

# Weekly Fire Danger Assessment NCFS - Region TWO

For Time Period:

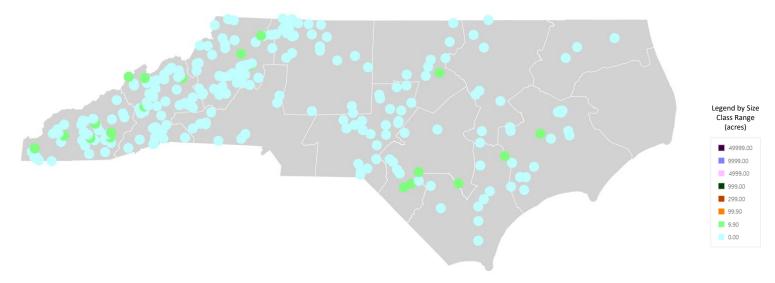
Friday (4/7/23) to Thursday (4/13/23)

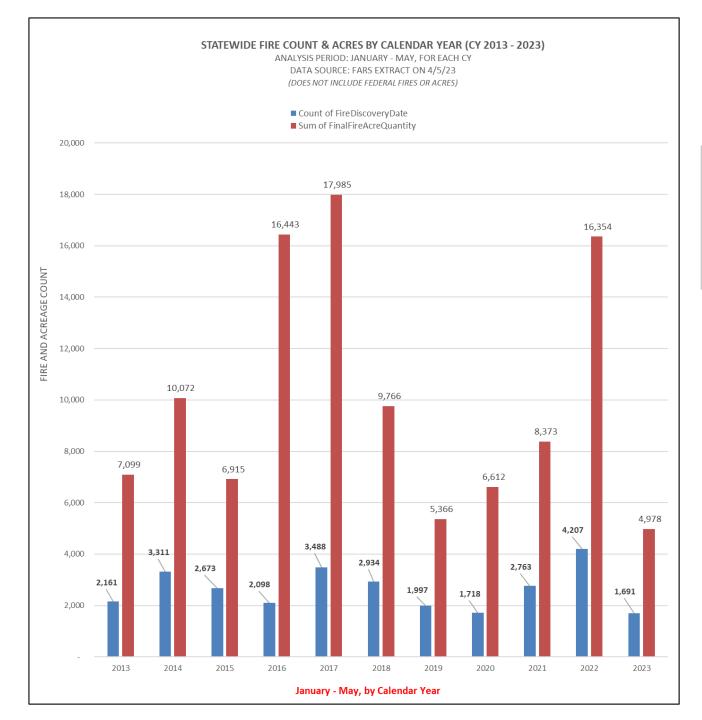
Created by: Jamie Dunbar Fire Environment Staff Forester NC Forest Service

### Past 7-Days Signal 14 Activity

NCFS - Region 2							
	Previous 7-Day Fire Activity (Does Not Include Federal Ownerships)						
Data Source:	Signal 14 Reg	Signal 14 Regional Activity Summary Report (Signal 14 is a snapshot in time)					
Date Range:		3/30 - 4/5, 2023					
	Туре	Number	Acres				
	Wildfires:		71	141.4			
Prescribed Fire	s (State & Private Lands):	:	35	2,770			

fiResponse Incident Location Map (for general context) Date Range: 3/30 – 4/5, 2023 Report: Business Intelligence Module, Response Trends Map





Note: 2023 YTD data shown should <u>not</u> be considered the Authoritative/Final Reported Values for the time period. (CY 2023 data only includes finalized fires within reporting system up to time of extract.)

# Current and Forecasted Fire Danger Conditions by FDRA



### Regional Comments for this Week – R2

- A significant amount of green-up & leaf-out should be complete within a week.
- Weekend rains should help moderate fire activity in short-term.

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From Today's Southern Area Fire Environment Outlook Discussion

• After potentially heavy rain the next few days, **most areas will experience rapid drying the next week** as expansive high pressure brings abnormally low RH to much of the Eastern U.S.

### Important notes for next slide group:

#### A. Current ERC, KBDI, 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:

- Available on the FWIP within the "Resources for NCFS" page.
- The operation link is: <u>https://products.climate.ncsu.edu/fwip/outlook.php</u>
- 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:

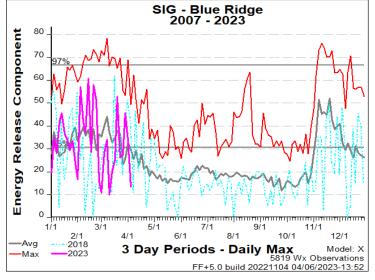
- · Low to Moderate (26th to 100th percentile); shown in blue-green
- High (11th to 25th percentile); shown in yellow
- Very High to Extreme (0 to 10th percentile); shown in red and labeled as Critical

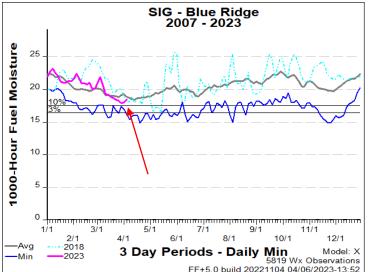
#### Other Notes:

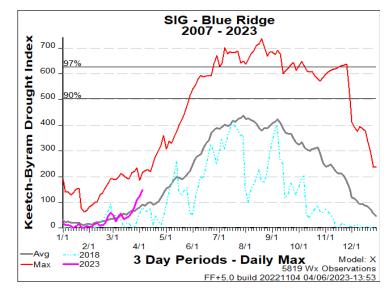
- · Read the key and notes for each FDRA, included on the outlook matrix page.
- · Forecasts are variable and can change significantly over a forecast cycle and across the landscape.
- · This is another tool for gaining better situational awareness, and should be used for general planning purposes only.
- 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.

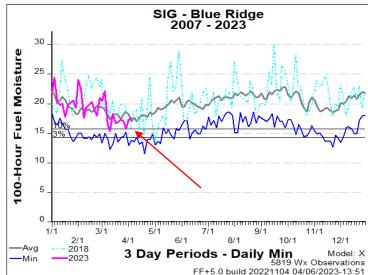
# Region Specific – Blue Ridge Escarpment











### Weekly Outlook

Blue Ridge Escarpment FDRA - General Fire Danger Forecast

For planning purposes only; forecast is subject to change

DAY	FRI 07-Apr	SAT 08-Apr	SUN 09-Apr	MON 10-Apr	TUE 11-Apr	WED 12-Apr	THU 13-Apr
Avg. Max. Temp. (°F)	55	43	56	59	66	71	75
Avg. Min. Humidity (%)	80	71	33	35	31	31	34
Avg. 20' Wind Speed (mph)	8	11	10	7	6	6	7
Avg. Wind Direction*	ENE	NE	NE	NE	SSW	SW	SSW
Avg. Probability of Precip. (%)	93	82	12	6	8	11	11
Days Since a Wetting Rain**	0.0	0.0	1.0				
Forecast ERC (Fuel Model X)	14.8	1.2	30.3	33.7	34.3	37.0	36.4
Forecast BI (Fuel Model X)	52.2	5.7	86.8	78.4	70.5	76.1	82.3
Forecast IC (Fuel Model X)	1.8	0.1	7.9	7.6	7.8	9.7	11.0
Forecast 100-Hr. FMC	24.3	27.2	27.2	23.2	19.9	17.5	16.1
Forecast 1000-Hr. FMC	19.5	20.9	21.6	21.9	22.2	21.5	20.4
KBDI	172.3						

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

#### Data Source:

- Weather forecasts come from the National Weather Service's <u>Digital Forecast Database</u>. 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 <u>NFDRS Forecast</u> product does not include precipitation amounts,
  which are used to adjust KBDI from day to day

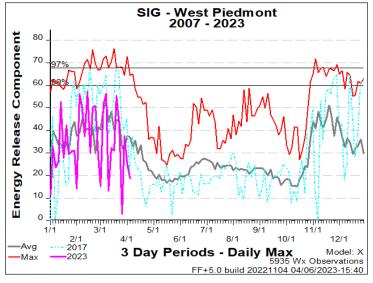
Values in the table above are averages from 3 stations in this FDRA:

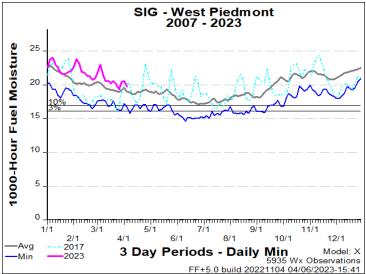
- Rendezvous Mtn. (312001)
- North Cove Pinnacle (fr1) (314301)
- Rutherford County (316302)

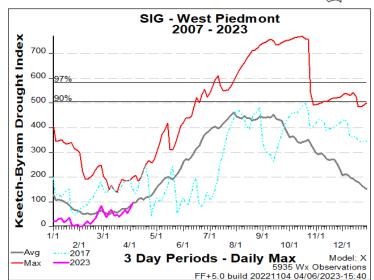
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 40°F	Between 40°F and 50°F	Greater than 50°F
Avg. Min. Humidity	Greater than 35%	Between 30% and 35%	Less than 30%
Avg. 20' Wind Speed	Less than 2 mph	Between 2 mph and 4 mph	Greater than 4 mph
Avg. Wind Direction*	erations and/or structures threatened.		
Days Since a Wetting Rain**	A wetting rain is defin	ed as 0.10" or greater. This is an avera	age 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 whe and <b>season</b>	en determining fire dans	ger: sky conditions, precipitation a	mount, number of days since rain,

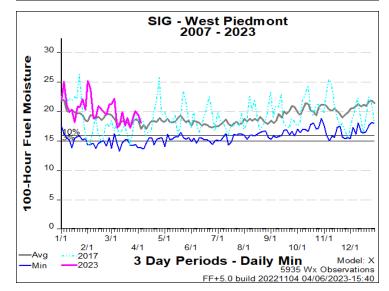
# Region Specific – Western Piedmont











#### 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	FRI 07-Apr	SAT 08-Apr	SUN 09-Apr	MON 10-Apr	TUE 11-Apr	WED 12-Apr	THU 13-Apr
Avg. Max. Temp. (°F)	56	46	58	62	69	75	78
Avg. Min. Humidity (%)	85	83	42	38	34	35	38
Avg. 20' Wind Speed (mph)	11	10	13	9	6	6	7
Avg. Wind Direction*	NE	NE	NE	NE	Е	WSW	SW
Avg. Probability of Precip. (%)	95	90	19	5	8	12	12
Days Since a Wetting Rain**	0.0	0.0	1.0				
Forecast ERC (Fuel Model X)	14.4	0.0	17.1	25.6	23.0	27.0	28.6
Forecast BI (Fuel Model X)	56.8	0.0	65.5	72.3	51.2	62.3	68.7
Forecast IC (Fuel Model X)	3.1	0.0	5.2	6.0	4.6	6.9	8.3
Forecast 100-Hr. FMC	21.7	24.0	26.4	26.0	23.3	21.0	19.6
Forecast 1000-Hr. FMC	22.3	22.5	22.4	22.4	22.4	22.5	22.6
KBDI	117.7						

#### Data Source:

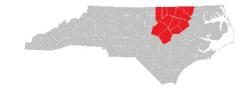
- Weather forecasts come from the National Weather Service's <u>Digital Forecast Database</u>. The wind speed and direction, and probability of precipitation, are calculated as averages of the 1 am, 7 am, 1 pm, and 7 pm forecasts. The 20-foot wind speed is estimated from the 10-meter forecast using the 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 <u>NFDRS Forecast</u> product does not include precipitation amounts,
  which are used to adjust KBDI from day to day

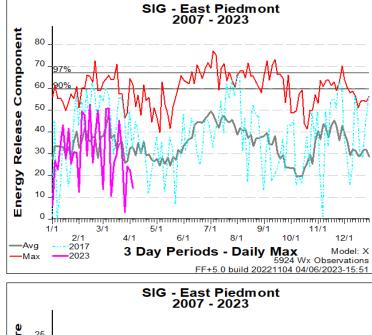
Values in the table above are averages from 3 stations in this FDRA:

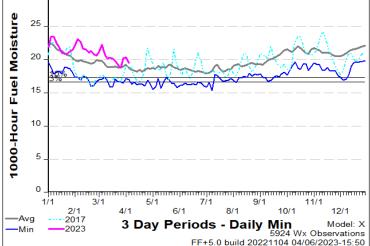
- Duke Forest (312501)
- Lexington (314602)
- Mt. Island Lake (316602)

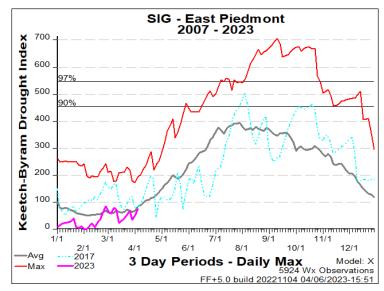
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!			
Avg. Max. Temp.	Less than 40°F	Between 40°F and 50°F	Greater than 50°F			
Avg. Min. Humidity	Greater than 35%	Between 30% and 35%	Less than 30%			
Avg. 20' Wind Speed	Less than 2 mph	Between 2 mph and 4 mph	Greater than 4 mph			
Avg. Wind Direction*	Criticality of wind dire	ection is highly dependent on burn ope	erations and/or structures threatened.			
Days Since a Wetting Rain**	A wetting rain is defir	ed as 0.10" or greater. This is an avera	age 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						

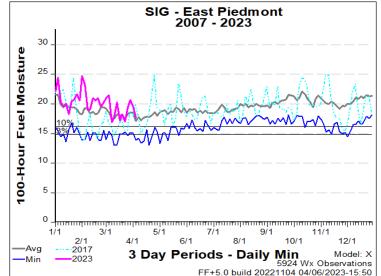
# Region Specific – Eastern Piedmont











#### 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	FRI 07-Apr	SAT 08-Apr	SUN 09-Apr	MON 10-Apr	TUE 11-Apr	WED 12-Apr	THU 13-Apr
Avg. Max. Temp. (°F)	54	49	58	63	69	75	79
Avg. Min. Humidity (%)	85	86	47	40	37	36	39
Avg. 20' Wind Speed (mph)	10	10	15	11	6	7	8
Avg. Wind Direction*	ENE	NE	NE	NE	ENE	WSW	SW
Avg. Probability of Precip. (%)	90	91	25	5	8	11	10
Days Since a Wetting Rain**	0.0	0.0	0.8				
Forecast ERC (Fuel Model X)	13.4	2.0	12.7	19.4	18.7	20.9	21.0
Forecast BI (Fuel Model X)	40.5	6.2	47.6	46.9	35.9	40.1	41.5
Forecast IC (Fuel Model X)	2.5	0.2	3.5	4.0	3.1	4.6	5.3
Forecast 100-Hr. FMC	21.5	24.2	26.6	26.0	23.5	21.2	19.8
Forecast 1000-Hr. FMC	21.7	21.8	21.7	21.7	21.8	22.1	22.1
KBDI	98.5						

#### Data Source:

- Weather forecasts come from the National Weather Service's <u>Digital Forecast Database</u>. The wind speed and
  direction, and probability of precipitation, are calculated as averages of the 1am, 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 <u>NFDRS Forecast</u> product does not include precipitation amounts,
  which are used to adjust KBDI from day to day

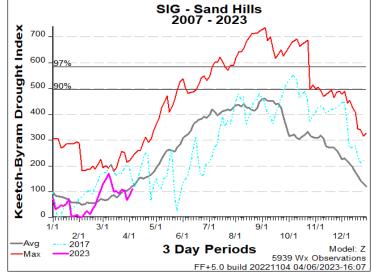
Values in the table above are averages from 4 stations in this FDRA:

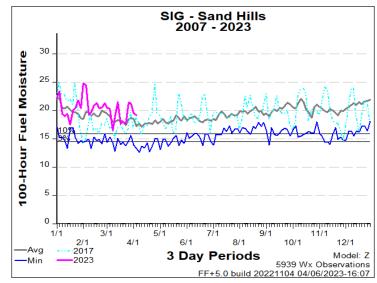
- Oxford Tobacco Research Stn (310841)
- Upper Coastal Plain Res Stn (312940)
- Lake Wheeler Rd Field Lab (314941)
- Central Crops Research Station (317441)

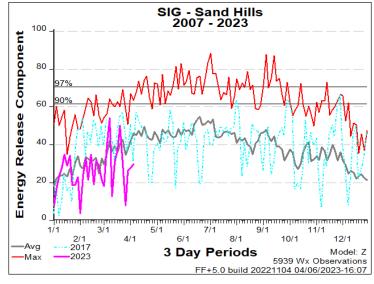
Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!				
Less than 50°F	Between 50°F and 60°F	Greater than 60°F				
Greater than 40%	Between 35% and 40%	Less than 35%				
Less than 10 mph	Between 10 mph and 15 mph	Greater than 15 mph				
Criticality of wind dire	ction is highly dependent on burn ope	rations and/or structures threatened.				
A wetting rain is defined as 0.10" or greater. This is an average of the FDRA stations noted above.						
Less than 54.2	Between 54.2 and 61.7	Greater than 61.7				
Less than 109.3	Between 109.3 and 130.5	Greater than 130.5				
Less than 12.7	Between 12.7 and 16.8	Greater than 16.8				
Greater than 17.6%	Between 16.4% and 17.6%	Less than 16.4%				
Greater than 18.3%	Between 17.5% and 18.3%	Less than 17.5%				
Less than 337	Between 337 and 460	Greater than 460				
	Burning Conditions Less than 50°F Greater than 40% Less than 10 mph Criticality of wind dire A wetting rain is defin Less than 54.2 Less than 109.3 Less than 12.7 Greater than 17.6% Greater than 18.3%	Low to Moderate Burning Conditions         High CAUTION           Less than 50°F         Between 50°F and 60°F           Greater than 40%         Between 35% and 40%           Less than 10 mph         Between 10 mph and 15 mph           Criticality of wind direction is highly dependent on burn ope           A wetting rain is defined as 0.10° or greater. This is an avera           Less than 54.2         Between 54.2 and 61.7           Less than 109.3         Between 10.9.3 and 130.5           Less than 12.7         Between 12.7 and 16.8           Greater than 17.6%         Between 14.4% and 17.6%           Greater than 18.3%         Between 17.5% and 18.3%				

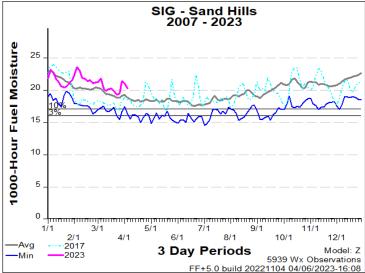
# Region Specific – Sandhills











#### 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	FRI 07-Apr	SAT 08-Apr	SUN 09-Apr	MON 10-Apr	TUE 11-Apr	WED 12-Apr	THU 13-Apr
Avg. Max. Temp. (°F)	60	47	58	63	68	75	79
Avg. Min. Humidity (%)	82	88	50	35	33	33	36
Avg. 20' Wind Speed (mph)	10	12	16	12	7	7	8
Avg. Wind Direction*	ENE	NE	NE	NE	NE	WSW	SSE
Avg. Probability of Precip. (%)	91	100	31	6	9	13	20
Days Since a Wetting Rain**	0.0	0.0	0.3				
Forecast ERC (Fuel Model Z)	17.8	0.0	9.0	22.9	22.4	27.2	29.4
Forecast BI (Fuel Model Z)	32.2	0.0	28.6	38.1	31.0	33.2	40.1
Forecast IC (Fuel Model Z)	3.9	0.0	4.1	7.2	5.4	7.5	10.3
Forecast 100-Hr. FMC	22.9	24.7	26.8	26.4	23.7	21.6	20.2
Forecast 1000-Hr. FMC	22.2	22.4	22.4	22.5	22.6	22.8	22.8
KBDI	140.0						

#### Data Source:

- Weather forecasts come from the National Weather Service's <u>Digital Forecast</u> 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 <u>NFDRS Forecast</u> product does not include precipitation amounts,
  which are used to adjust KBDI from day to day

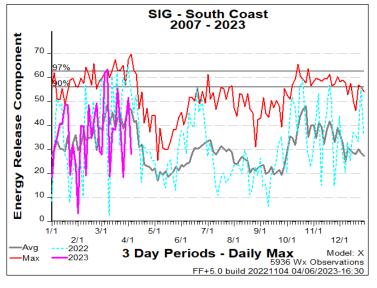
Values in the table above are averages from 3 stations in this FDRA:

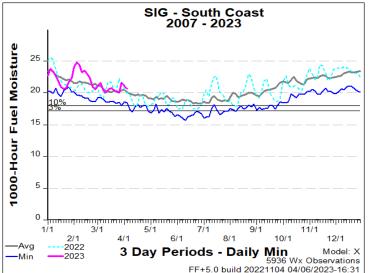
- Sandhills Research Station (317040)
- Rockingham (318202)
- Fort Bragg (318503)

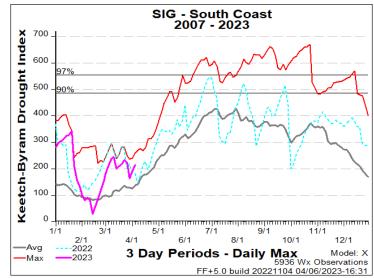
KEY	Low to Moderate Burning Conditions	Burning Conditions Can be High CAUTION	Burning Conditions Can be Critical WATCH OUT!
Avg. Max. Temp.	Less than 50°F	Between 50°F and 60°F	Greater than 60°F
Avg. Min. Humidity	Greater than 40%	Between 30% and 40%	Less than 30%
Avg. 20' Wind Speed	Less than 4 mph	Between 4 mph and 8 mph	Greater than 8 mph
Avg. Wind Direction*	Criticality of wind dire	ection is highly dependent on burn ope	rations and/or structures threatened.
Days Since a Wetting Rain**	A wetting rain is defin	ed as 0.10" or greater. This is an avera	ge 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 wh and <b>season</b>	en determining fire dan	ger: sky conditions, precipitation ar	mount, number of days since rain,

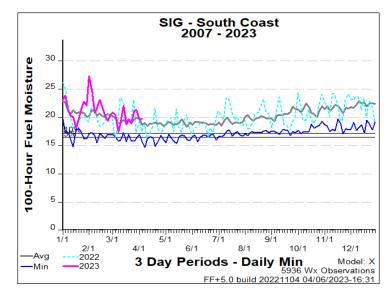
# Region Specific – South Coast











#### Weekly Outlook

#### 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	FRI 07-Apr	SAT 08-Apr	SUN 09-Apr	MON 10-Apr	TUE 11-Apr	WED 12-Apr	THU 13-Apr
Avg. Max. Temp. (°F)	65	52	58	65	70	75	78
Avg. Min. Humidity (%)	77	83	57	46	39	39	42
Avg. 20' Wind Speed (mph)	9	13	16	12	7	5	6
Avg. Wind Direction*	E	NE	NE	NE	NE	SSW	S
Avg. Probability of Precip. (%)	75	96	44	10	10	12	15
Days Since a Wetting Rain**	0.4	0.0	0.0				
Forecast ERC (Fuel Model X)	20.1	5.2	8.1	19.1	20.2	21.4	22.8
Forecast BI (Fuel Model X)	64.8	27.9	35.1	53.8	44.0	41.6	47.6
Forecast IC (Fuel Model X)	4.0	0.7	1.6	3.9	3.7	4.1	5.3
Forecast 100-Hr. FMC	19.1	21.0	23.3	23.8	22.0	20.7	19.7
Forecast 1000-Hr. FMC	22.5	22.6	22.6	22.6	22.6	22.8	22.8
KBDI	254.9						

#### Data Source:

- Weather forecasts come from the National Weather Service's <u>Digital Forecast Database</u>. 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 <u>NFDRS Forecast</u> 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 threatene							
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 whe	en determining fire dan	ger: sky conditions, precipitation ar	mount, number of days since rain,				

# 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							
Date Day of Week	Blue Ridge Escarp	Western Piedmont	Eastern Piedmont	Sandhills	South Coast				
7-Apr	Fri	Low/Mod	Low/Mod	Low/Mod	Low/Mod	Low/Mod			
8-Apr	Sat	Low/Mod	Low/Mod	Low/Mod	Low/Mod	Low/Mod			
9-Apr	Sun	Low/Mod	Low/Mod	Low/Mod	Low/Mod	Low/Mod			
10-Apr	Mon	Low/Mod	Low/Mod	Low/Mod	Low/Mod	Low/Mod			
11-Apr	Tues	Low/Mod	Low/Mod	Low/Mod	Low/Mod	Low/Mod			
12-Apr	Wed	High	Low/Mod	Low/Mod	Low/Mod	Low/Mod			
13-Apr	Thurs	High	Low/Mod	Low/Mod	Low/Mod	Low/Mod			

### Weather Outlook Discussion

**Raleigh NWS (Fire Weather Planning Forecast - PM):** 

National Weather Service Raleigh NC 353 PM EDT Thu Apr 6 2023

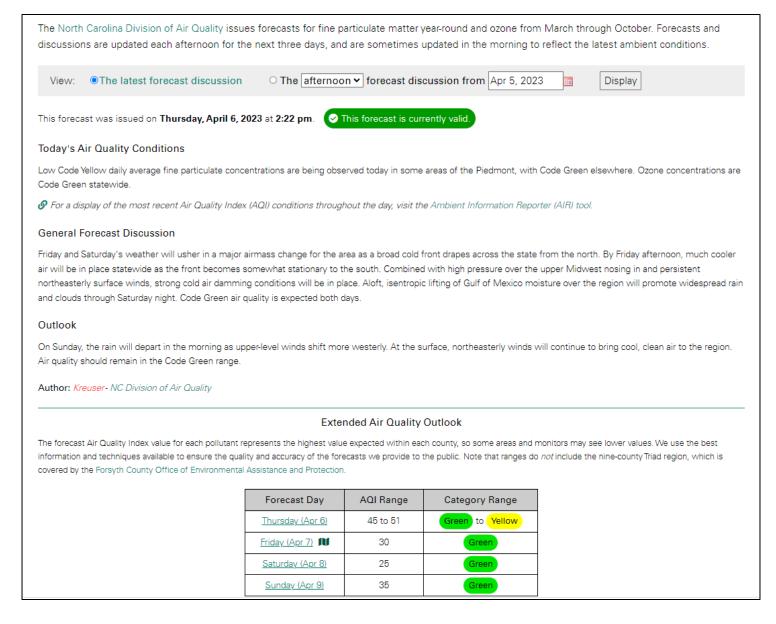
.DISCUSSION...

Unseasonably warm, southwesterly flow will result ahead of a cold front that will move southeast across the region tonight. Chilly and damp high pressure, and associated cold air damming conditions, will follow for Friday through Saturday night.

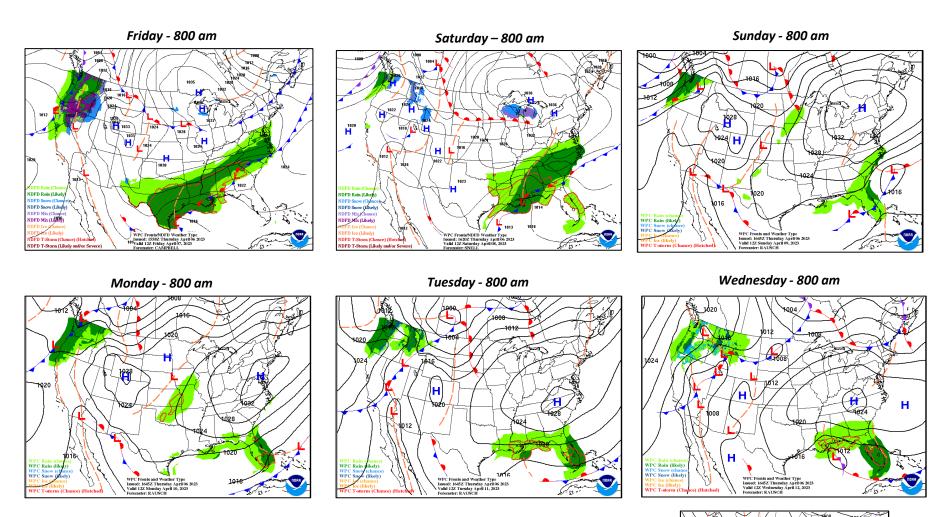
.FORECAST FOR DAYS 3 THROUGH 7...

.SUNDAY...Mostly cloudy. Rain likely. Lows in the upper 30s. Highs in the upper 50s. Northeast winds 15 to 20 mph. .MONDAY...Mostly clear. Lows in the upper 30s. Highs in the lower 60s. Northeast winds 10 to 15 mph. .TUESDAY...Mostly clear. Lows in the upper 30s. Highs in the upper 60s. North winds 5 to 10 mph. .WEDNESDAY...Mostly clear. Lows in the mid 40s. Highs in the mid 70s. Northwest winds 5 to 10 mph. .THURSDAY...Mostly clear. Lows around 50. Highs in the upper 70s. North winds 5 to 10 mph.

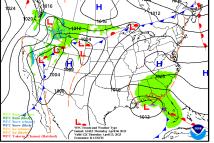
### NC DAQ Air Quality Forecast - Next Three Days



### WPC Forecasted Surface Fronts & Sea-Level Pressures

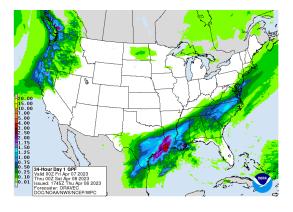


Thursday - 800 am



### Quantitative Precipitation Forecast, 7-Day

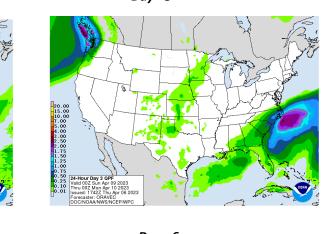




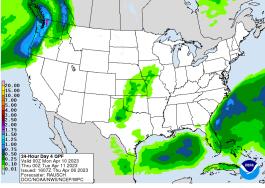
20.00 15.00 10.00 7.00 5.00 4.00 3.00 2.50 1.75 1.50 1.25 1.00 0.75 0.05 0.25 0.01 24-Hour Day 2 OPF Valid 002 Sat Apr 08 2023 Thru 002 Sun Apr 09 2023 Issued: 17442 Thu Apr 06 2023 Forecaster: ORAVEC DOC/NOAA/NWS/NCEP/WPC

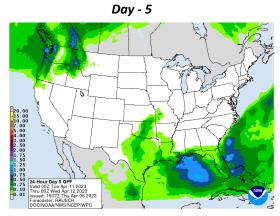
Day - 2

Day - 3

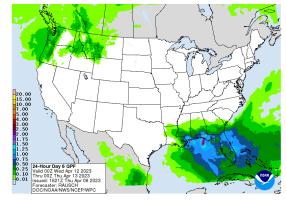


Day - 4

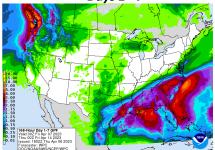


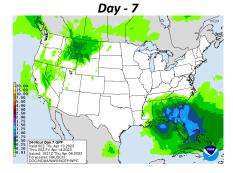


Day - 6

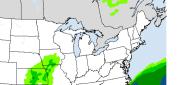


Days 1 - 7





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



# Temp & Precip Outlook 6-10 Day, 8-14 Day & Seasonal (Apr/May/June)

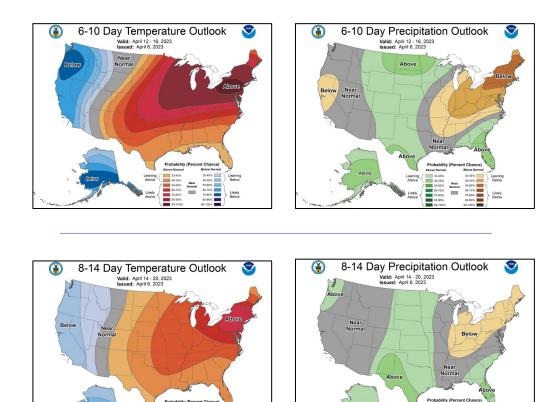
33-40%

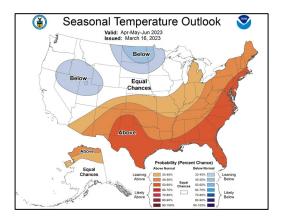
0.50%

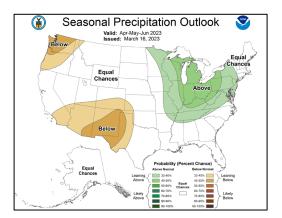
Likely Below

40.50

Near 50-80% 50-90% 50-90%







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

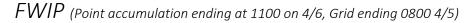
Leaning Above 33-40%

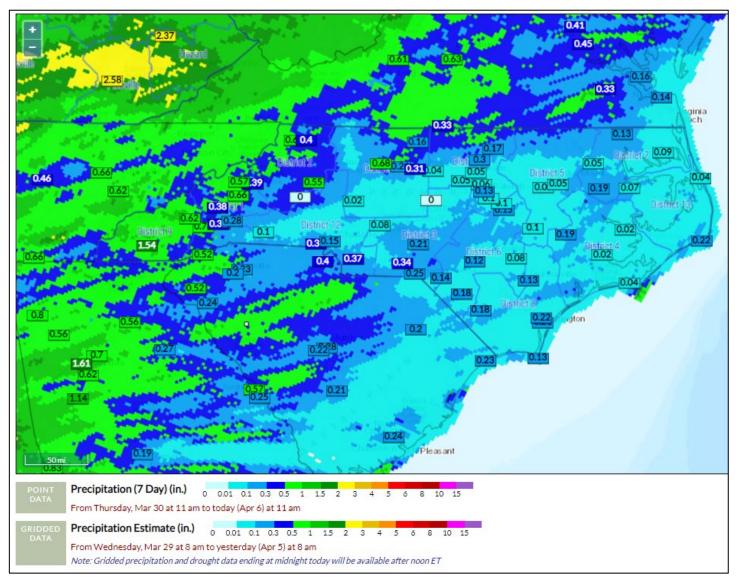
49-50% Near Normal 33-40% 33-40% 33-40% 30-50\% 30-50\% 30

Leaning Below

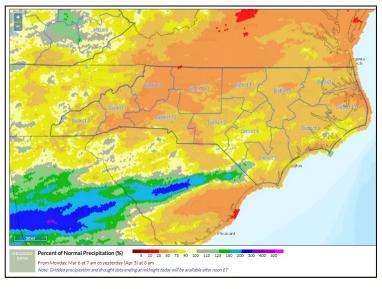
Likely

### 7 Day Precipitation Totals



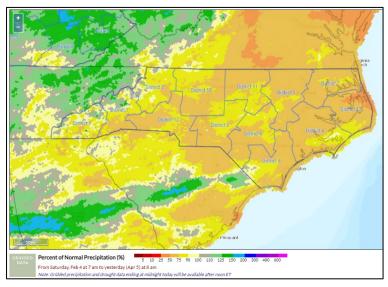


### Percent of Normal Precip, FWIP (Ending 0800 4/5)

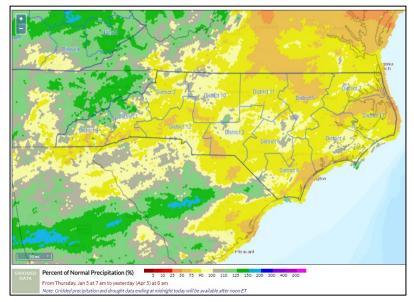


#### 30-Day % of Normal

### 60-Day % of Normal

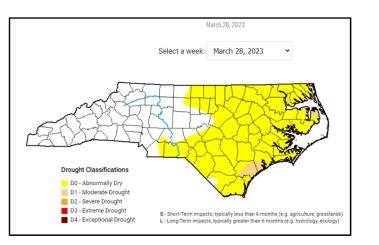


90-Day % of Normal

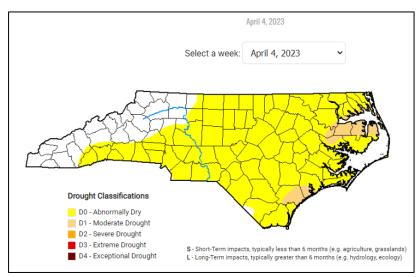


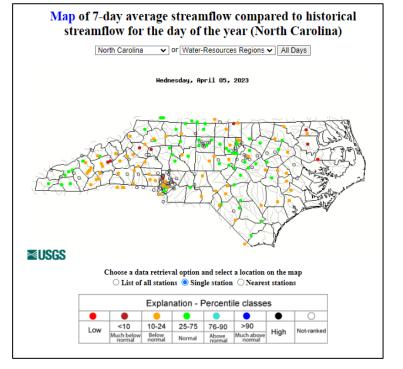
### **Drought Situation**

### Previous Week:



### Current Week:

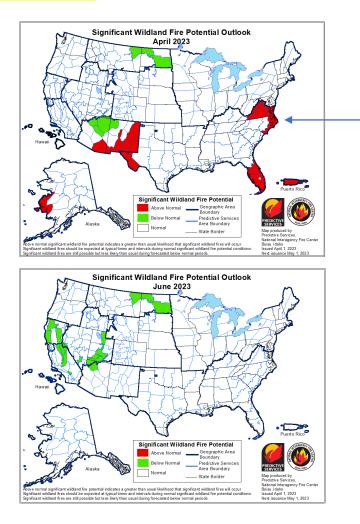


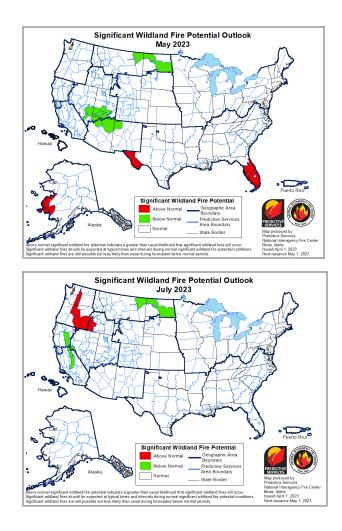


- D-0 Abnormally Dry Conditions Expansion (~75% of State)
- D-1 Moderate Drought in Several Counties. (~5% of State)
- 7-Day Stream flow averages continue to decline, note decline in both East and West.
- Example: 7-Day average for the Van Swamp gage in Washington County at < 3<sup>rd</sup> Percentile of flow yesterday (see above)

### Significant Wildland Fire Potential Outlook:

Updated 4/1/23 – Next Update on 5/1/23

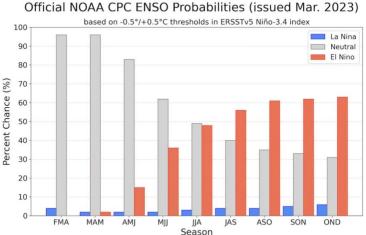




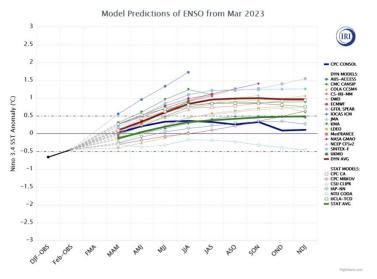
A significant fire is one that requires resources from outside the district (other than aviation). IA potential is based more on shorter term weather factors. Just a few days of dry weather can increase IA activity considerably as we have already seen this year.

### ENSO Note

# ENSO (El Niño-Southern Oscillation)



La Niña has ended, and ENSO-neutral conditions are expected to continue through the Northern Hemisphere spring and early summer 2023. There is a chance of El Niño forming during the summer, with at least a 60% chance by the August-October period.

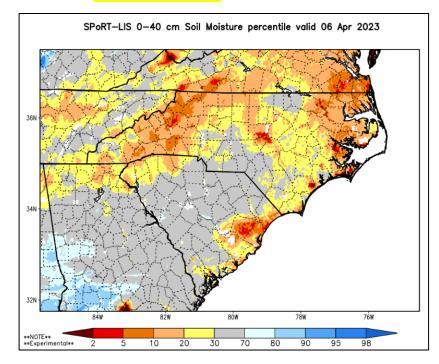


https://iri.columbia.edu/ourexpertise/climate/forecasts/enso/current/?enso\_tab=enso-sst\_table

https://www.cpc.ncep.noaa.gov/products/analysis\_monitoring/enso\_advisory/ensodisc.shtml

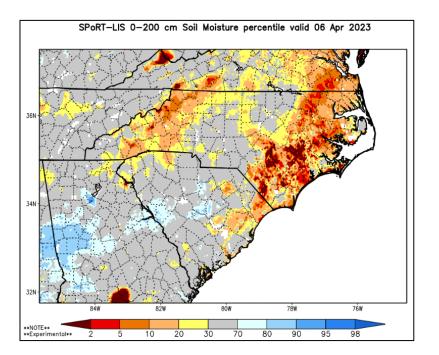
## SPoRT Relative Soil Dryness

### <mark>0-40 cm Depth</mark>



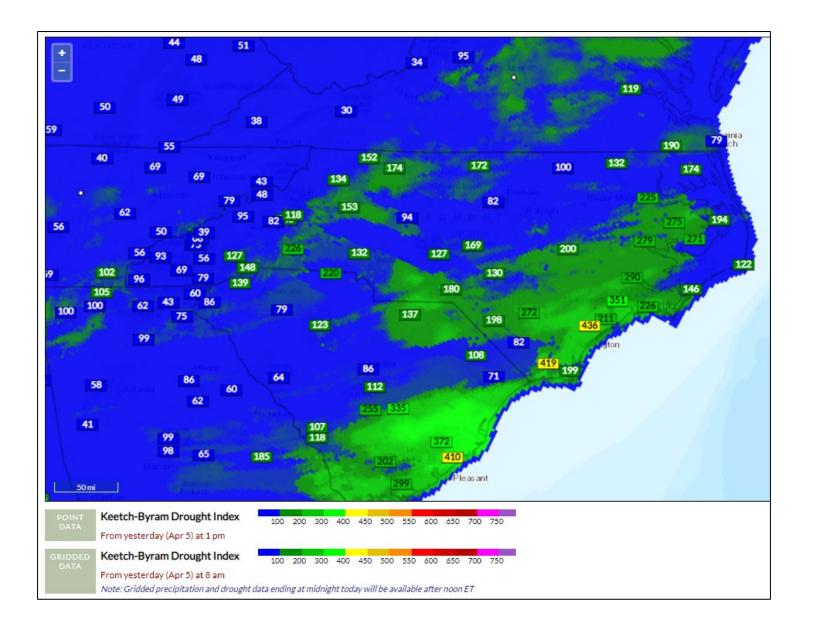
• Overall Modeled Drying Trend Continues

### <mark>0-200 cm Depth</mark>



### **KBDI - Gridded & Station Points**

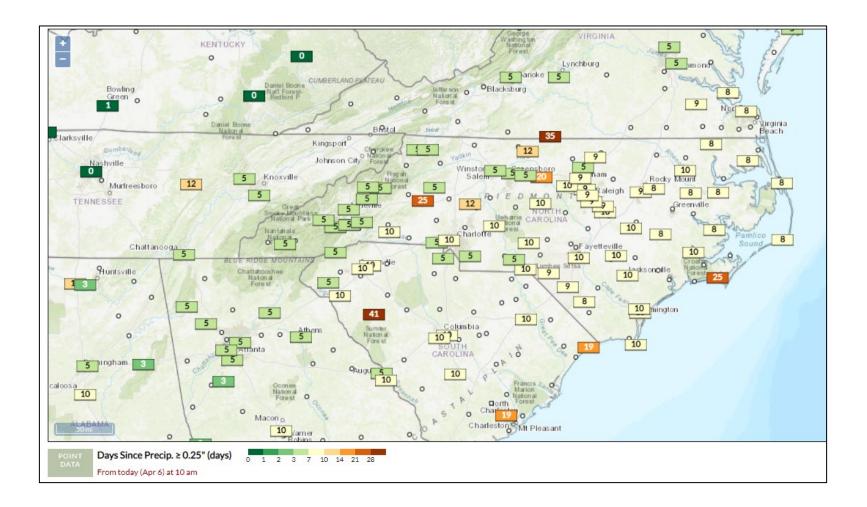
FWIP (Point calculation from 1300 on 4/5, Grid ending 0800 4/5)



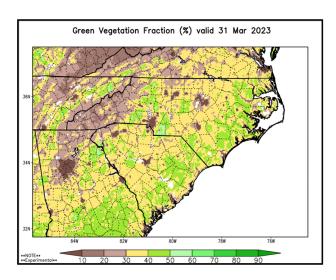
Note – Latest product run was on 4/6/23 at 1000. Does not consider rainfall after that point.

## Days Since Daily Precip $\geq 0.25''$

\*Displaying ECONet, ASOS and AWOS Sites Only



### Green Fraction & Green-Up Anomaly

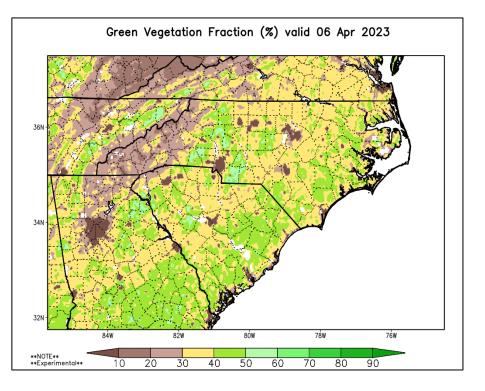


#### Last Week

• Green-Up continues, generally about two weeks ahead.

(Some areas previously shown with green color followed later by brown color in coastal areas likely due to larger scale agricultural activities.)

#### Current



Link: https://weather.msfc.nasa.gov/cgi-bin/basicLooper.pl?category=lis\_NC&initialize=first&regex=gvf\_20230228