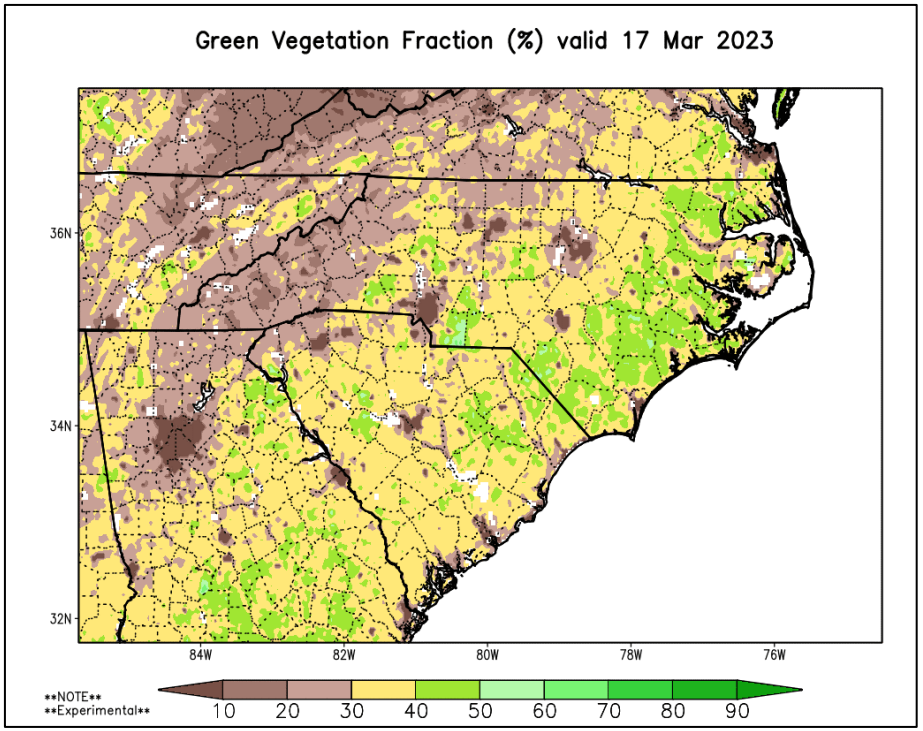
Green Fraction & Green-Up Anomaly

- 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