

# Potomac Basin Drought Monitor

*(derived from national Drought Monitor)*

Rich Tinker

Dept. of Commerce/NOAA/NWS/NCEP/  
Climate Prediction Center

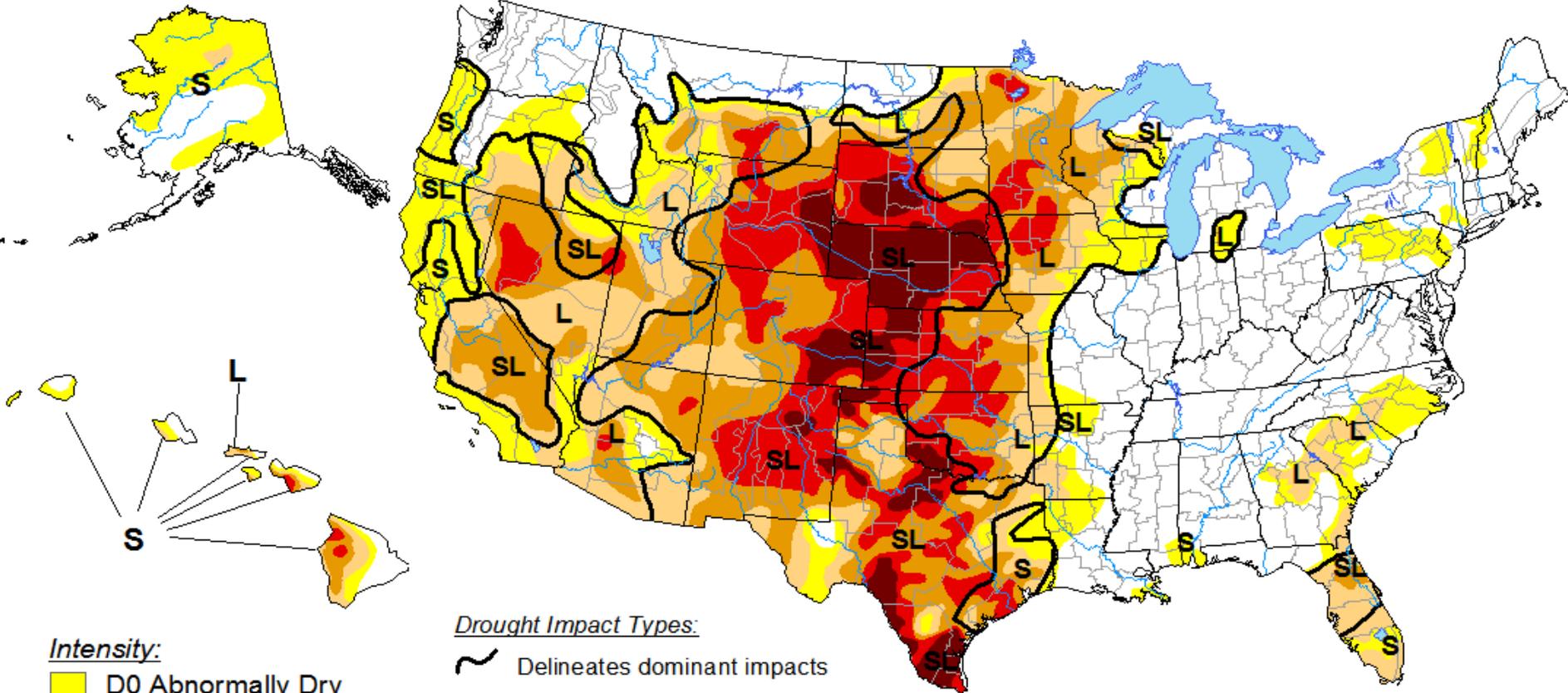
# National Drought Monitor

- *Issued weekly (Thursday morning)*
- *Synthesis of drought indicators, leaning toward those most relevant to observed impacts*
- *Evolved into a semi-official “final word” on national drought conditions*
- *Used as a trigger for a variety of mitigation/aid programs*
  - *USDA drought disaster declarations*
    - *D2 or worse 8+ weeks or D3+ 1 week*
  - *Water management/monitoring practices in Potomac Basin*

# U.S. Drought Monitor

April 2, 2013

Valid 8 a.m. EDT



## Intensity:

-  D0 Abnormally Dry
-  D1 Drought - Moderate
-  D2 Drought - Severe
-  D3 Drought - Extreme
-  D4 Drought - Exceptional

## Drought Impact Types:

-  Delineates dominant impacts
- S = Short-Term, typically <6 months  
(e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months  
(e.g. hydrology, ecology)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu/>

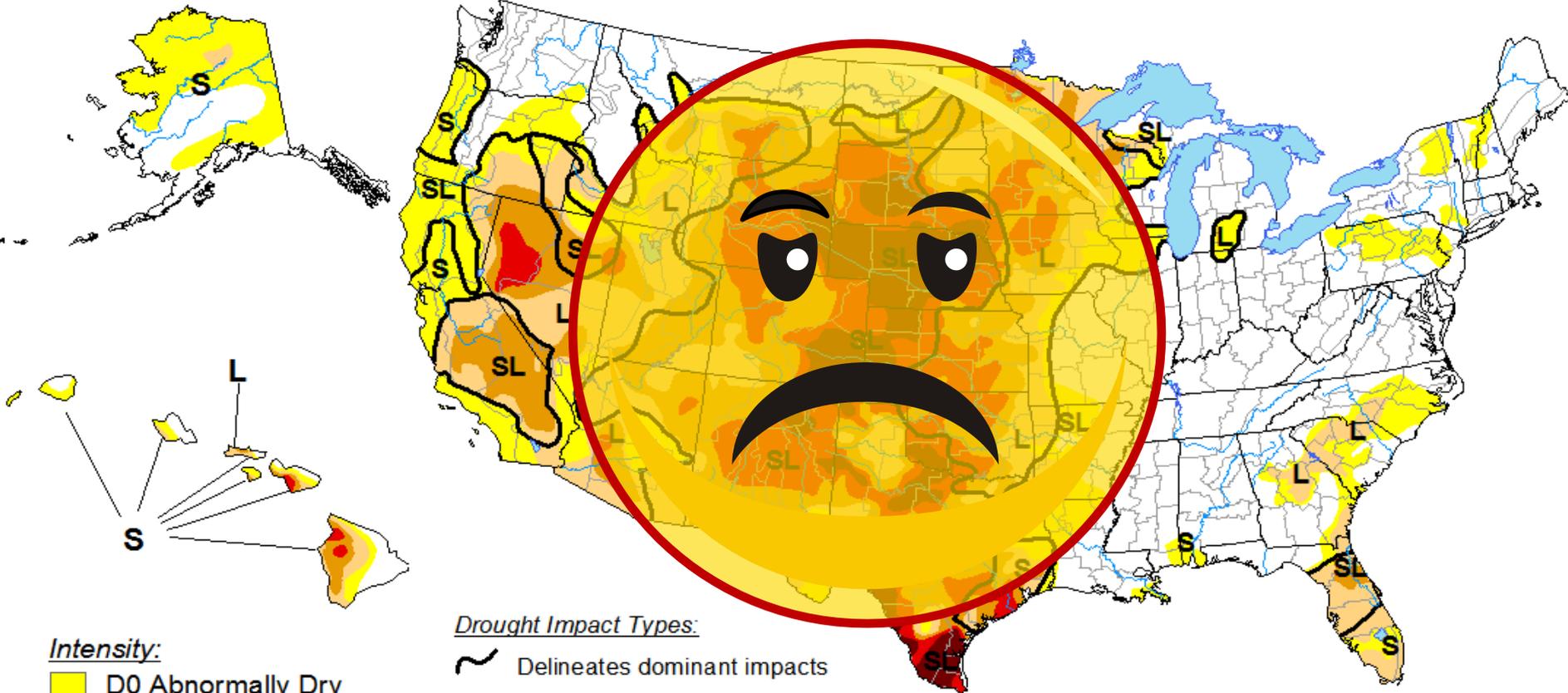


Released Thursday, April 4, 2013  
Author: Rich Tinker, NOAA/NWS/NCEP/CPC

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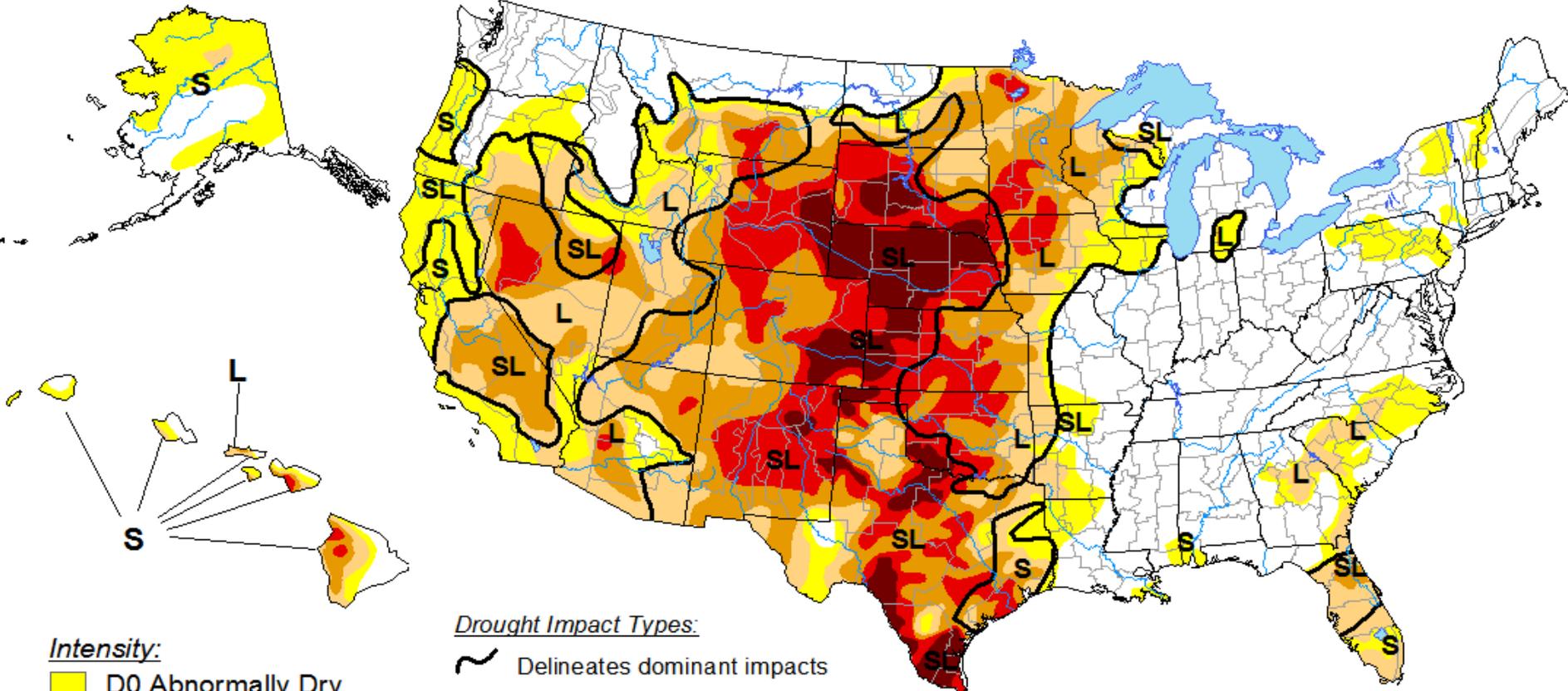


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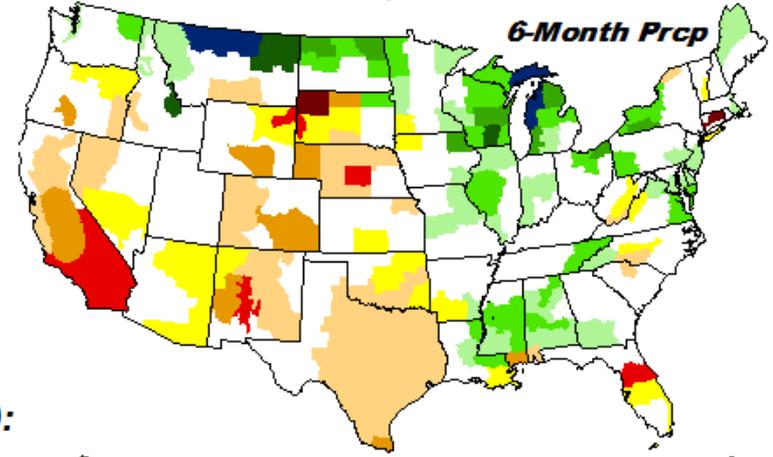
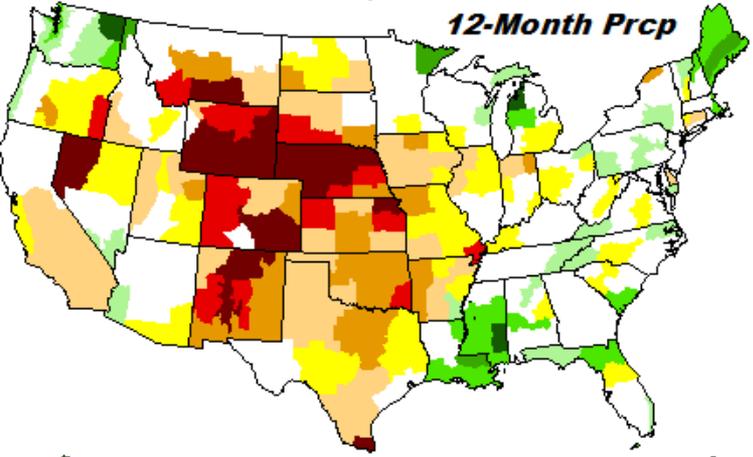
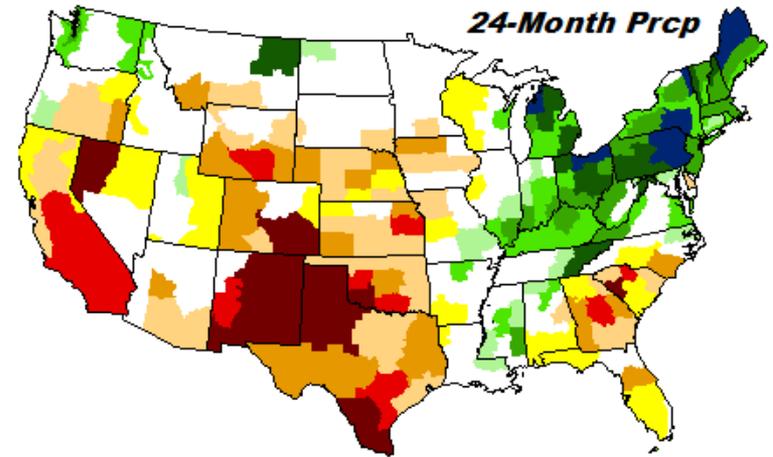
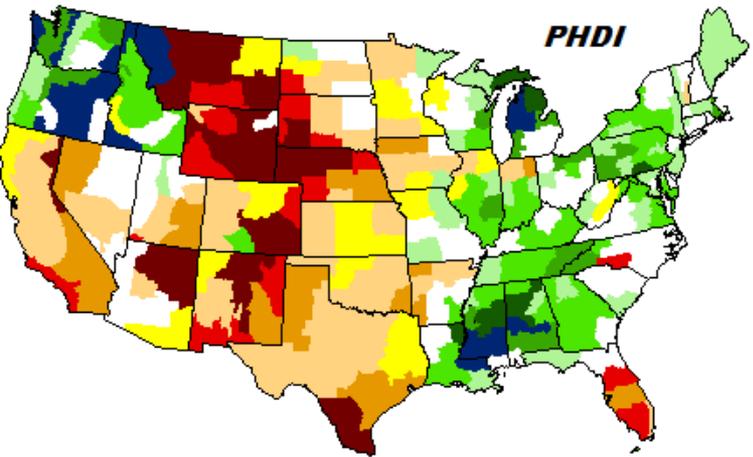
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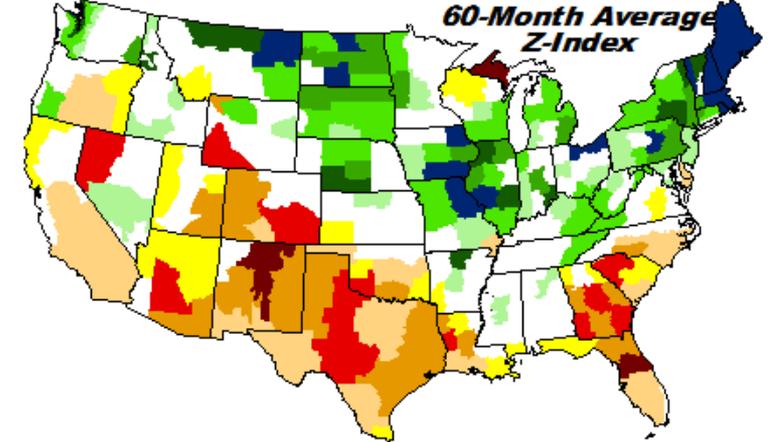
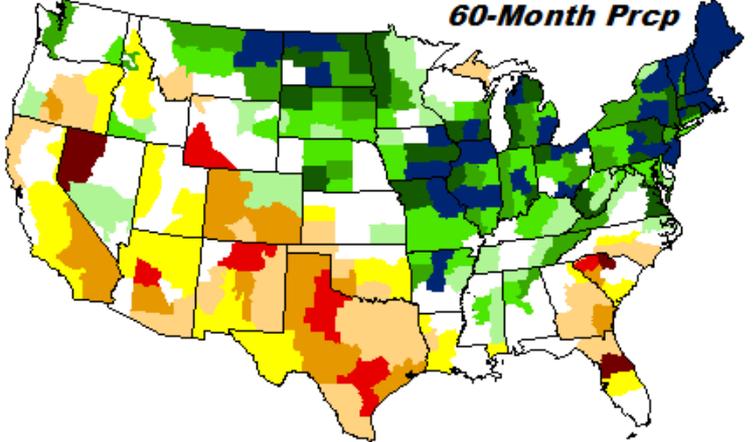
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# Objective Long-Term Drought Indicator Blend Percentiles -- March 23, 2013



NWS / NCEP  
Climate  
Prediction  
Center  
  
NESDIS  
National  
Climatic  
Data Center

**Percentile  
(D0-to-D4 equivalent):**

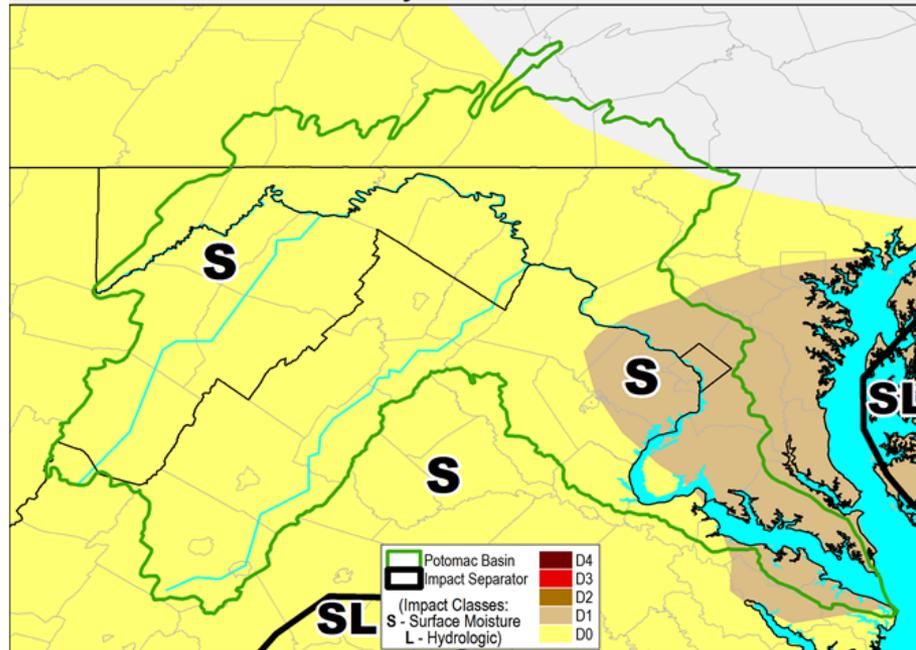


# Potomac Basin Drought Monitor

- *Regional view of national Drought Monitor*
- *Weekly issuances begin...*
  - *D0+ in 50% of Basin*
  - *D1+ in any part of Basin*
  - *Whenever we feel like it*
- *Weekly issuances end...*
  - *D0 completely eliminated from Basin*
  - *Whenever we feel like it*

# Potomac Basin Drought Monitor

July 10, 2012

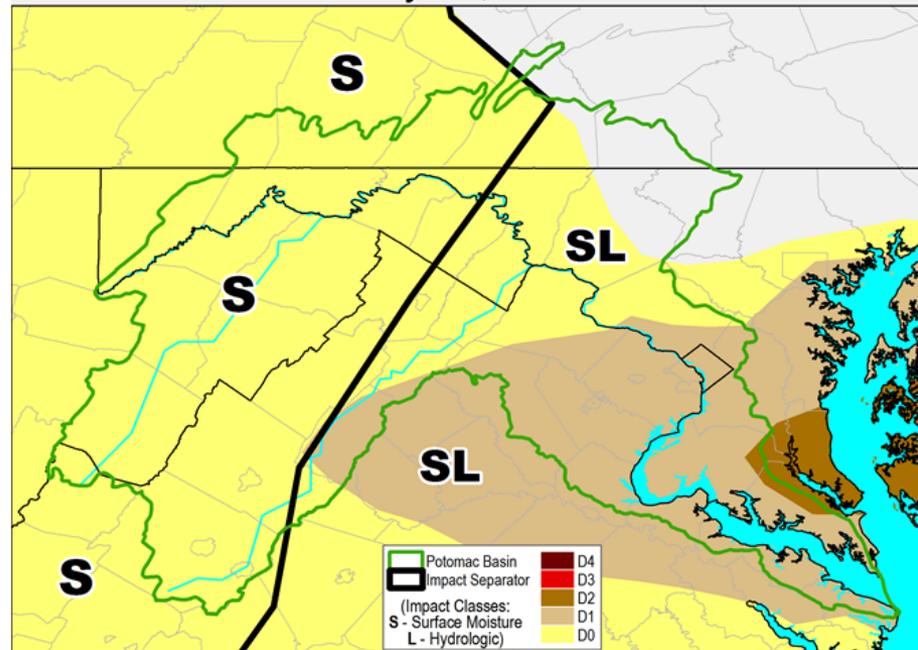


Selected Basin-Average Indices on July 8, 2012

	<u>Raw Value</u>	<u>Anomaly</u>	<u>Percentile</u>
Palmer Drought	-2.16	-2.52	13.4 [D1]
Palmer Hydrologic	-1.86	-2.43	18.0 [D1]
Palmer Z	-2.73	-2.90	5.2 [D2]
CPC Soil Moisture	n/a	n/a	23.9 [D0]
1-Month Precipitation	2.67"	-1.20"	24.8 [D0]
3-Month Precipitation	10.03"	-1.36"	38.3 [--]
6-Month Precipitation	16.65"	-4.01"	21.9 [D0]
12-Month Precipitation	42.79"	+1.02"	65.0 [--]
24-Month Precipitation	85.13"	+1.55"	68.3 [--]
<b>Basin Coverage:</b> 2.1% Not Dry 82.0% D0 15.9% D1 <b>Basin Average:</b> D"0.14"			

# Potomac Basin Drought Monitor

July 24, 2012

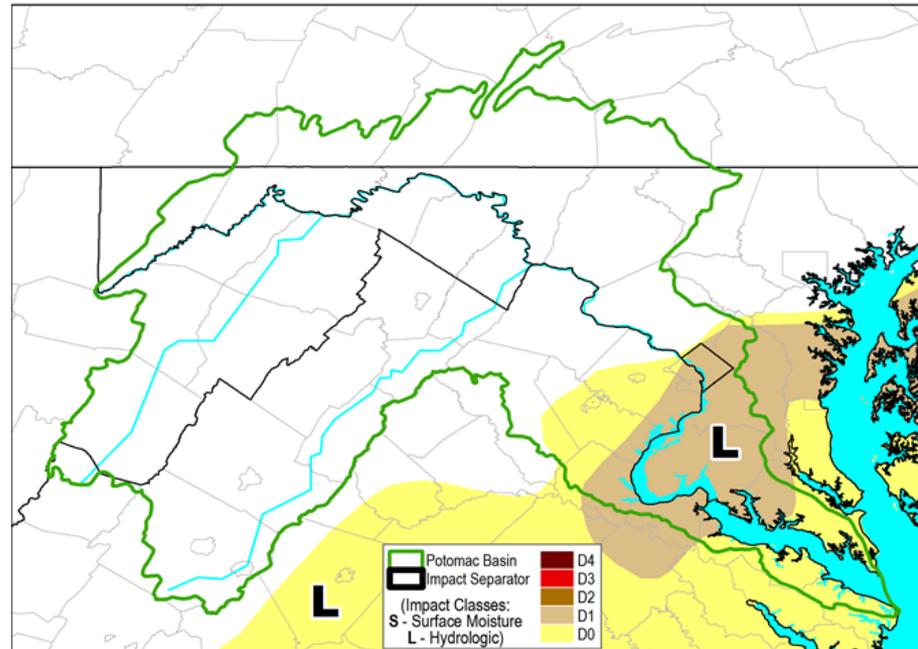


Selected Basin-Average Indices on July 22, 2012

	<u>Raw Value</u>	<u>Anomaly</u>	<u>Percentile</u>
Palmer Drought	-1.19	-1.45	30.7 [--]
Palmer Hydrologic	-1.57	-2.01	26.7 [D0]
Palmer Z	-0.93	-1.10	34.6 [--]
CPC Soil Moisture	n/a	n/a	46.1 [--]
1-Month Precipitation	4.43"	+0.50"	65.8 [--]
3-Month Precipitation	12.16"	+0.13"	56.6 [--]
6-Month Precipitation	18.60"	-2.90"	28.1 [D0]
12-Month Precipitation	44.79"	+3.02"	74.4 [--]
24-Month Precipitation	86.77"	+3.19"	73.6 [--]
<u>Basin Coverage:</u>	6.1% Not Dry	68.1% D0	25.2% D1
	0.6% D2	<u>Basin Average:</u> D"0.20"	

# Potomac Basin Drought Monitor

October 9, 2012

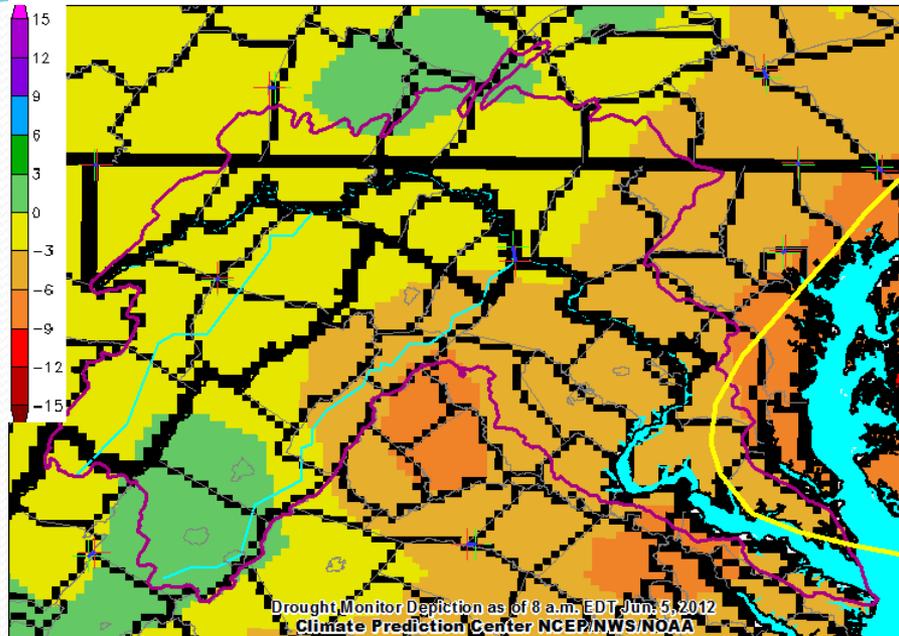


**Selected Basin-Average Indices on October 7, 2012**

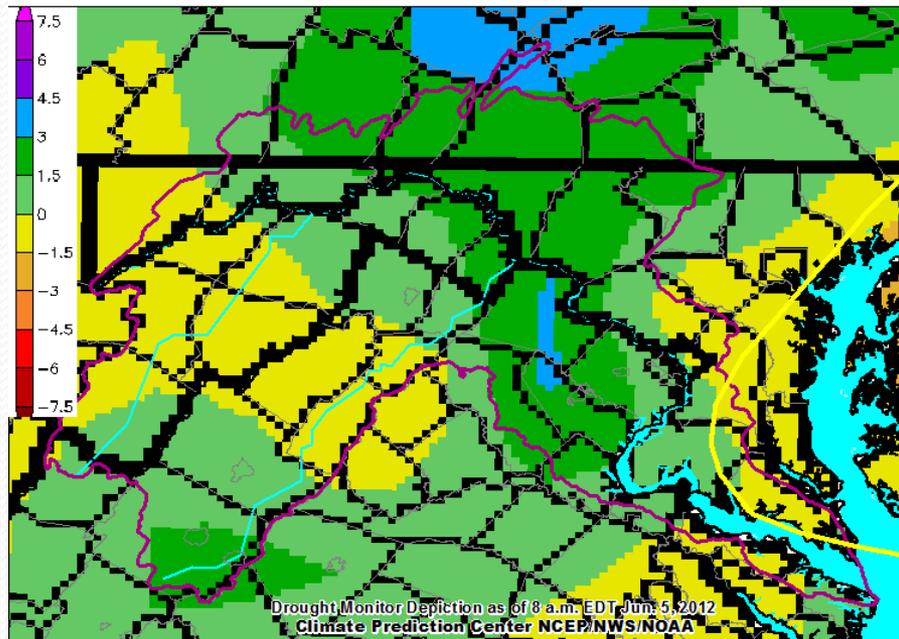
	<i>Raw Value</i>	<i>Anomaly</i>	<i>Percentile</i>
Palmer Drought	+0.39	+0.13	57.2 [--]
Palmer Hydrologic	-0.26	-0.67	47.2 [--]
Palmer Z	+1.83	+1.66	82.9 [--]
CPC Soil Moisture	n/a	n/a	68.8 [--]
1-Month Precipitation	4.28"	+0.48"	76.3 [--]
3-Month Precipitation	13.49"	+2.11"	75.7 [--]
6-Month Precipitation	23.86"	+1.08"	67.2 [--]
12-Month Precipitation	41.54"	-0.23"	59.8 [--]
24-Month Precipitation	89.04"	+5.45"	79.0 [--]
<i>Basin Coverage:</i> 81.2% Not Dry 8.5% D0 10.3% D1			<i>Basin Average:</i> D"-0.71"

# Potomac Basin Departure from Normal Rainfall (")

Year to Date Ending 8 a.m. EDT June 6, 2012

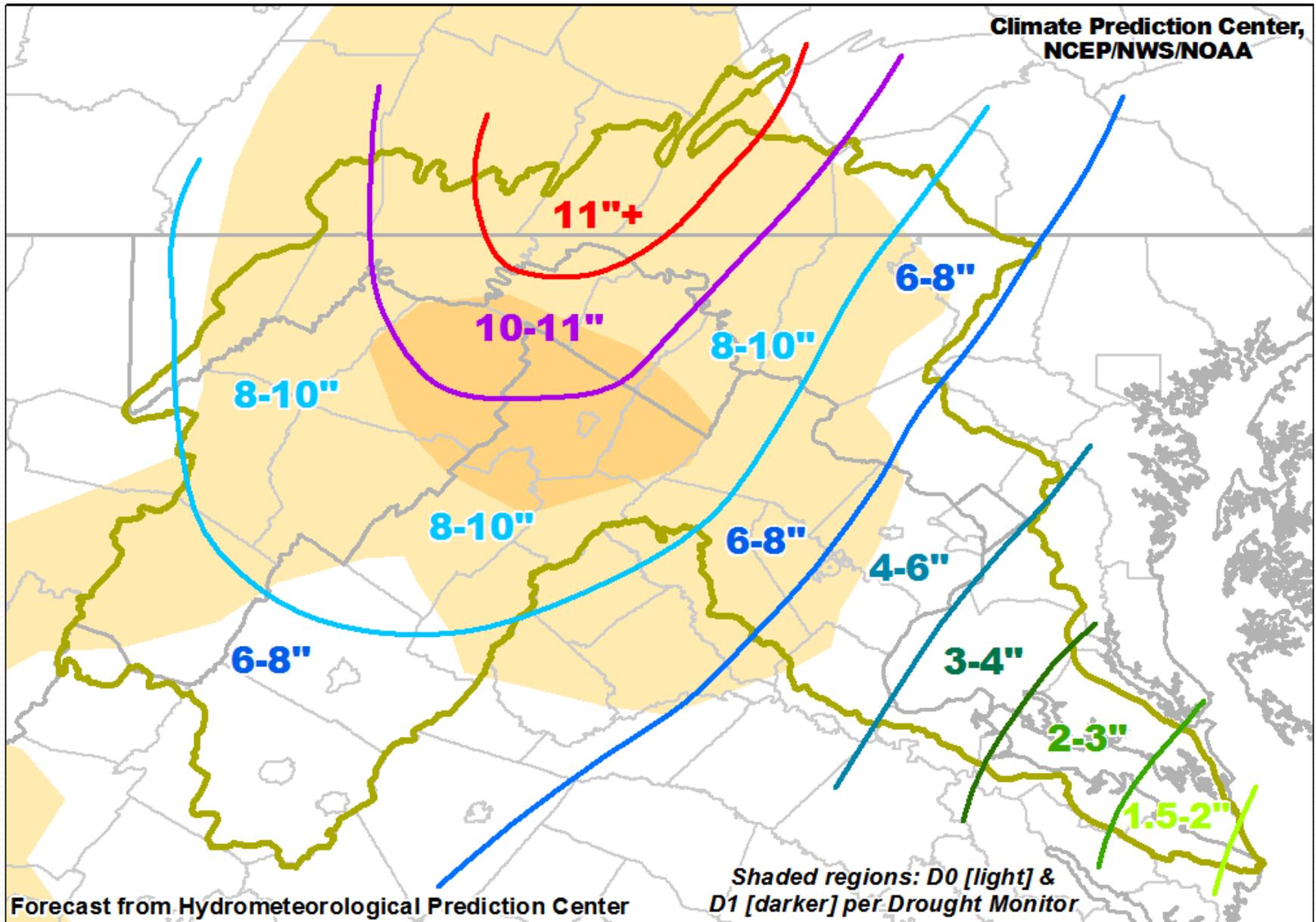


30 Days Ending 8 a.m. EDT June 6, 2012



# Potomac Basin Rainfall Forecast

Monday 9/5/11 8pm - Saturday 9/10/11 8pm [5 days]





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