



Wildfire Activity: A Look Back and Outlook for Spring / Summer 2018

The Drought Management Advisory Council
Annual Meeting
April 4th, 2019

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NC Forest Service



NC Forest Service Wildfire Activity

Period	# Fires*	# Acres*
4/1/18-3/31/19	2,951	9,490
Previous Year	3,784	10,179
10 Year AVG	4,815	17,904
Deviation from AVG %	-39	-47

* These numbers do not include fires on federal lands.



Keetch-Byram Drought Index (KBDI)

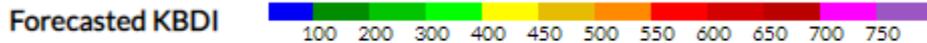
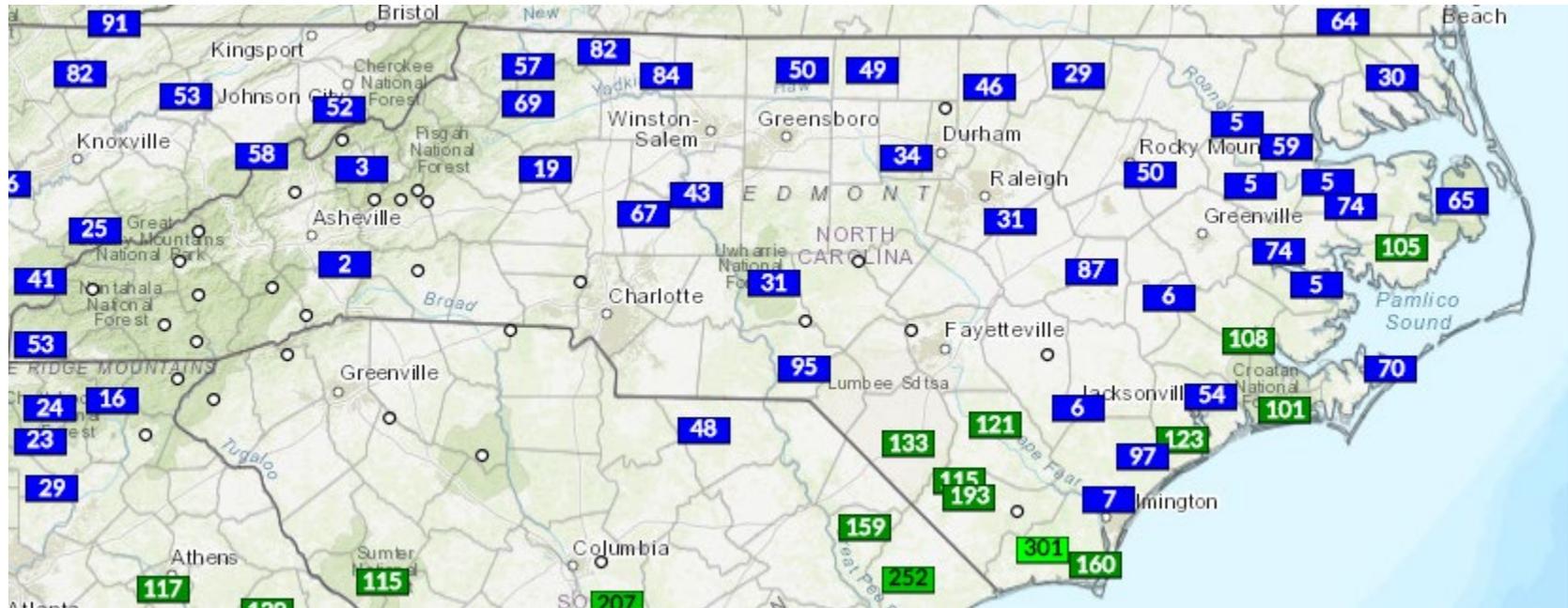
KBDI is a soil/duff drought index that ranges from 0 (no drought) to 800 (extreme drought) and is based on soil capacity of 8 inches of water. Factors include latitude, maximum daily temperature, daily precipitation, antecedent precipitation, and annual average precipitation.

- Between **0 and 200**, soil moisture and large class fuel moistures are high and do not contribute significantly to fire intensity.
- Readings of **201-400** are typical of late spring, early growing season. Lower litter and duff layers are drying and beginning to contribute to fire intensity.
- Readings of **401-600** indicate a possible burgeoning drought and are seen in late summer/early fall in drier years. Lower litter and duff layers burn intensely.
- Readings of **601-800** are associated with severe drought. Intense, deep burning fires with significant downwind spotting. Extensive mop-up required. Live fuels burn actively.



KBDI Map

<http://climate.ncsu.edu/fwip/index.php>

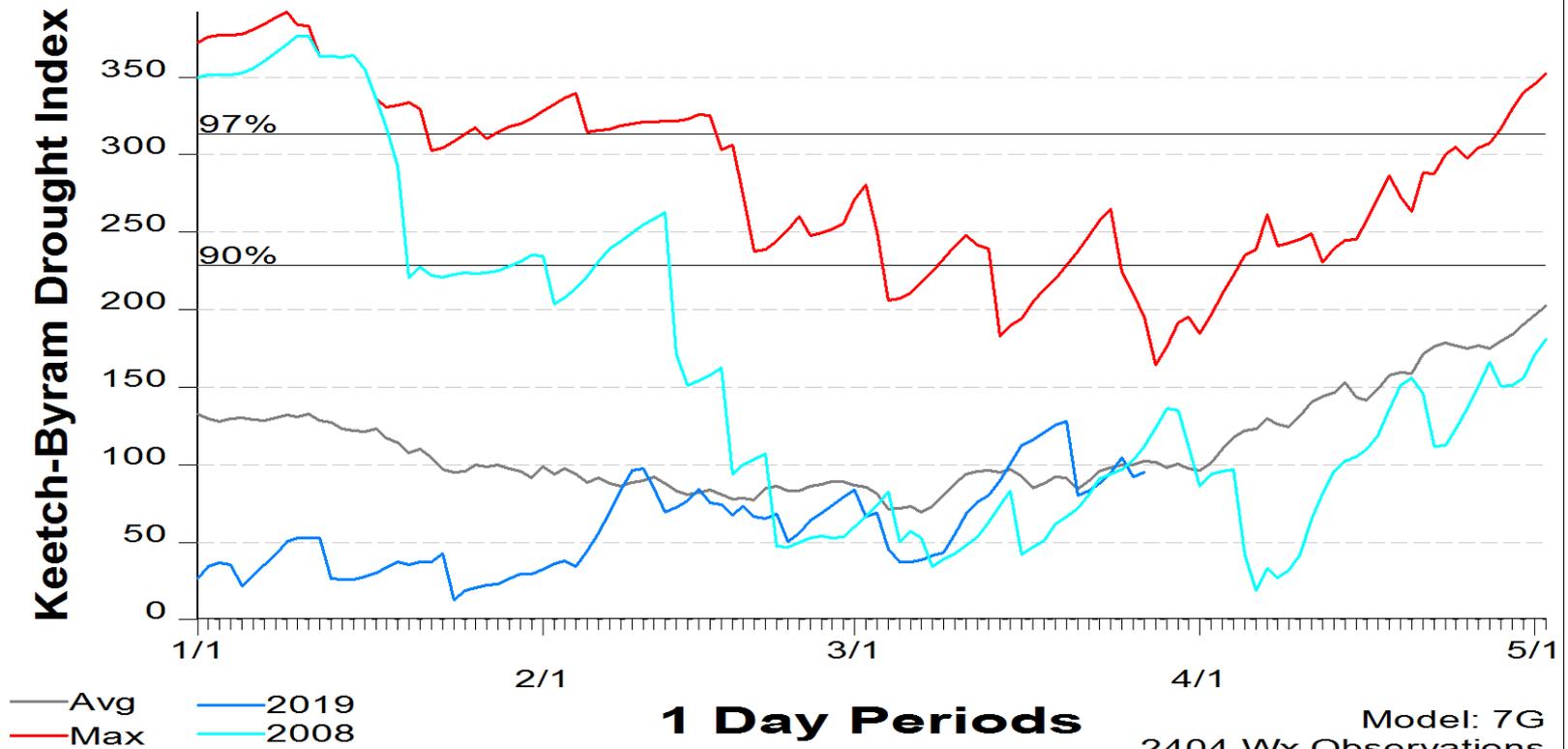


For today (Apr 3) at 1 pm



Coastal KBDI, Winter/Spring 2019

**SIG - Coastal
2000 - 2019**

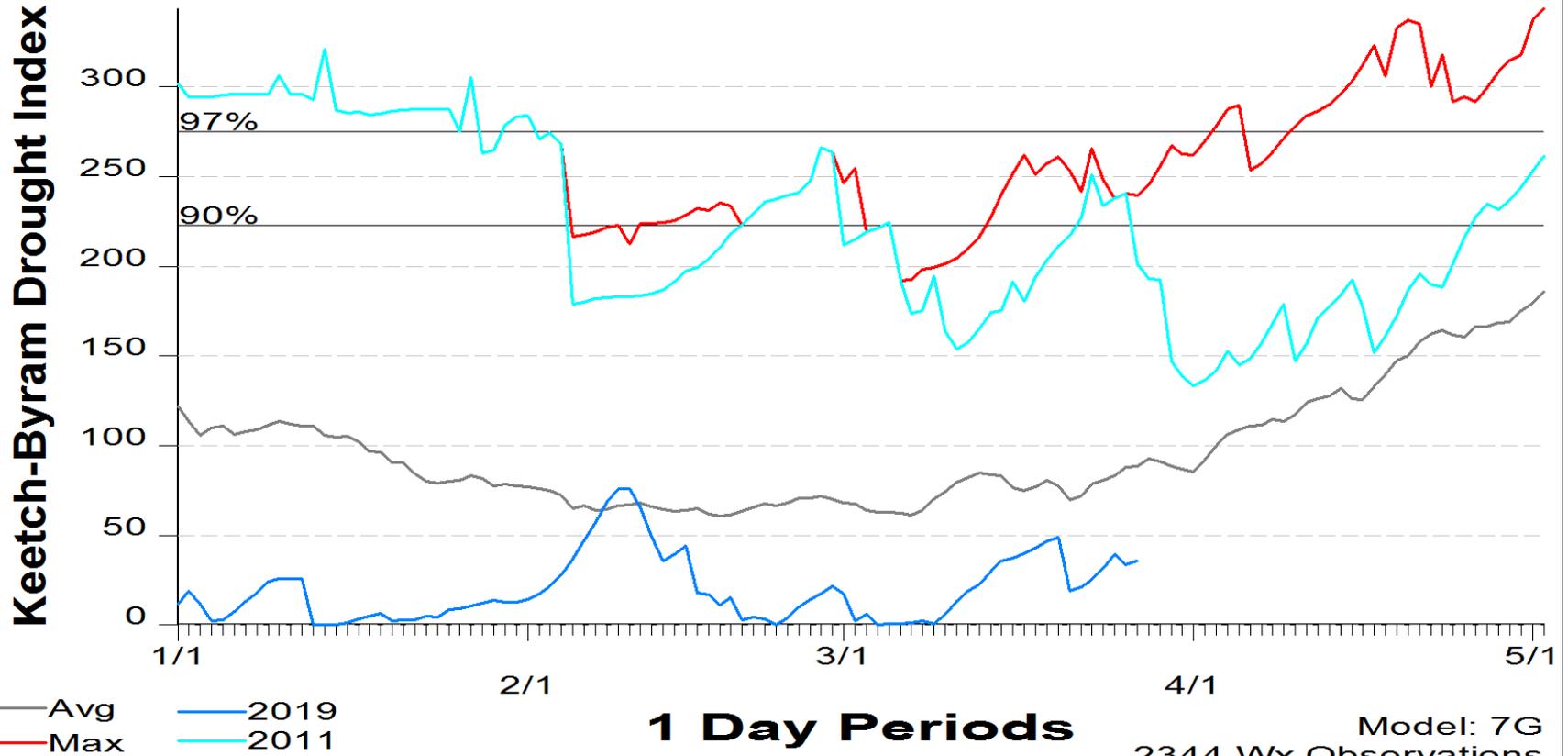


Model: 7G
2404 Wx Observations
FF+4.2 build 24.19 04/03/2019-12:32



Piedmont KBDI, Winter/Spring 2019

SIG - Piedmont 2000 - 2019



1 Day Periods

Model: 7G

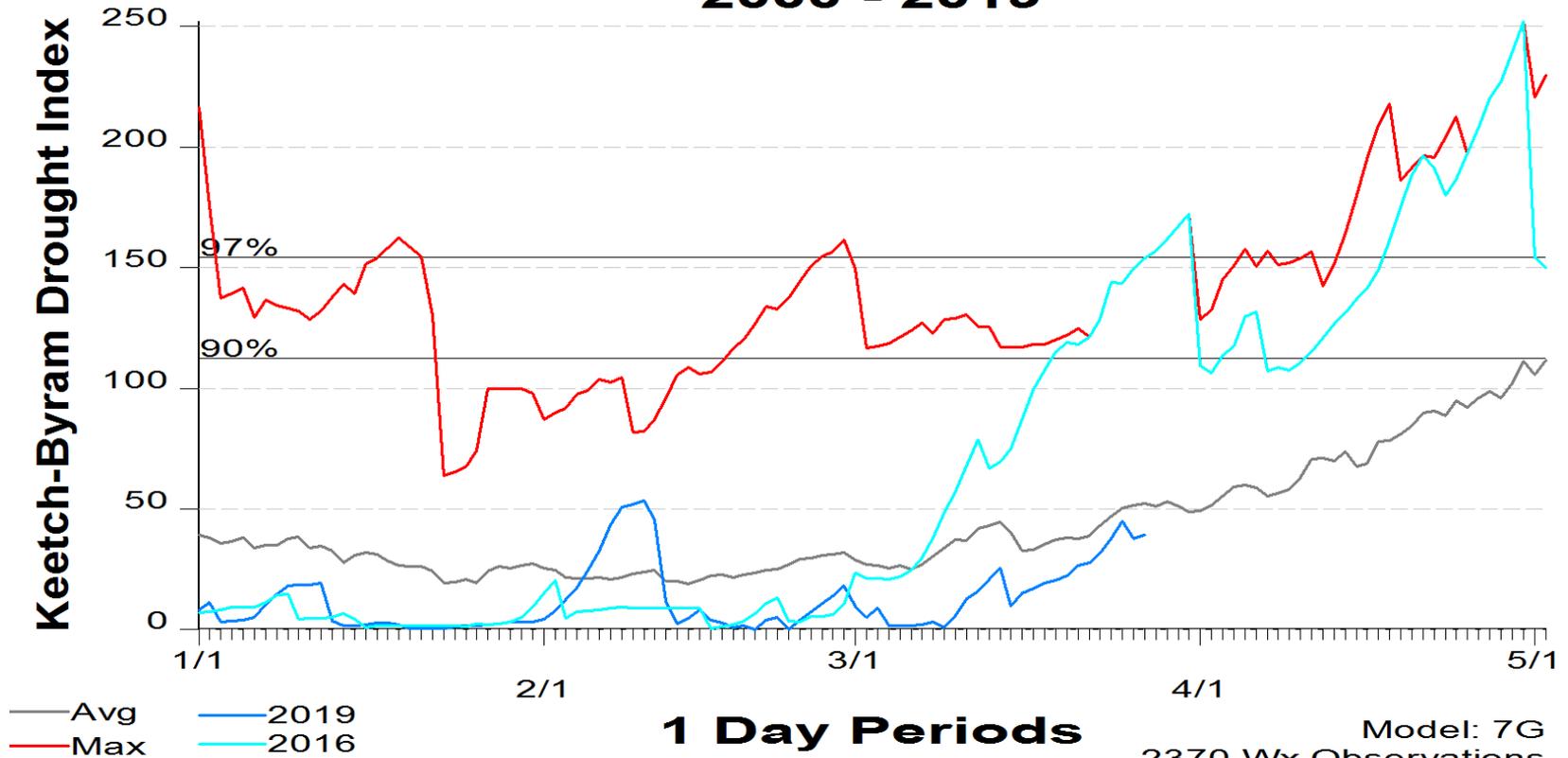
2344 Wx Observations

FF+4.2 build 24.19 04/03/2019-12:48



Mountains KBDI, Winter/Spring 2019

SIG - Mountains 2000 - 2019

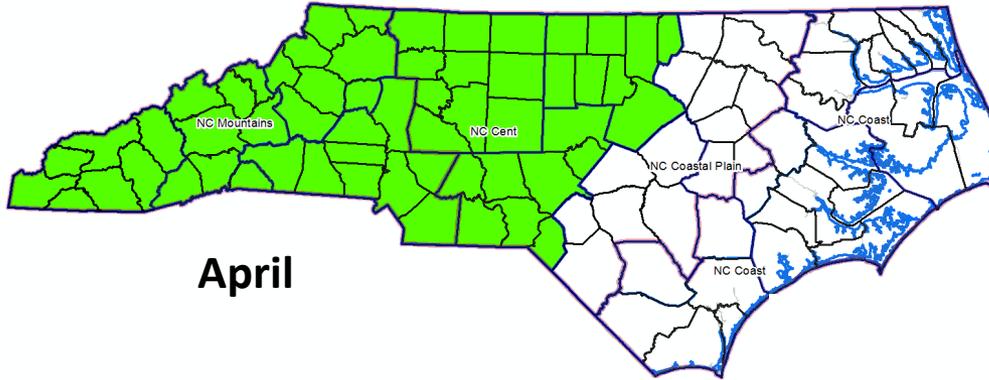


1 Day Periods

Model: 7G
2370 Wx Observations
FF+4.2 build 24.19 04/03/2019-12:37



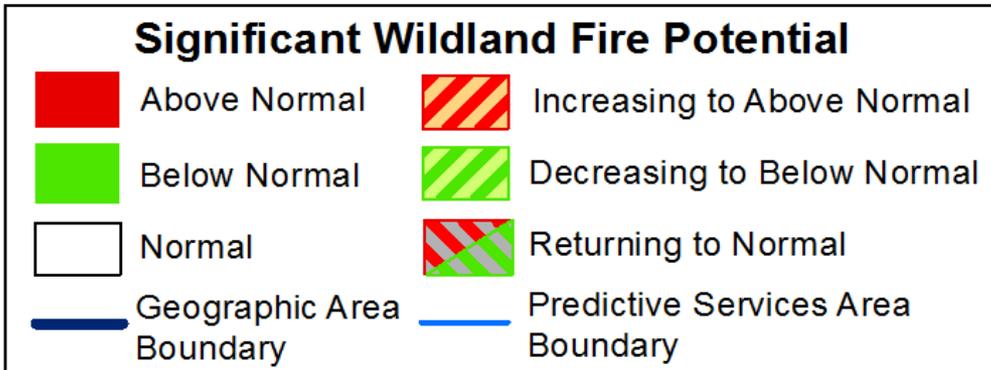
SIGNIFICANT WILDLAND FIRE POTENTIAL OUTLOOK



April



May-July





QUESTIONS?



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