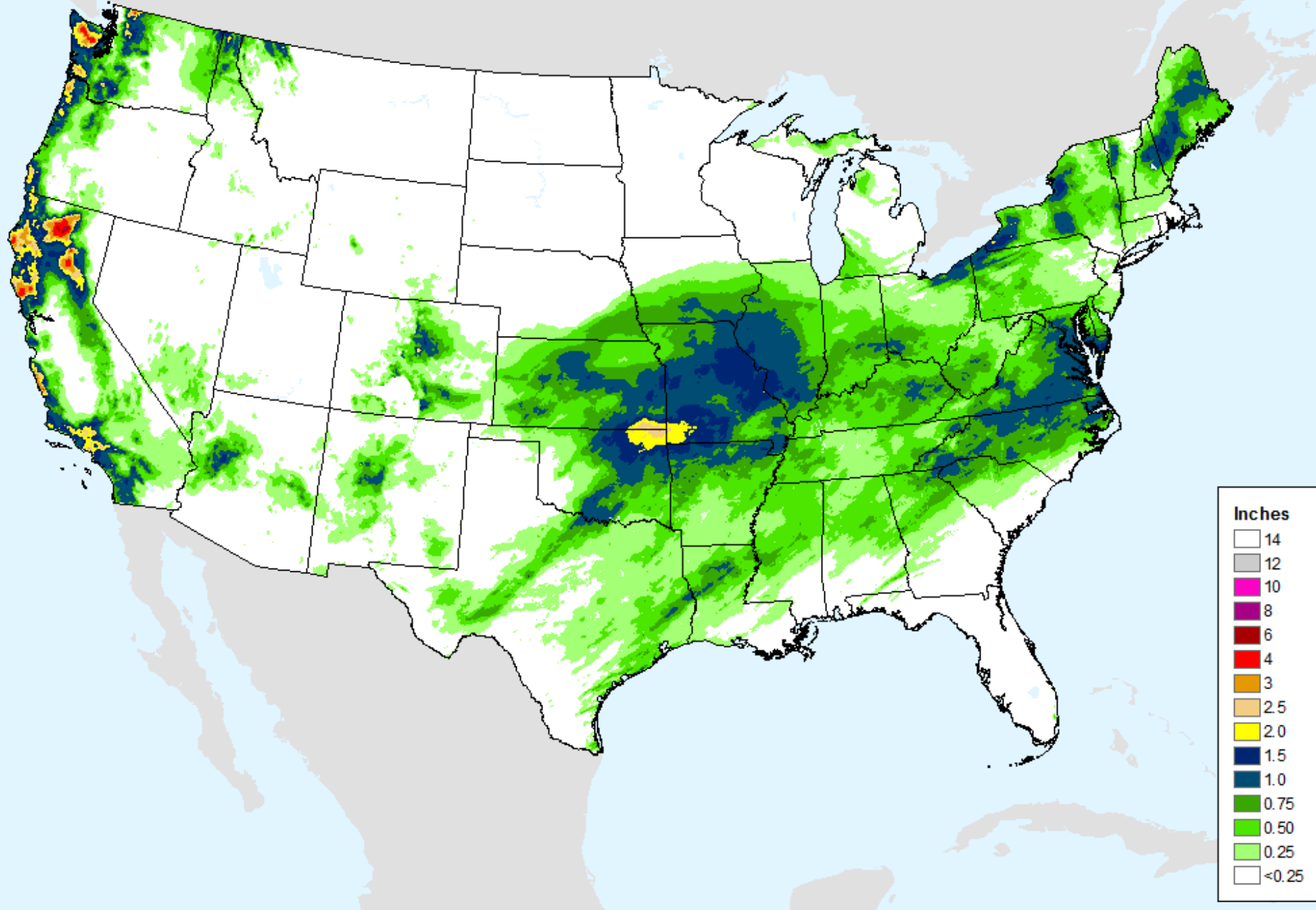


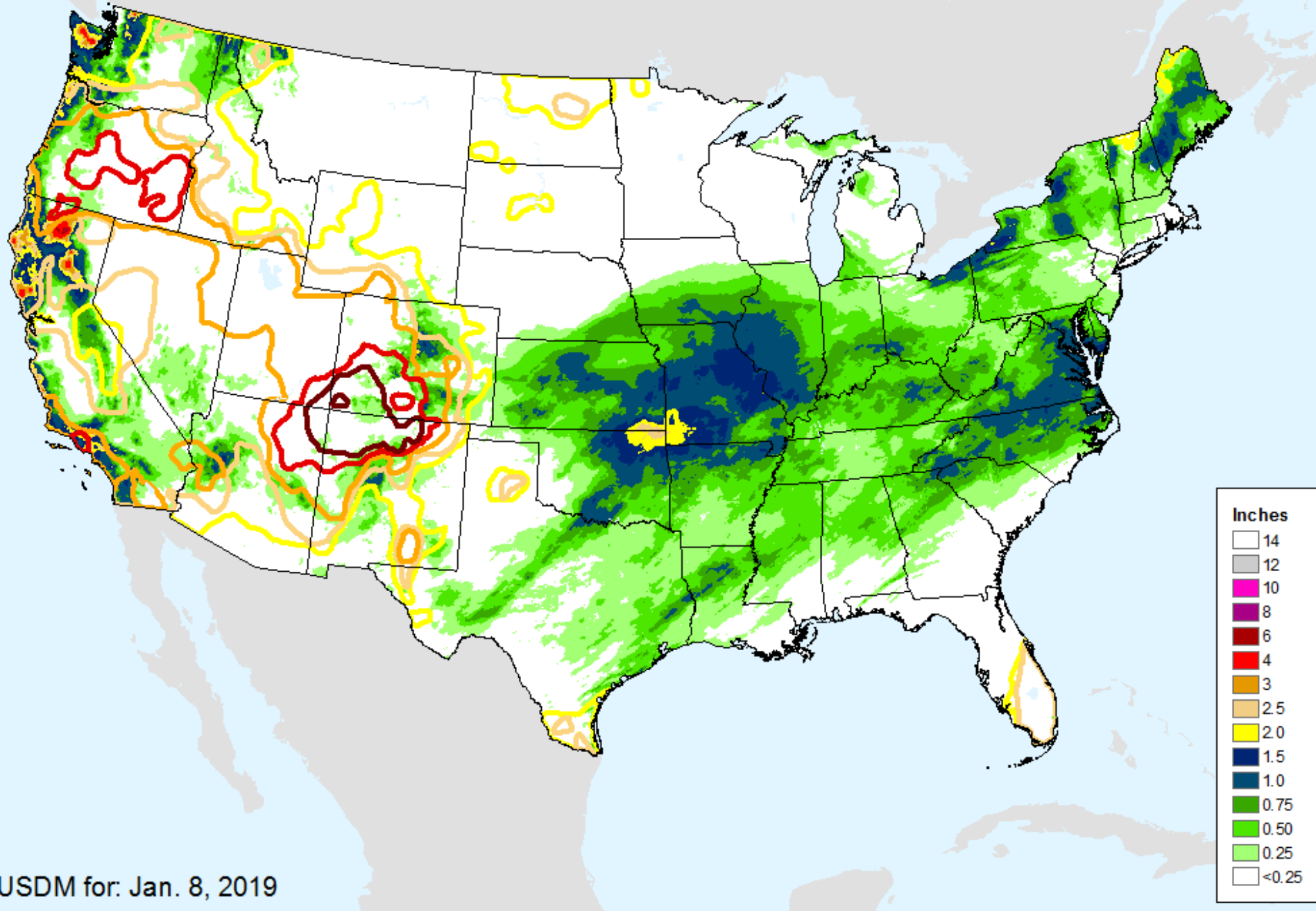
# AHPS 7-Day Precipitation

As of: Tuesday, January 15, 2019



# AHPS 7-Day Precipitation

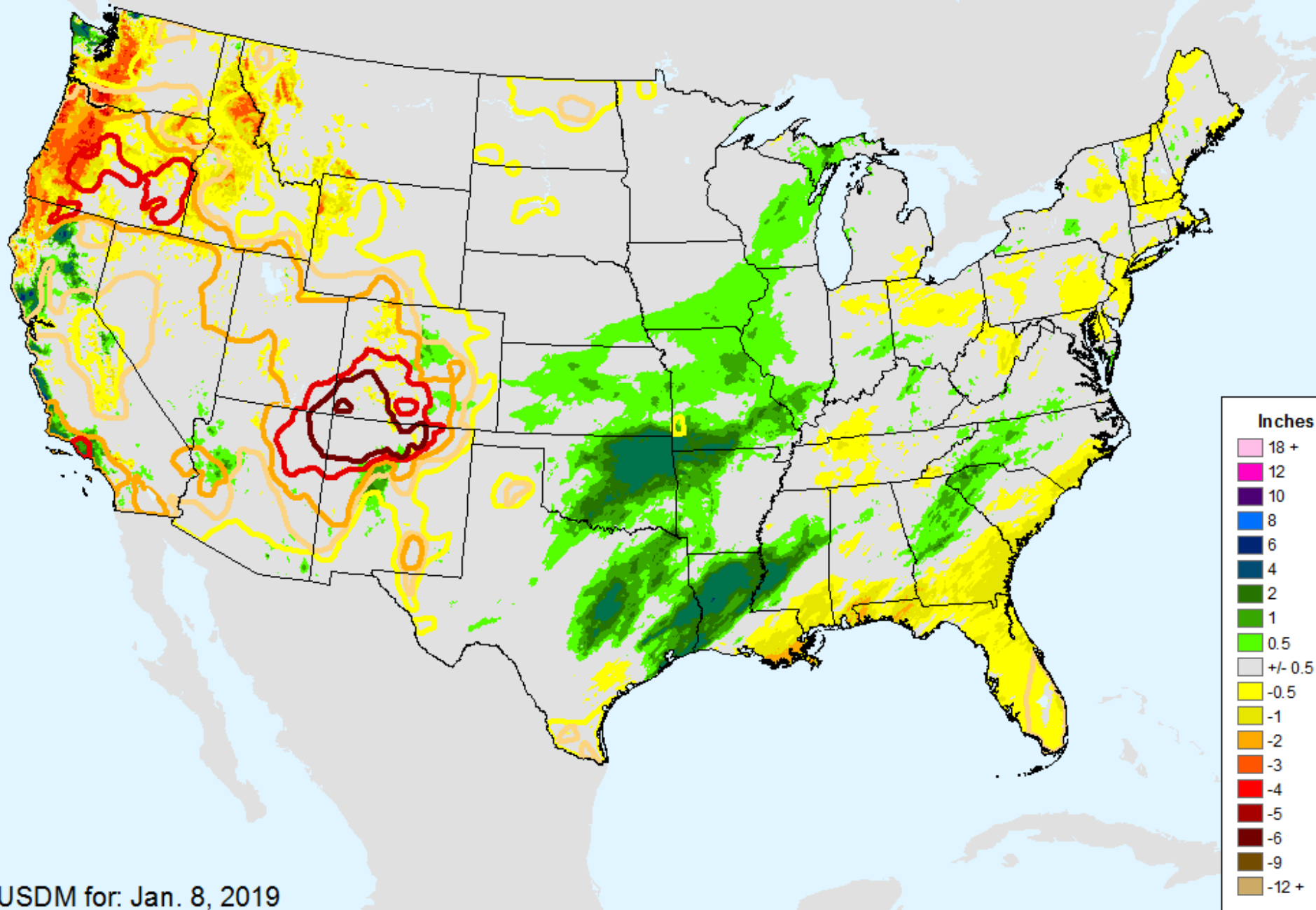
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS 14-Day Precip Departure

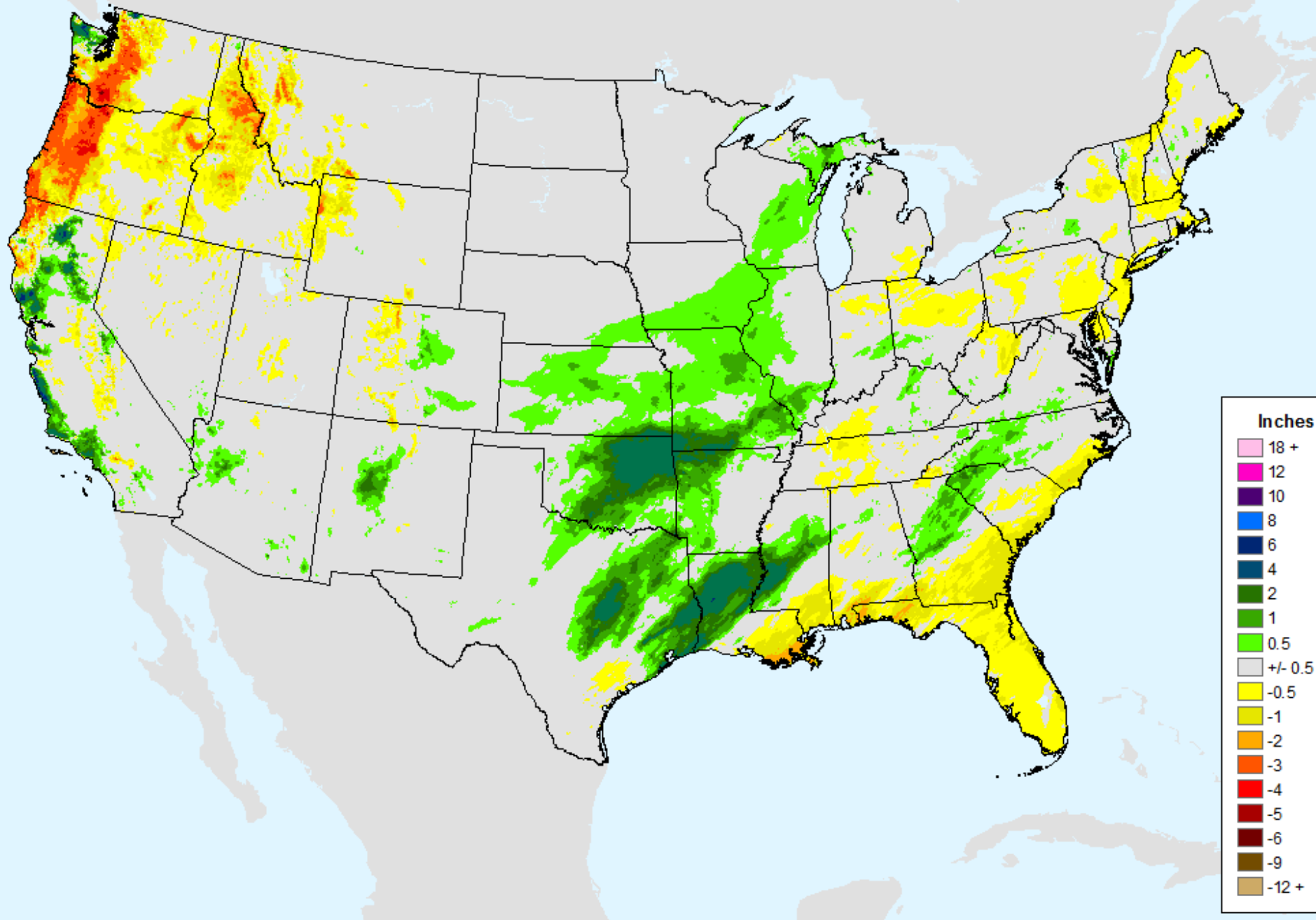
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

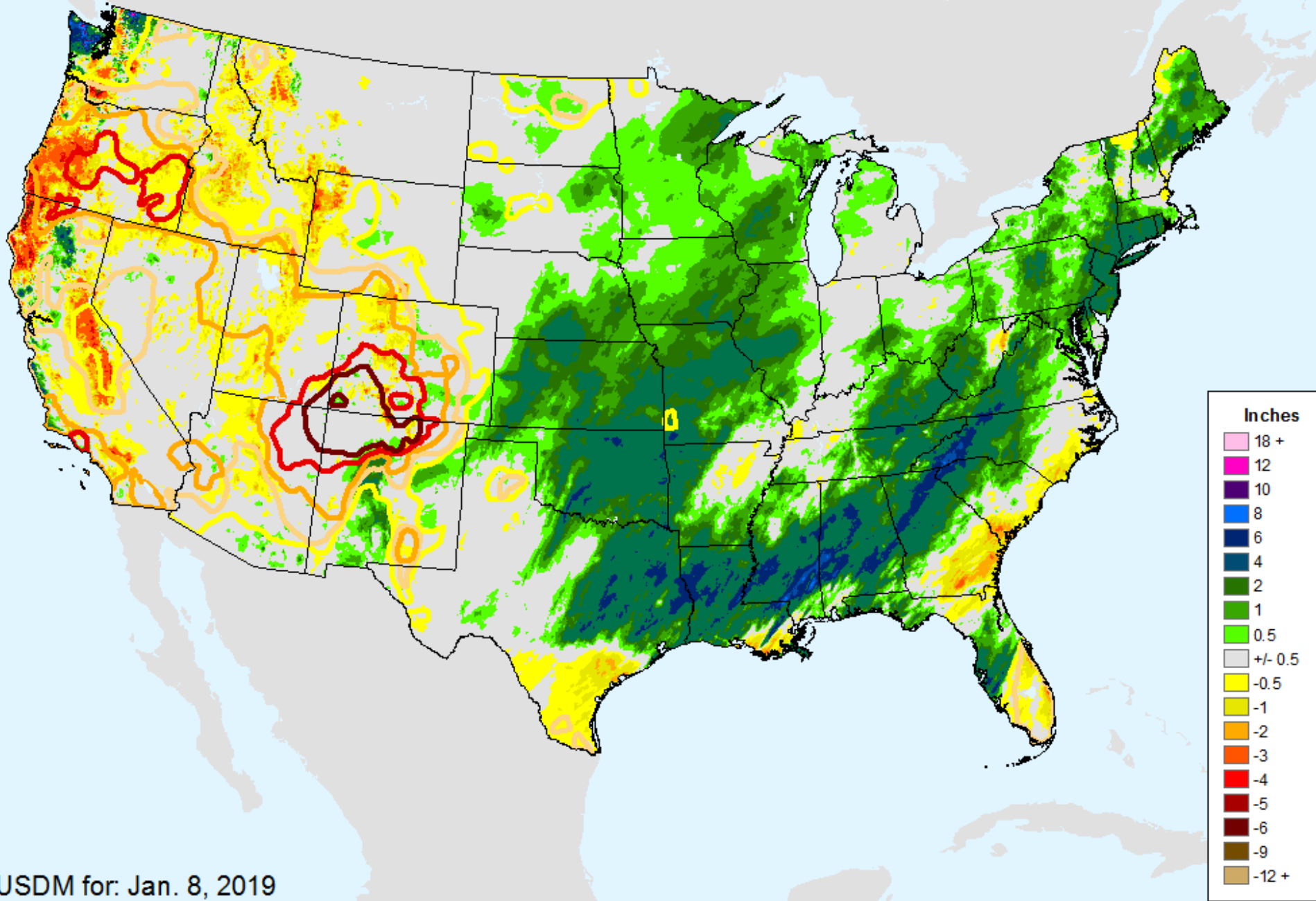
# AHPS 14-Day Precip Departure

As of: Tuesday, January 15, 2019



# AHPS 30-Day Precip Departure

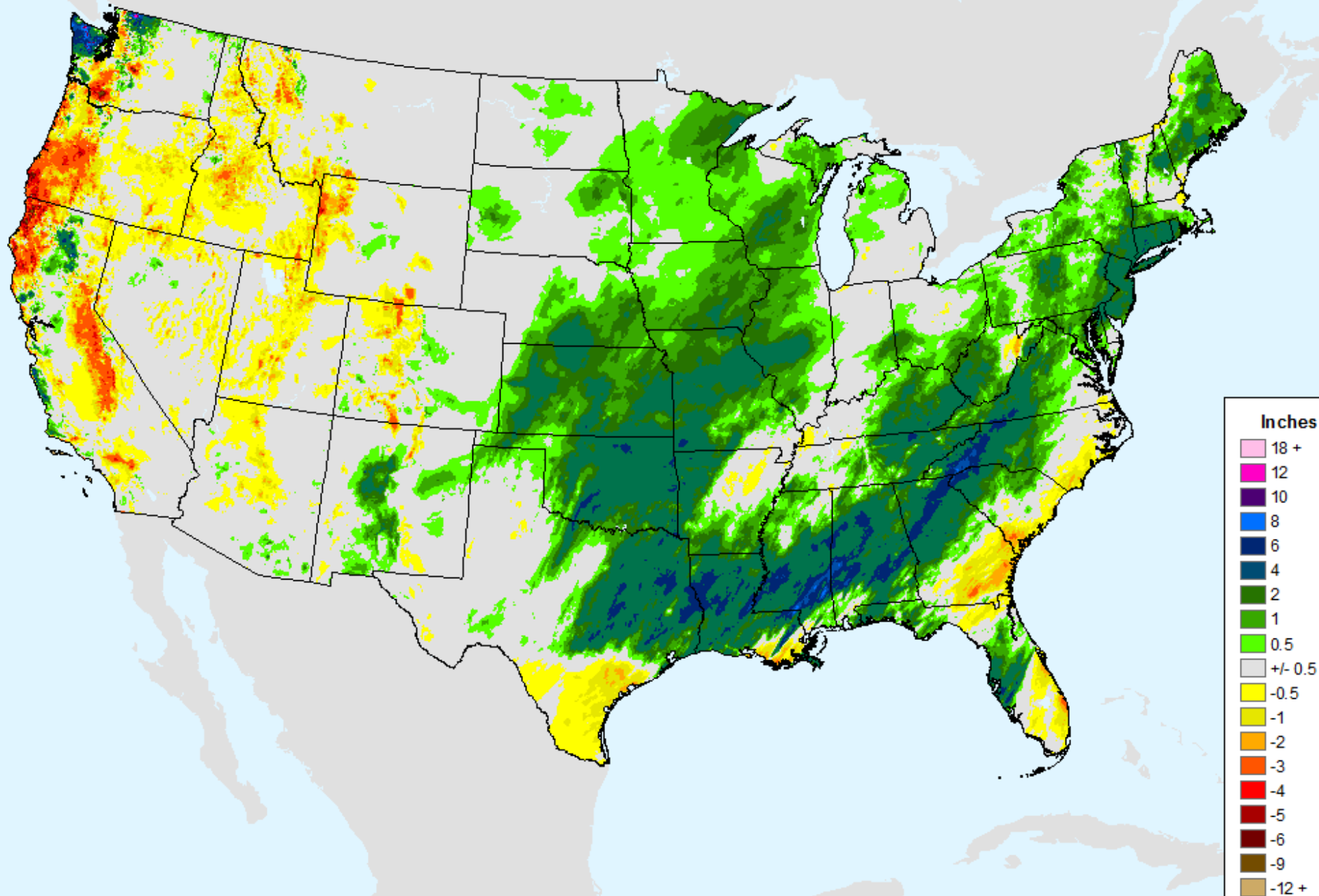
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

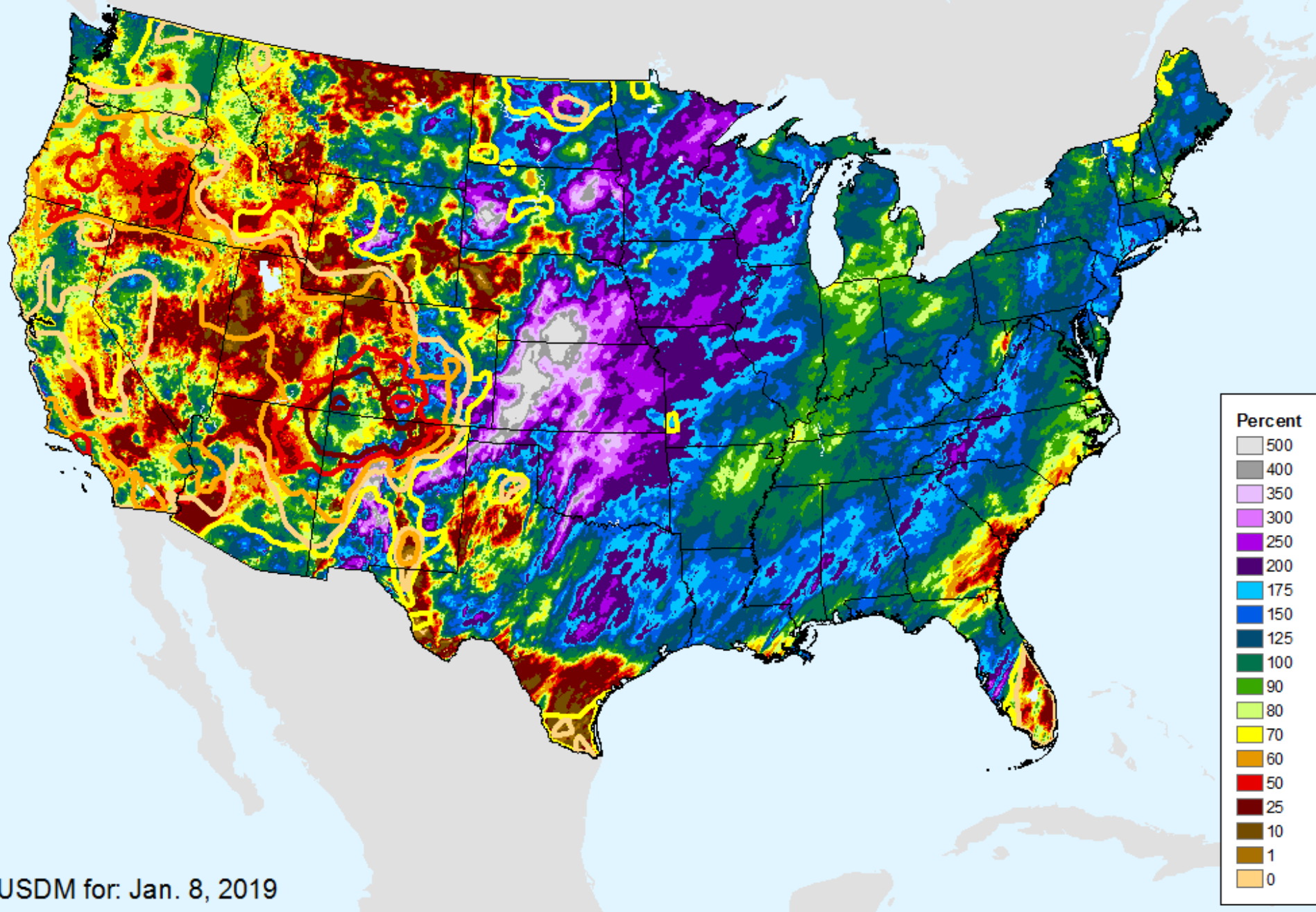
# AHPS 30-Day Precip Departure

As of: Tuesday, January 15, 2019



# AHPS 30-Day Pct of Normal Pcp

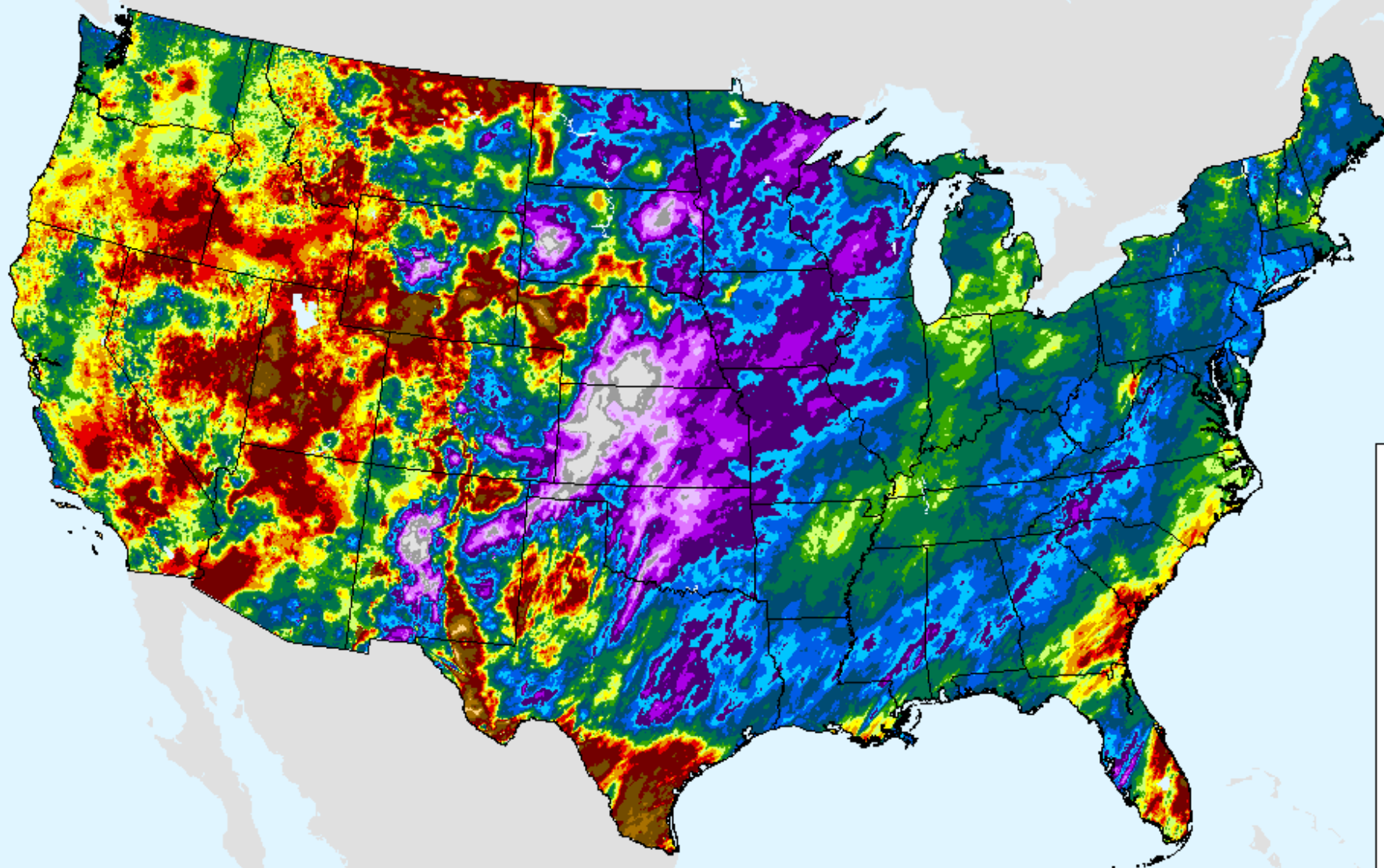
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS 30-Day Pct of Normal Pcp

As of: Tuesday, January 15, 2019



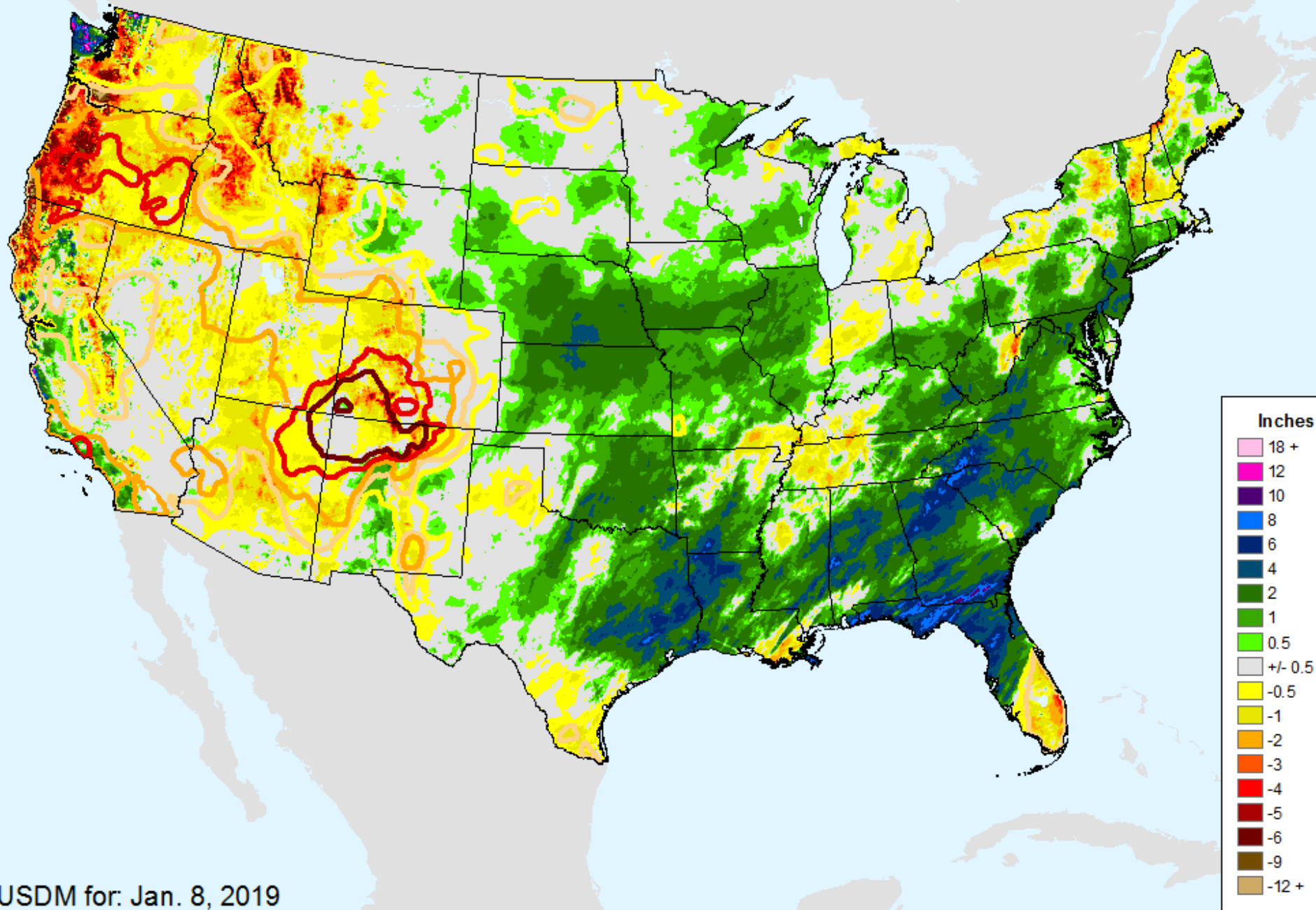
## Percent

- 500
- 400
- 350
- 300
- 250
- 200
- 175
- 150
- 125
- 100
- 90
- 80
- 70
- 60
- 50
- 25
- 10
- 1
- 0



# AHPS 60-Day Precip Departure

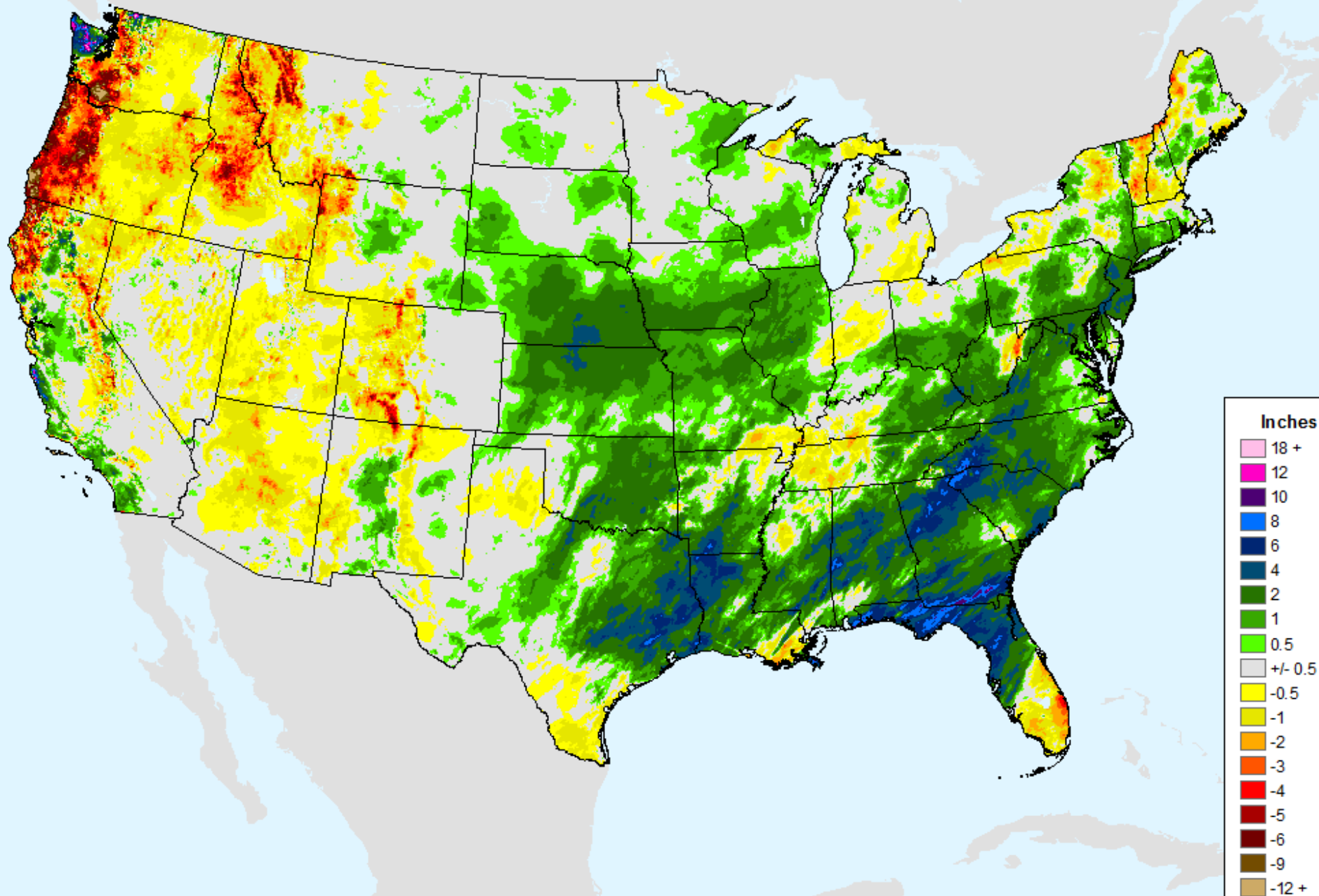
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

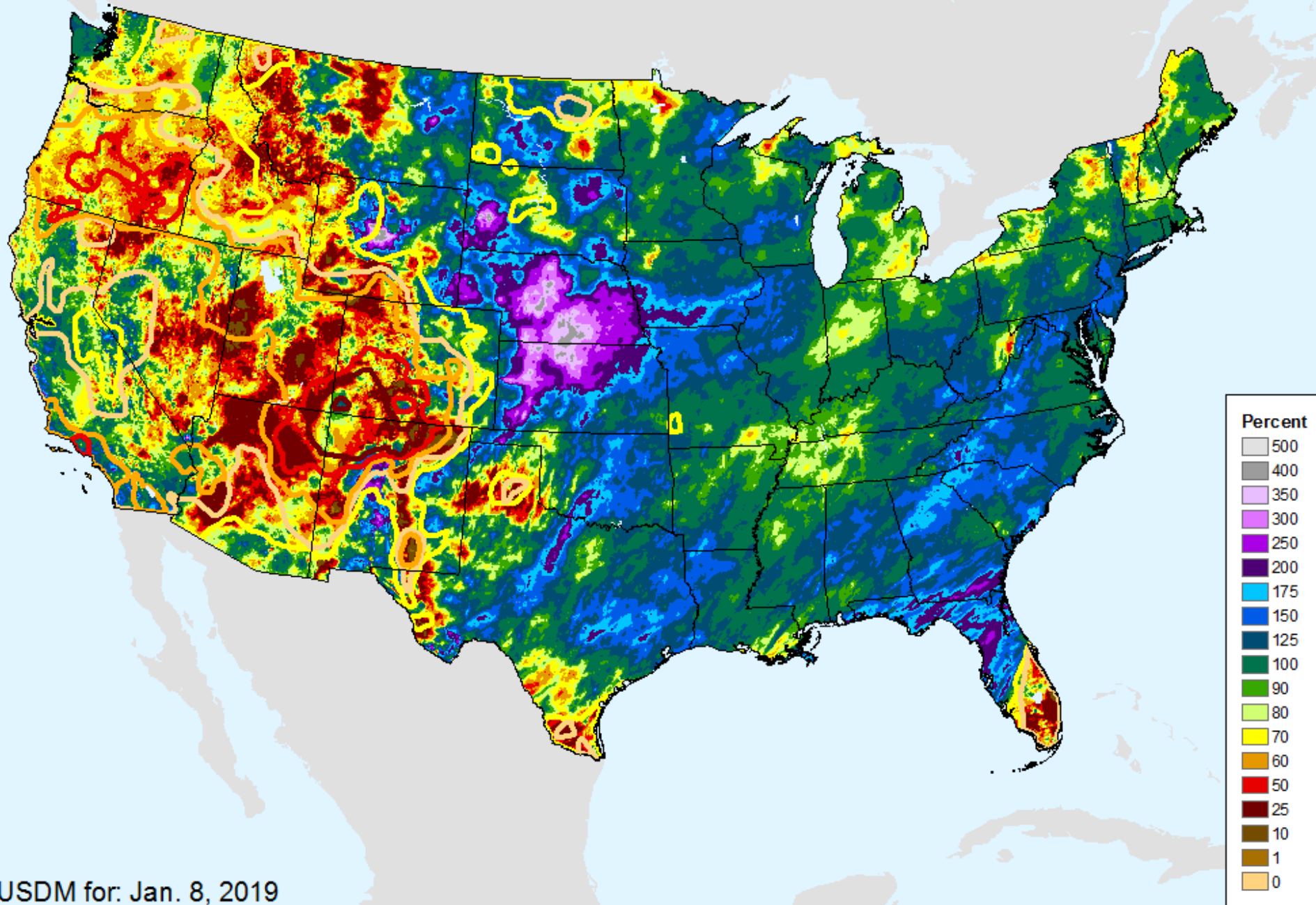
# AHPS 60-Day Precip Departure

As of: Tuesday, January 15, 2019



# AHPS 60-Day Pct of Normal Pcp

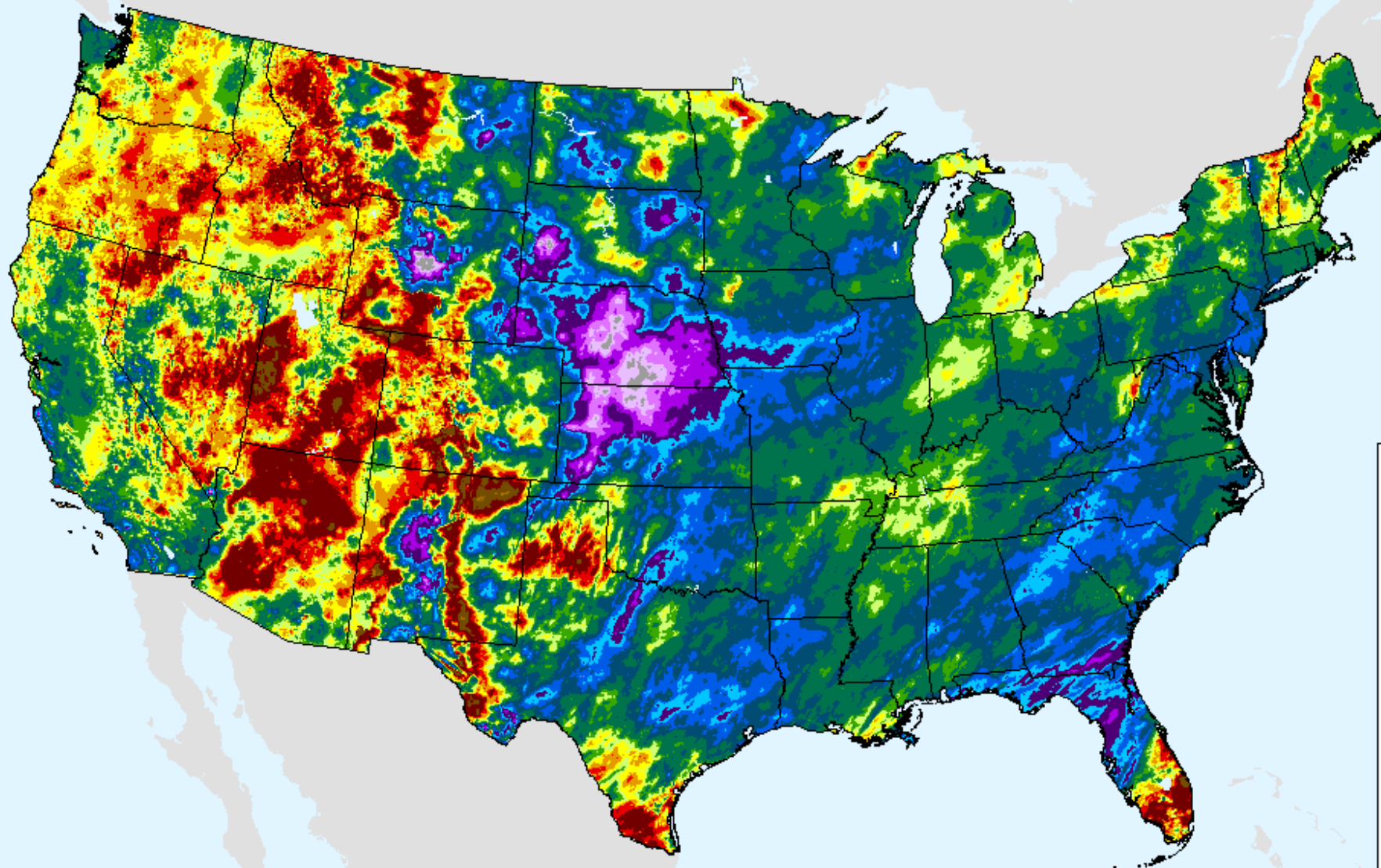
As of: Tuesday, January 15, 2019



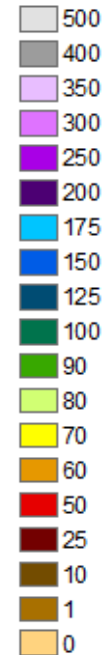
USDM for: Jan. 8, 2019

# AHPS 60-Day Pct of Normal Pcp

As of: Tuesday, January 15, 2019

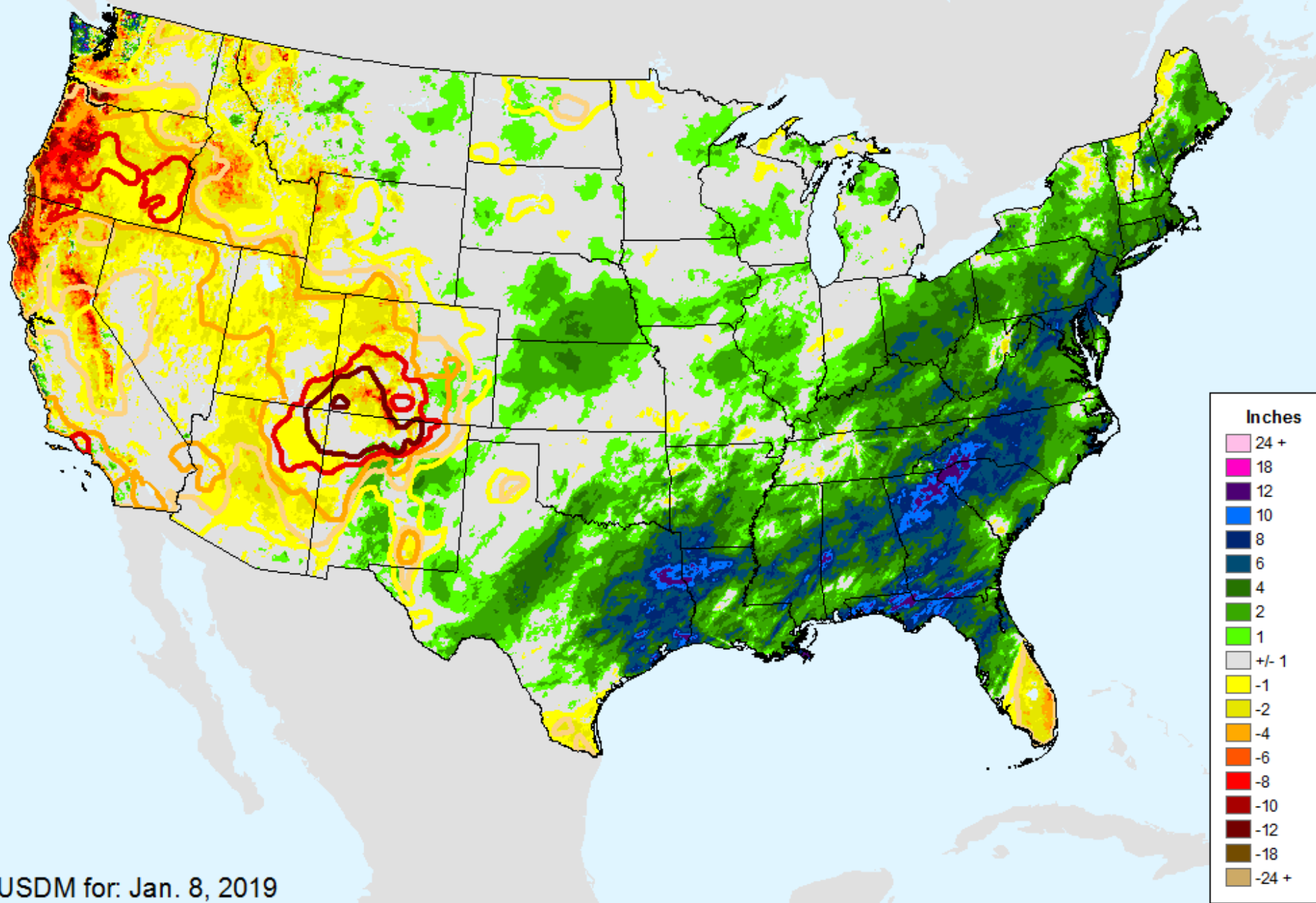


## Percent



# AHPS 90-Day Precip Departure

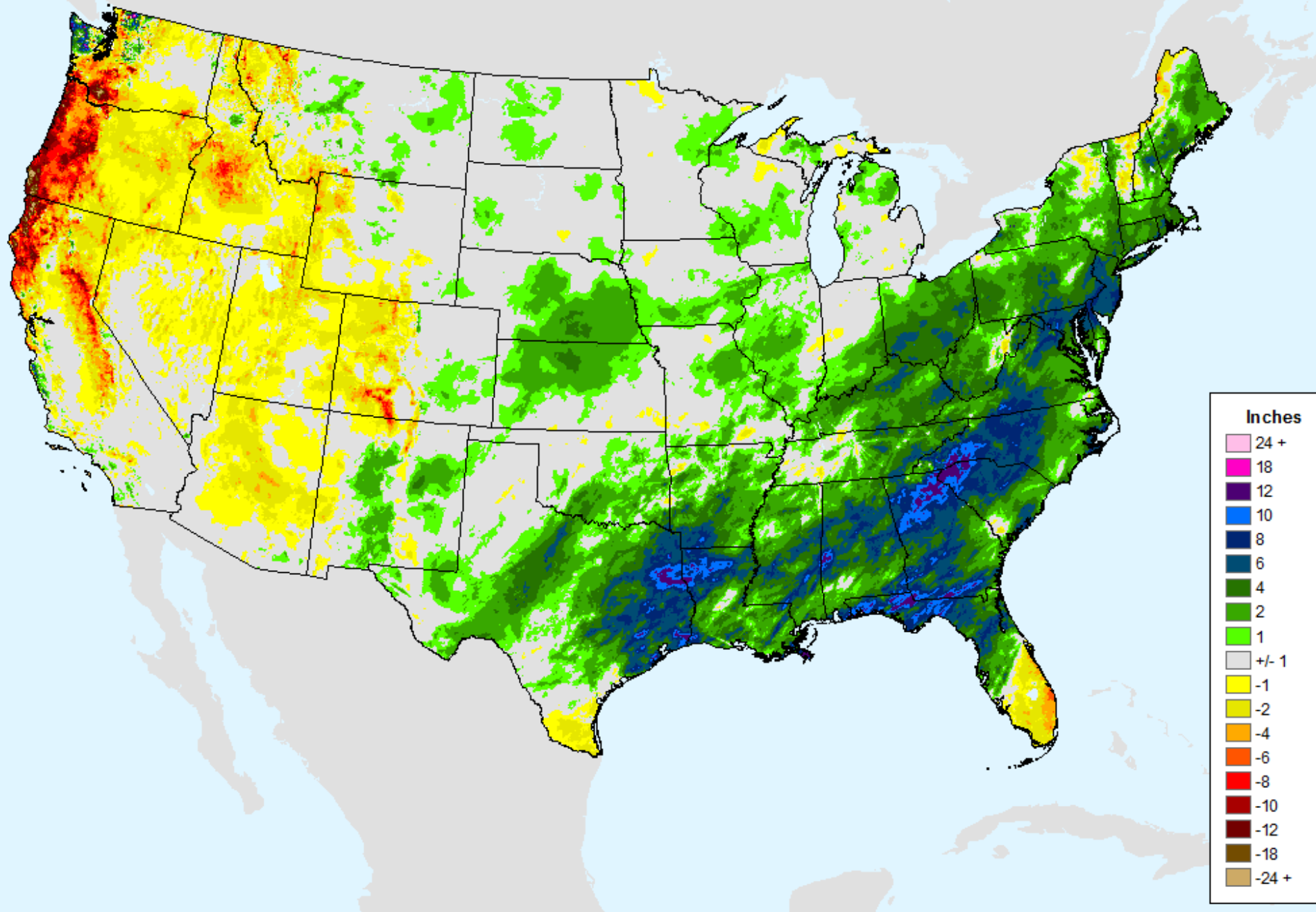
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

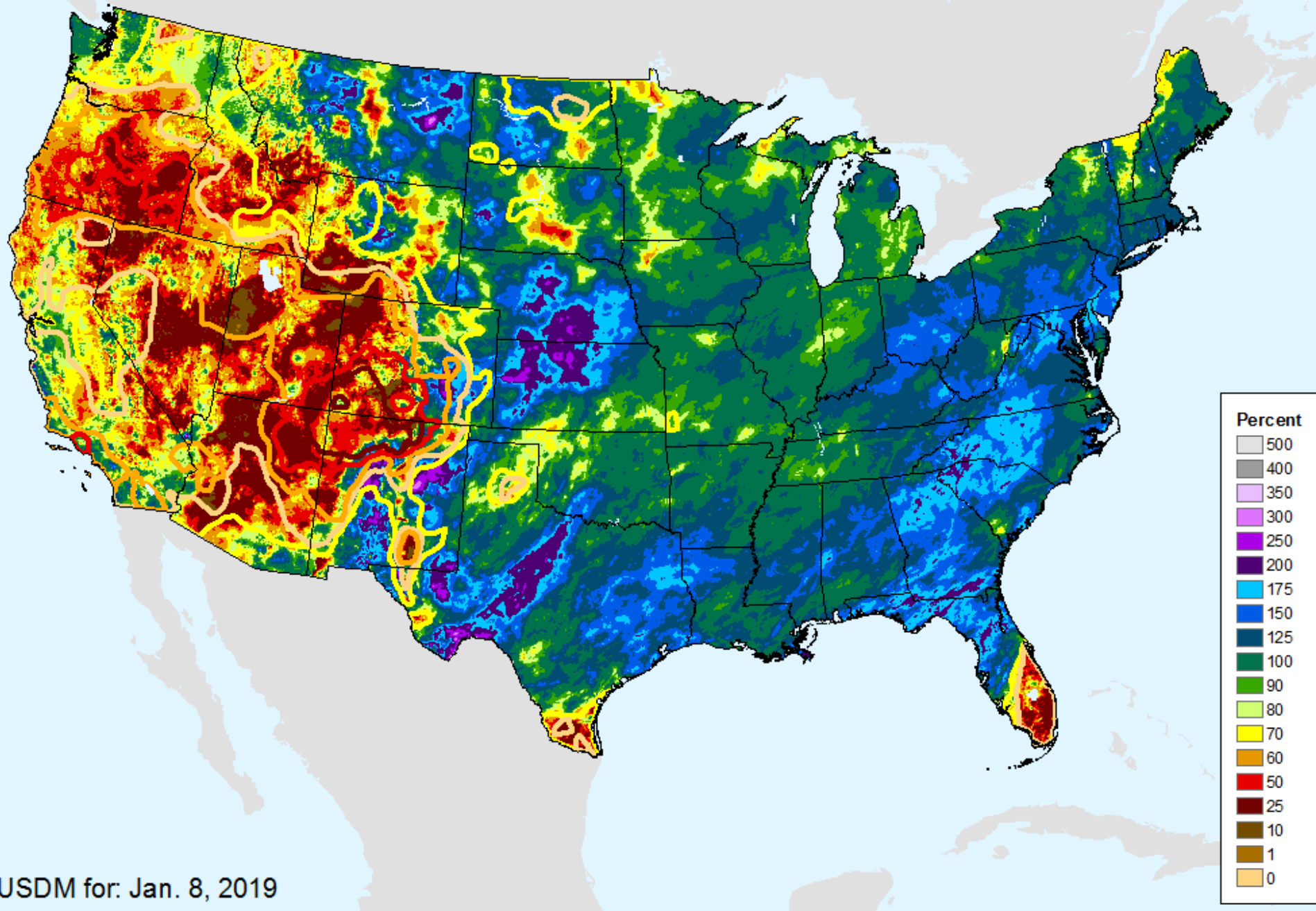
# AHPS 90-Day Precip Departure

As of: Tuesday, January 15, 2019



# AHPS 90-Day Pct of Normal Pcp

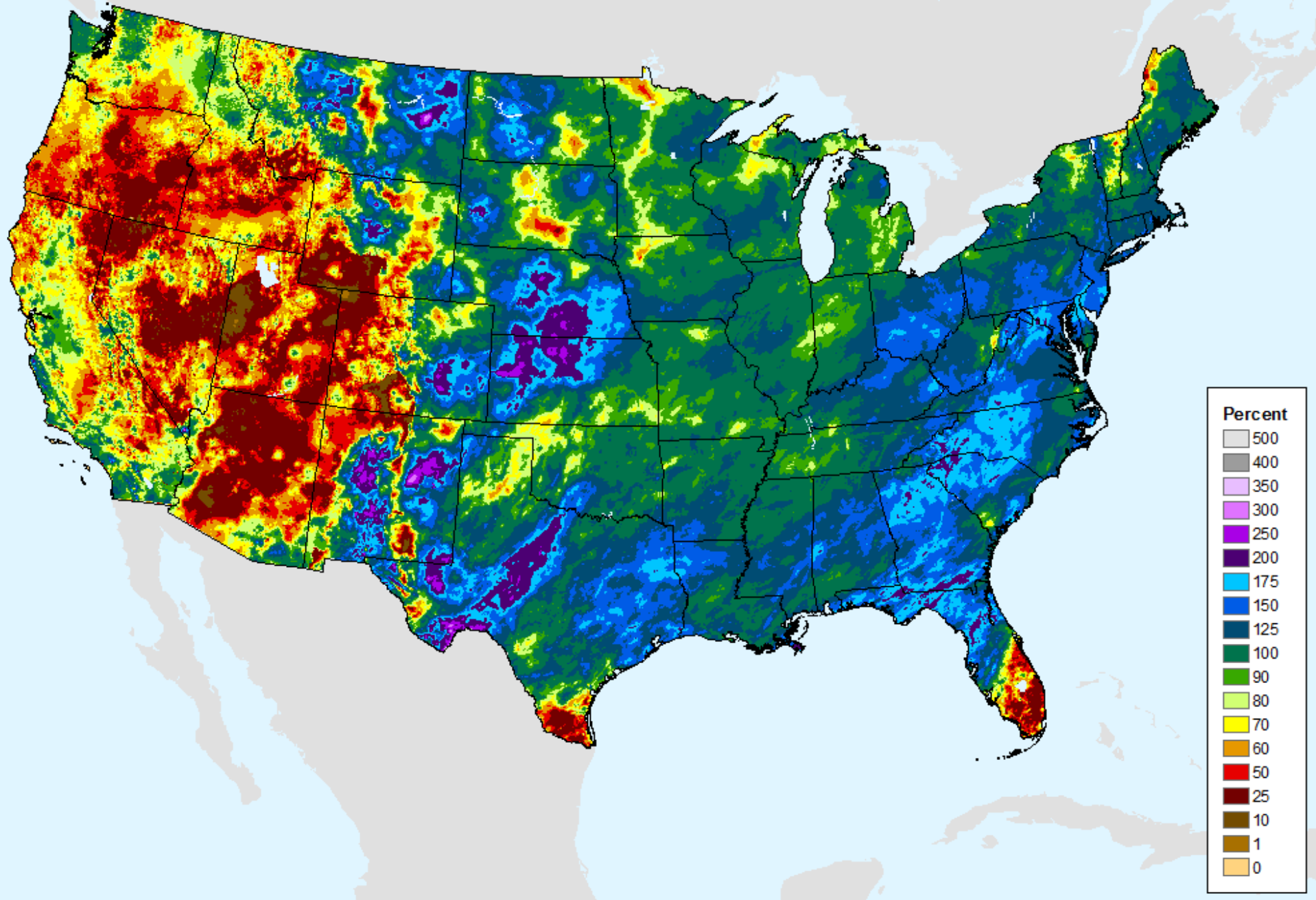
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS 90-Day Pct of Normal Pcp

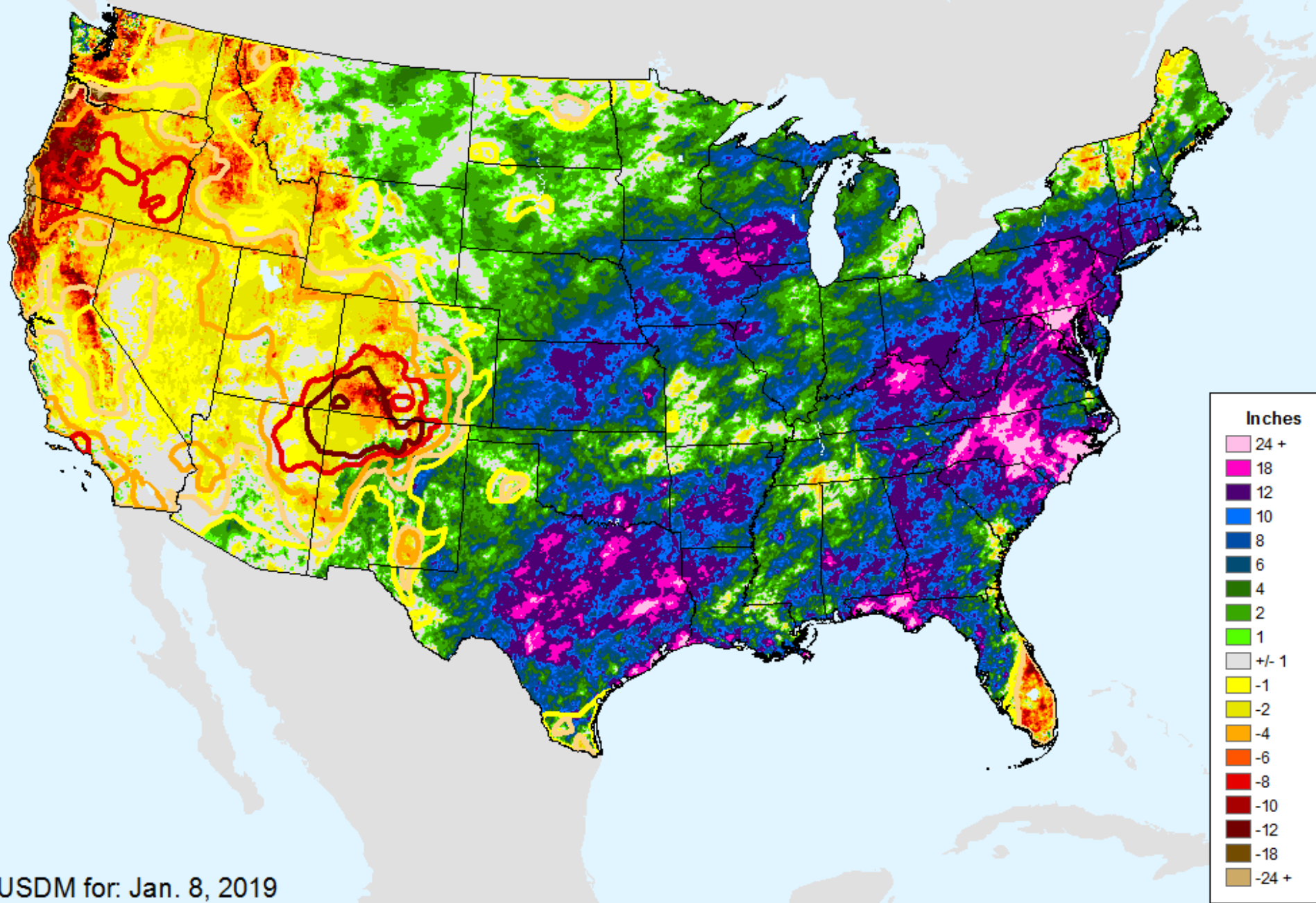
As of: Tuesday, January 15, 2019





# AHPS 180-Day Precip Departure

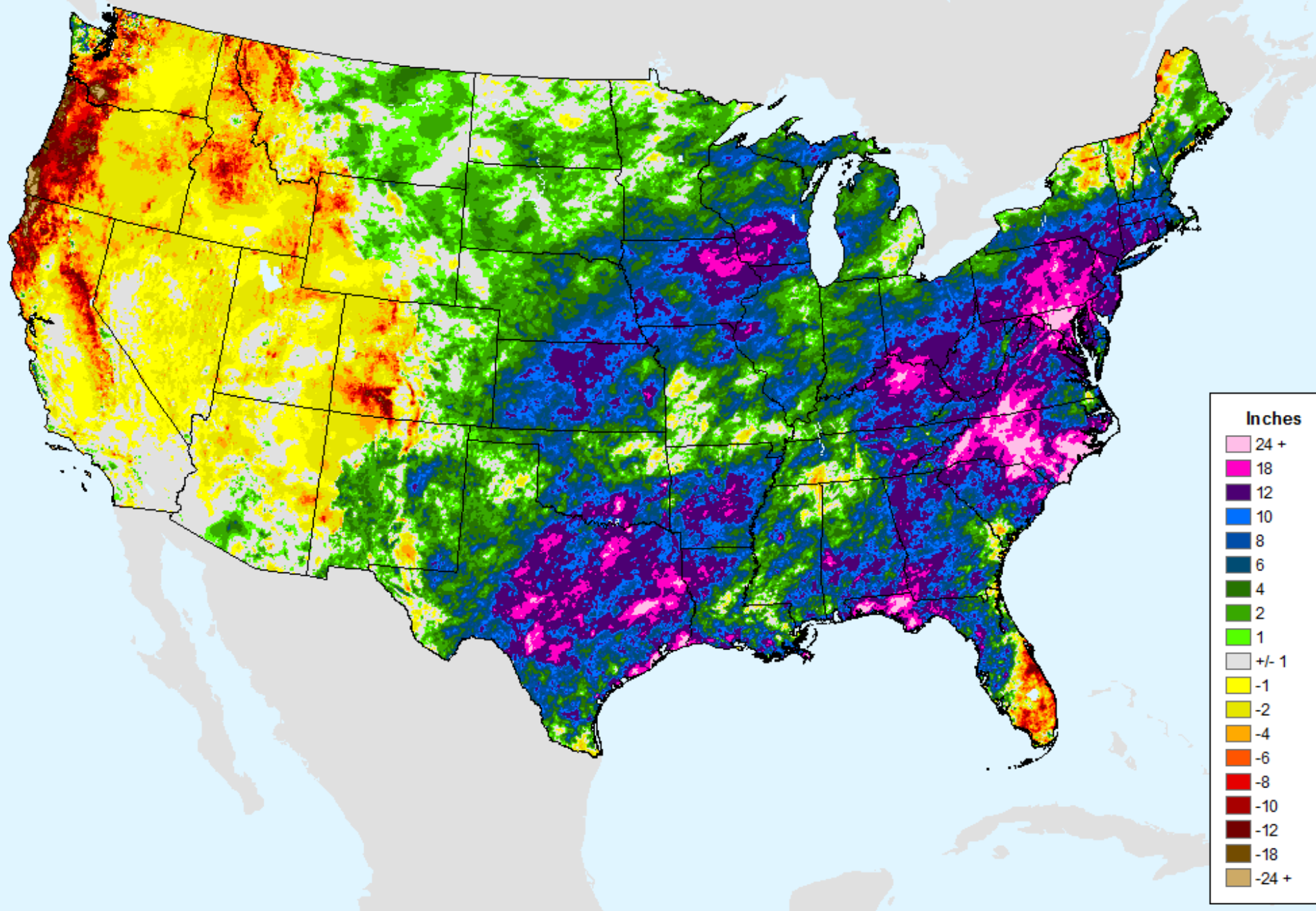
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

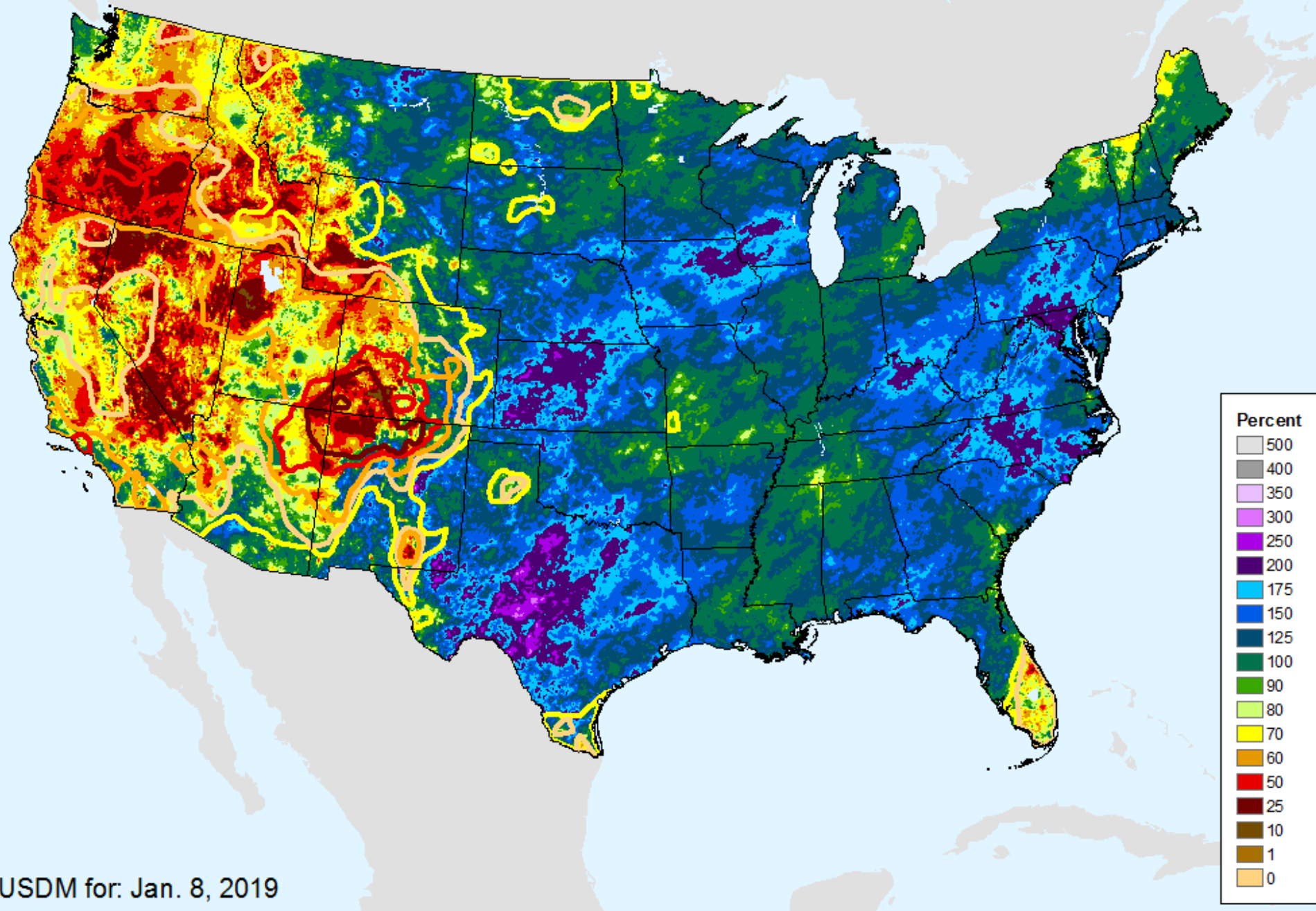
# AHPS 180-Day Precip Departure

As of: Tuesday, January 15, 2019



# AHPS 180-Day Pct of Normal Pcp

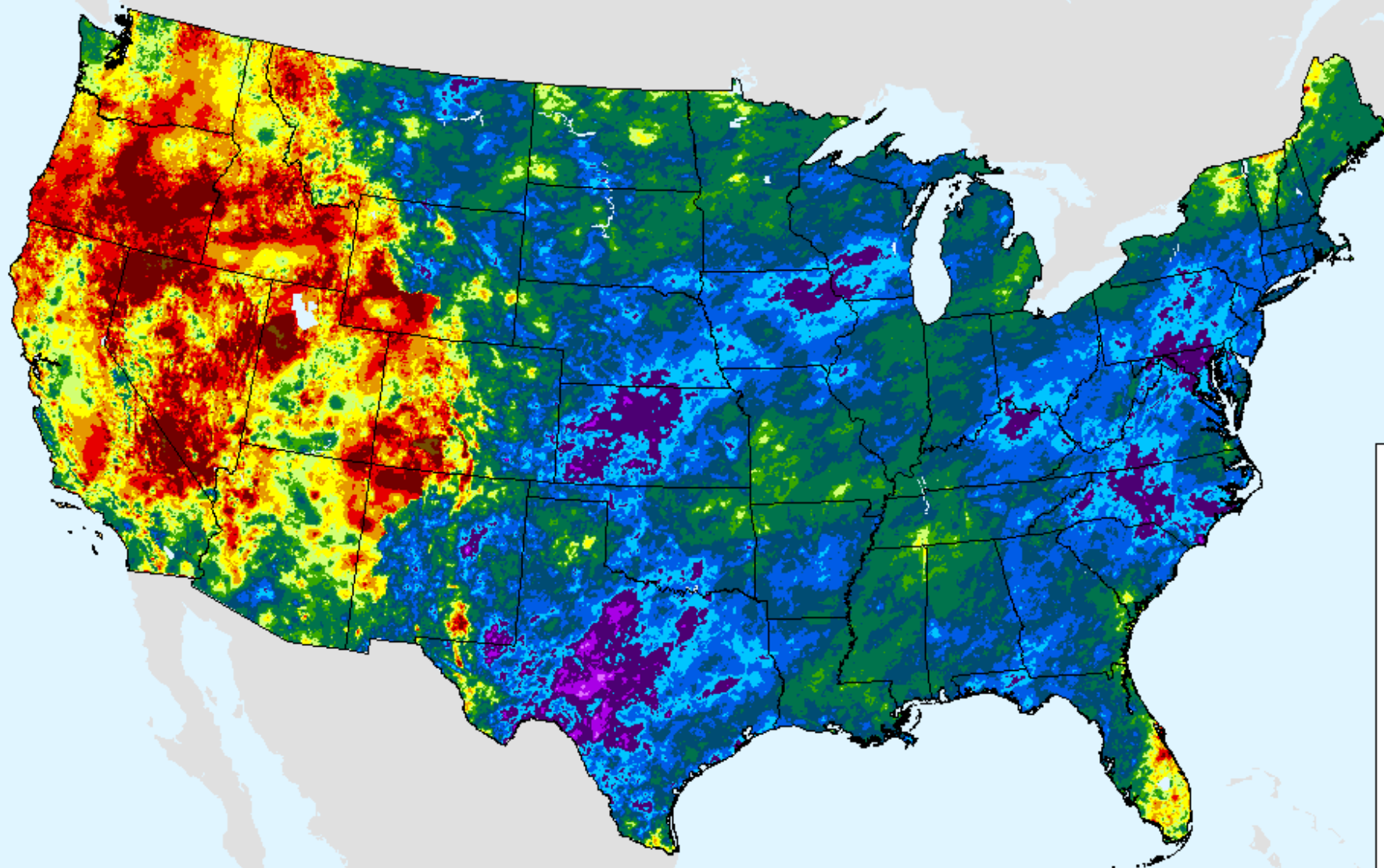
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS 180-Day Pct of Normal Pcp

As of: Tuesday, January 15, 2019

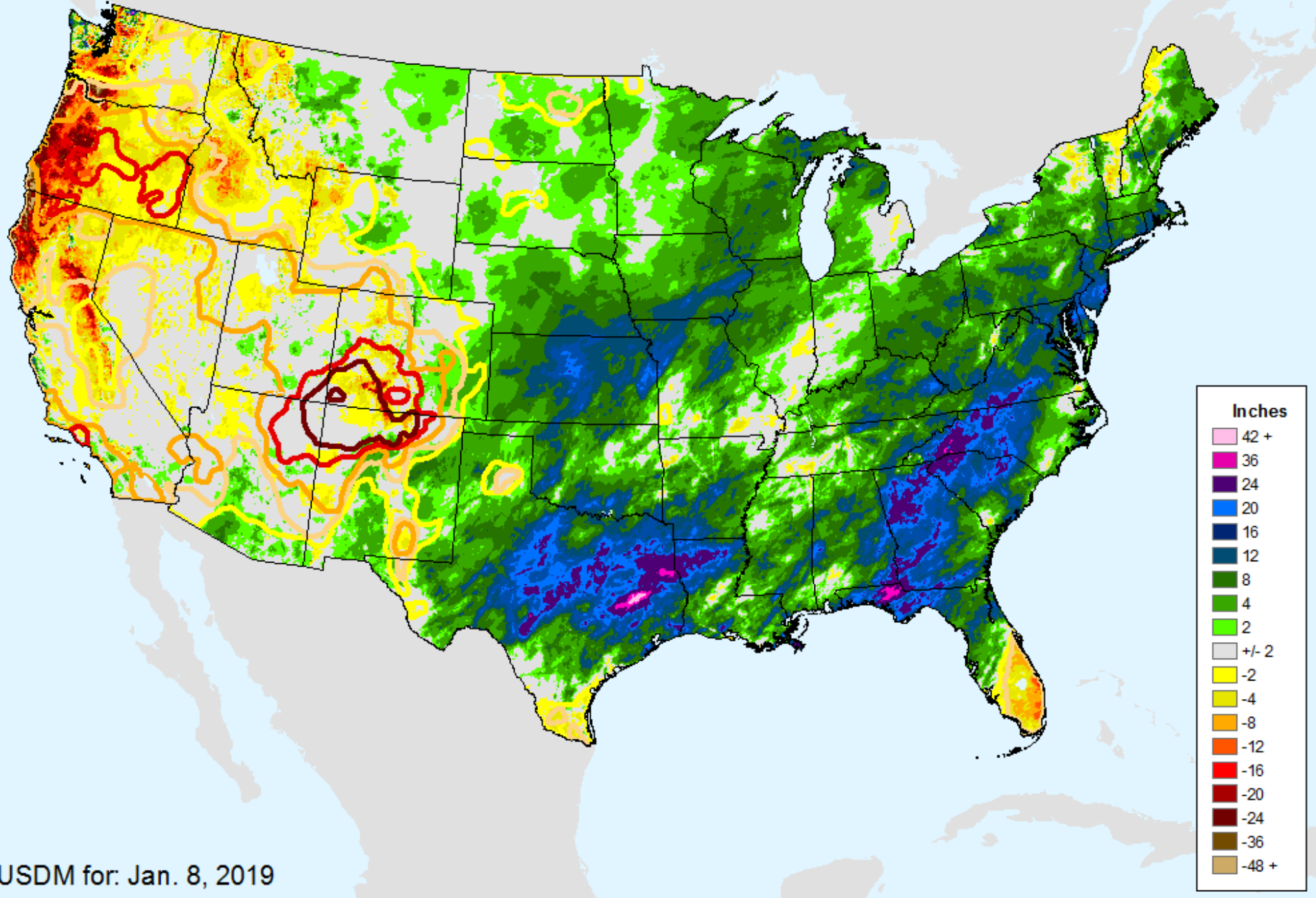


## Percent

- 500
- 400
- 350
- 300
- 250
- 200
- 175
- 150
- 125
- 100
- 90
- 80
- 70
- 60
- 50
- 25
- 10
- 1
- 0

# AHPS Water-Year Precip Departure

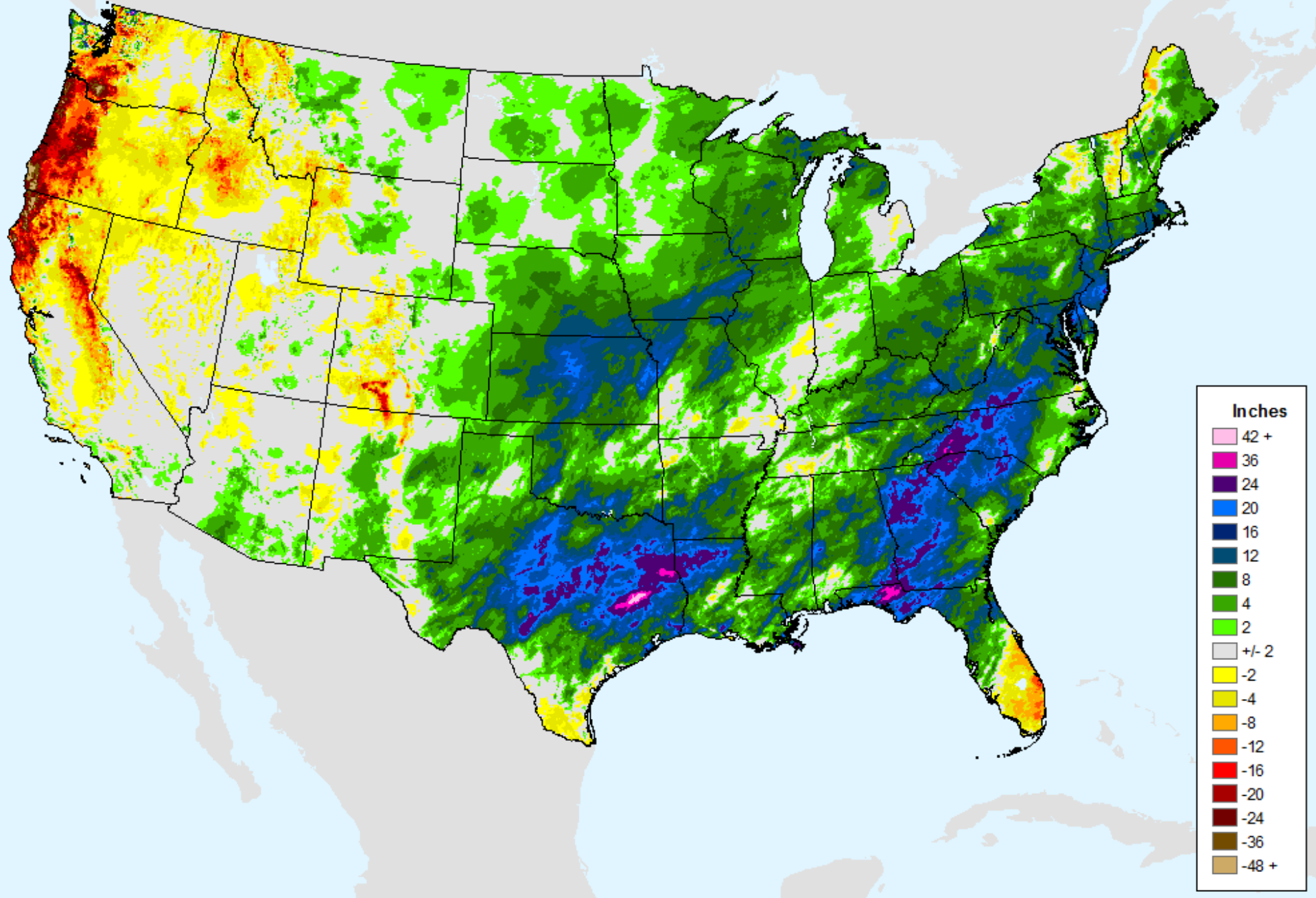
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

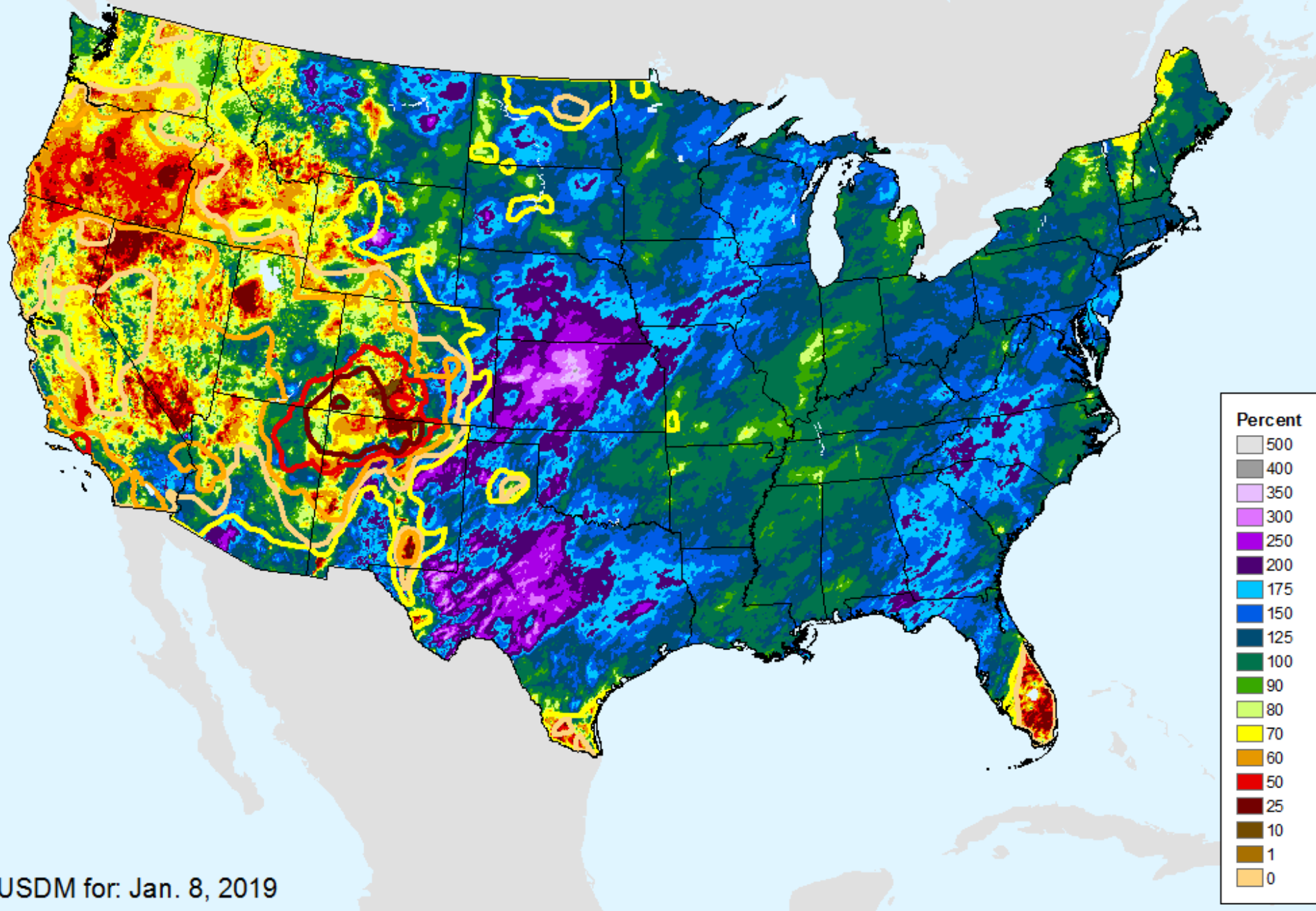
# AHPS Water-Year Precip Departure

As of: Tuesday, January 15, 2019



# AHPS Water-Year Pct of Normal Pcp

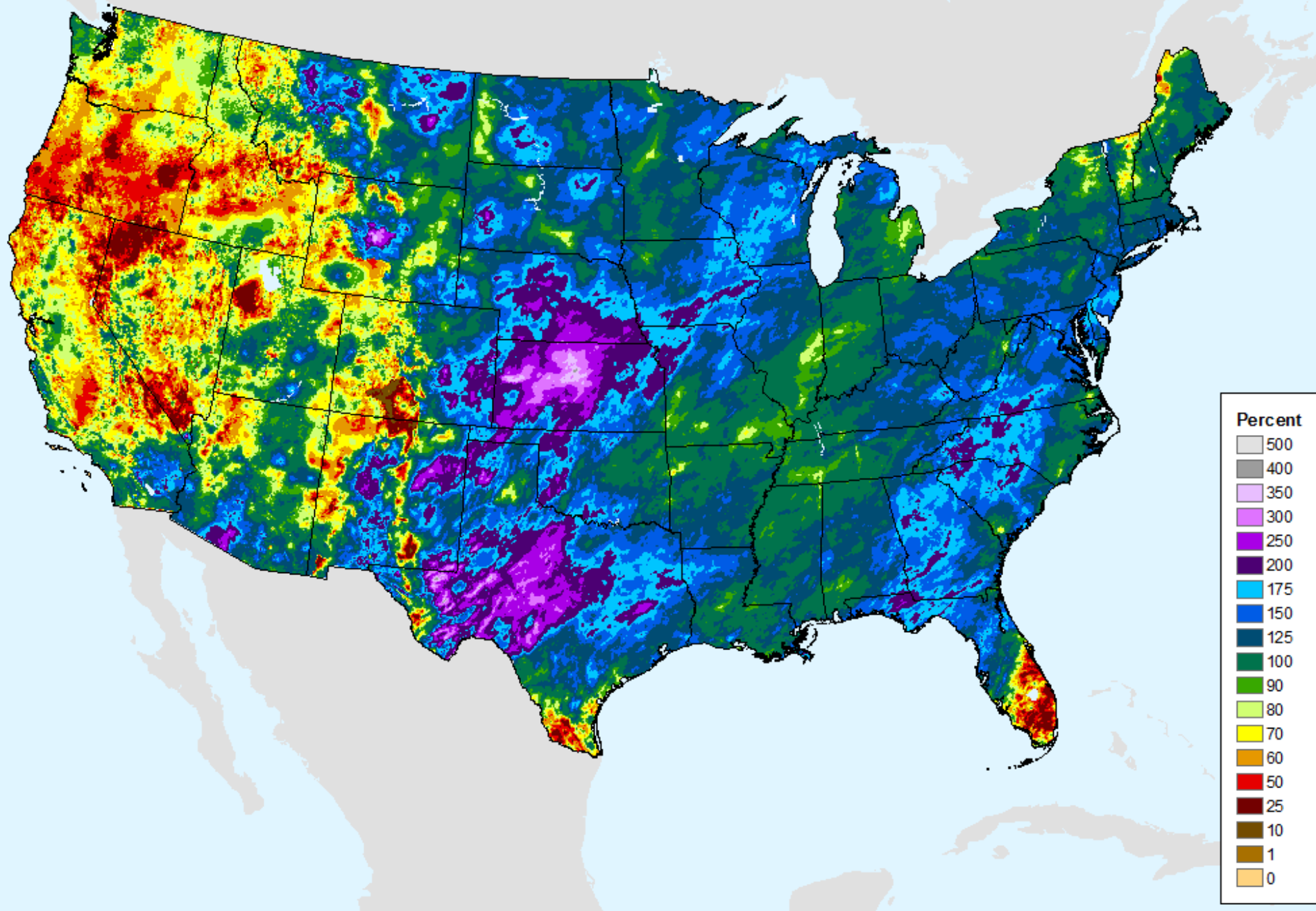
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS Water-Year Pct of Normal Pcp

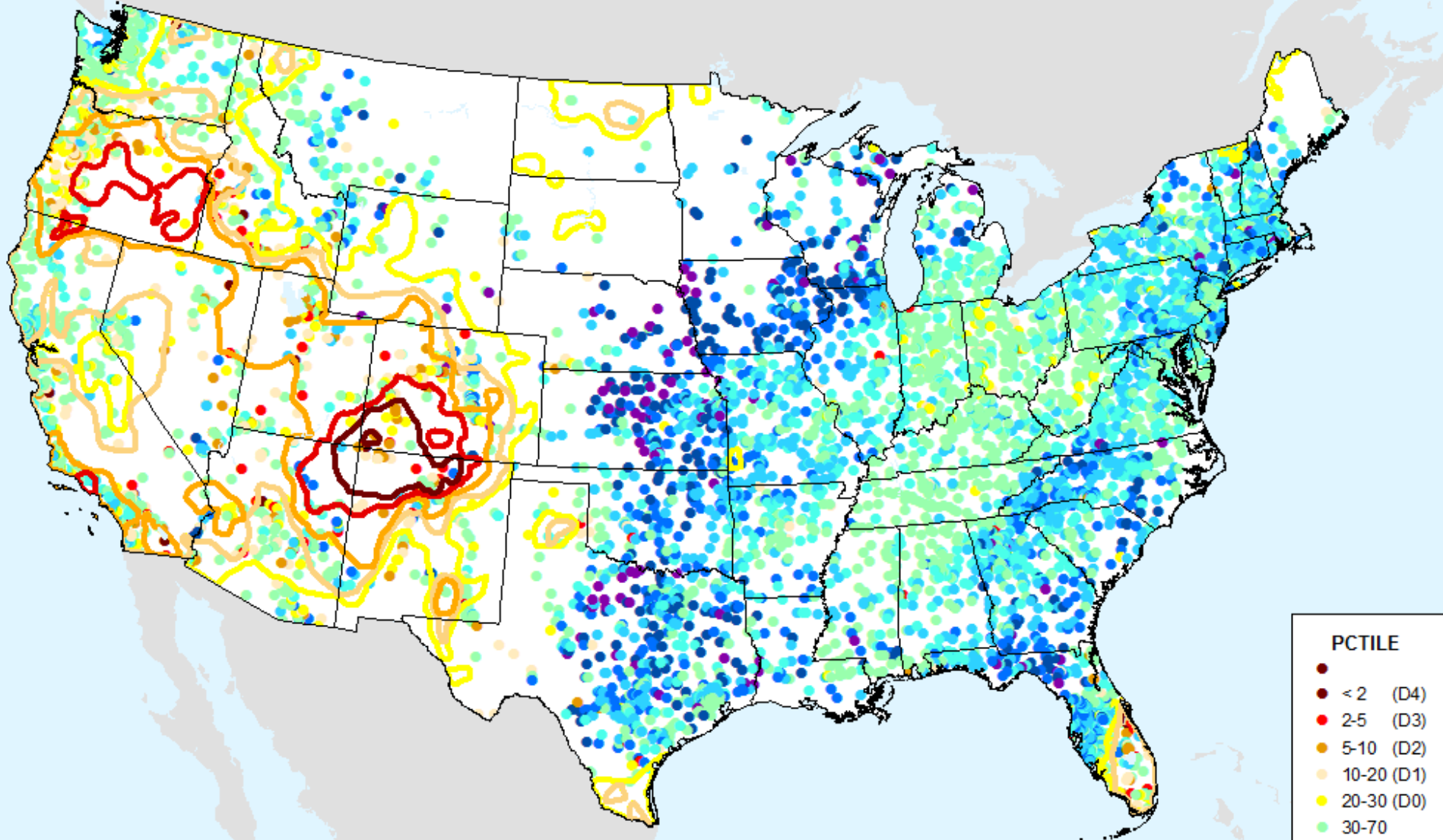
As of: Tuesday, January 15, 2019





# USGS 7-Day Avg Streamflow

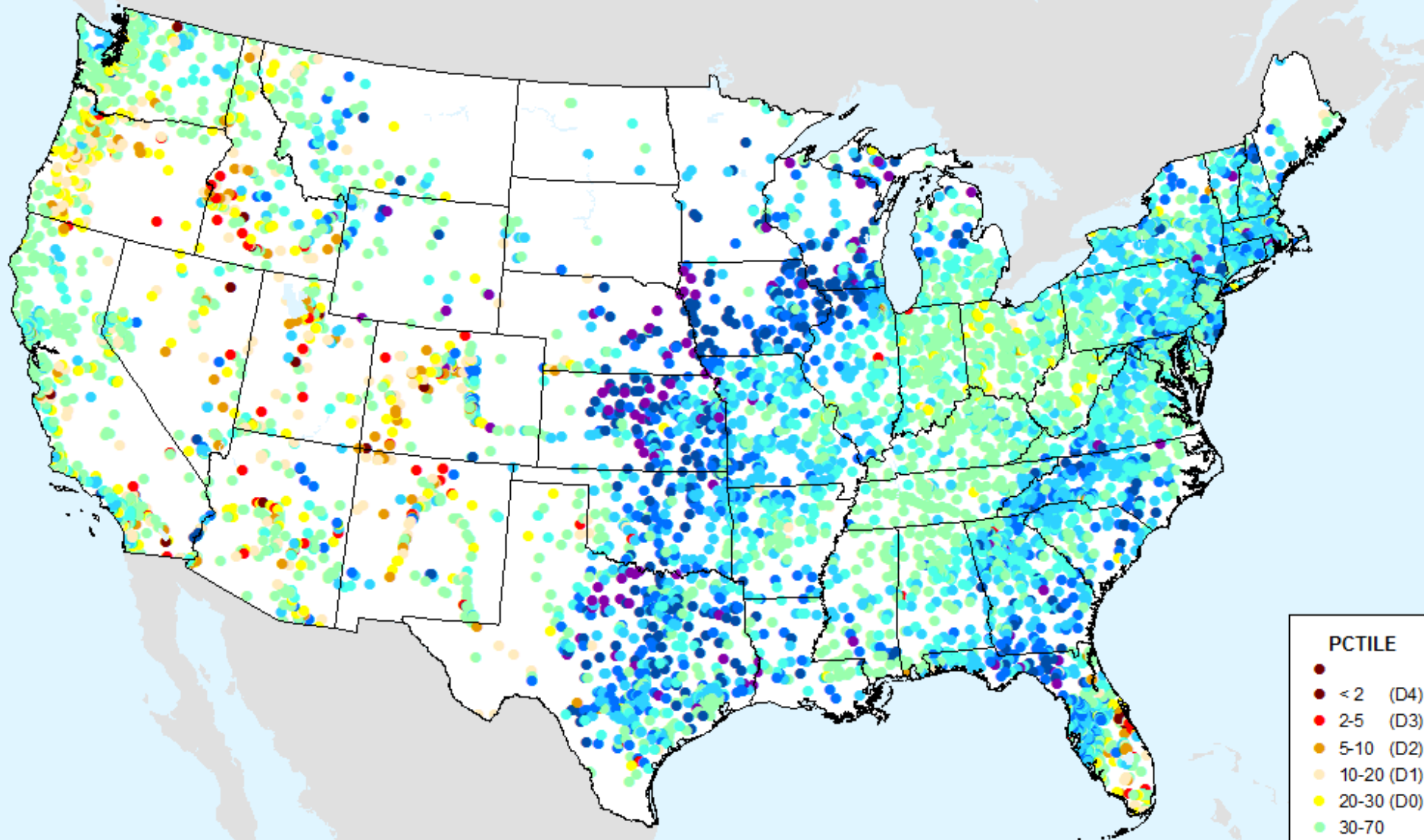
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# USGS 7-Day Avg Streamflow

As of: Tuesday, January 15, 2019

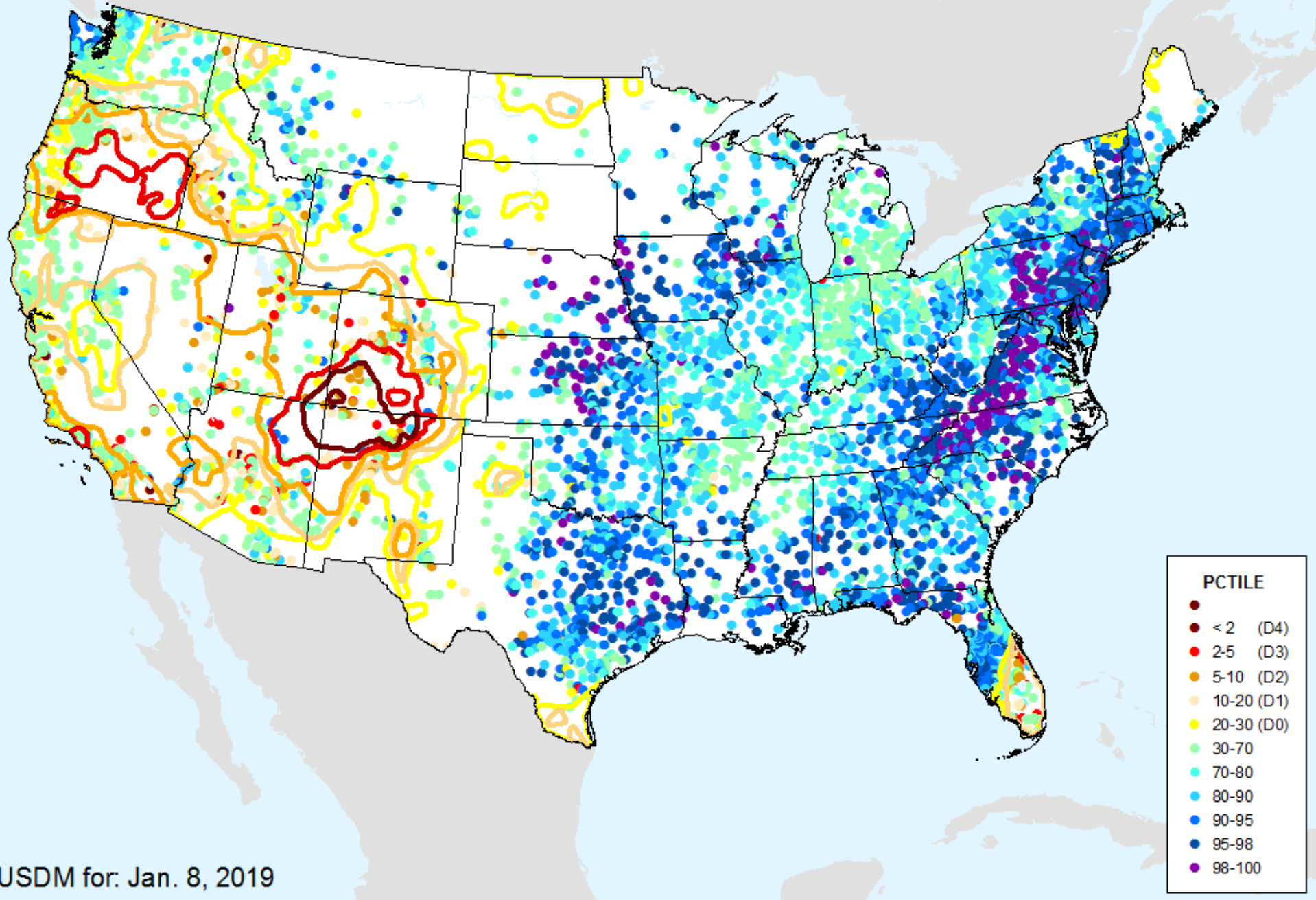


## PCTILE

- < 2 (D4)
- 2-5 (D3)
- 5-10 (D2)
- 10-20 (D1)
- 20-30 (D0)
- 30-70
- 70-80
- 80-90
- 90-95
- 95-98
- 98-100

# USGS 28-Day Avg Streamflow

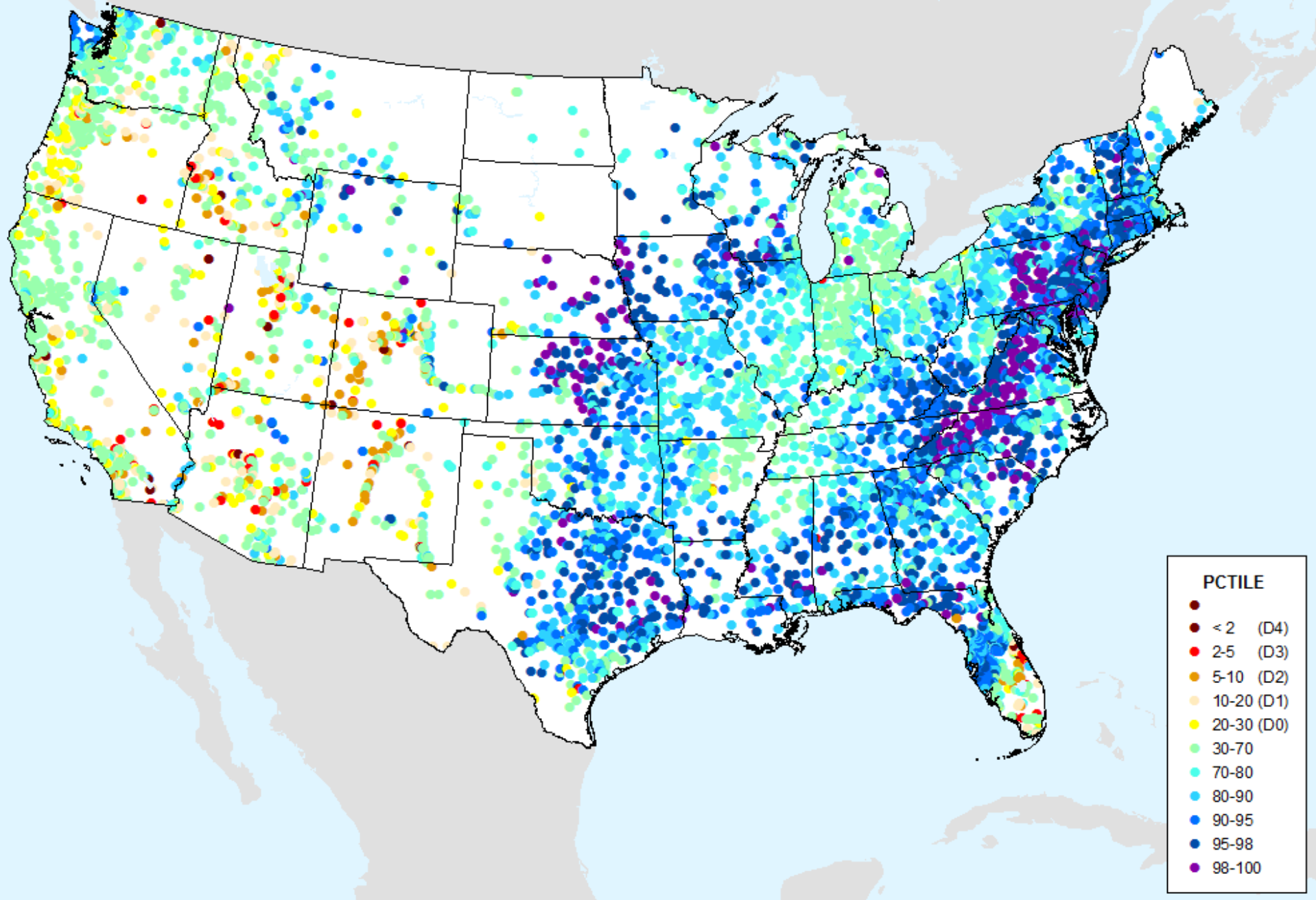
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

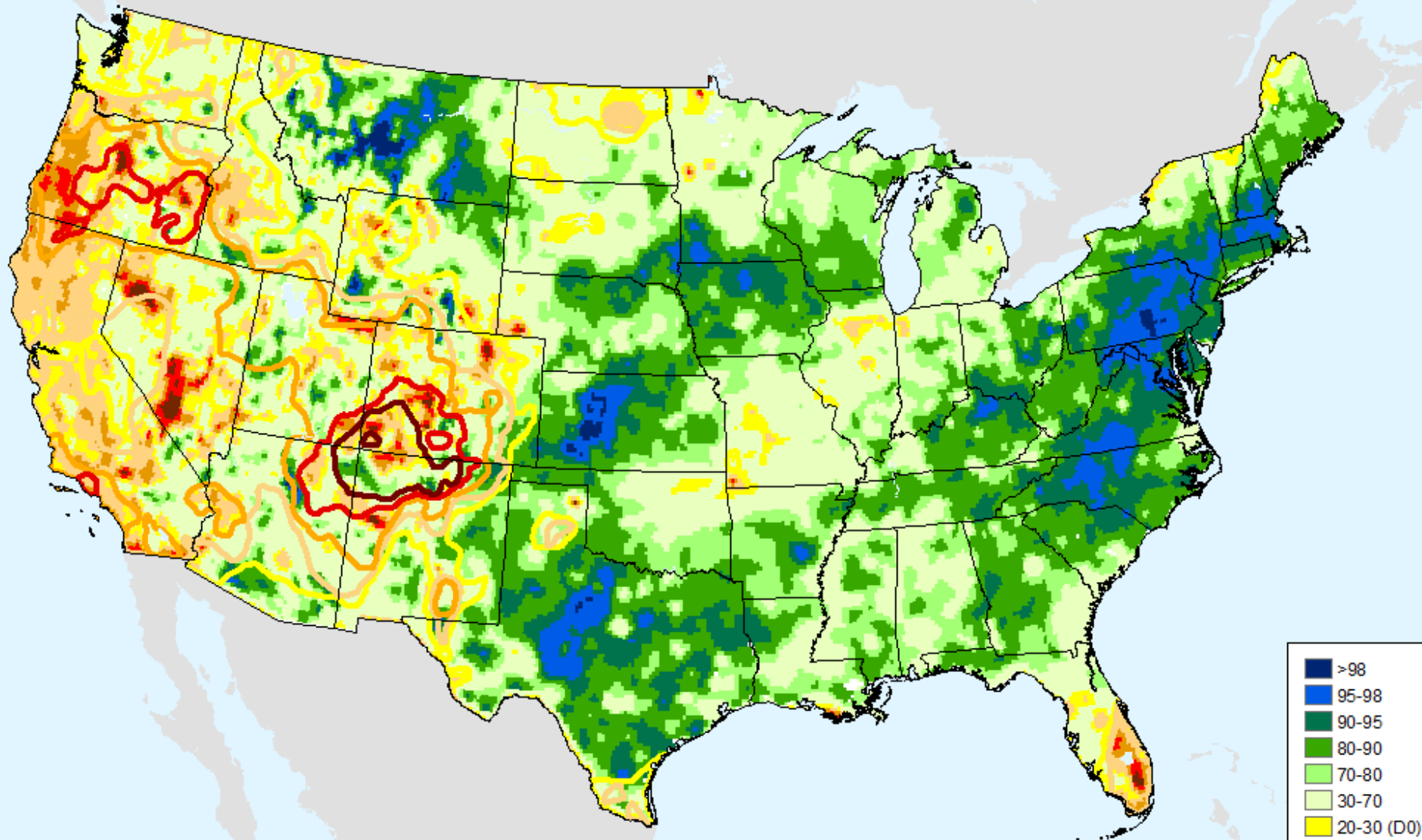
# USGS 28-Day Avg Streamflow

As of: Tuesday, January 15, 2019



# NLDAS Top 1m Soil Moisture

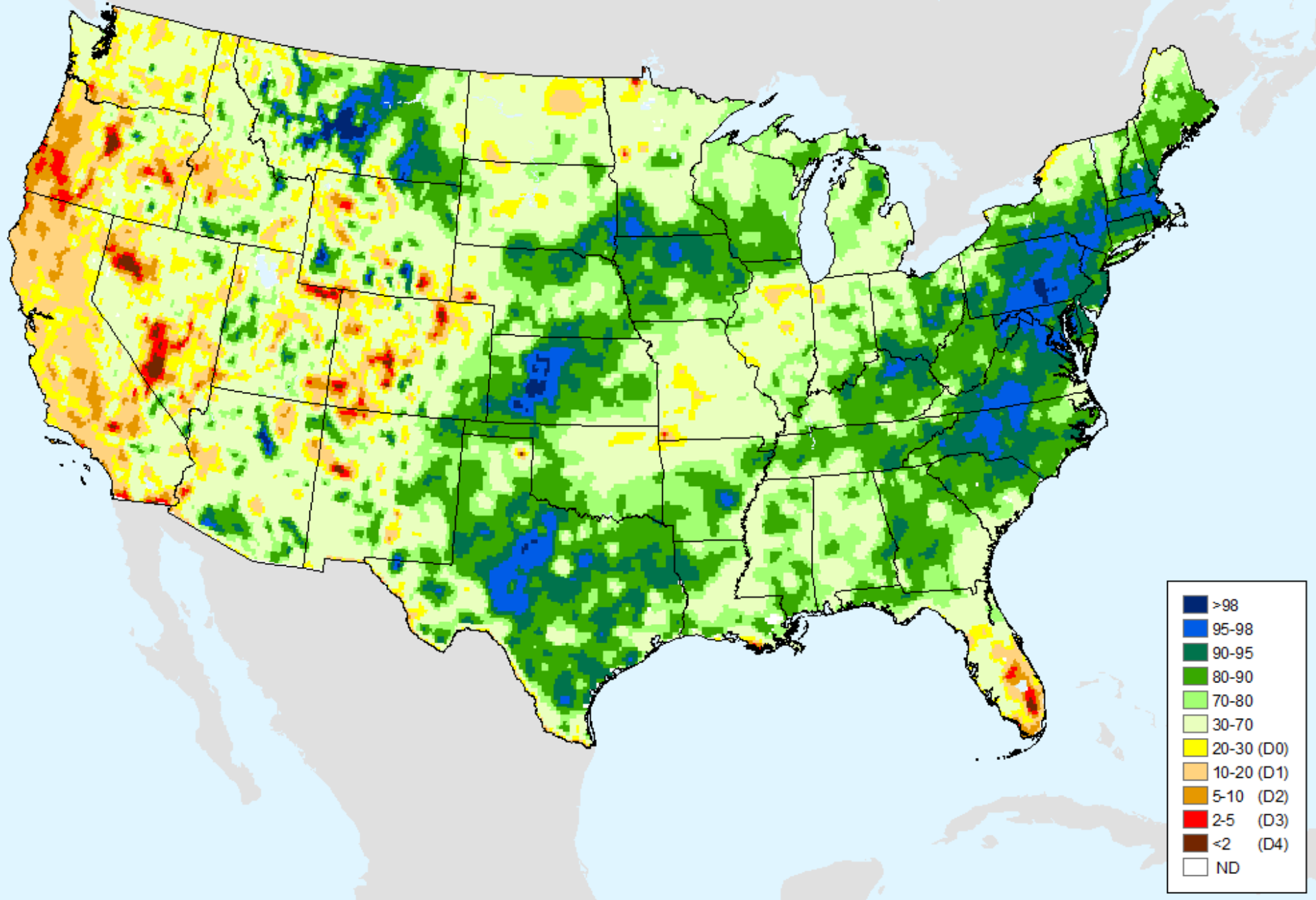
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

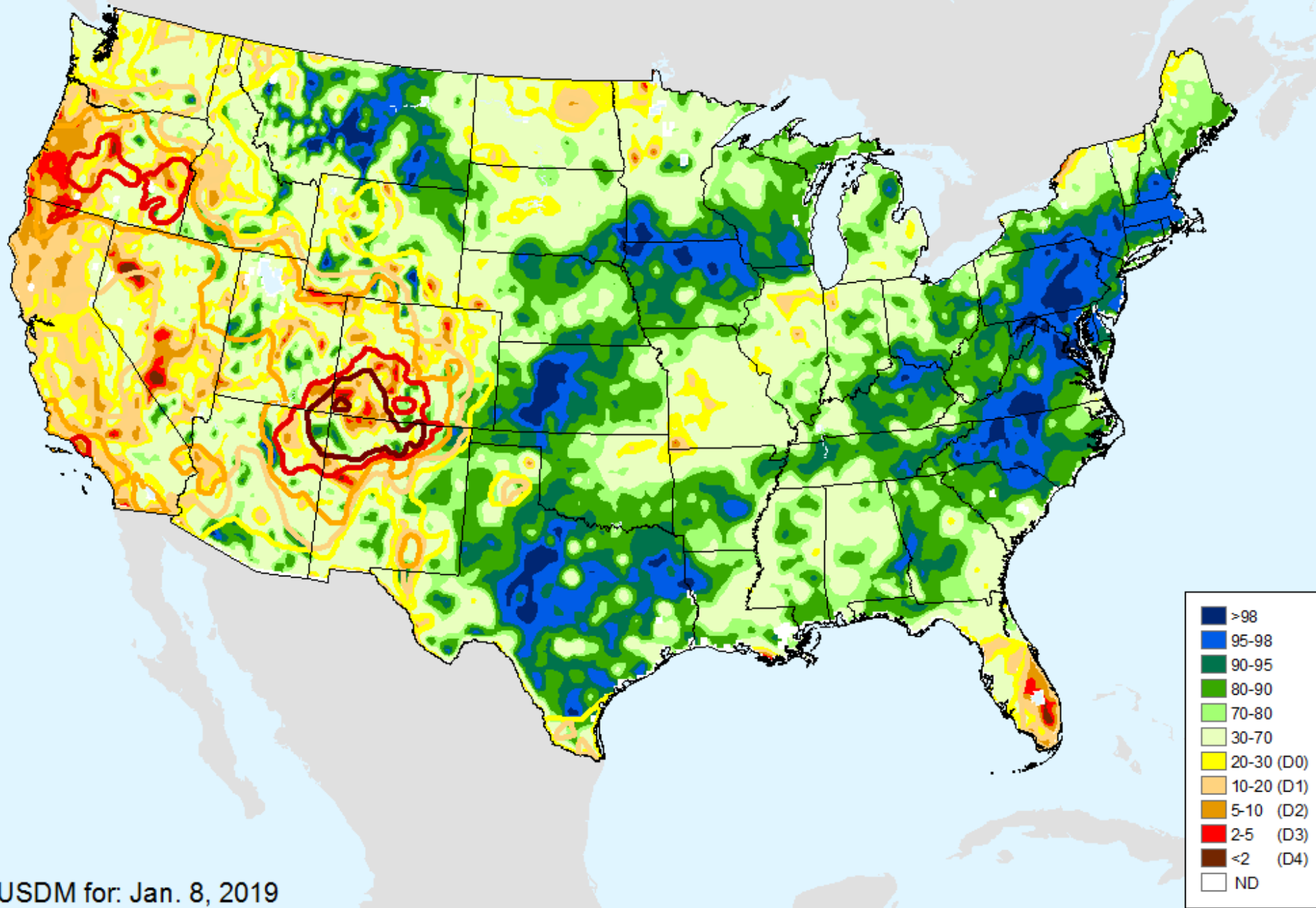
# NLDAS Top 1m Soil Moisture

As of: Tuesday, January 15, 2019



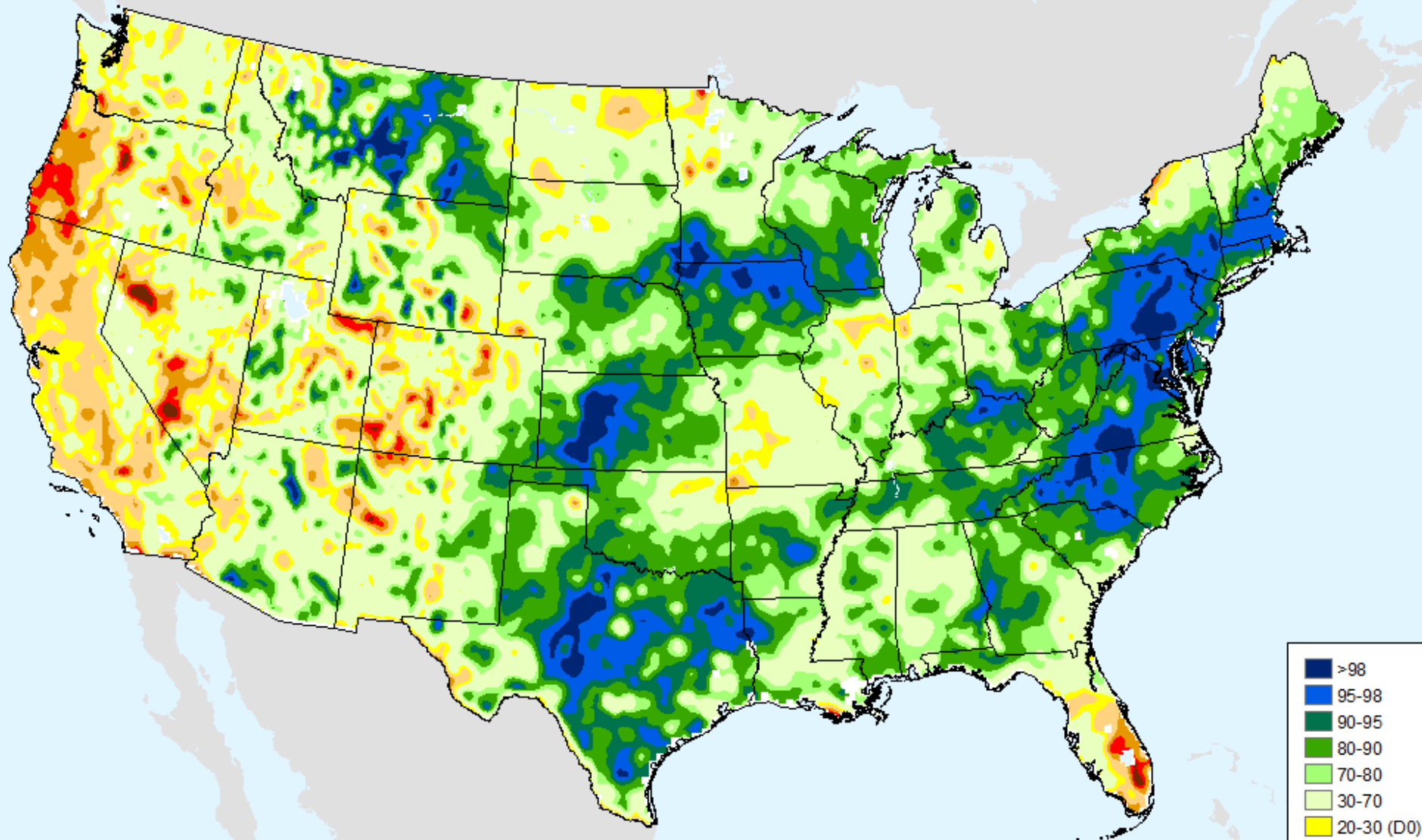
# NLDAS Total Column Soil Moisture

As of: Tuesday, January 15, 2019



# NLDAS Total Column Soil Moisture

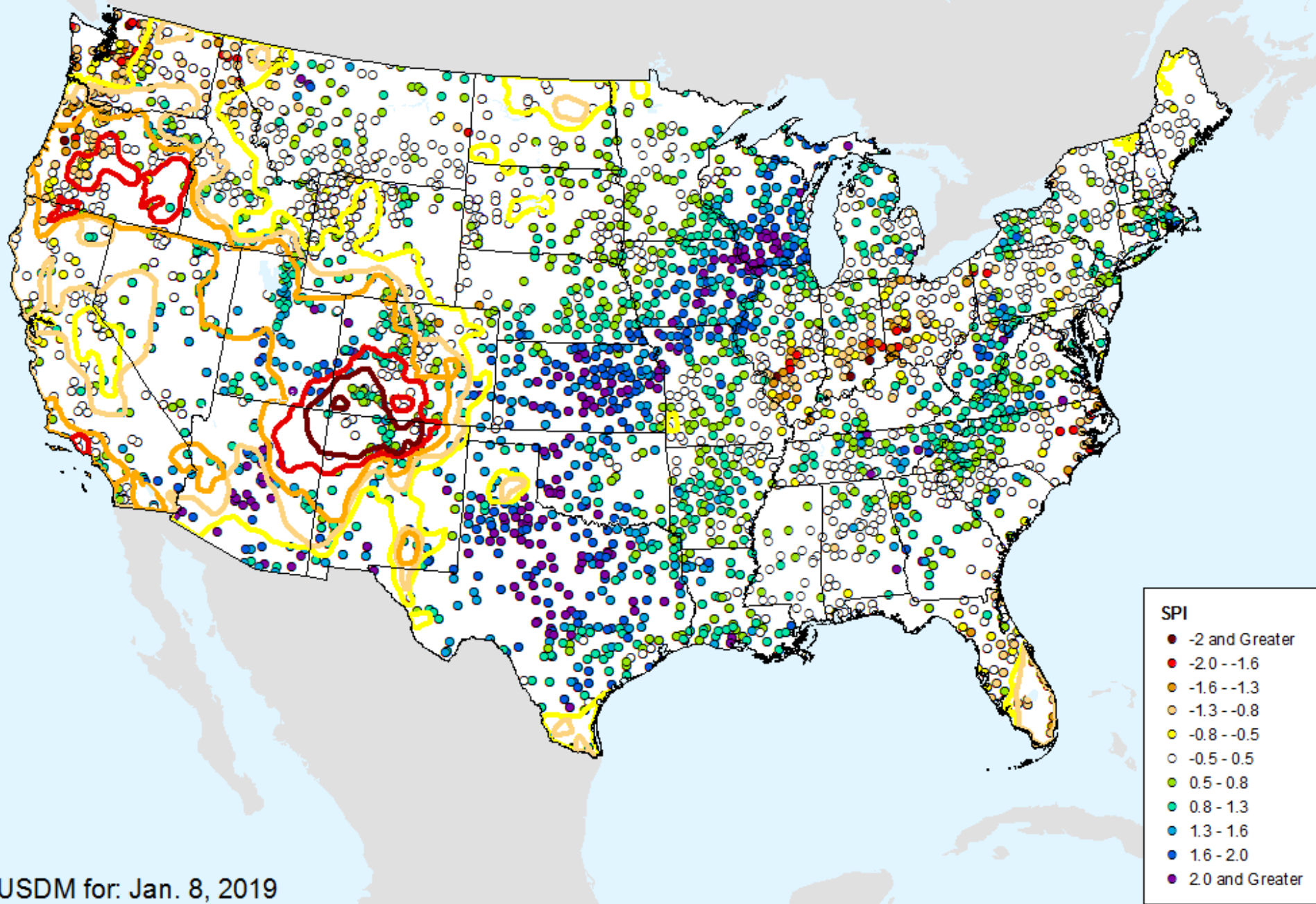
As of: Tuesday, January 15, 2019





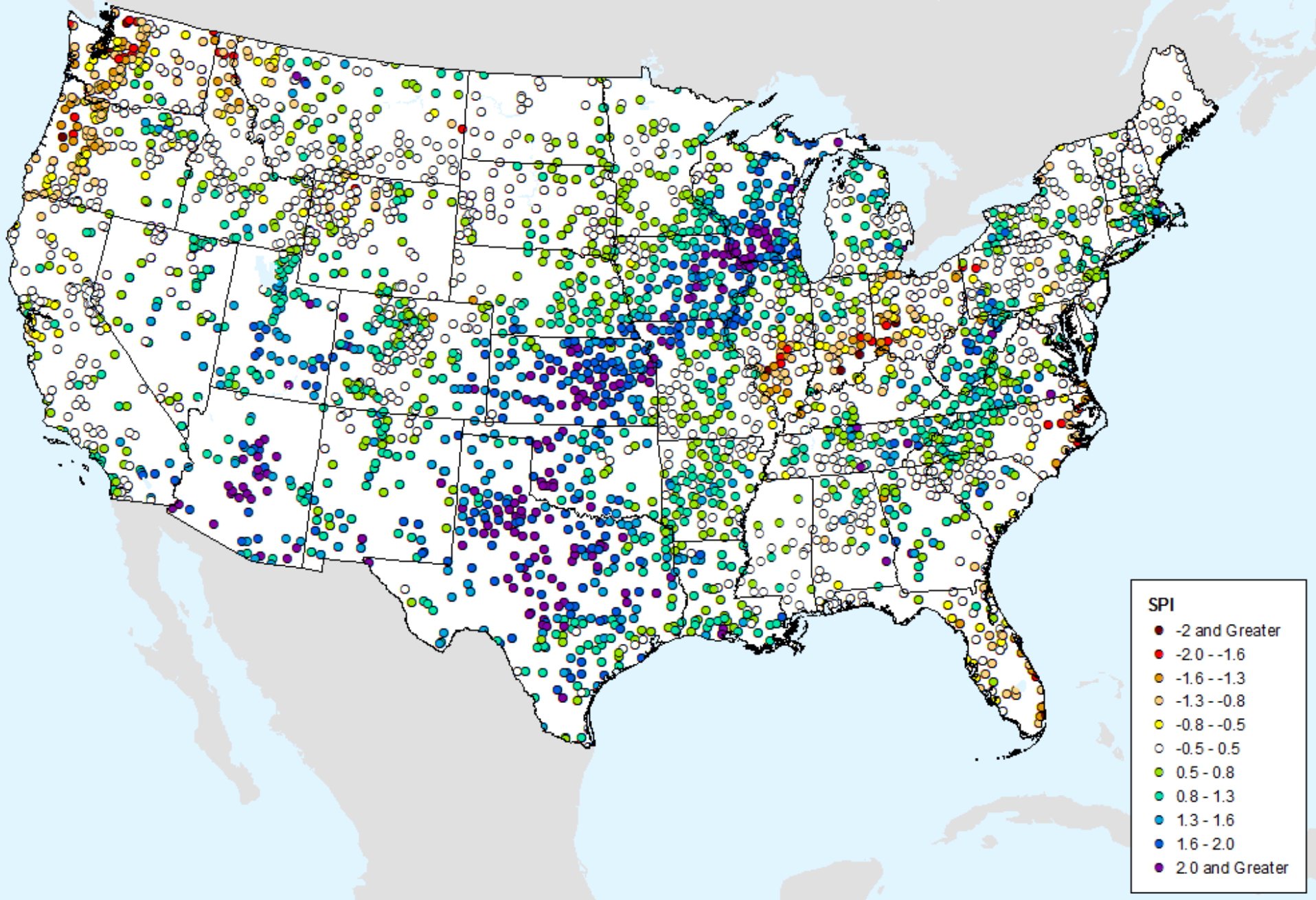
# HPRCC 1-month SPI

As of: Tuesday, January 15, 2019



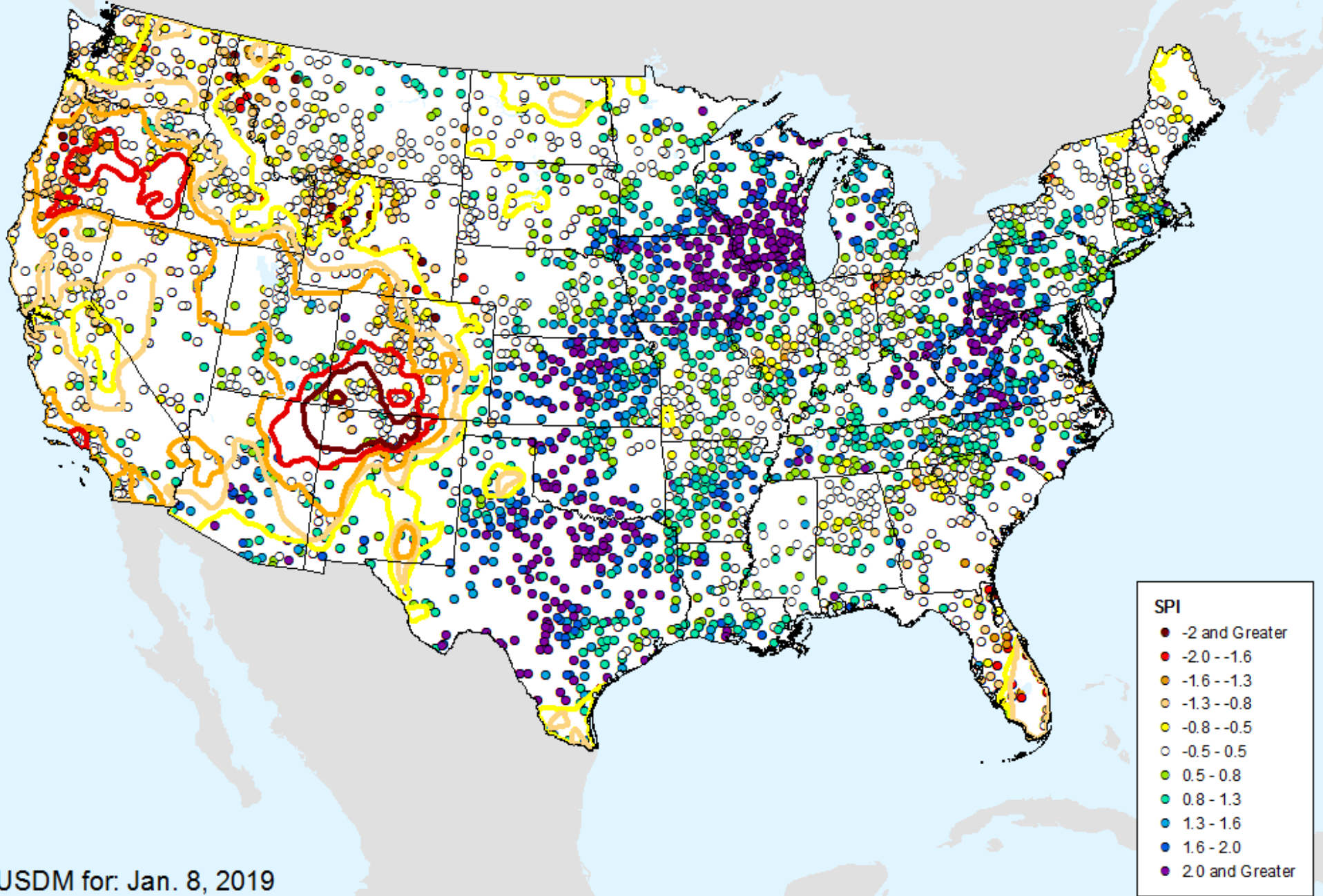
# HPRCC 1-month SPI

As of: Tuesday, January 15, 2019



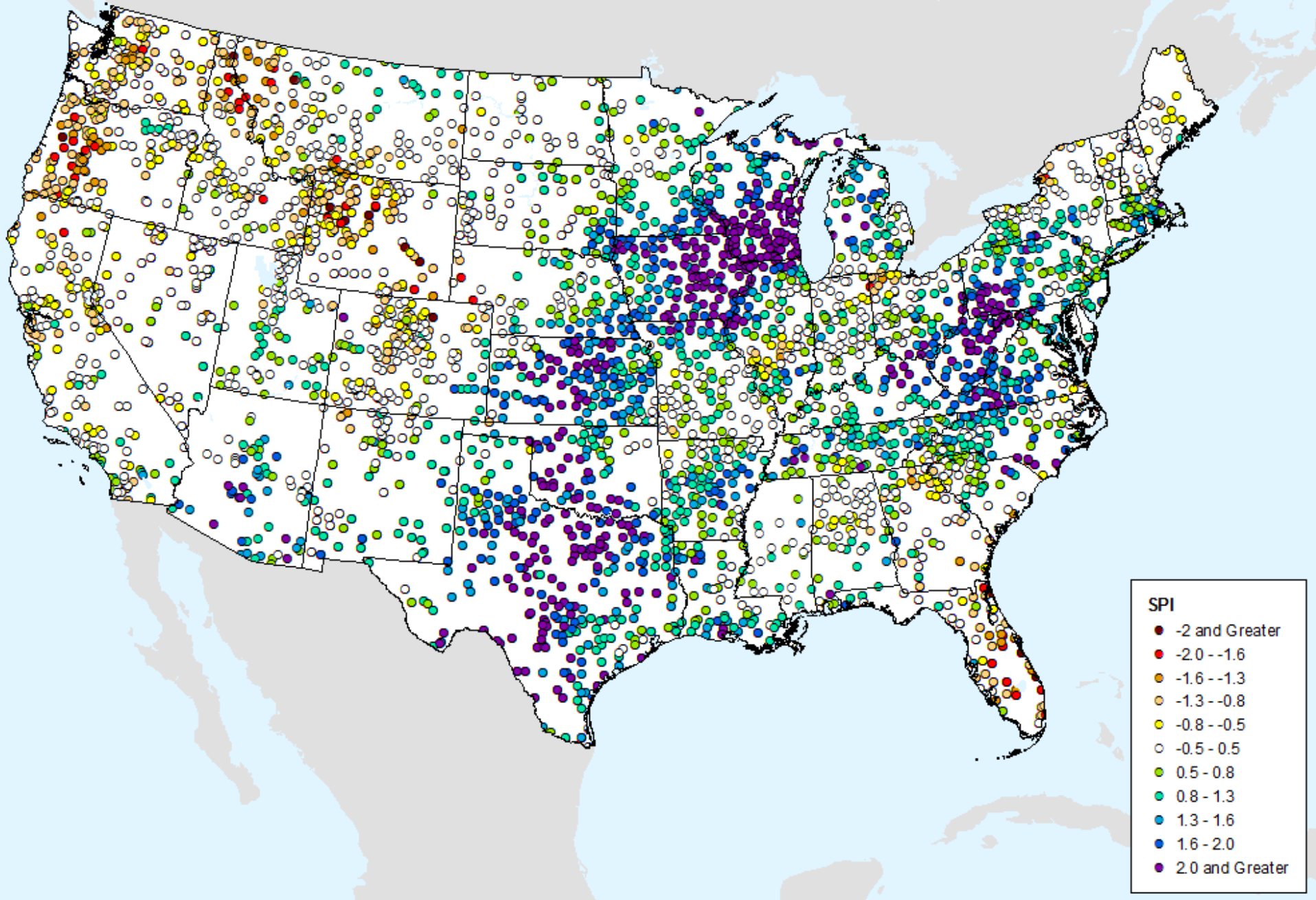
# HPRCC 2-month SPI

As of: Tuesday, January 15, 2019



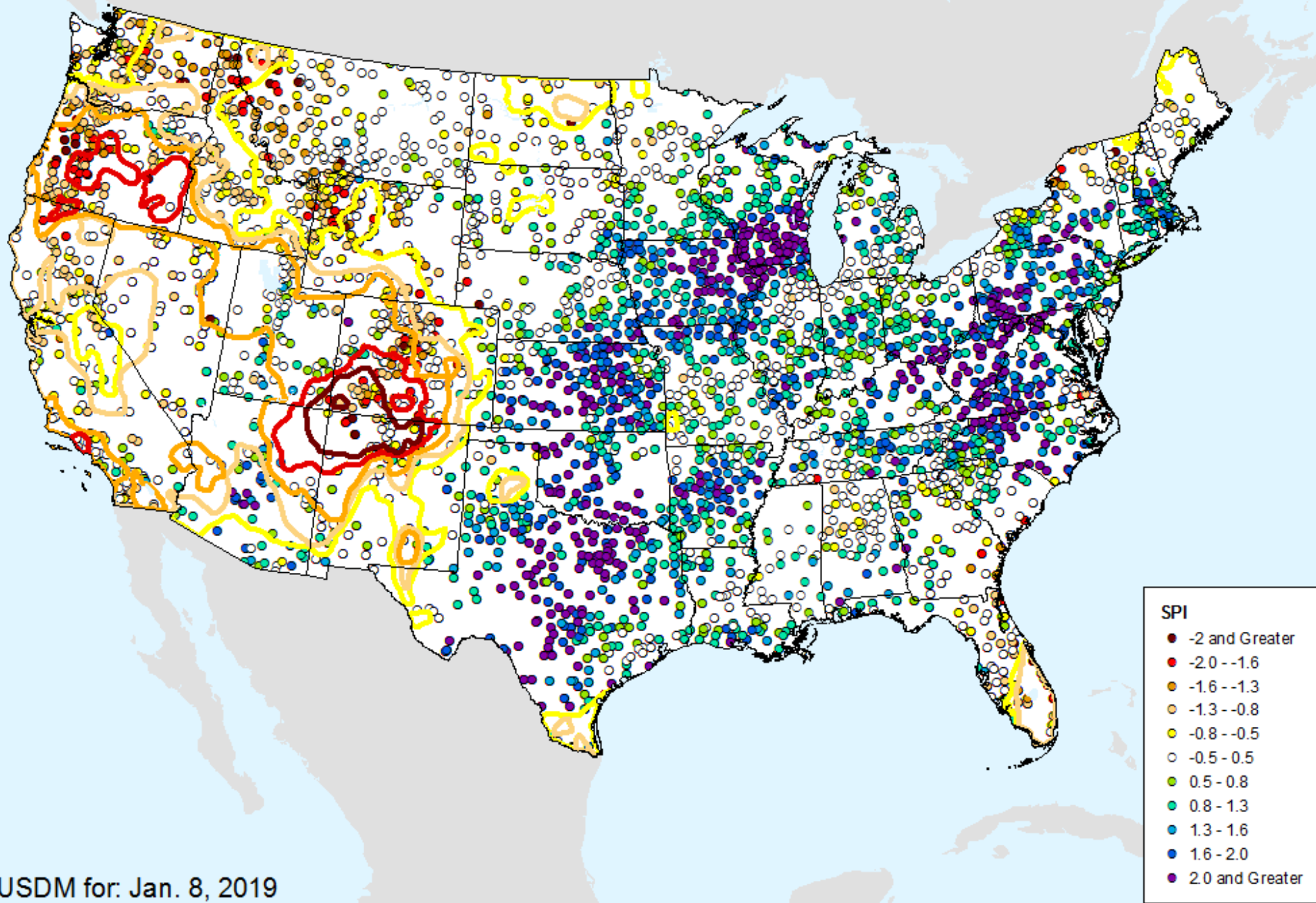
# HPRCC 2-month SPI

As of: Tuesday, January 15, 2019



# HPRCC 3-month SPI

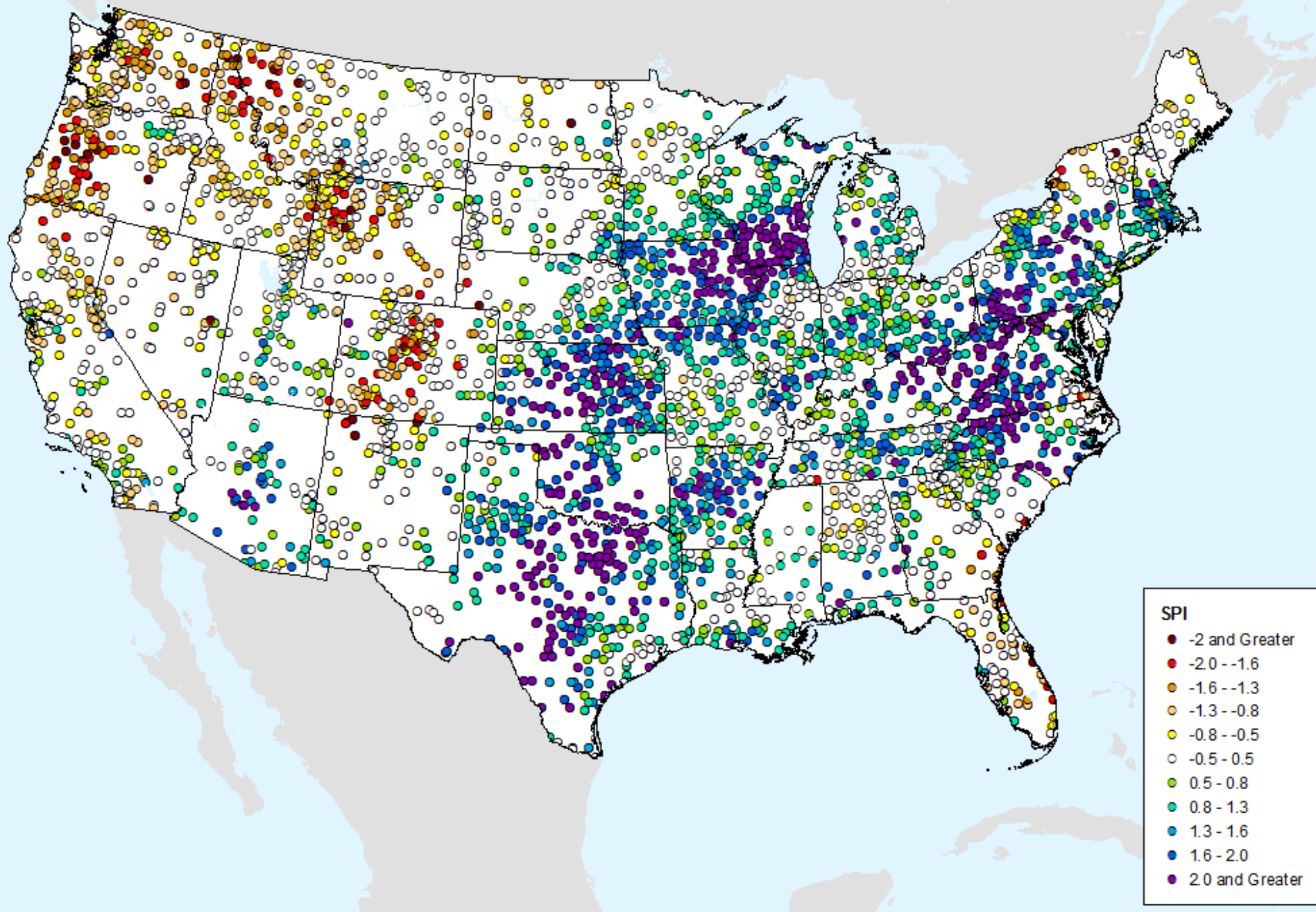
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

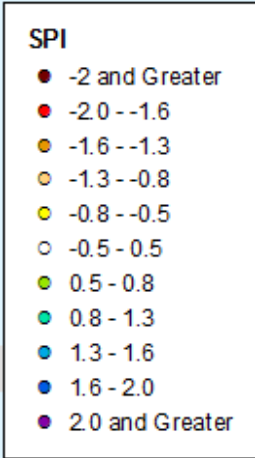
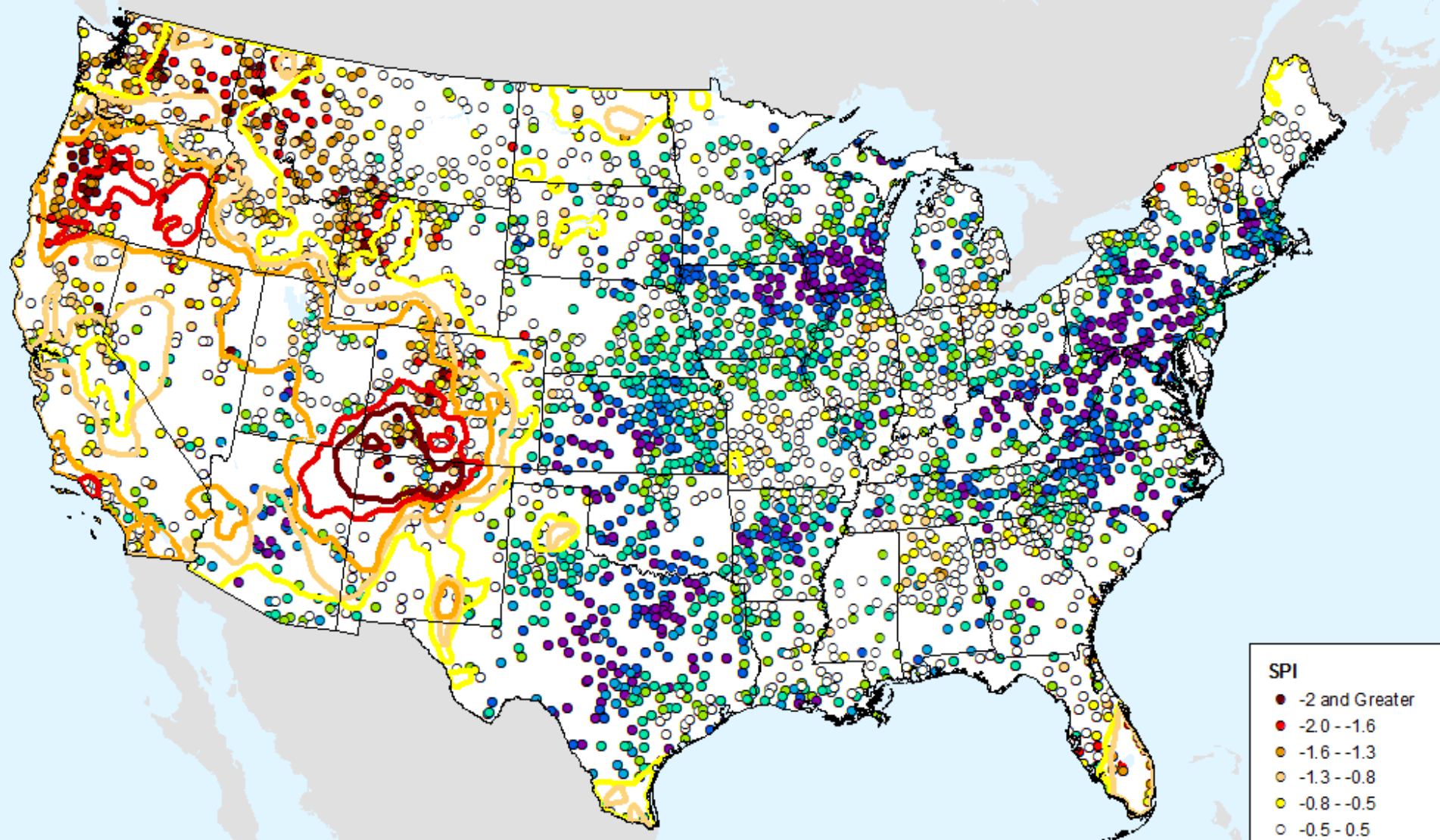
# HPRCC 3-month SPI

As of: Tuesday, January 15, 2019



# HPRCC 4-month SPI

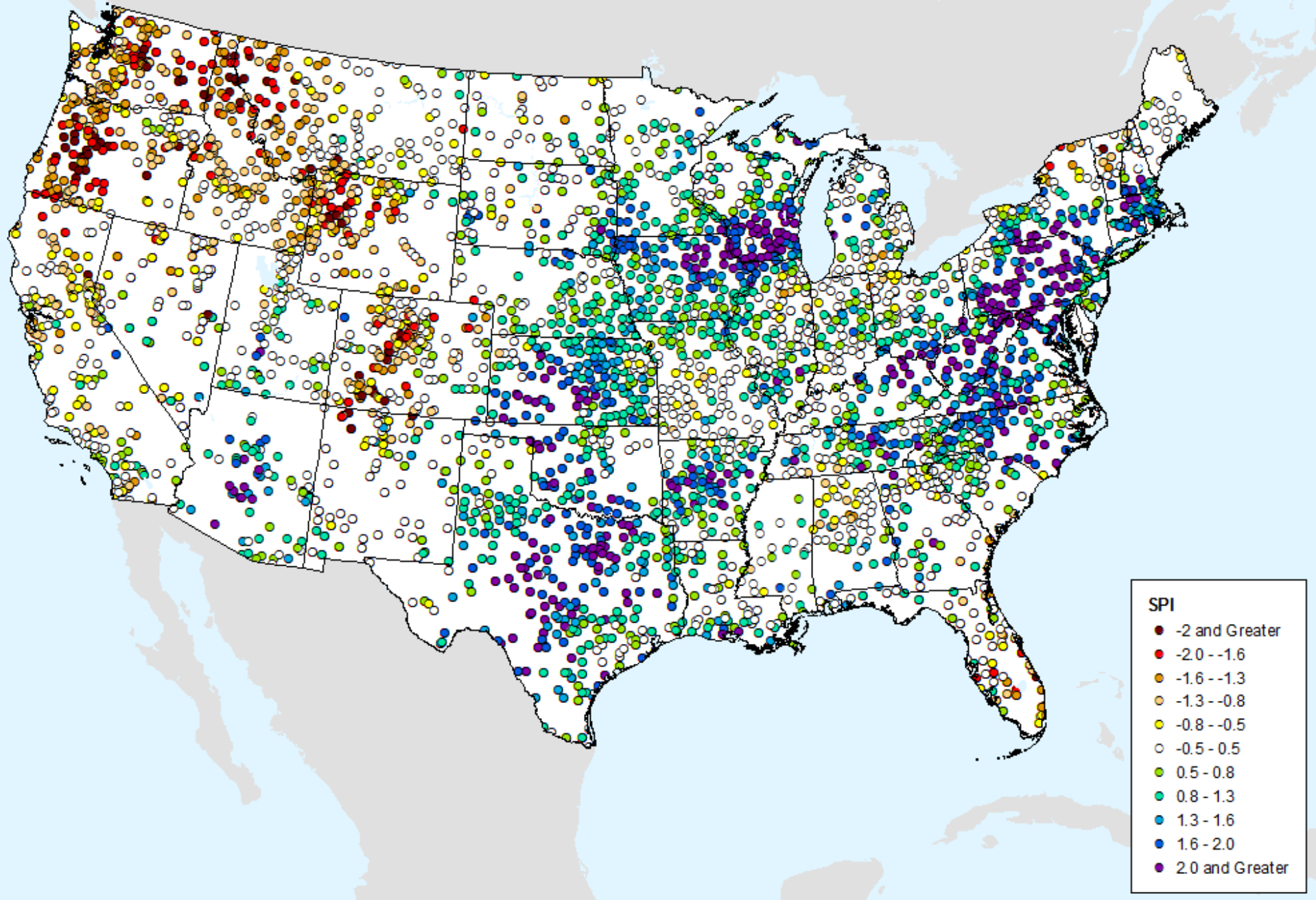
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# HPRCC 4-month SPI

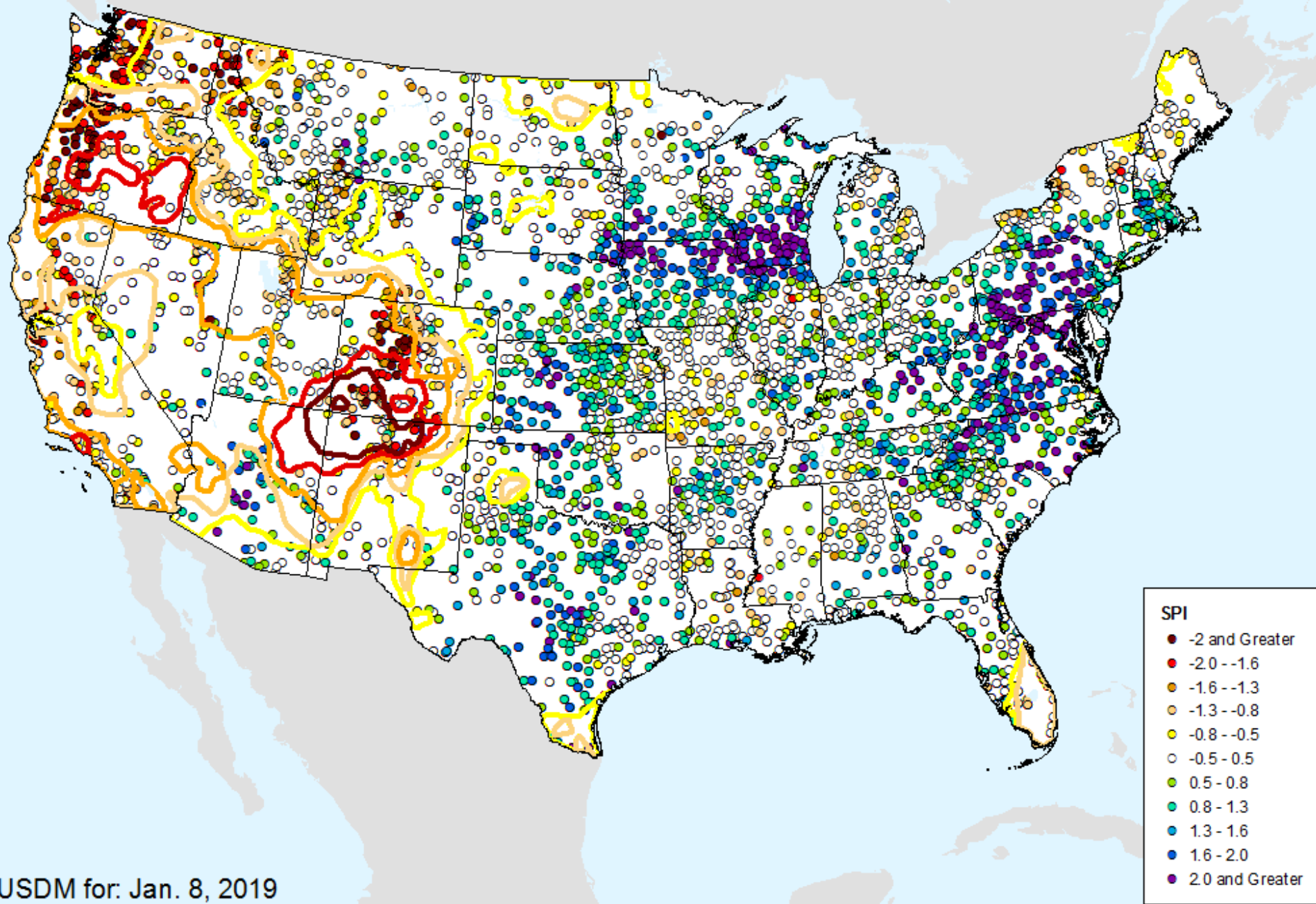
As of: Tuesday, January 15, 2019





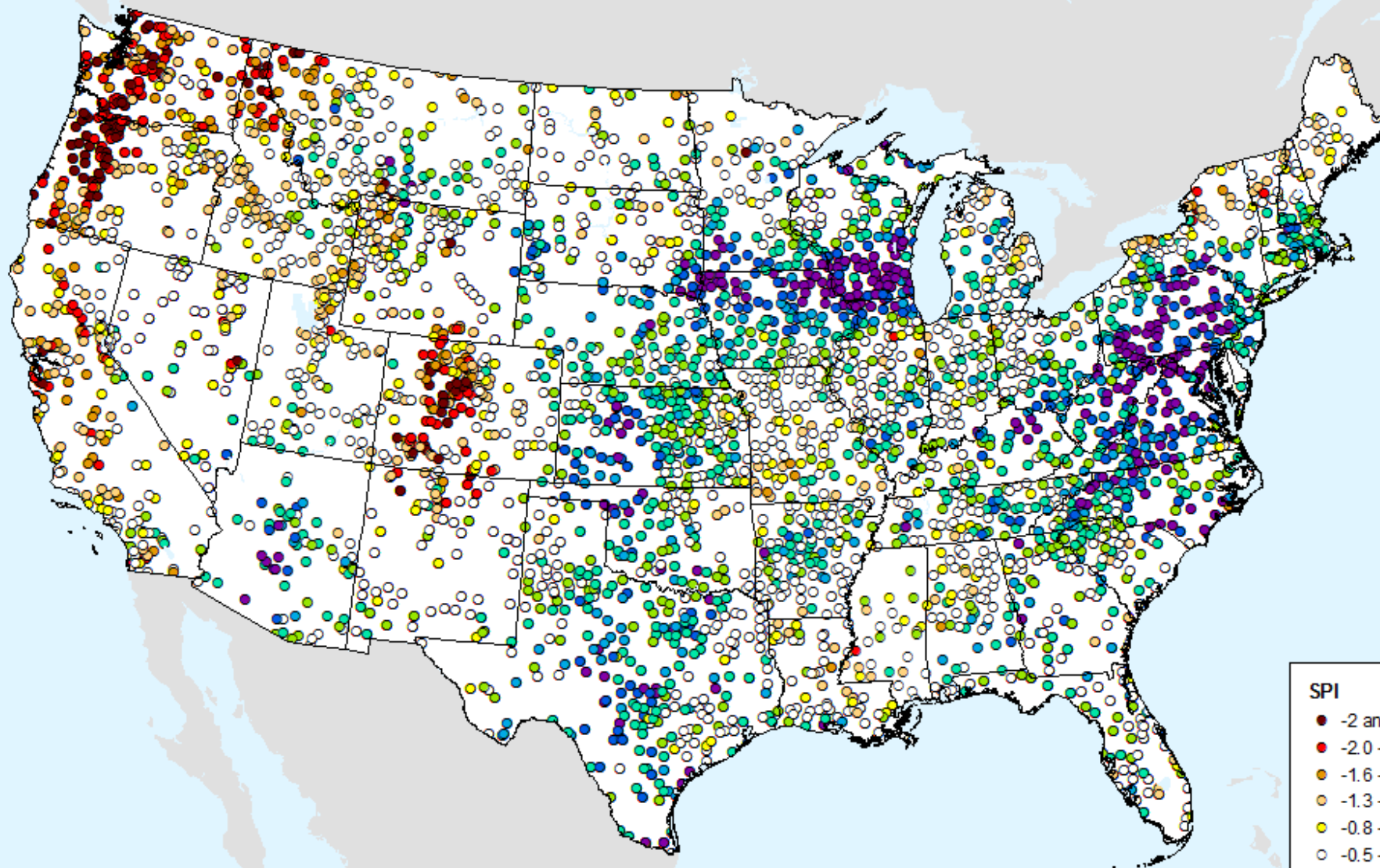
# HPRCC 6-month SPI

As of: Tuesday, January 15, 2019



# HPRCC 6-month SPI

As of: Tuesday, January 15, 2019

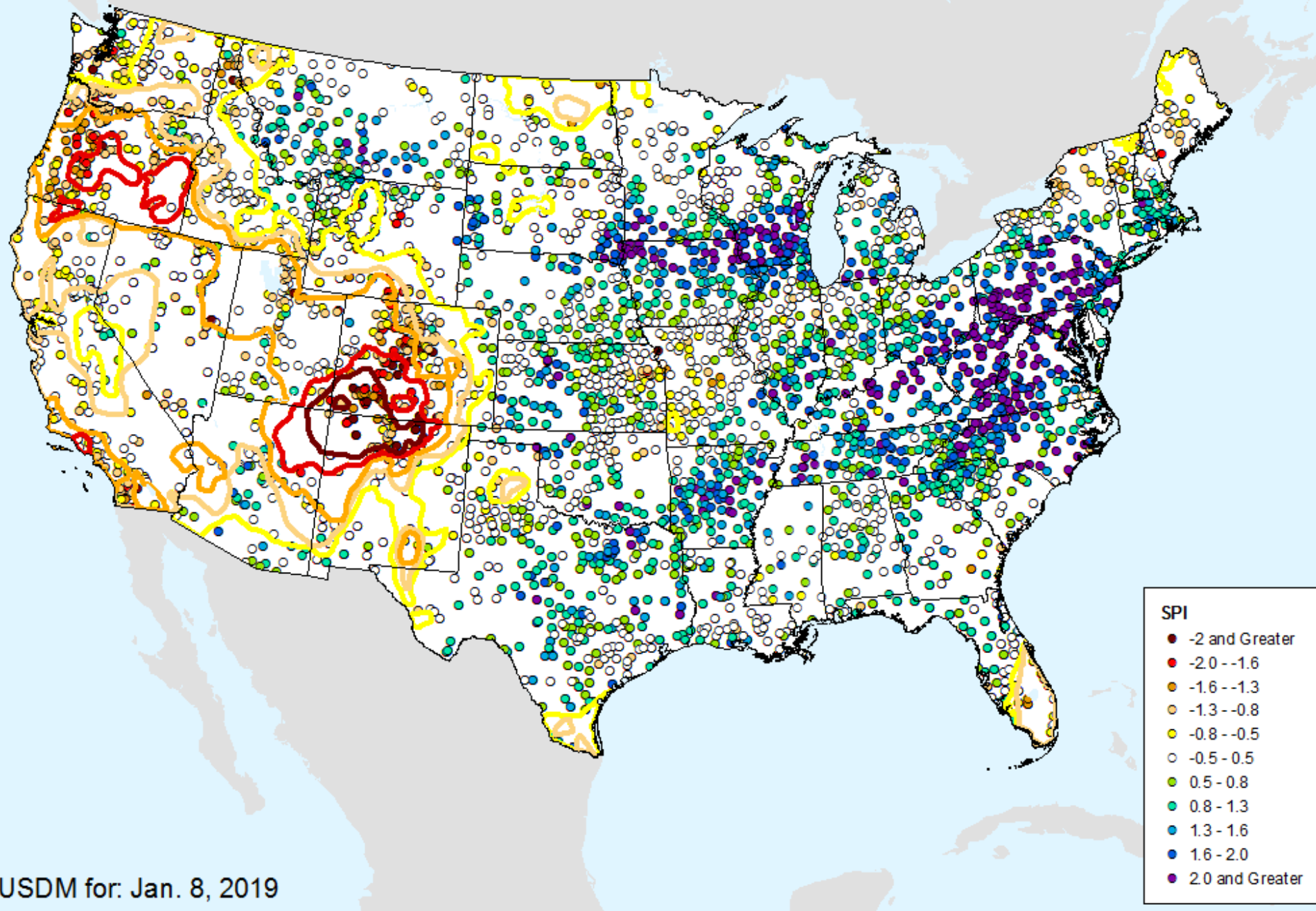


## SPI

- -2 and Greater
- -2.0 -- -1.6
- -1.6 -- -1.3
- -1.3 -- -0.8
- -0.8 -- -0.5
- -0.5 - 0.5
- 0.5 - 0.8
- 0.8 - 1.3
- 1.3 - 1.6
- 1.6 - 2.0
- 2.0 and Greater

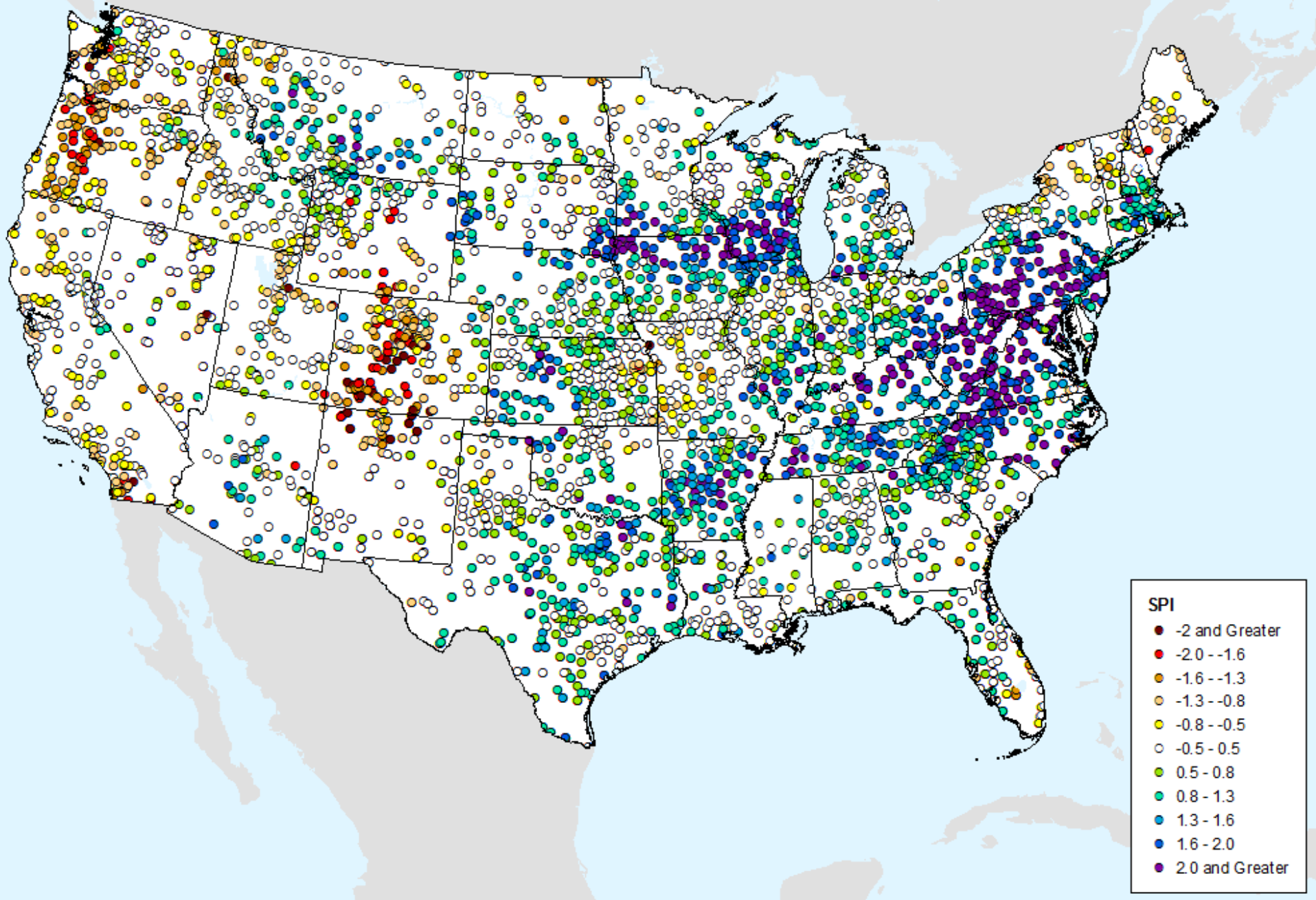
# HPRCC 9-month SPI

As of: Tuesday, January 15, 2019



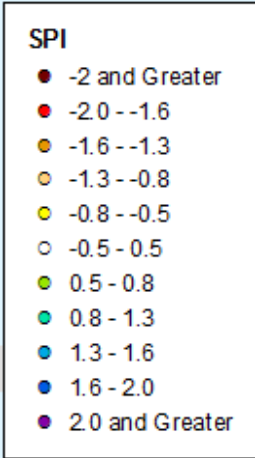
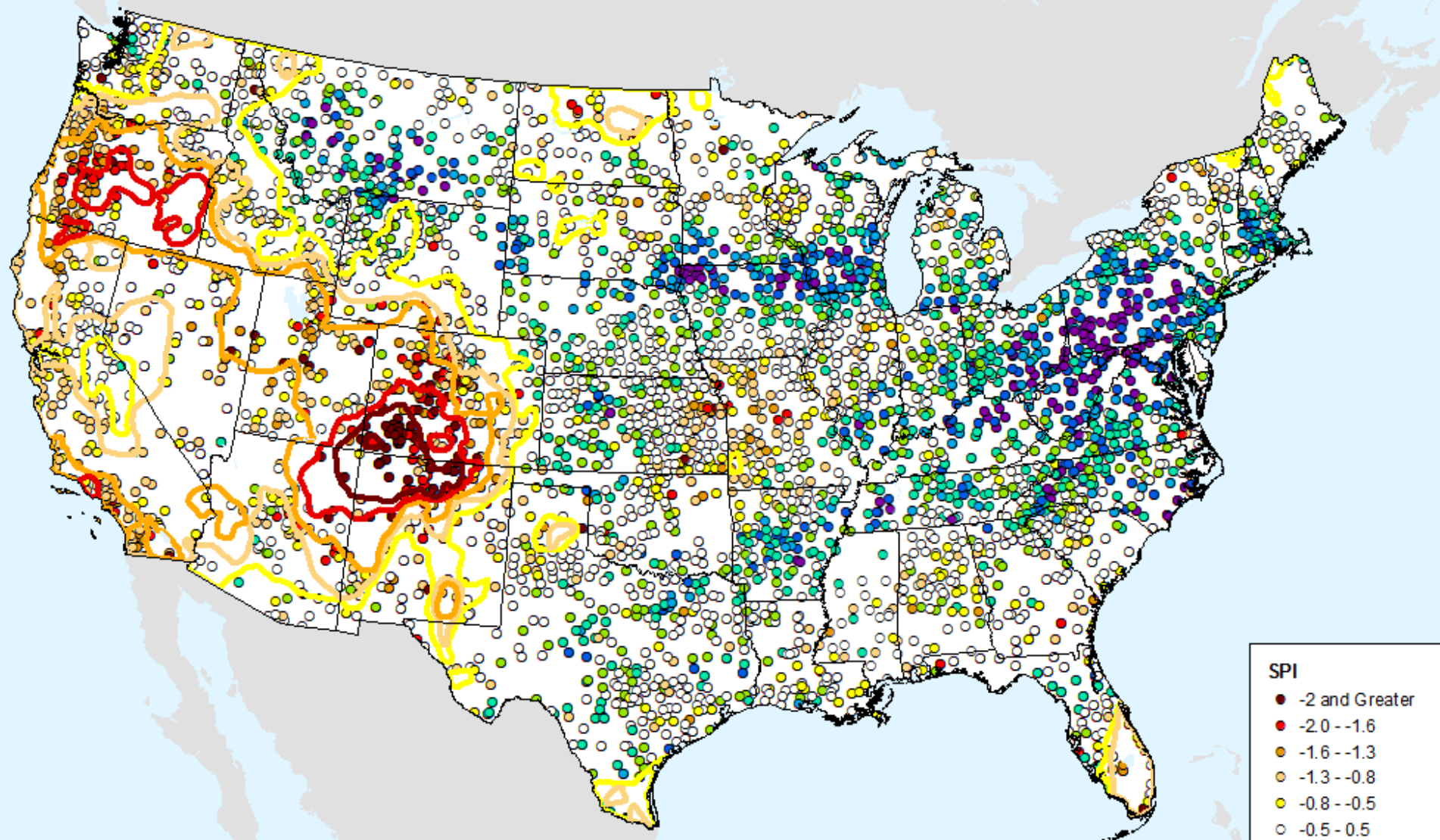
# HPRCC 9-month SPI

As of: Tuesday, January 15, 2019



# HPRCC 12-month SPI

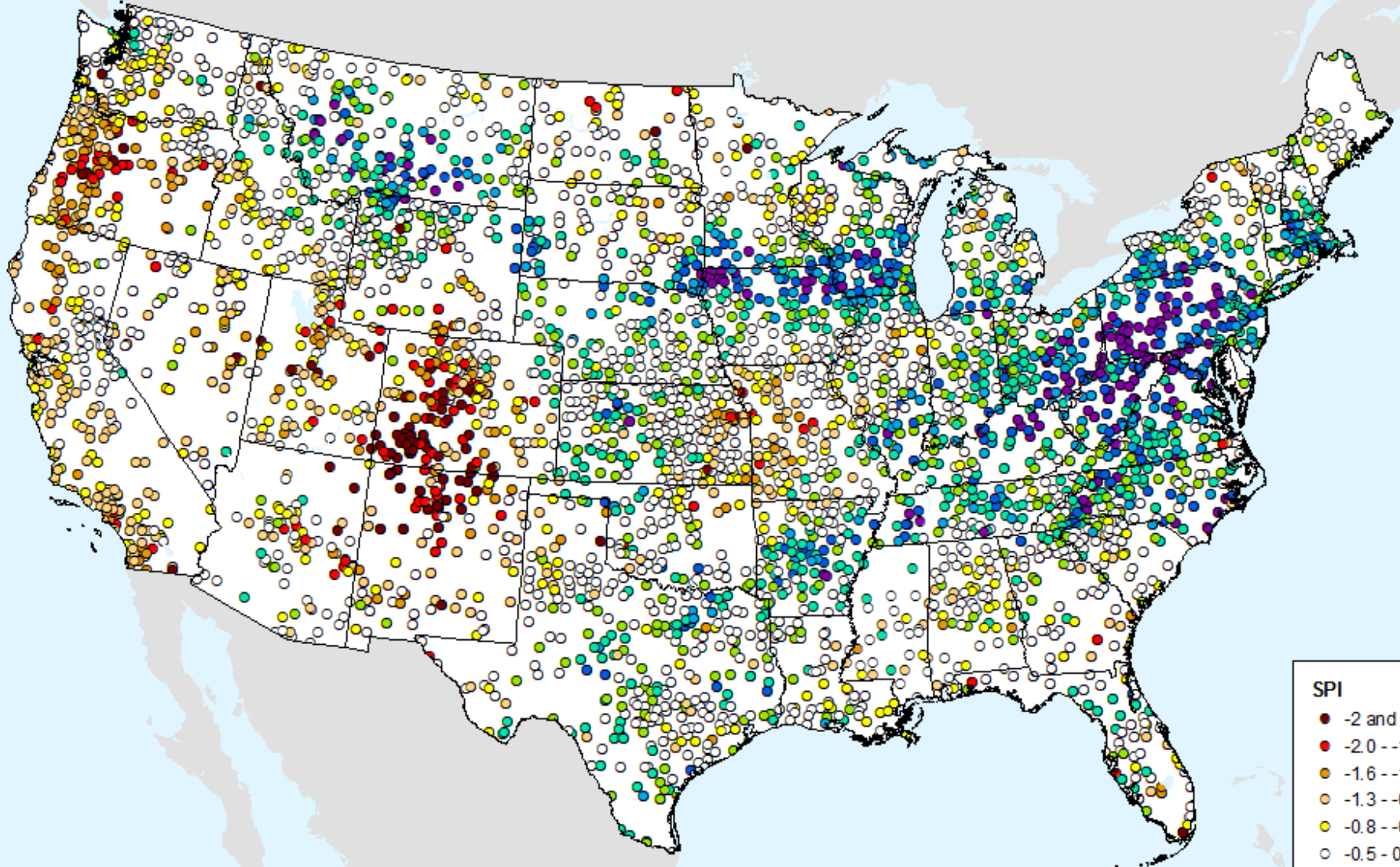
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# HPRCC 12-month SPI

As of: Tuesday, January 15, 2019

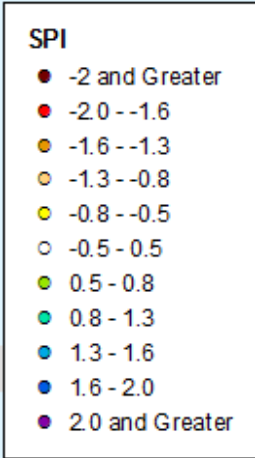
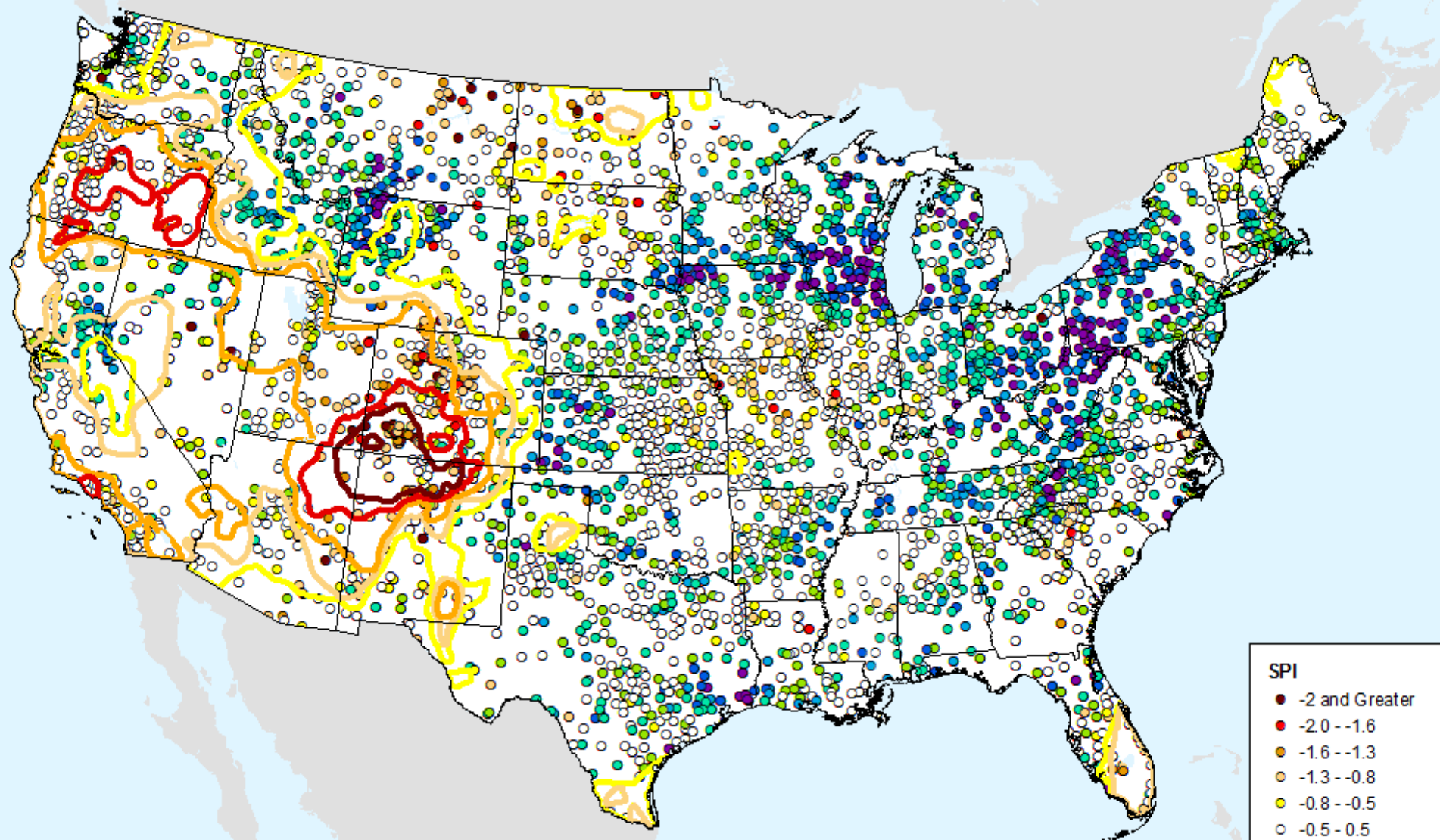


## SPI

- -2 and Greater
- -2.0 -- -1.6
- -1.6 -- -1.3
- -1.3 -- -0.8
- -0.8 -- -0.5
- -0.5 - 0.5
- 0.5 - 0.8
- 0.8 - 1.3
- 1.3 - 1.6
- 1.6 - 2.0
- 2.0 and Greater

# HPRCC 24-month SPI

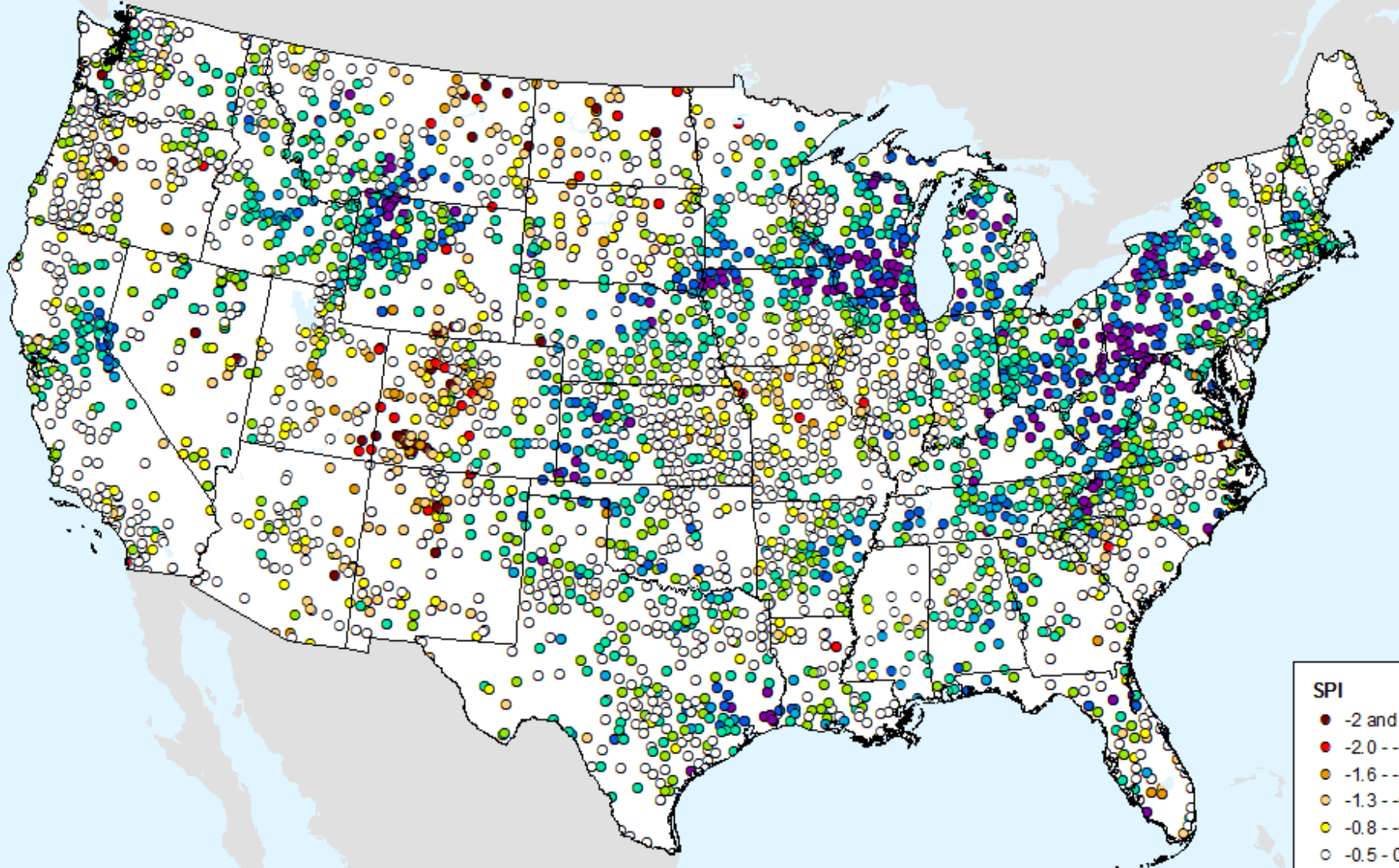
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# HPRCC 24-month SPI

As of: Tuesday, January 15, 2019



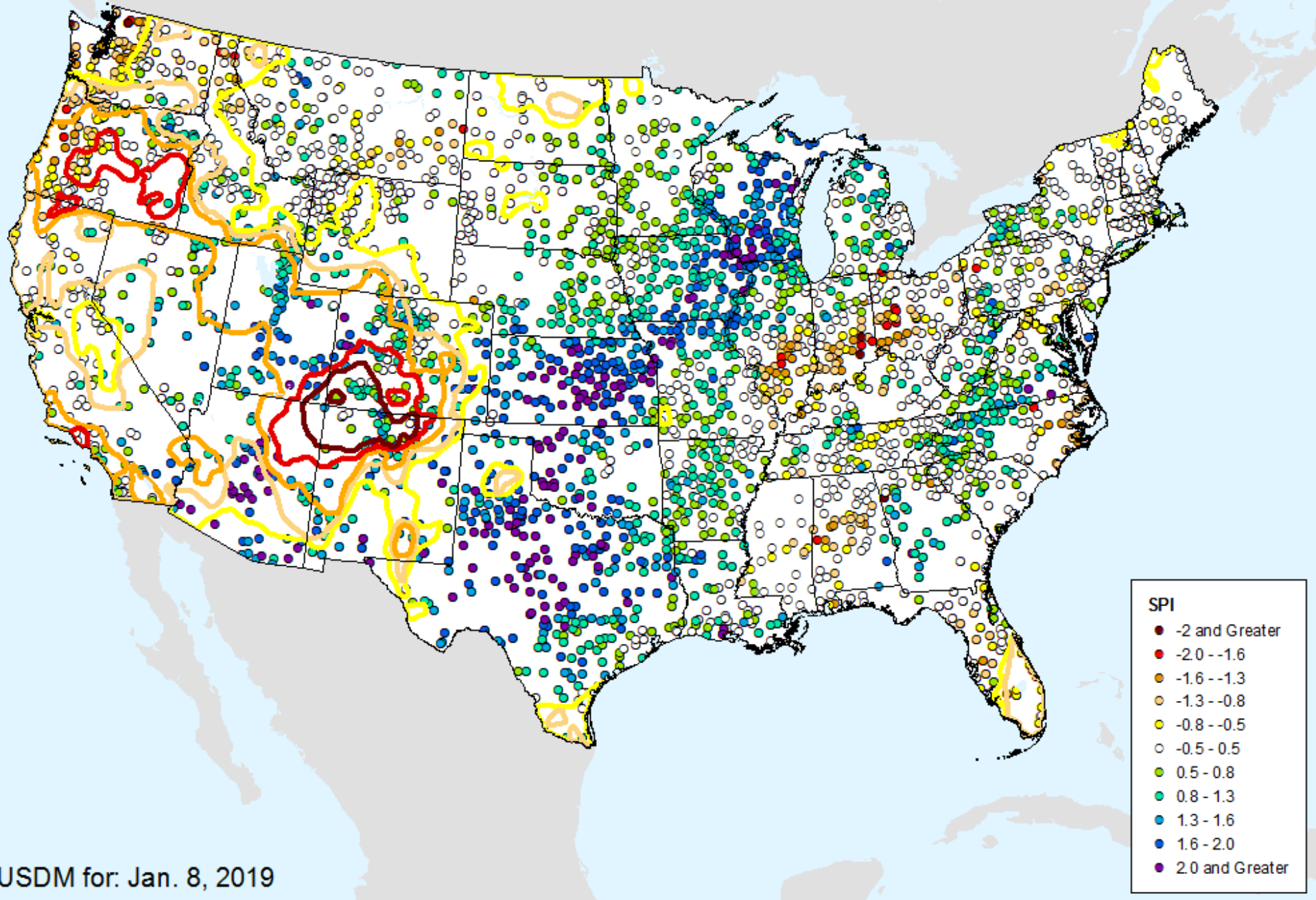
## SPI

- -2 and Greater
- -2.0 -- -1.6
- -1.6 -- -1.3
- -1.3 -- -0.8
- -0.8 -- -0.5
- -0.5 - 0.5
- 0.5 - 0.8
- 0.8 - 1.3
- 1.3 - 1.6
- 1.6 - 2.0
- 2.0 and Greater



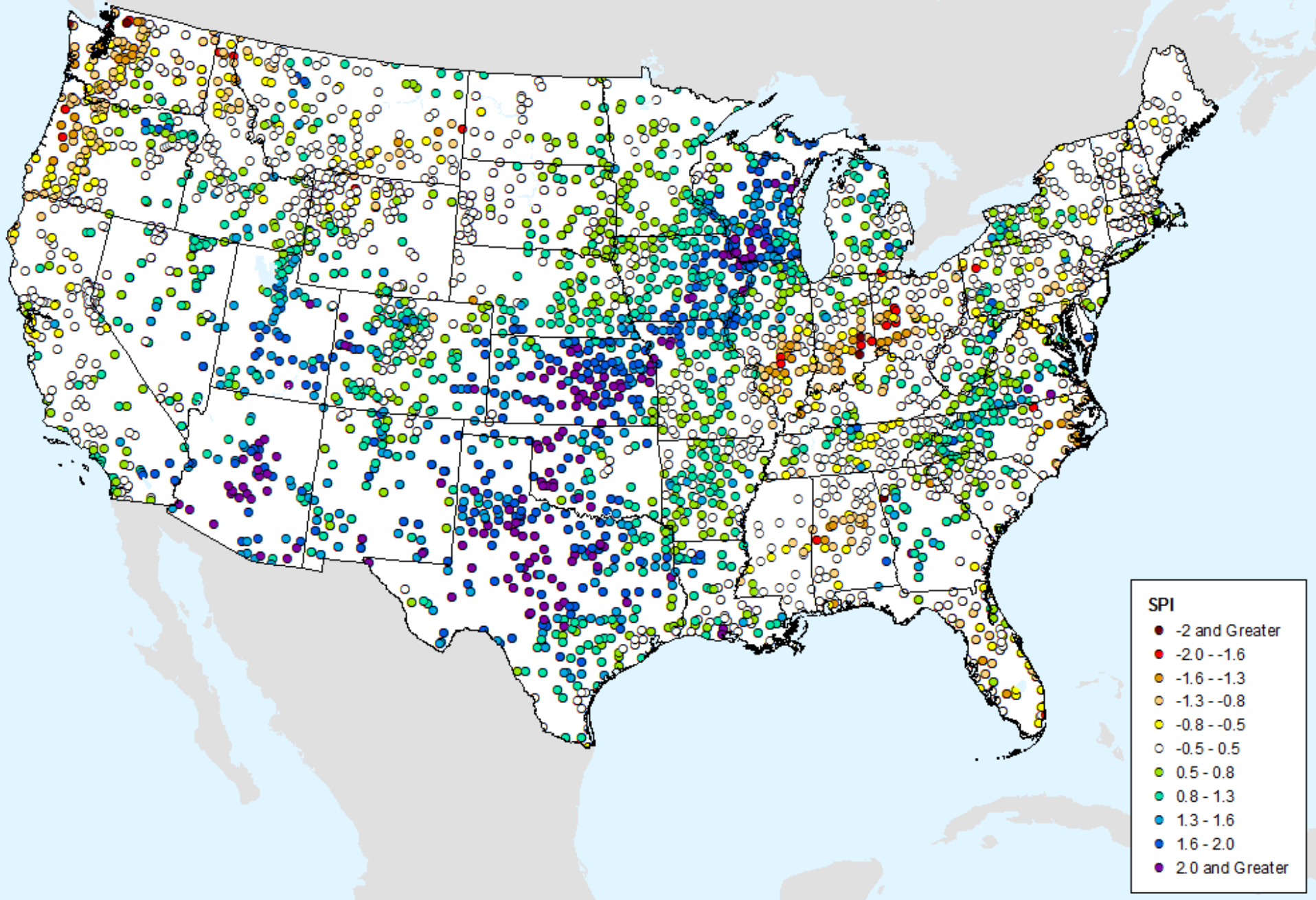
# HPRCC Water Year-to-date SPI

As of: Tuesday, January 15, 2019



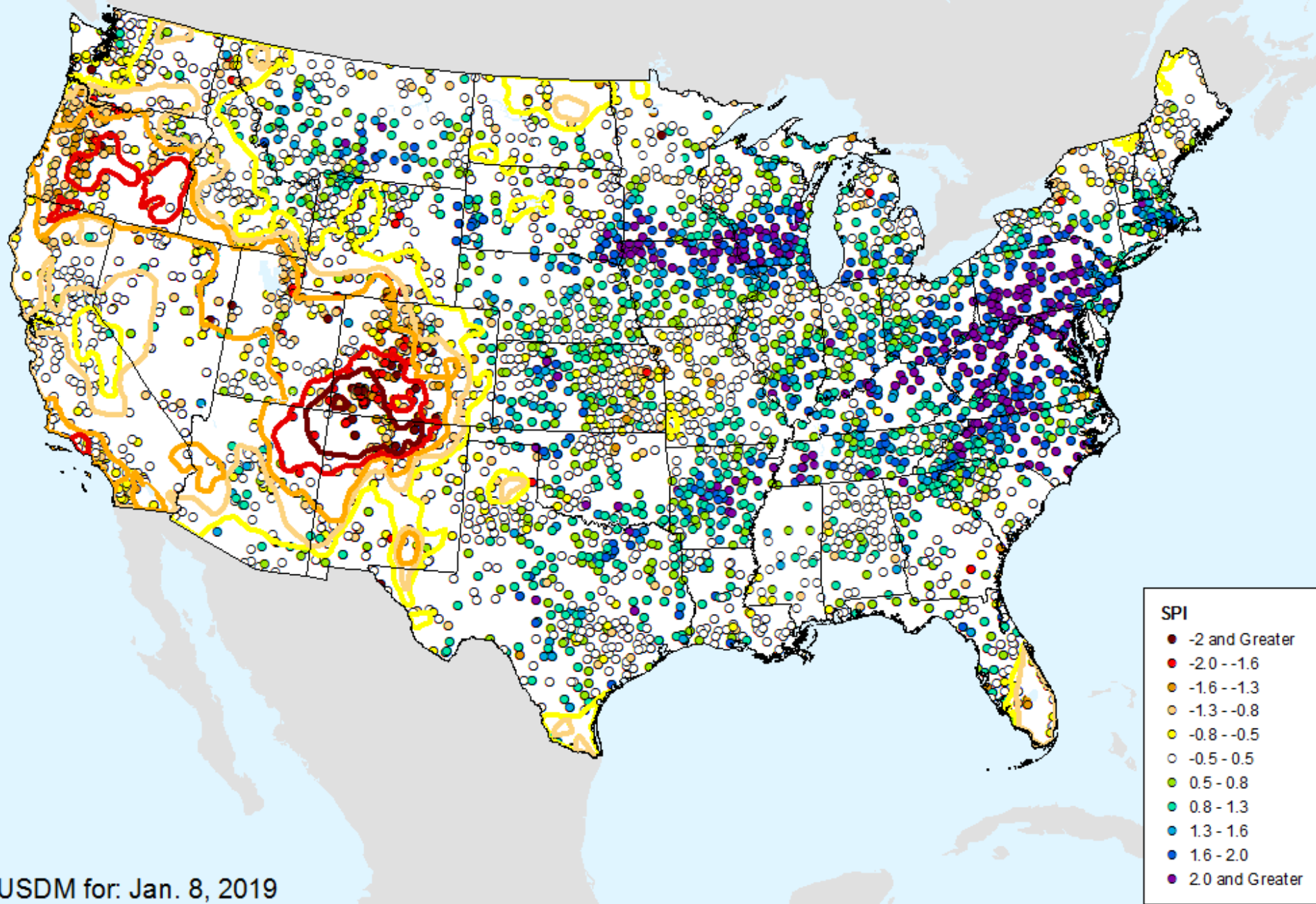
# HPRCC Water Year-to-date SPI

As of: Tuesday, January 15, 2019



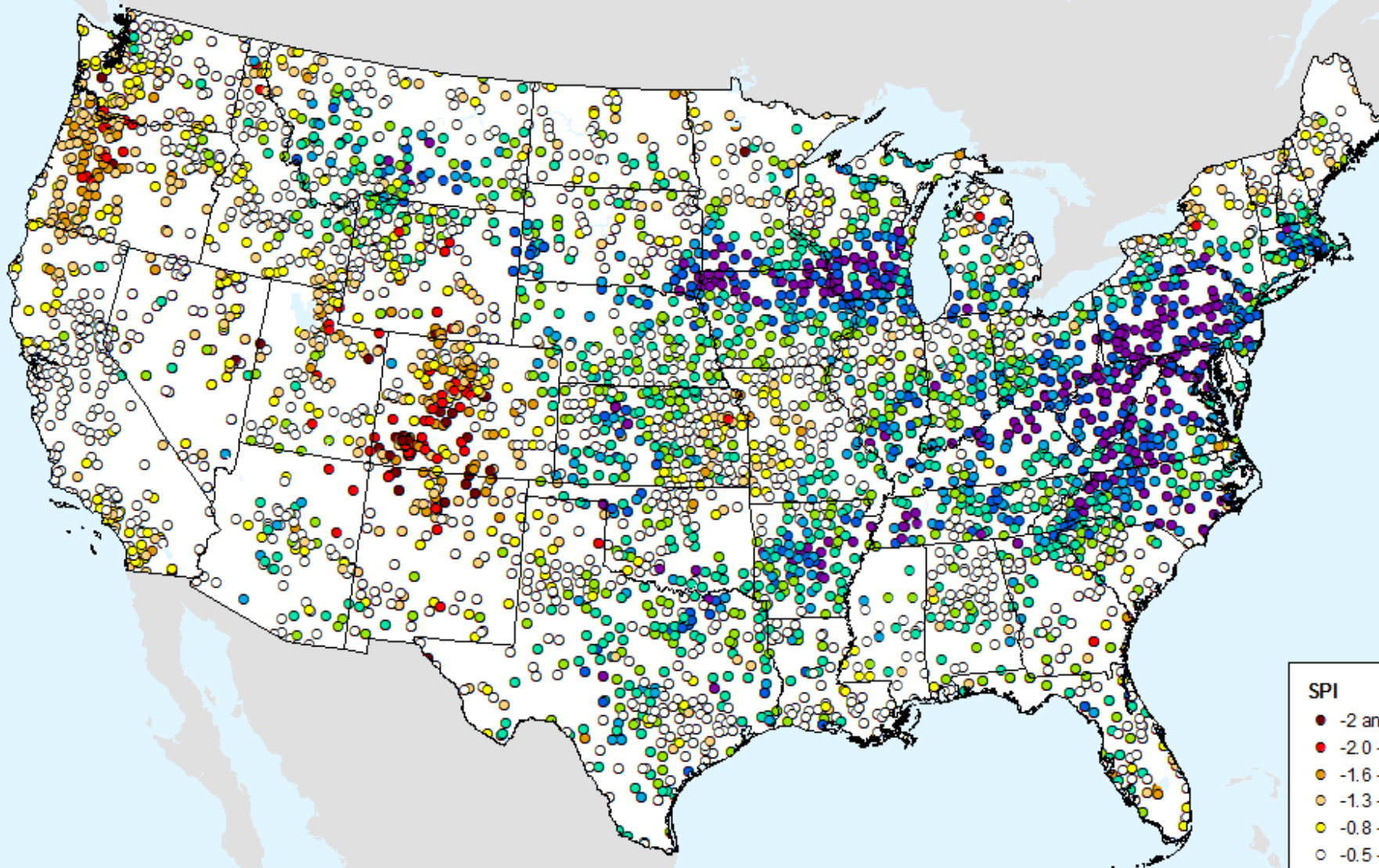
# HPRCC Year-to-date SPI

As of: Tuesday, January 15, 2019



# HPRCC Year-to-date SPI

As of: Tuesday, January 15, 2019

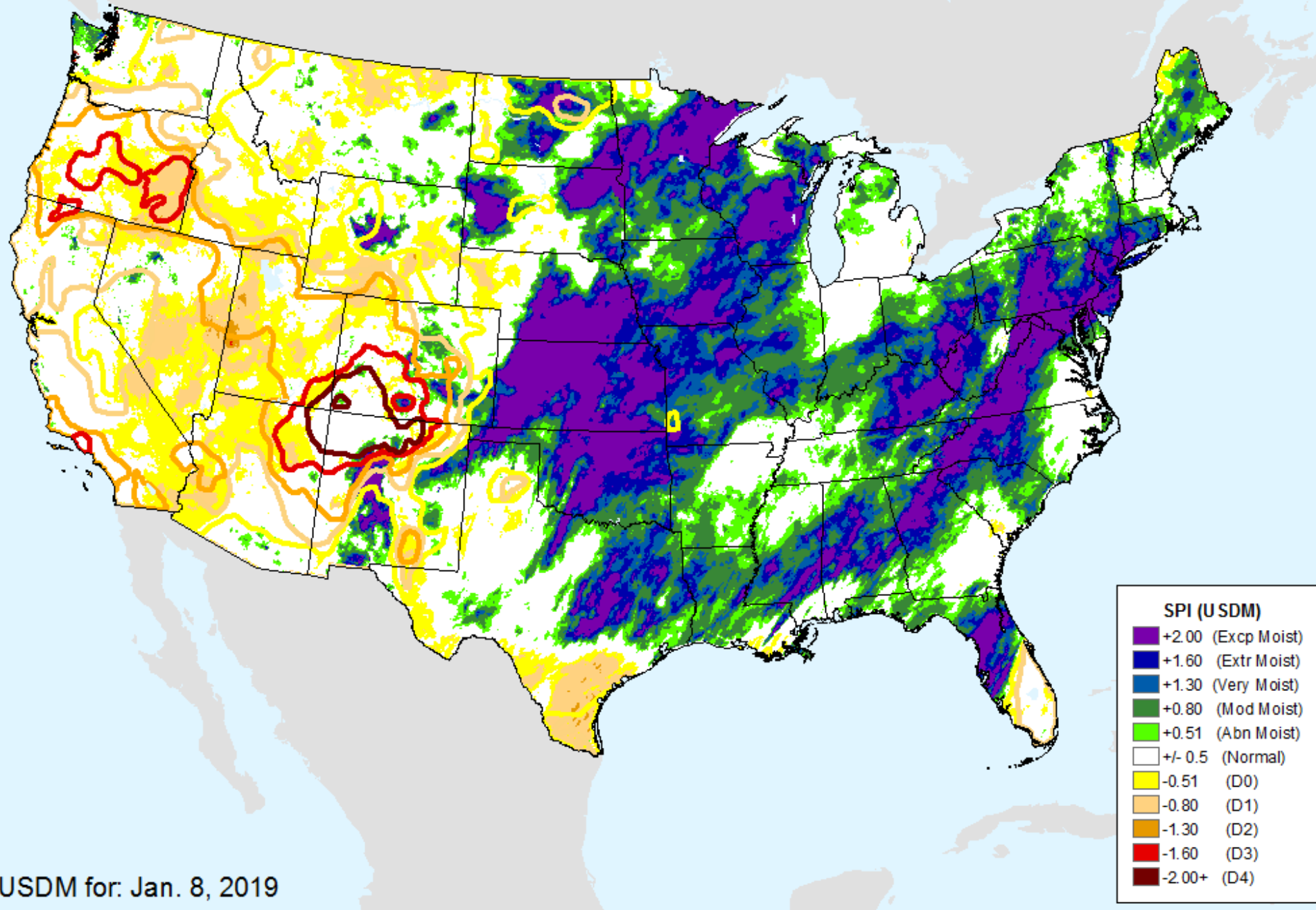


## SPI

- -2 and Greater
- -2.0 -- -1.6
- -1.6 -- -1.3
- -1.3 -- -0.8
- -0.8 -- -0.5
- -0.5 - 0.5
- 0.5 - 0.8
- 0.8 - 1.3
- 1.3 - 1.6
- 1.6 - 2.0
- 2.0 and Greater

# AHPS 1-month SPI

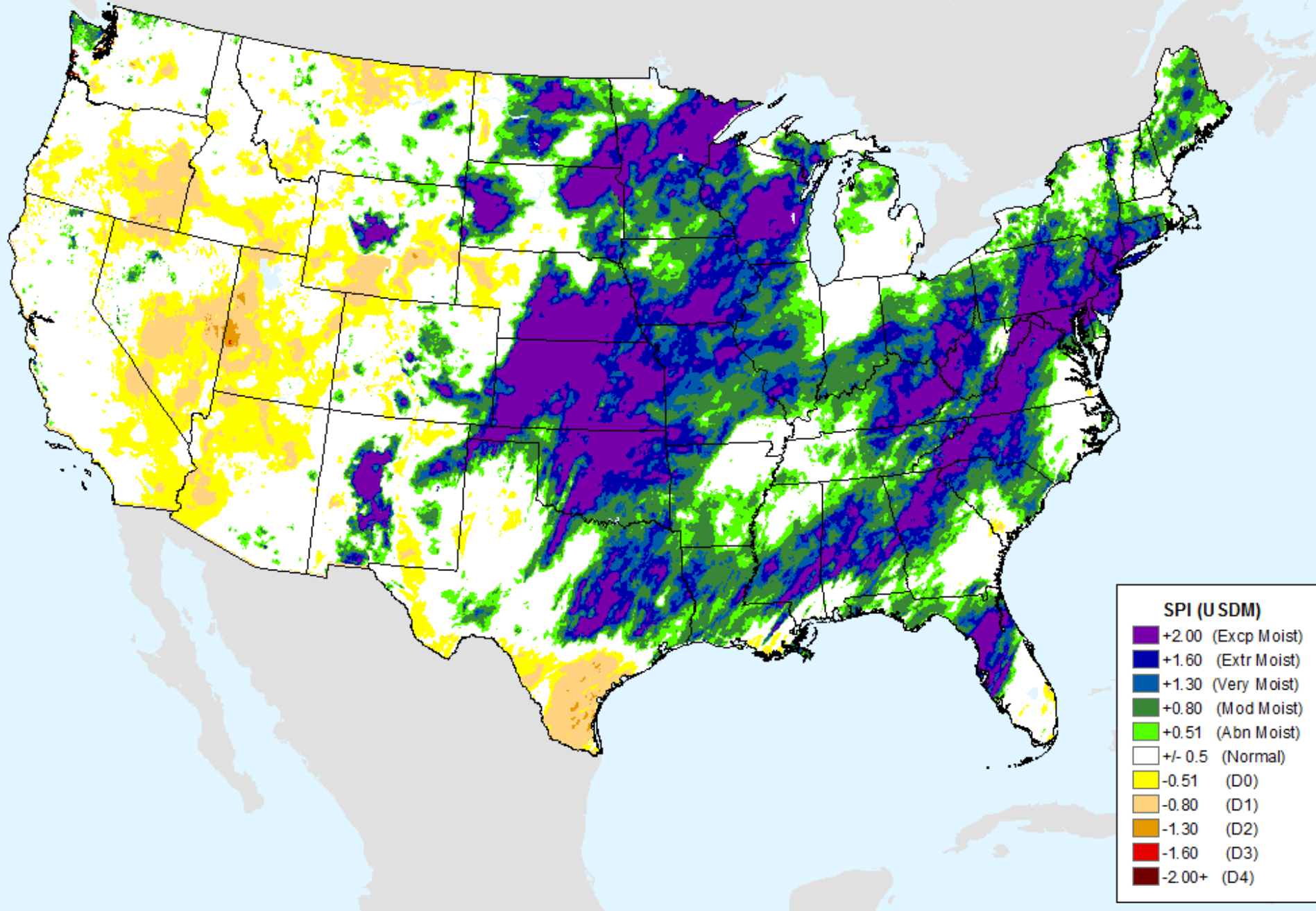
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

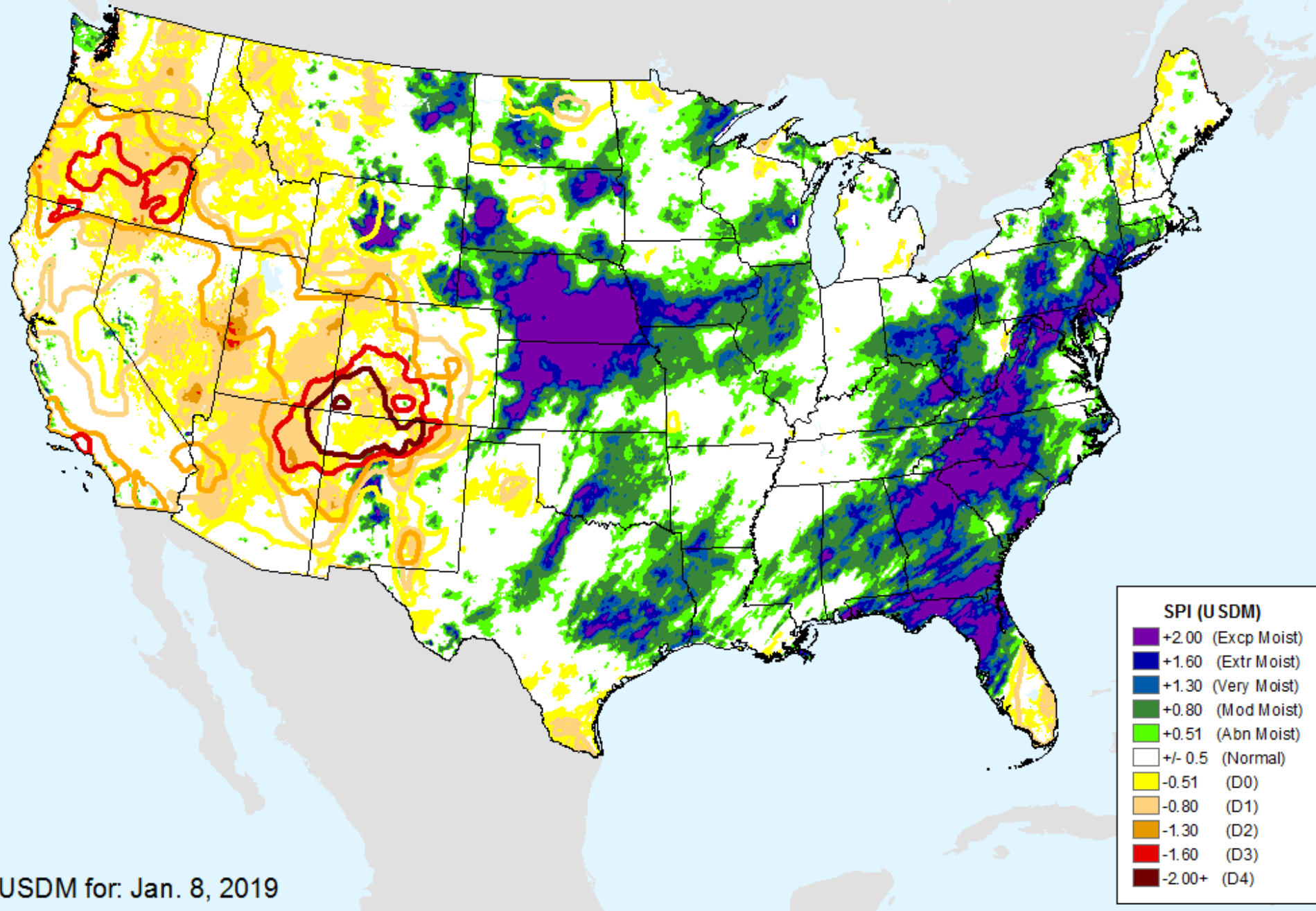
# AHPS 1-month SPI

As of: Tuesday, January 15, 2019



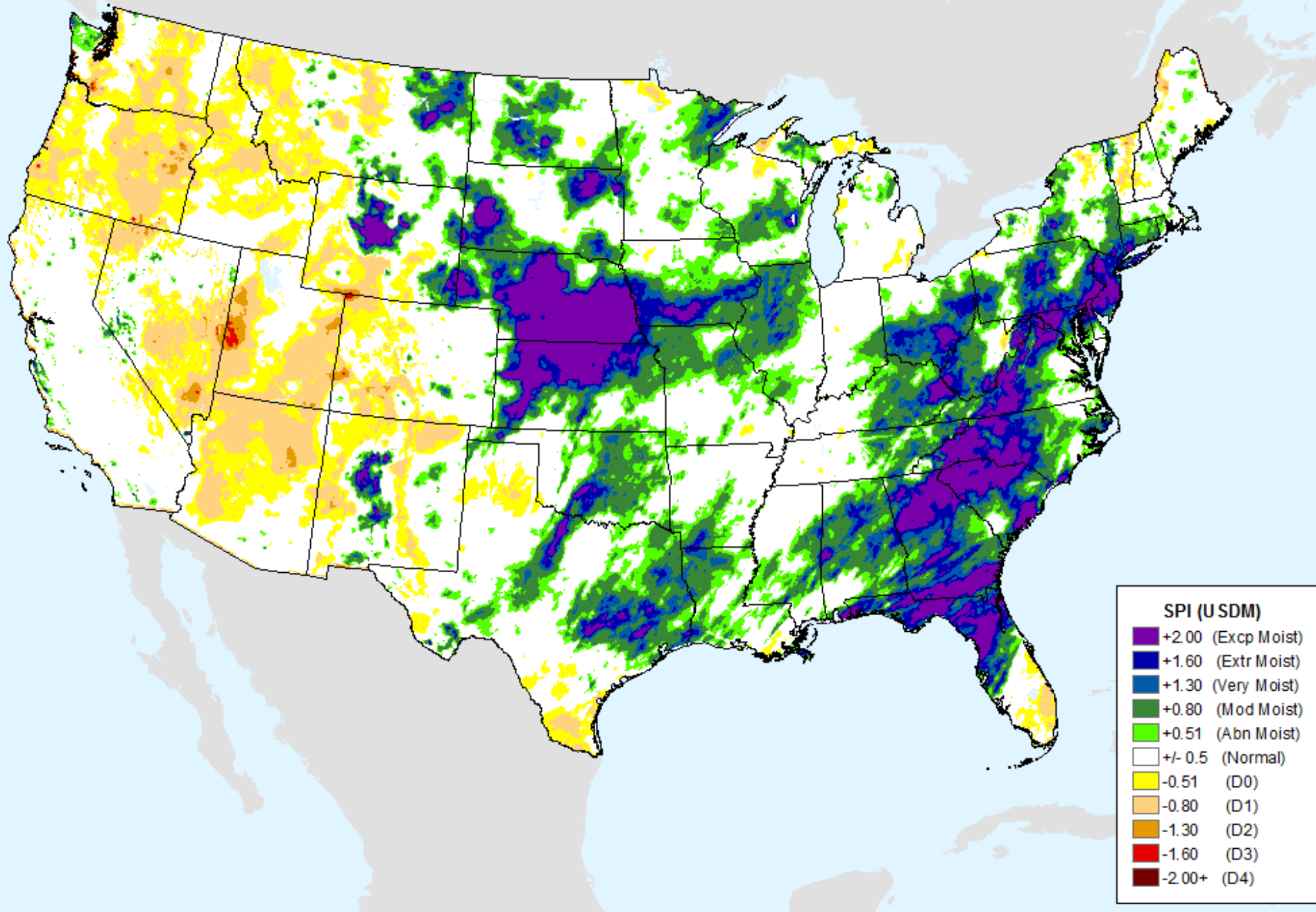
# AHPS 2-month SPI

As of: Tuesday, January 15, 2019



# AHPS 2-month SPI

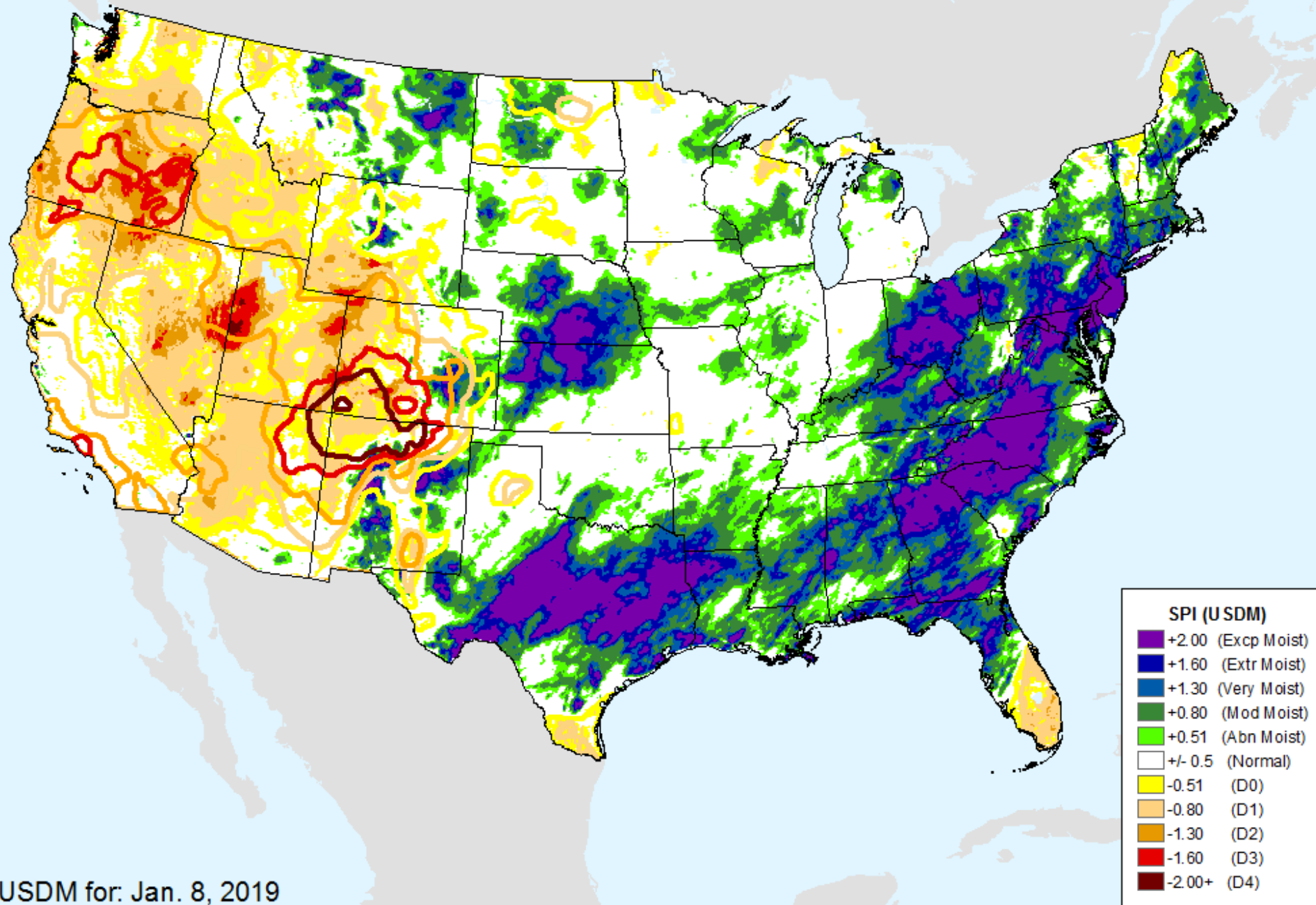
As of: Tuesday, January 15, 2019





# AHPS 3-month SPI

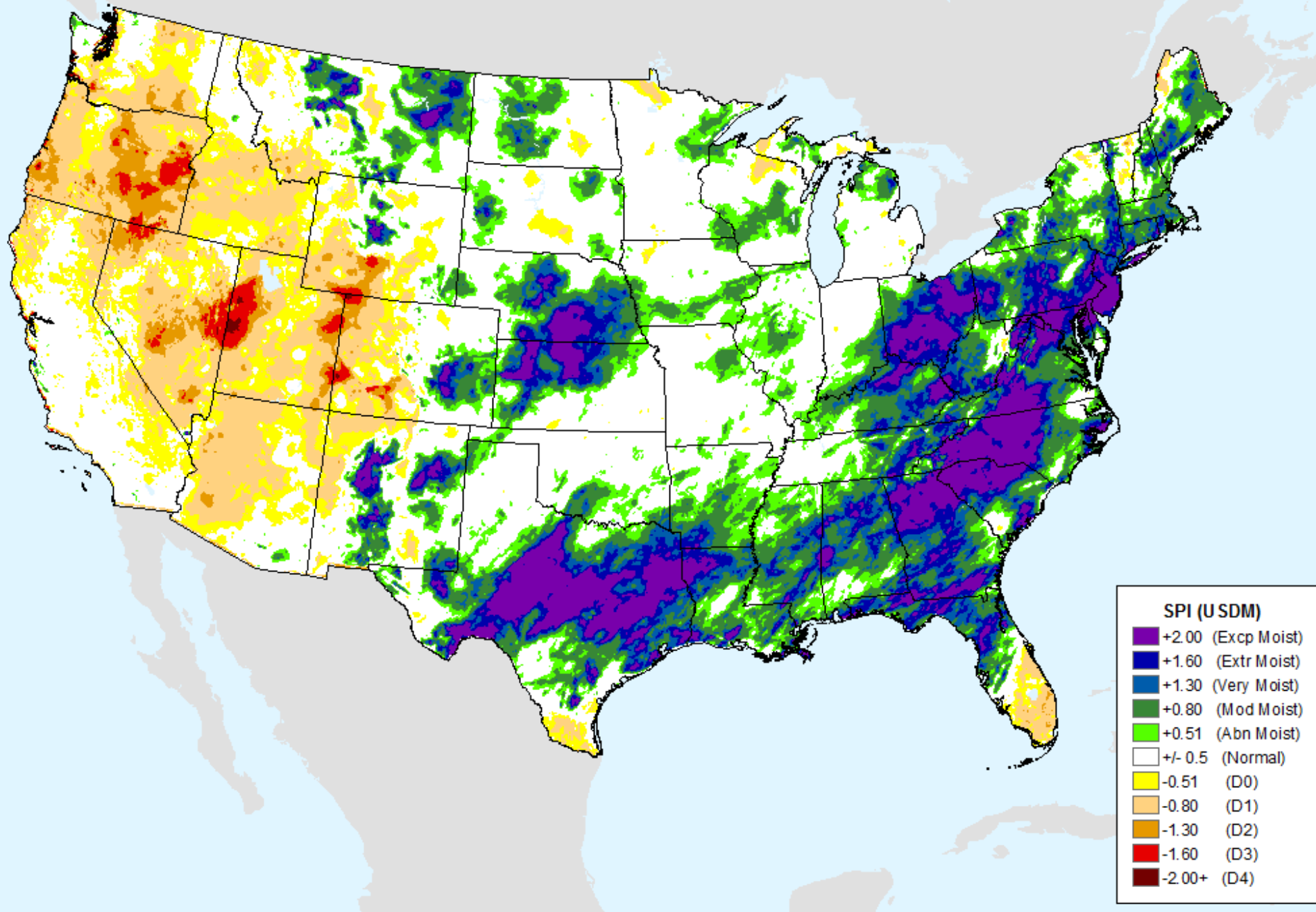
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

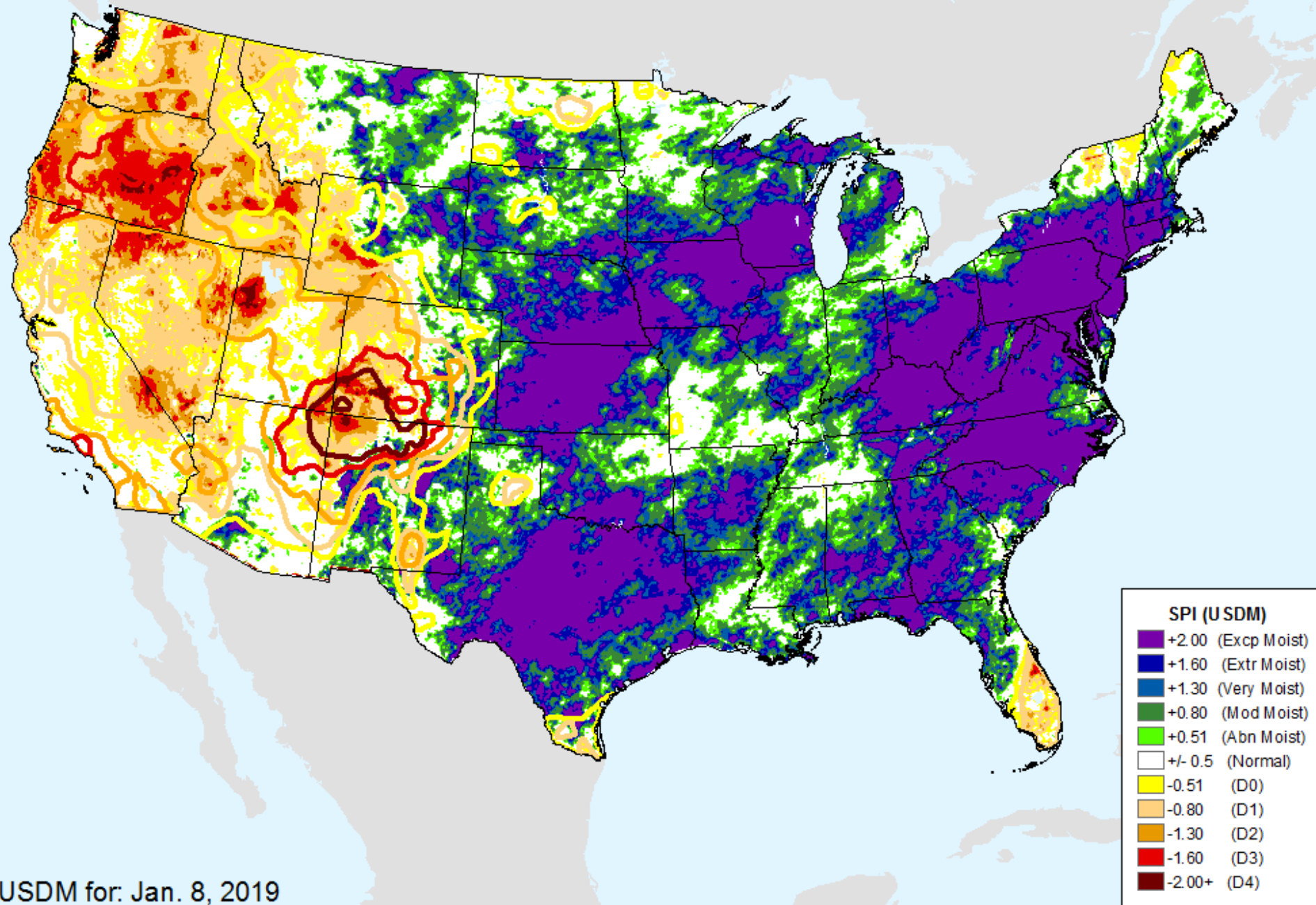
# AHPS 3-month SPI

As of: Tuesday, January 15, 2019



# AHPS 6-month SPI

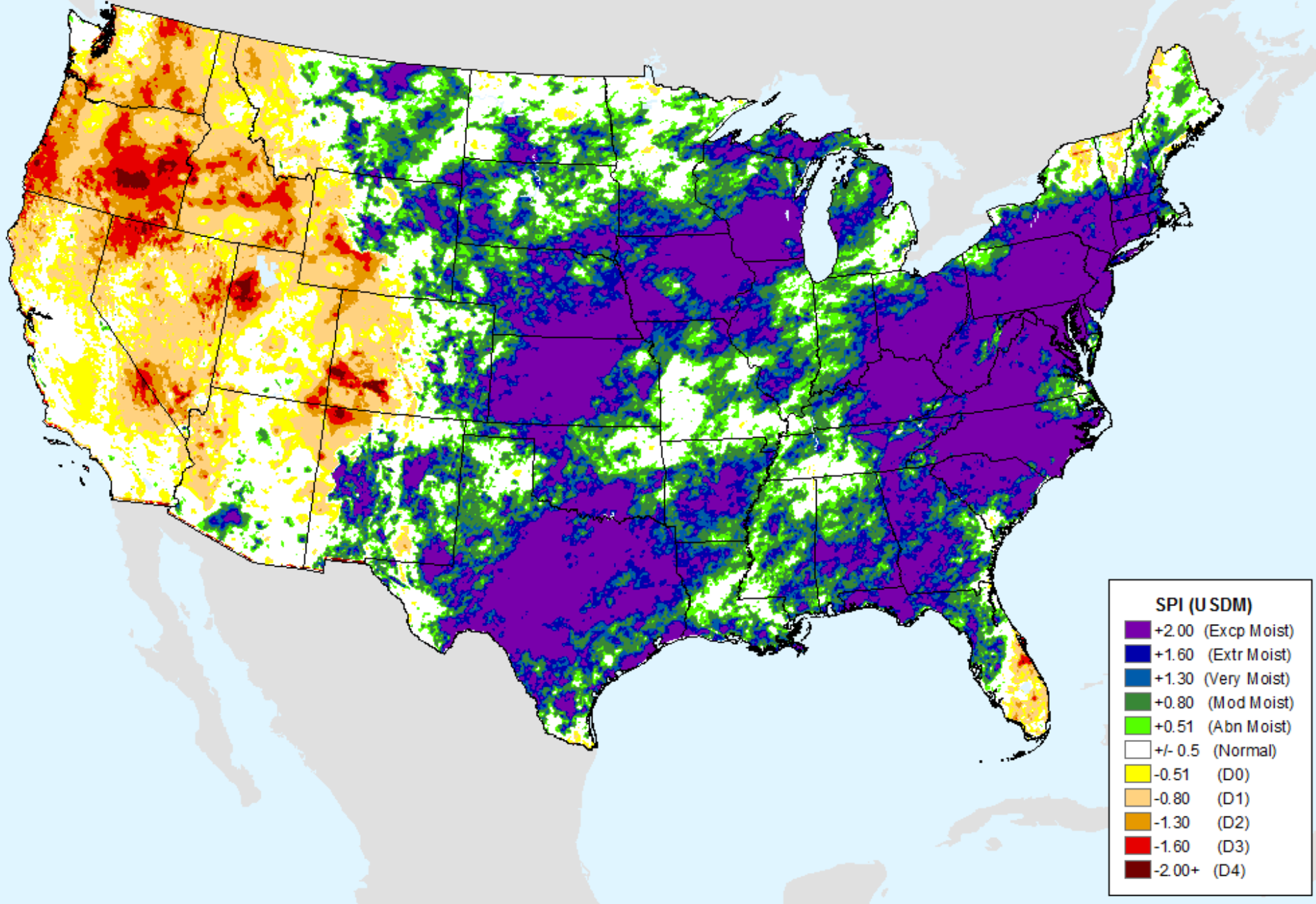
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

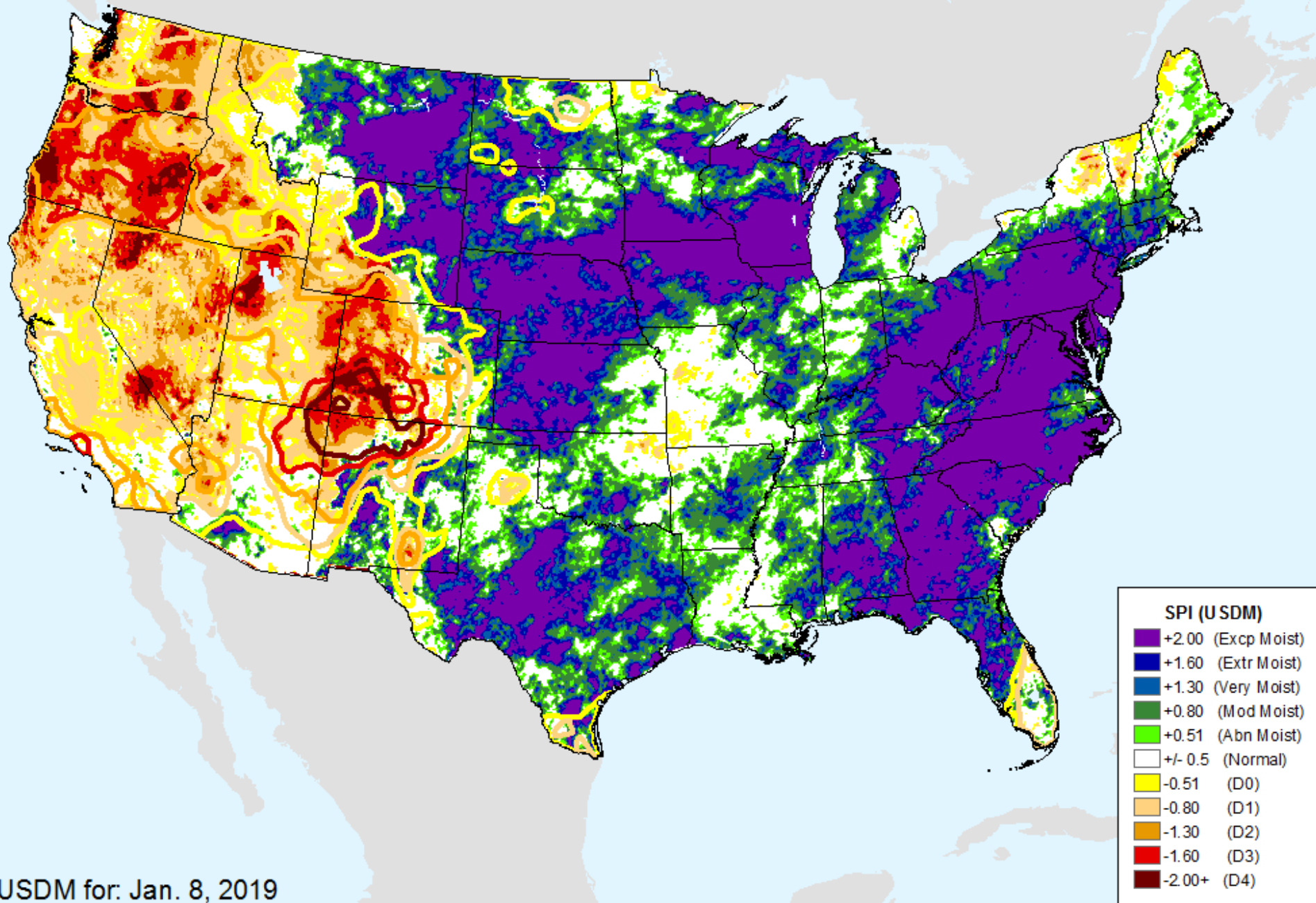
# AHPS 6-month SPI

As of: Tuesday, January 15, 2019



# AHPS 9-month SPI

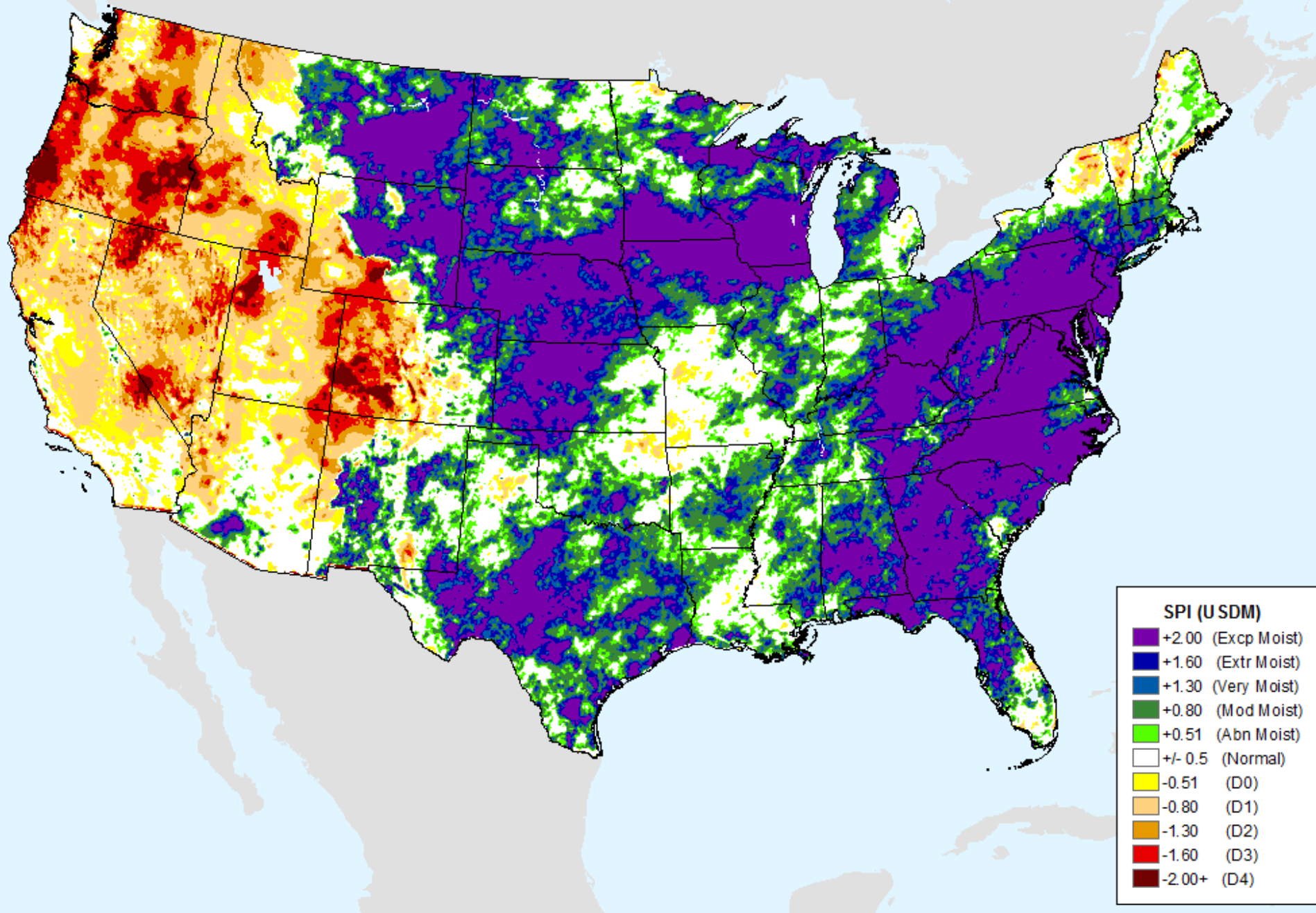
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

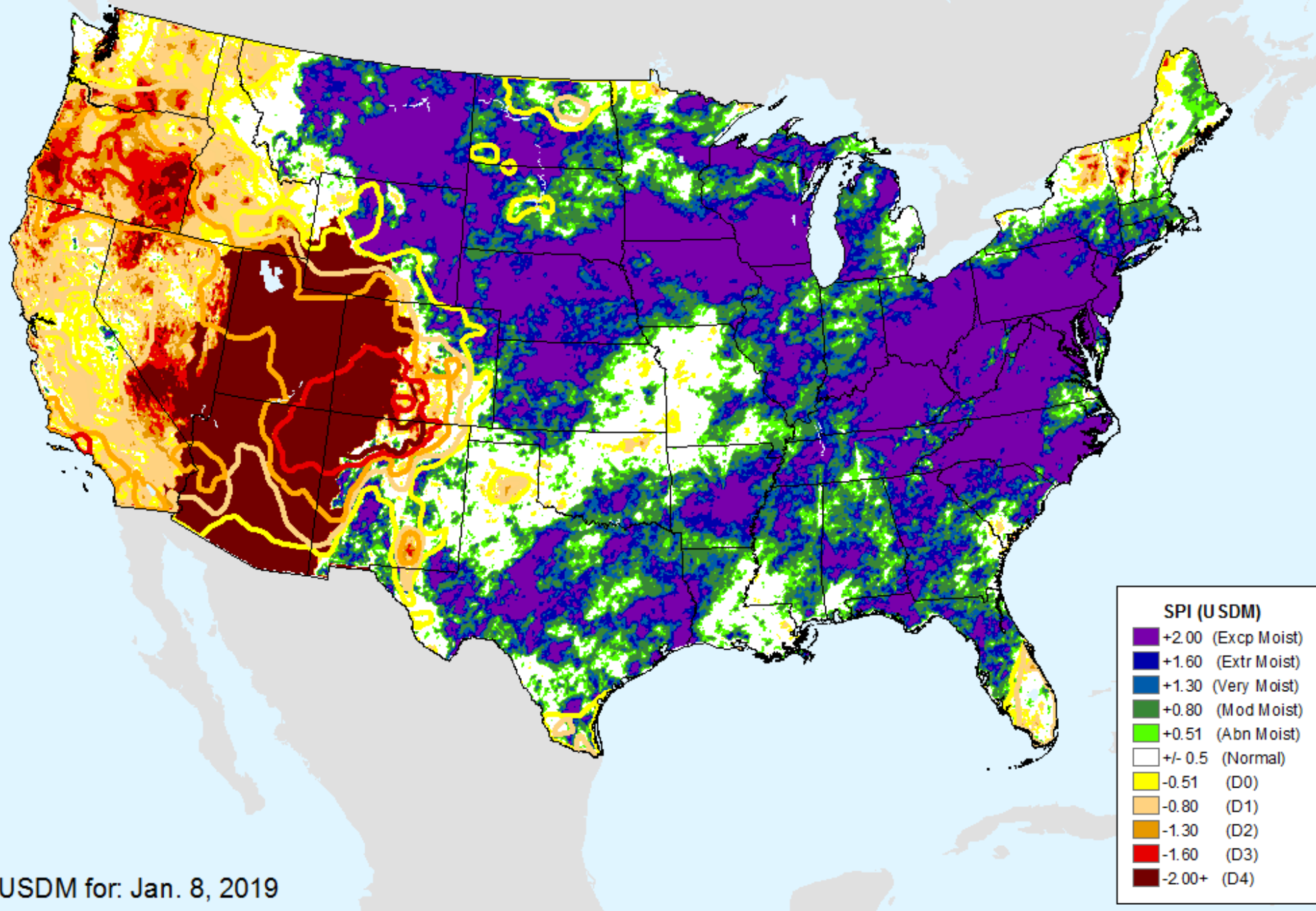
# AHPS 9-month SPI

As of: Tuesday, January 15, 2019



# AHPS 12-month SPI

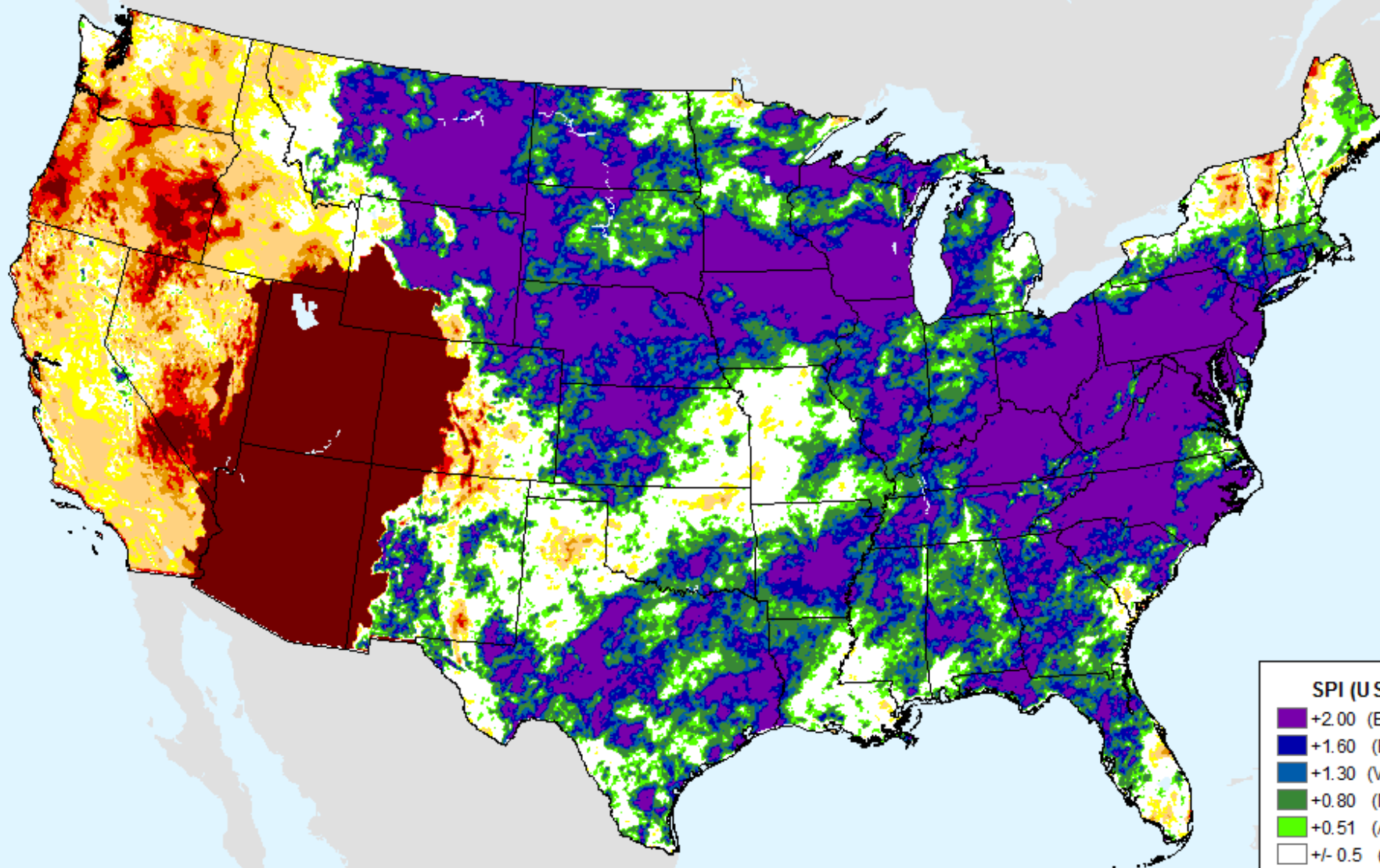
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS 12-month SPI

As of: Tuesday, January 15, 2019



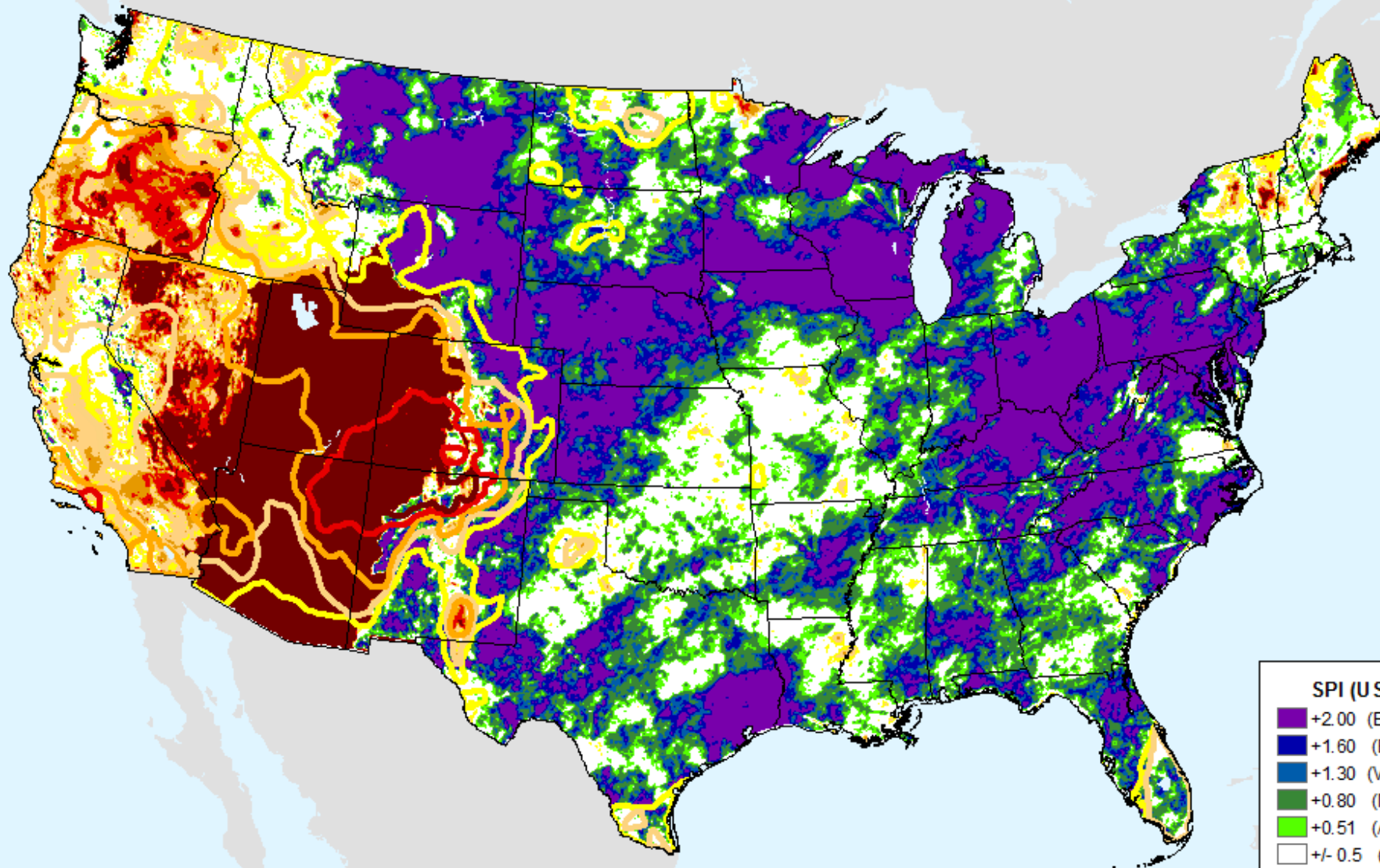
## SPI (USDM)

- +2.00 (Excp Moist)
- +1.60 (Extr Moist)
- +1.30 (Very Moist)
- +0.80 (Mod Moist)
- +0.51 (Abn Moist)
- +/- 0.5 (Normal)
- 0.51 (D0)
- 0.80 (D1)
- 1.30 (D2)
- 1.60 (D3)
- 2.00+ (D4)



# AHPS 24-month SPI

As of: Tuesday, January 15, 2019



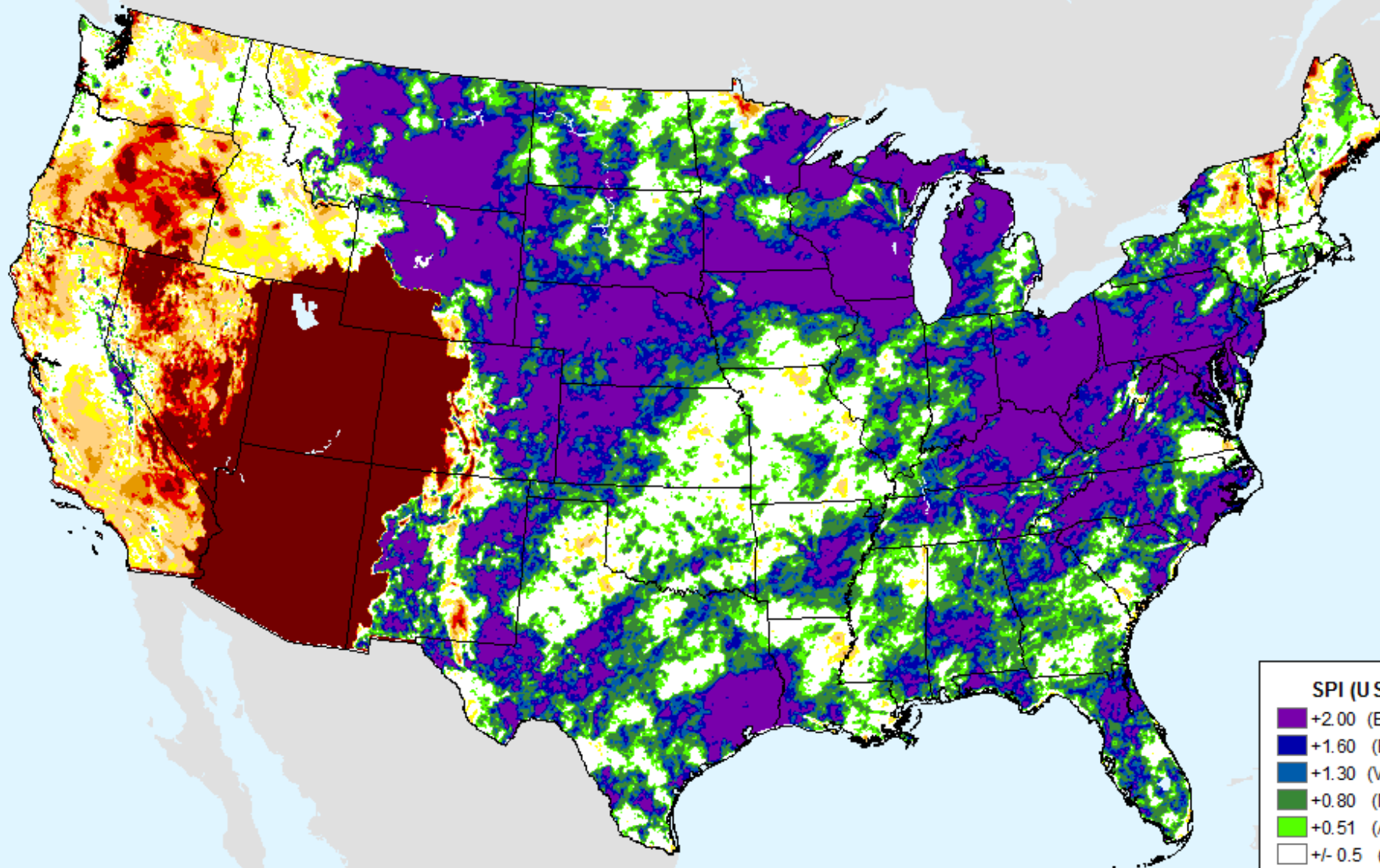
## SPI (USDM)

- +2.00 (Excp Moist)
- +1.60 (Extr Moist)
- +1.30 (Very Moist)
- +0.80 (Mod Moist)
- +0.51 (Abn Moist)
- +/- 0.5 (Normal)
- 0.51 (D0)
- 0.80 (D1)
- 1.30 (D2)
- 1.60 (D3)
- 2.00+ (D4)

USDM for: Jan. 8, 2019

# AHPS 24-month SPI

As of: Tuesday, January 15, 2019

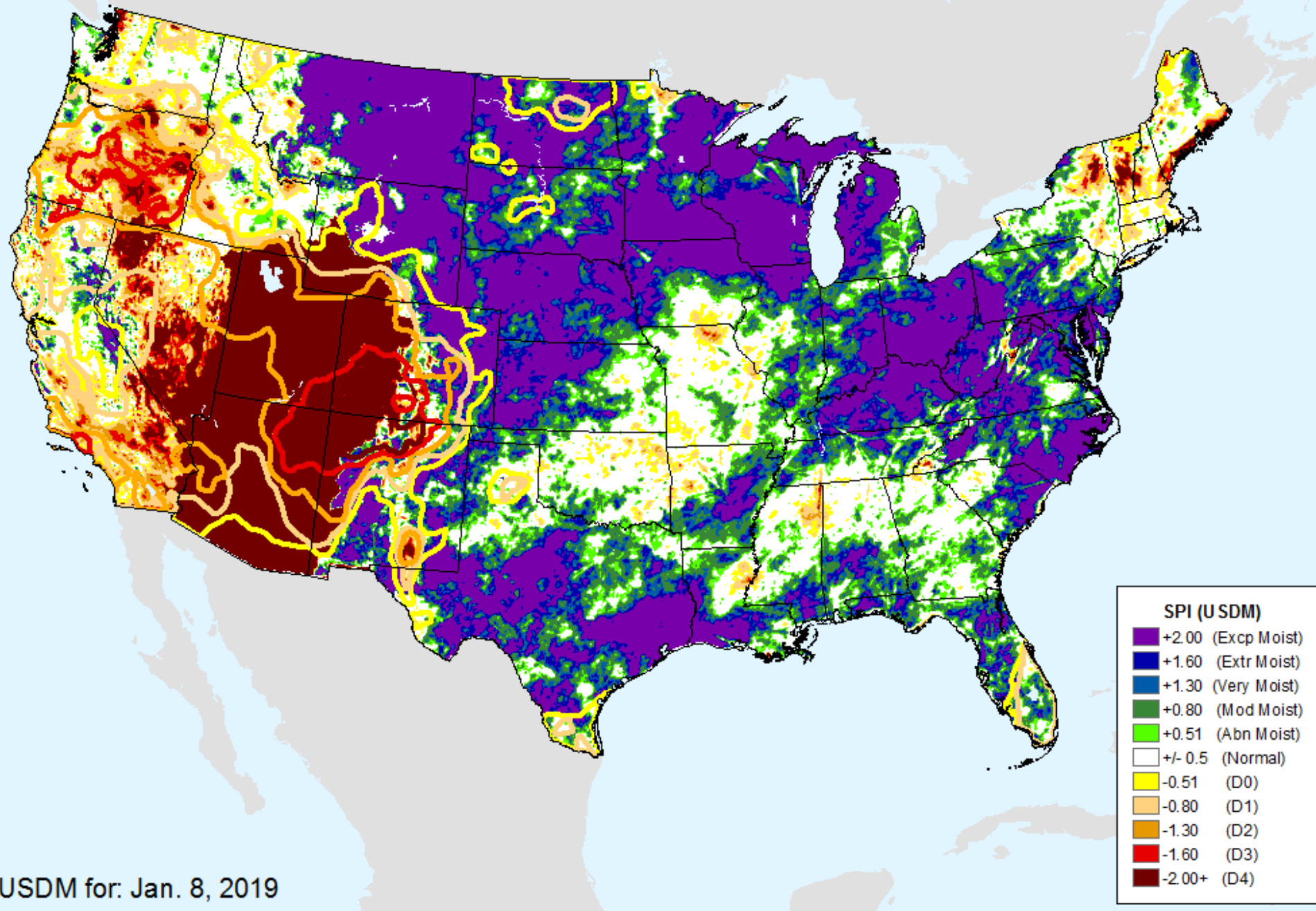


## SPI (USDM)

- +2.00 (Excp Moist)
- +1.60 (Extr Moist)
- +1.30 (Very Moist)
- +0.80 (Mod Moist)
- +0.51 (Abn Moist)
- +/- 0.5 (Normal)
- 0.51 (D0)
- 0.80 (D1)
- 1.30 (D2)
- 1.60 (D3)
- 2.00+ (D4)

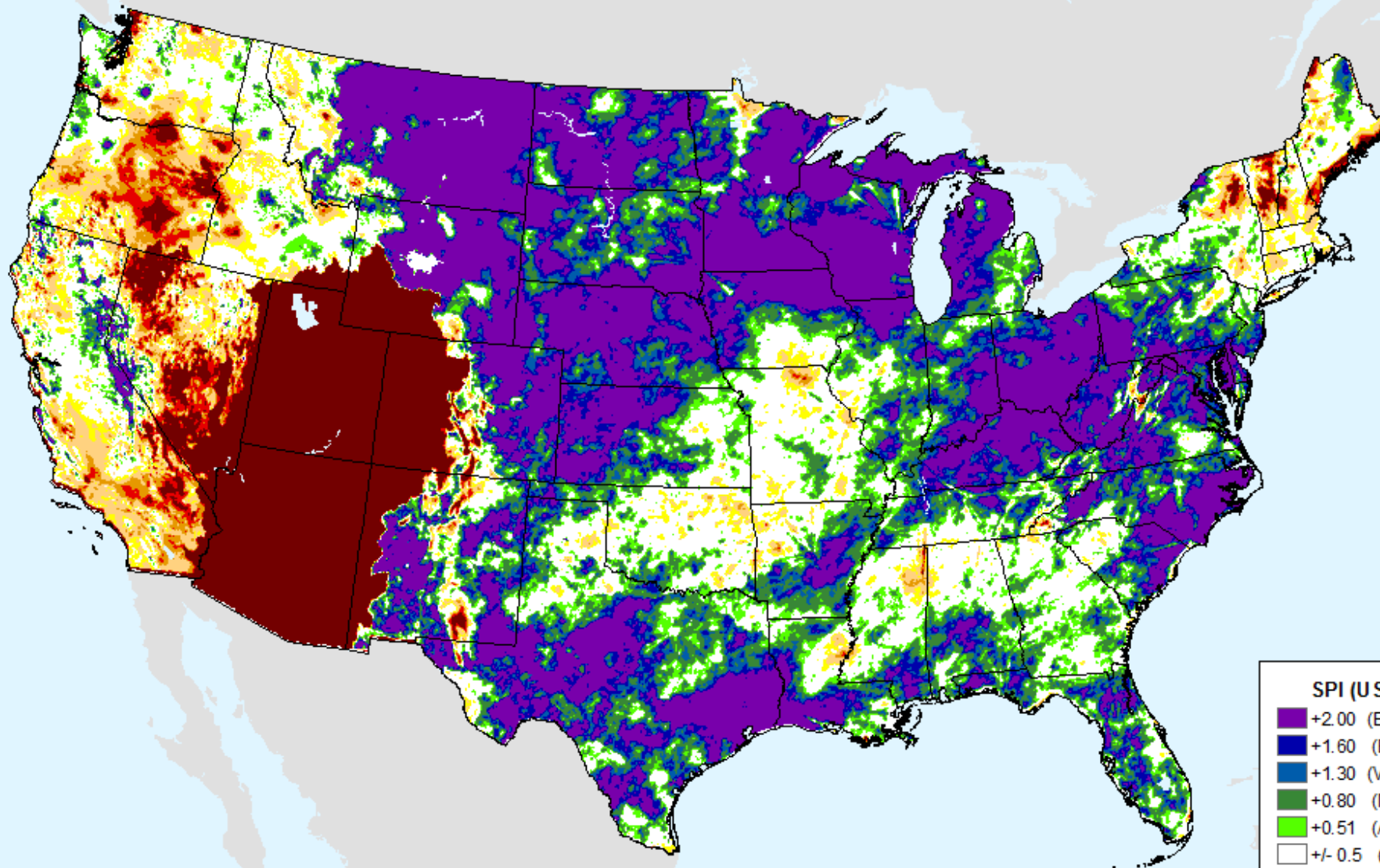
# AHPS 36-month SPI

As of: Tuesday, January 15, 2019



# AHPS 36-month SPI

As of: Tuesday, January 15, 2019

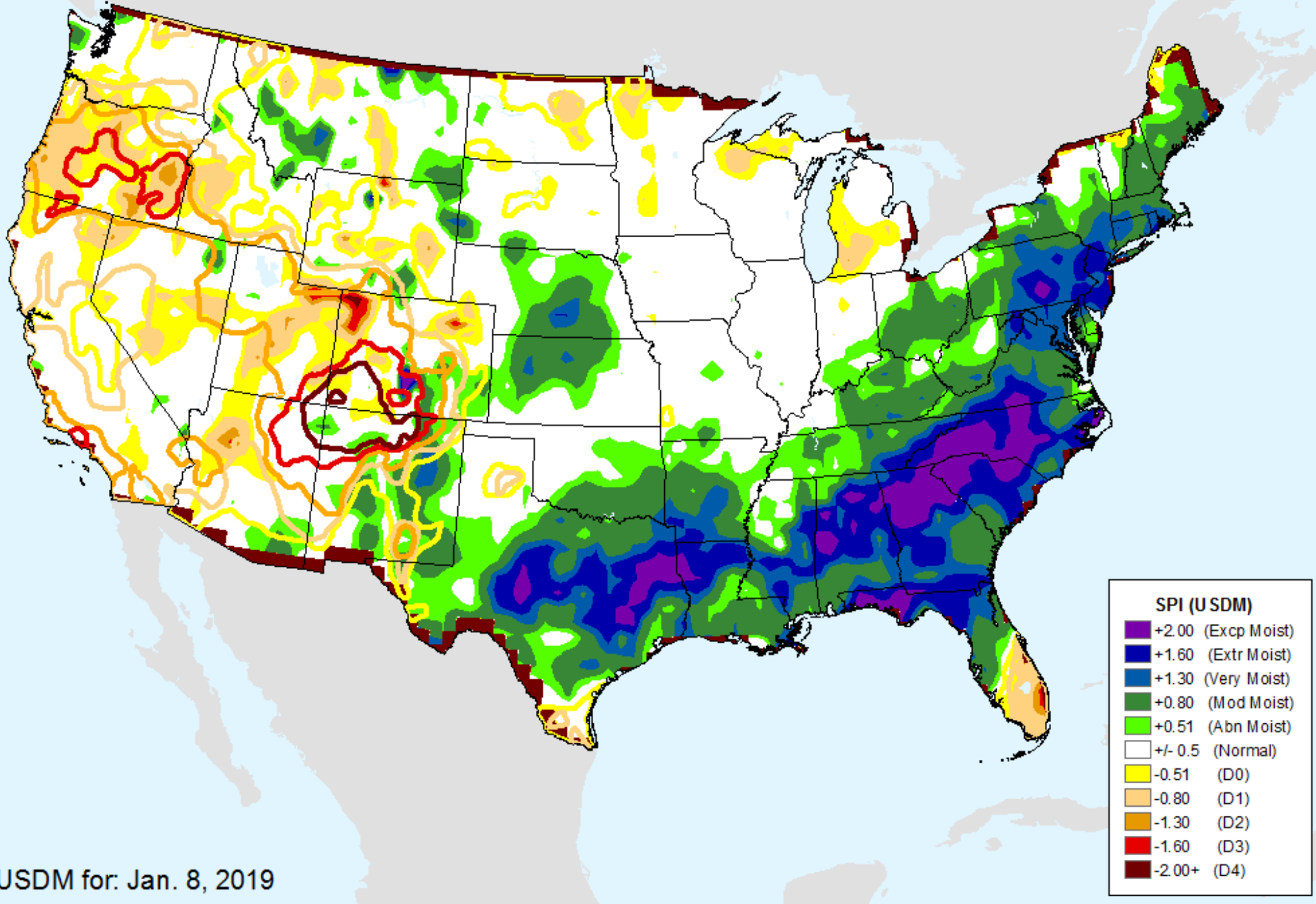


## SPI (USDM)

- +2.00 (Excp Moist)
- +1.60 (Extr Moist)
- +1.30 (Very Moist)
- +0.80 (Mod Moist)
- +0.51 (Abn Moist)
- +/- 0.5 (Normal)
- 0.51 (D0)
- 0.80 (D1)
- 1.30 (D2)
- 1.60 (D3)
- 2.00+ (D4)

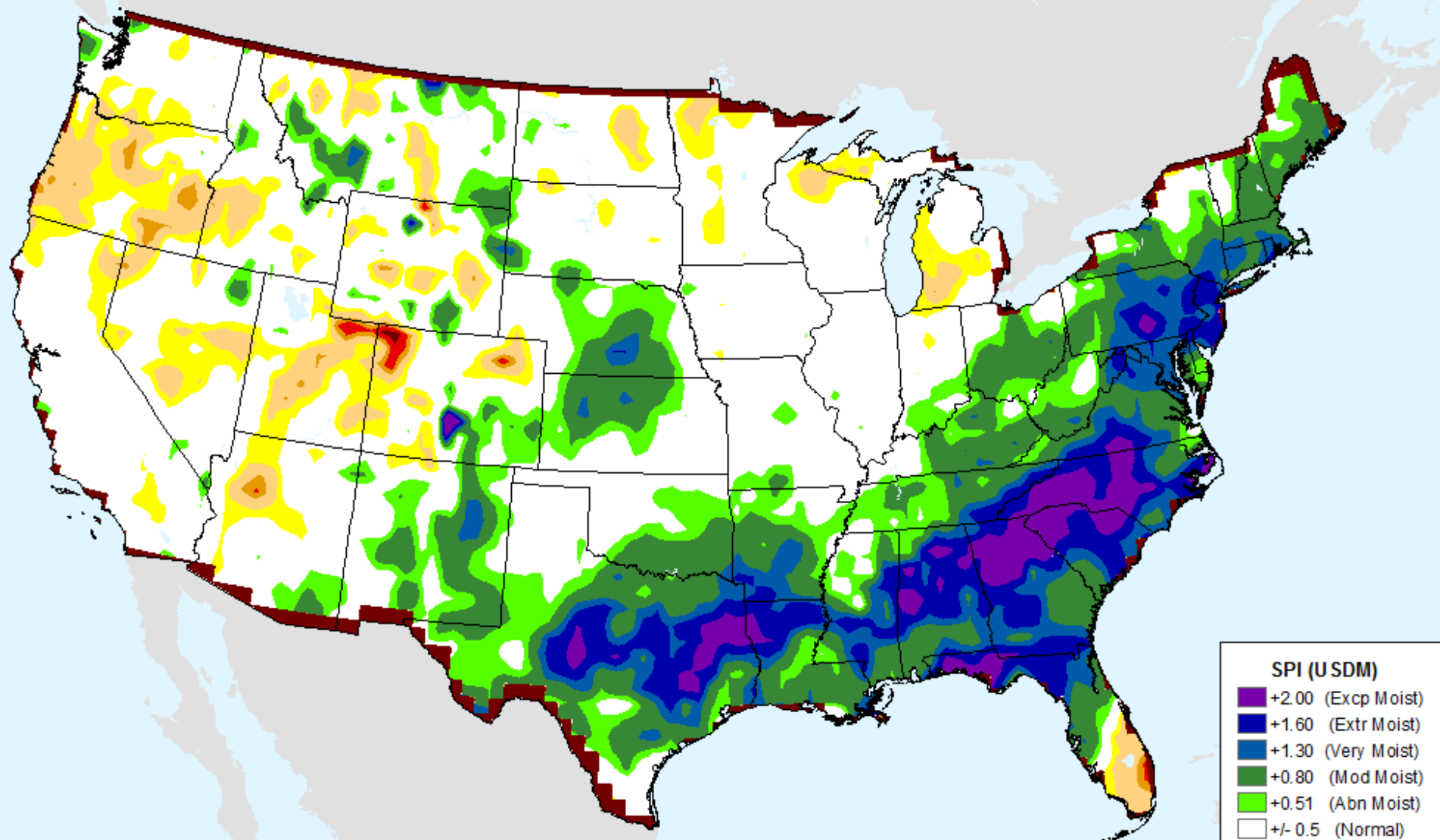
# CPC 3-month SPI

As of: Tuesday, January 15, 2019



# CPC 3-month SPI

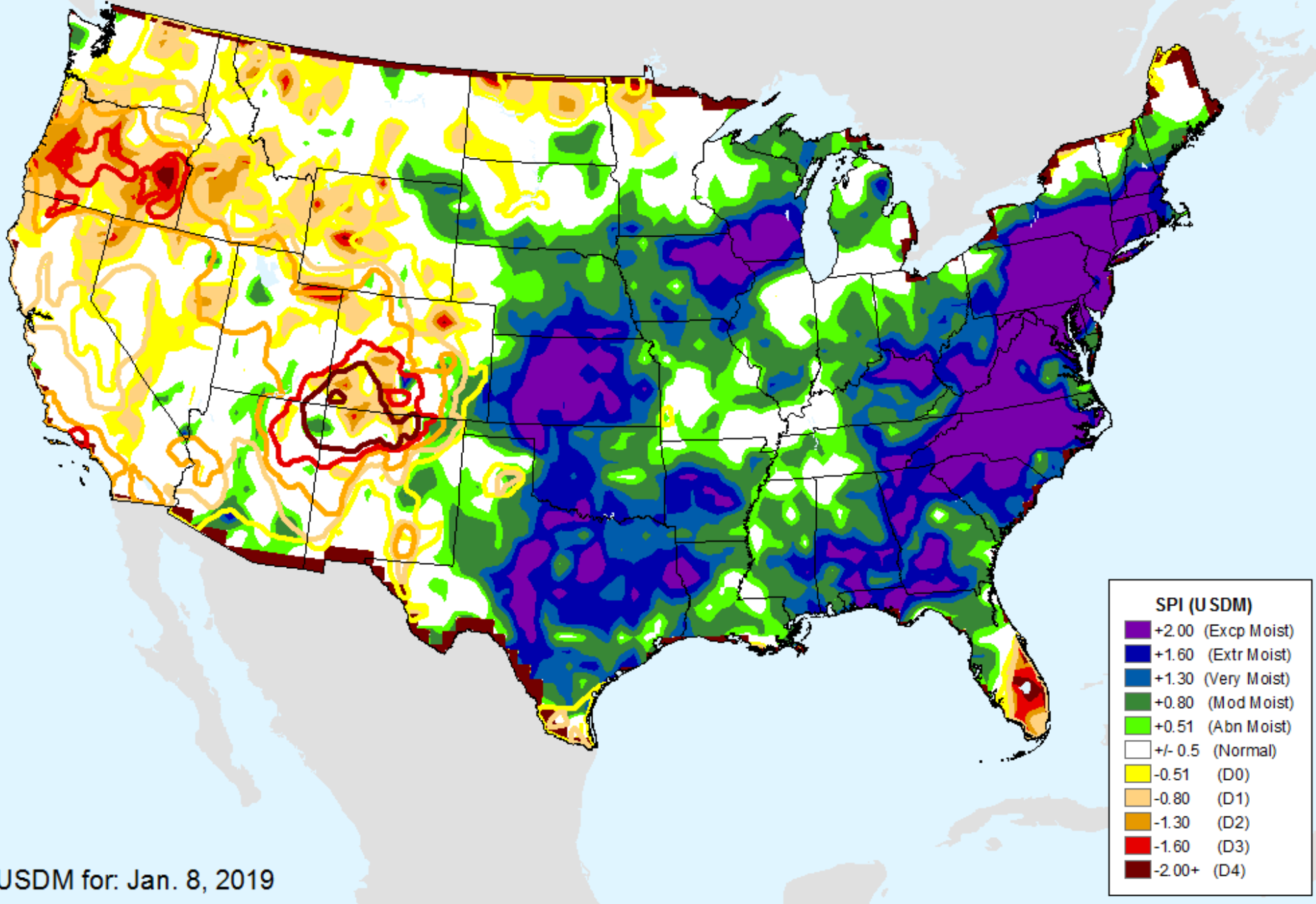
As of: Tuesday, January 15, 2019



SPI (USDM)	
Dark Purple	+2.00 (Excp Moist)
Blue	+1.60 (Extr Moist)
Light Blue	+1.30 (Very Moist)
Green	+0.80 (Mod Moist)
Light Green	+0.51 (Abn Moist)
White	+/- 0.5 (Normal)
Yellow	-0.51 (D0)
Orange	-0.80 (D1)
Dark Orange	-1.30 (D2)
Red	-1.60 (D3)
Dark Red	-2.00+ (D4)

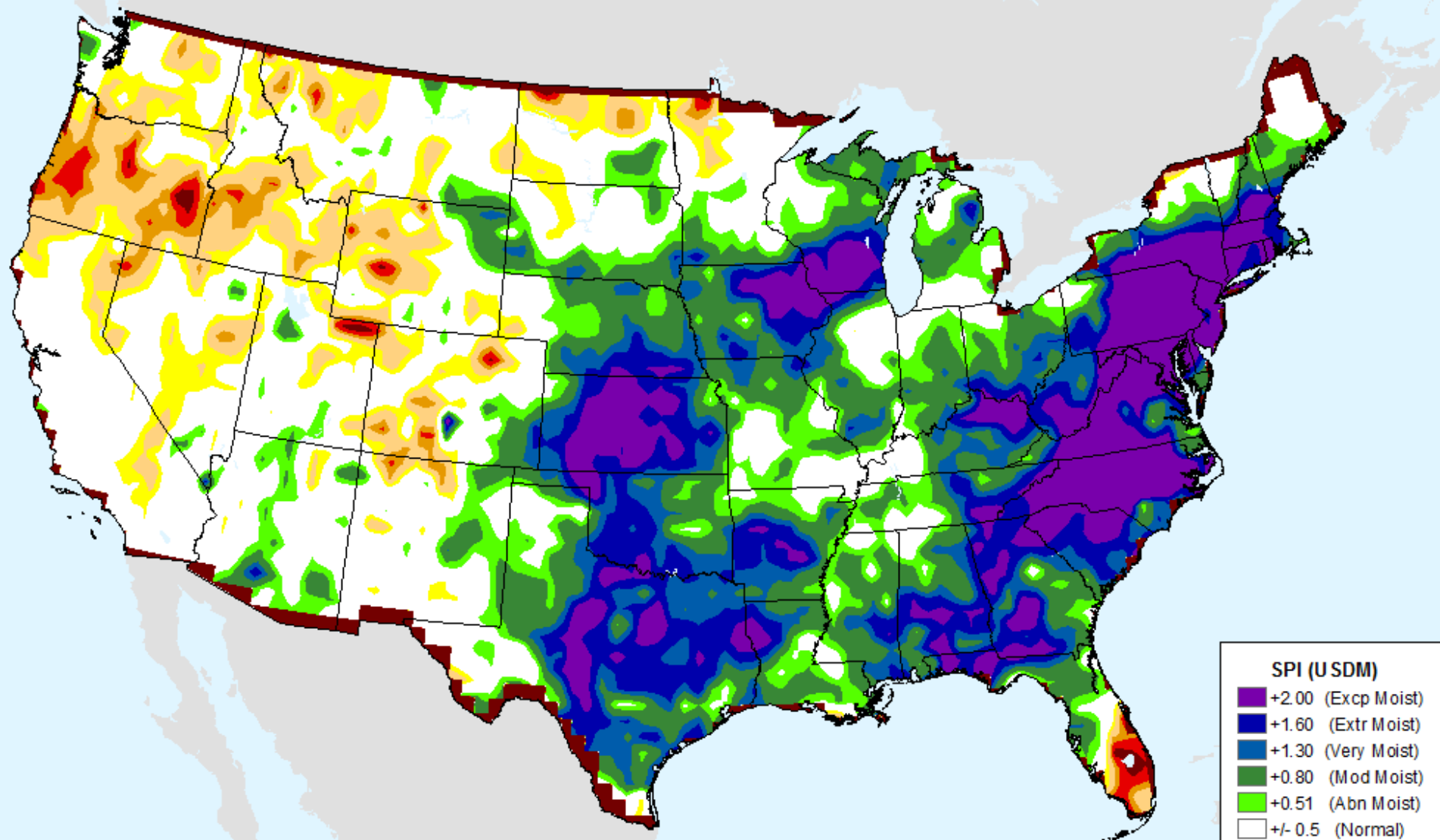
# CPC 6-month SPI

As of: Tuesday, January 15, 2019



# CPC 6-month SPI

As of: Tuesday, January 15, 2019

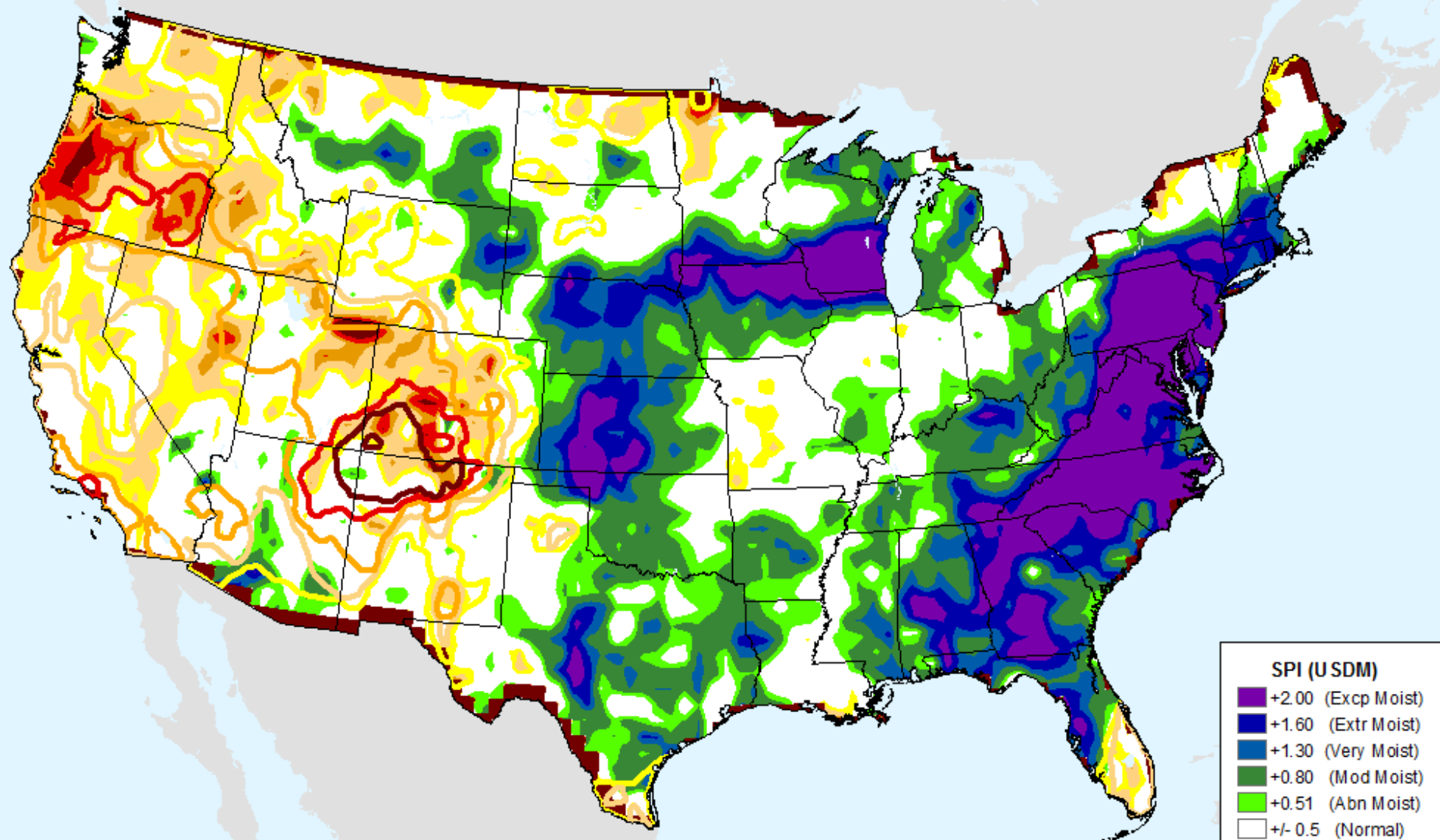


SPI (USDM)	
Dark Purple	+2.00 (Excp Moist)
Dark Blue	+1.60 (Extr Moist)
Blue	+1.30 (Very Moist)
Green	+0.80 (Mod Moist)
Light Green	+0.51 (Abn Moist)
White	+/- 0.5 (Normal)
Yellow	-0.51 (D0)
Light Orange	-0.80 (D1)
Orange	-1.30 (D2)
Red	-1.60 (D3)
Dark Red	-2.00+ (D4)



# CPC 9-month SPI

As of: Tuesday, January 15, 2019

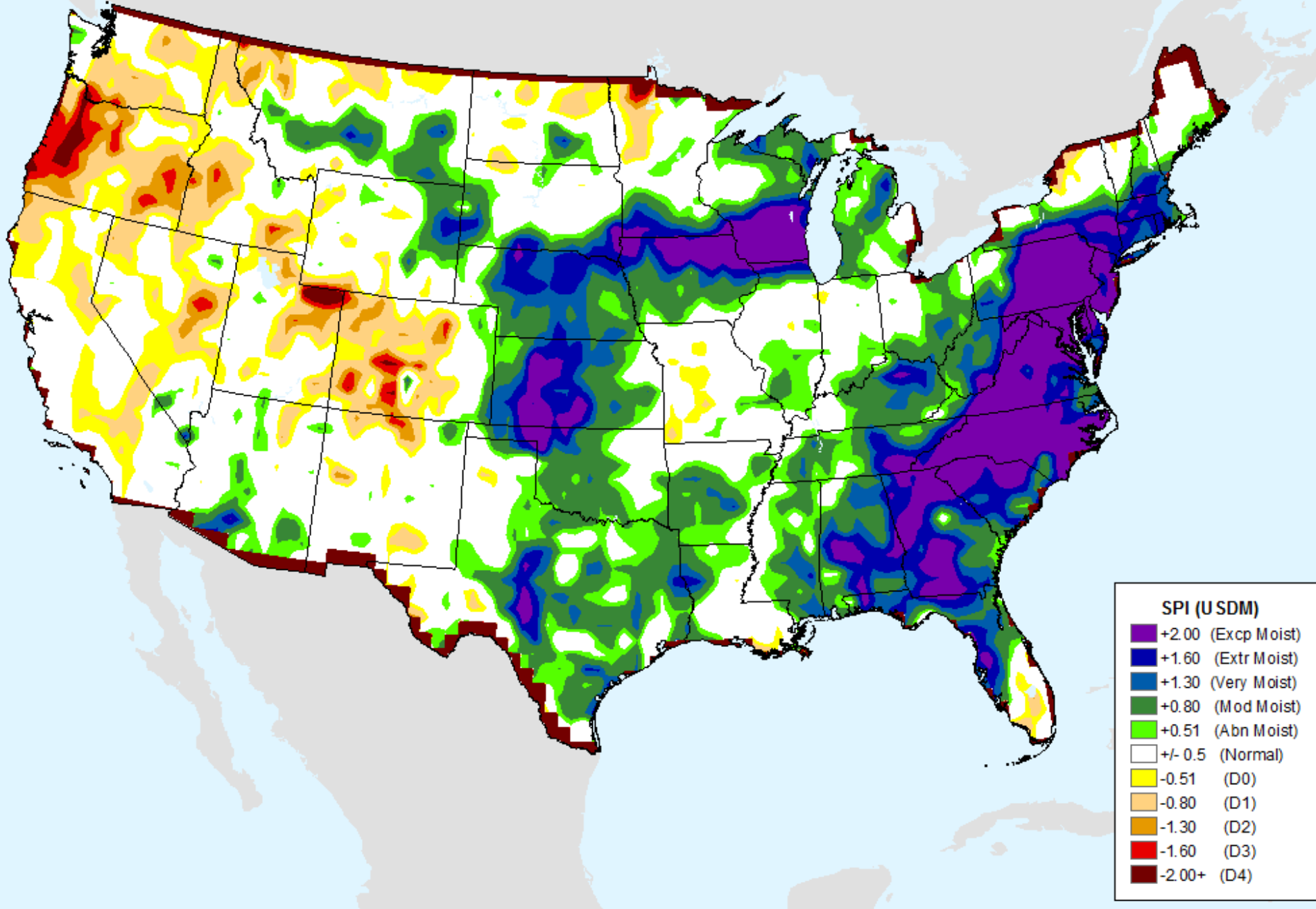


SPI (USDM)	
+	+2.00 (Excp Moist)
+	+1.60 (Extr Moist)
+	+1.30 (Very Moist)
+	+0.80 (Mod Moist)
+	+0.51 (Abn Moist)
±	+/- 0.5 (Normal)
-	-0.51 (D0)
-	-0.80 (D1)
-	-1.30 (D2)
-	-1.60 (D3)
-	-2.00+ (D4)

USDM for: Jan. 8, 2019

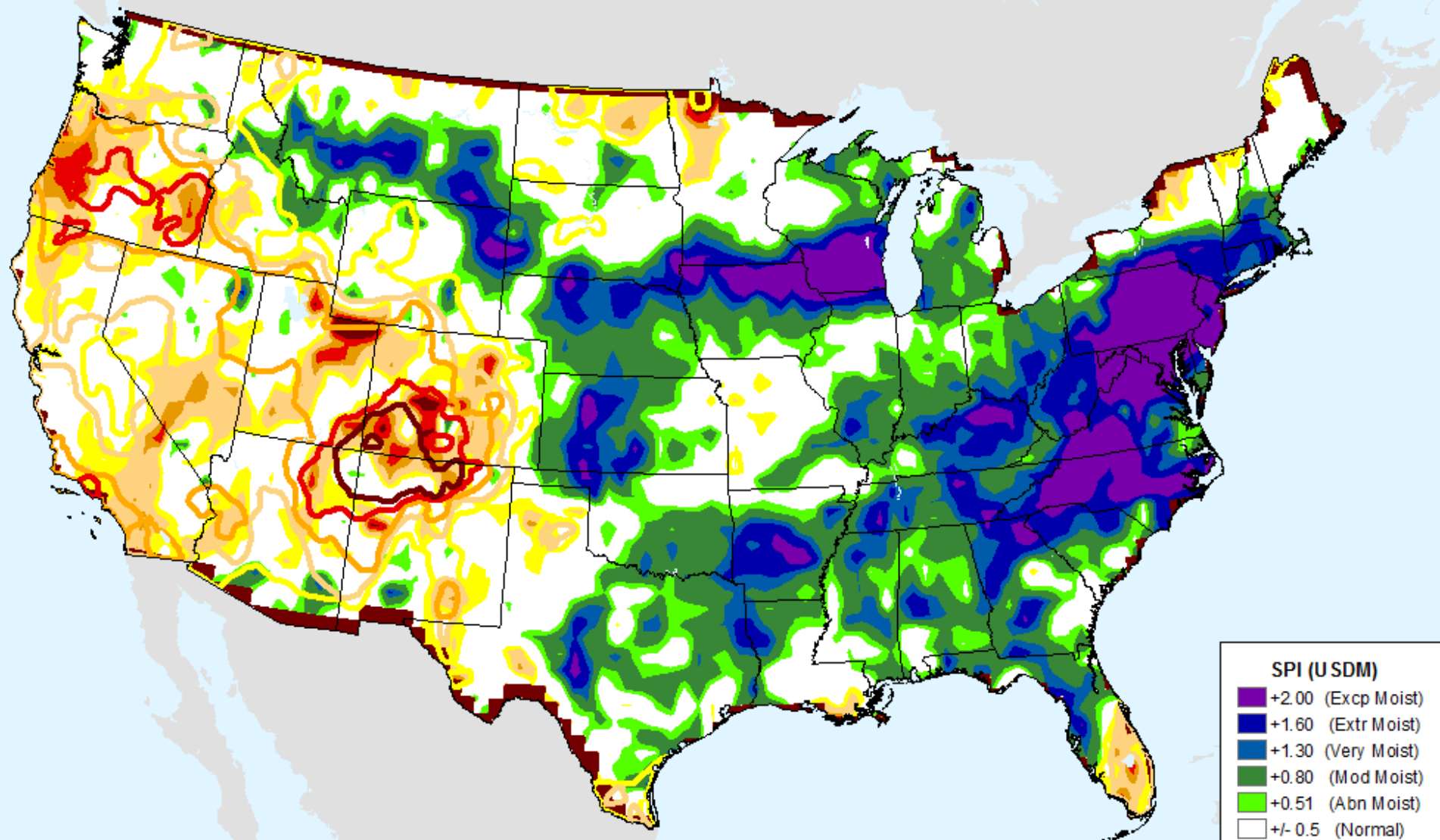
# CPC 9-month SPI

As of: Tuesday, January 15, 2019



# CPC 12-month SPI

As of: Tuesday, January 15, 2019

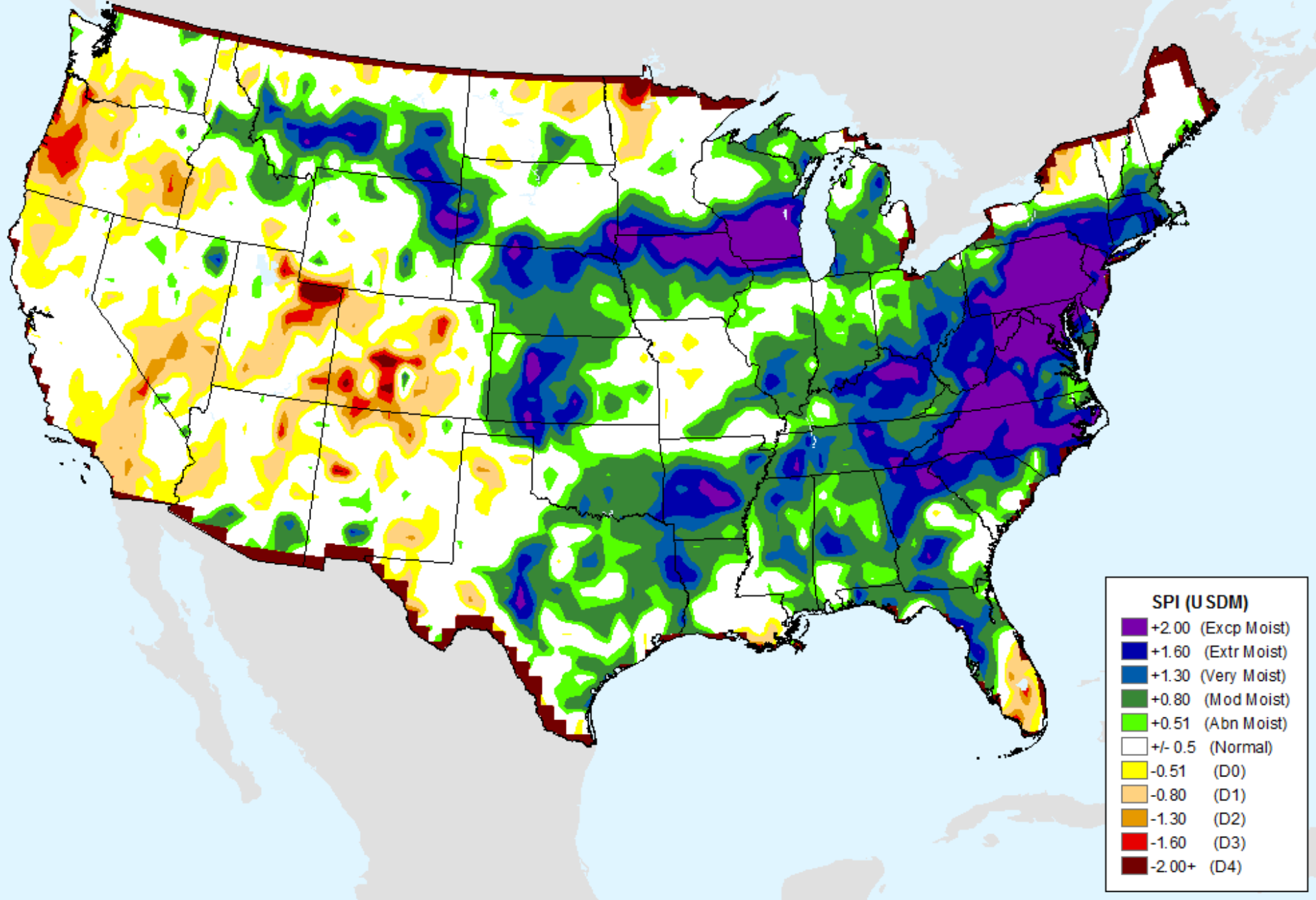


SPI (USDM)	
Dark Purple	+2.00 (Excp Moist)
Dark Blue	+1.60 (Extr Moist)
Blue	+1.30 (Very Moist)
Dark Green	+0.80 (Mod Moist)
Light Green	+0.51 (Abn Moist)
White	+/- 0.5 (Normal)
Yellow	-0.51 (D0)
Light Orange	-0.80 (D1)
Orange	-1.30 (D2)
Red	-1.60 (D3)
Dark Red	-2.00+ (D4)

USDM for: Jan. 8, 2019

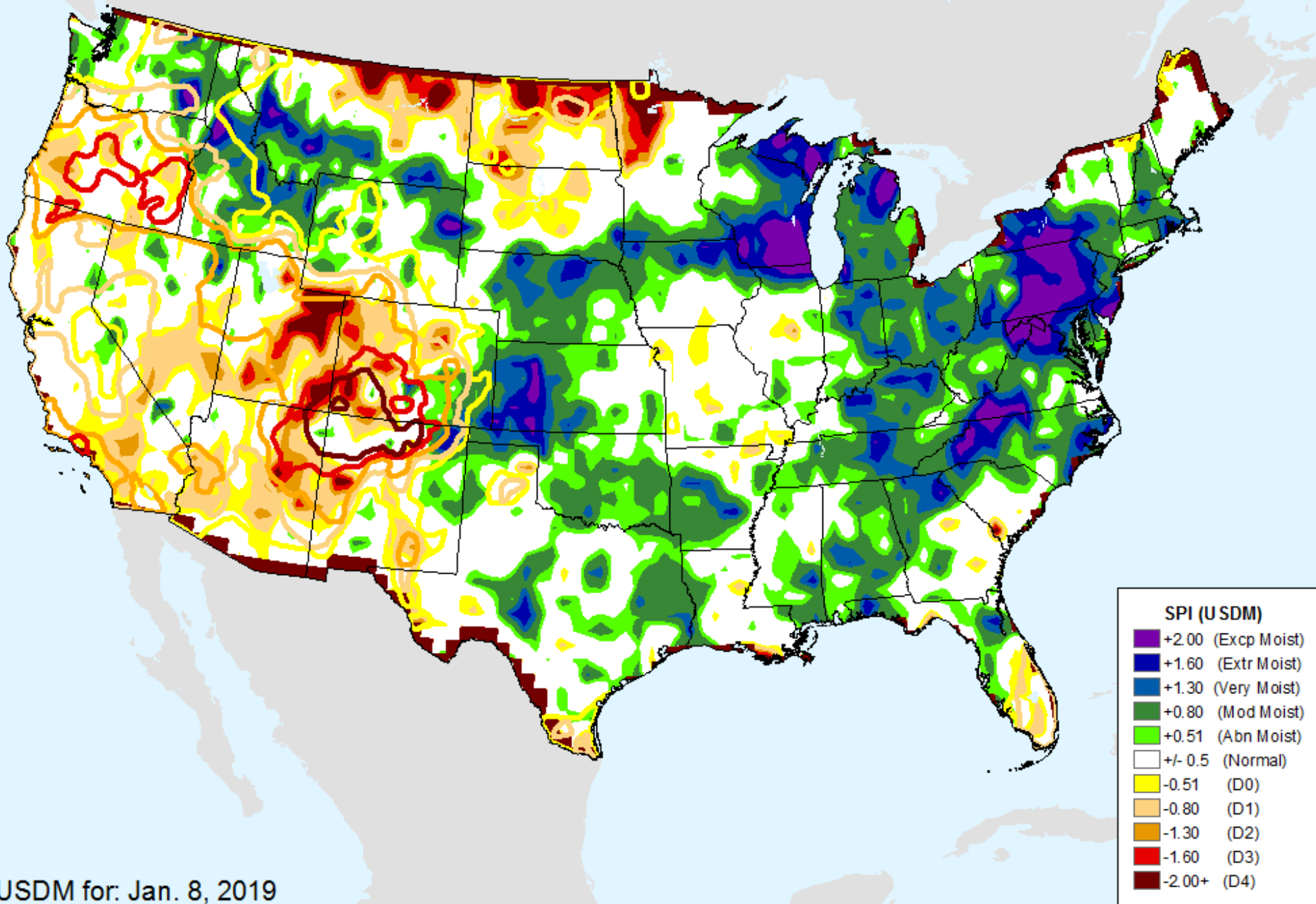
# CPC 12-month SPI

As of: Tuesday, January 15, 2019



# CPC 24-month SPI

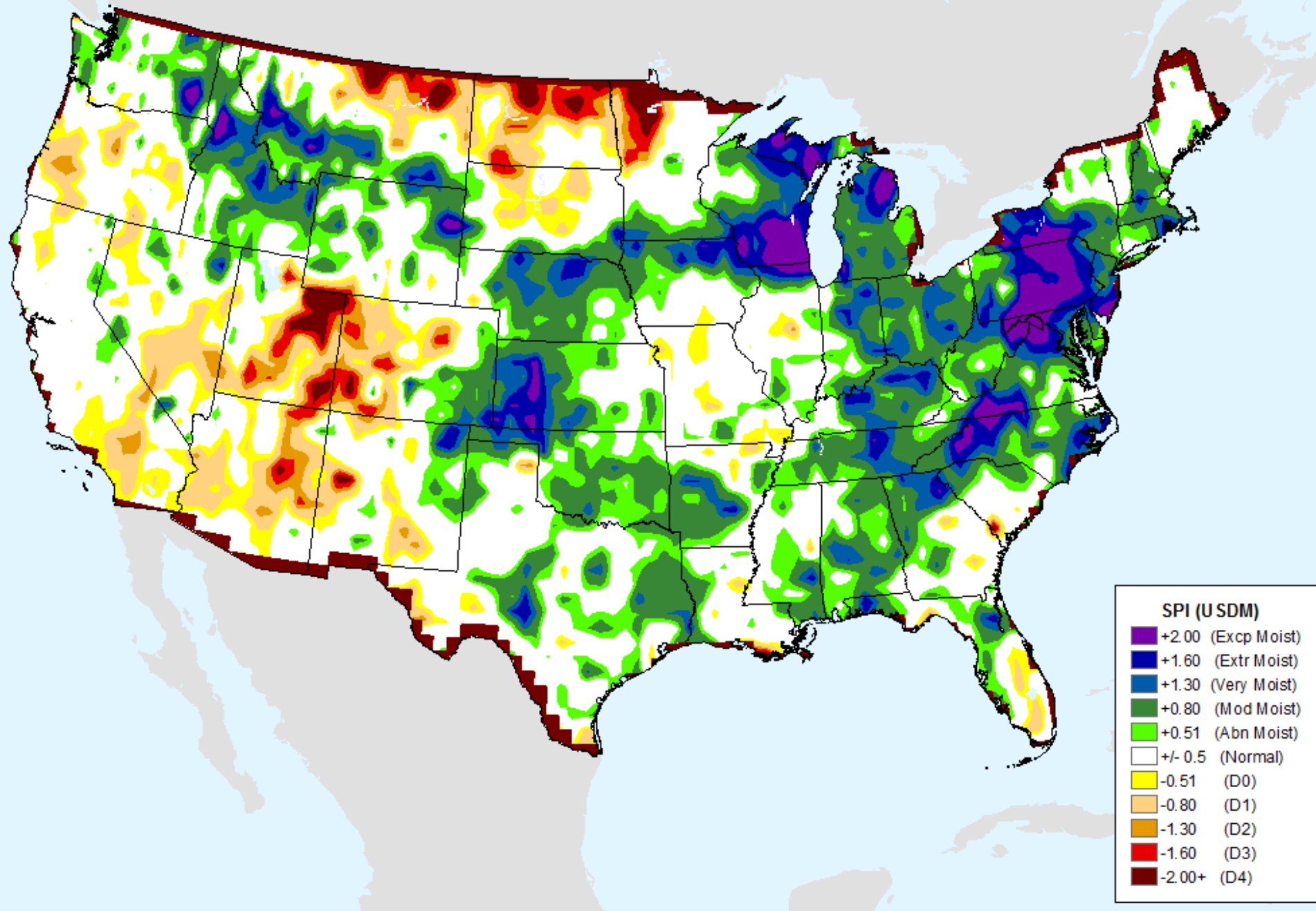
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

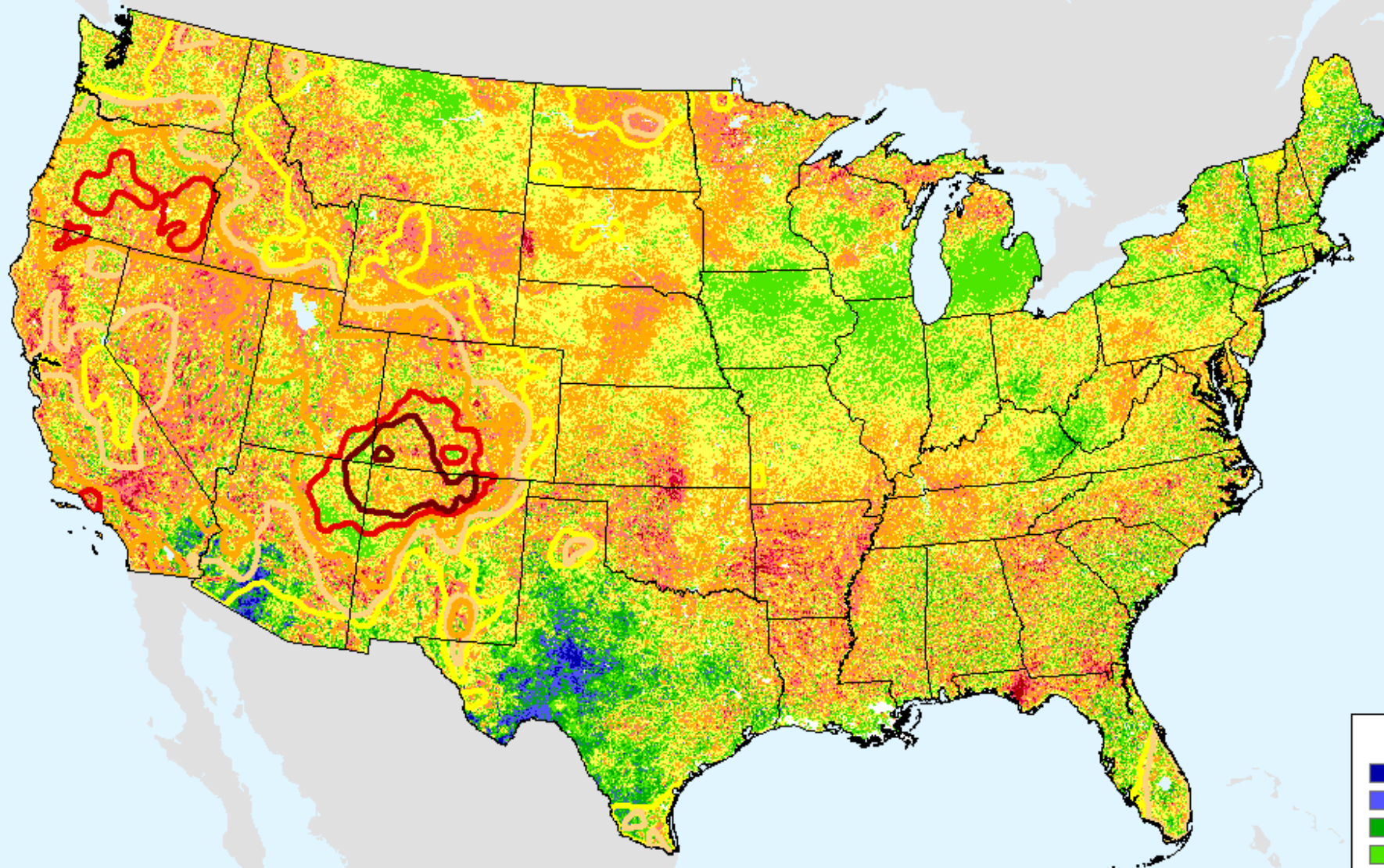
# CPC 24-month SPI

As of: Tuesday, January 15, 2019



# Vegetation Health Index

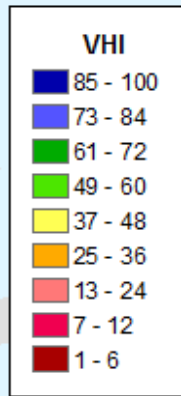
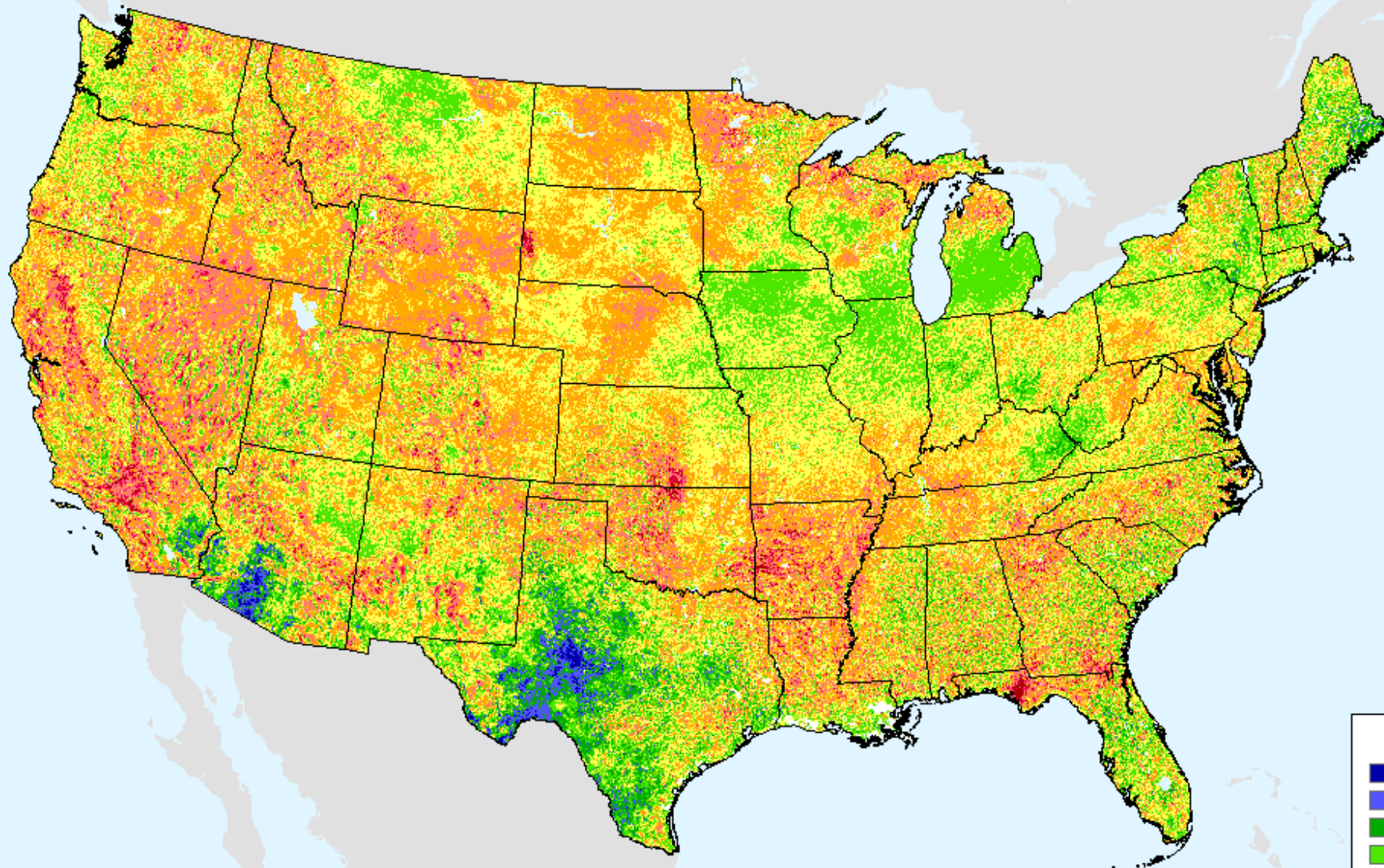
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# Vegetation Health Index

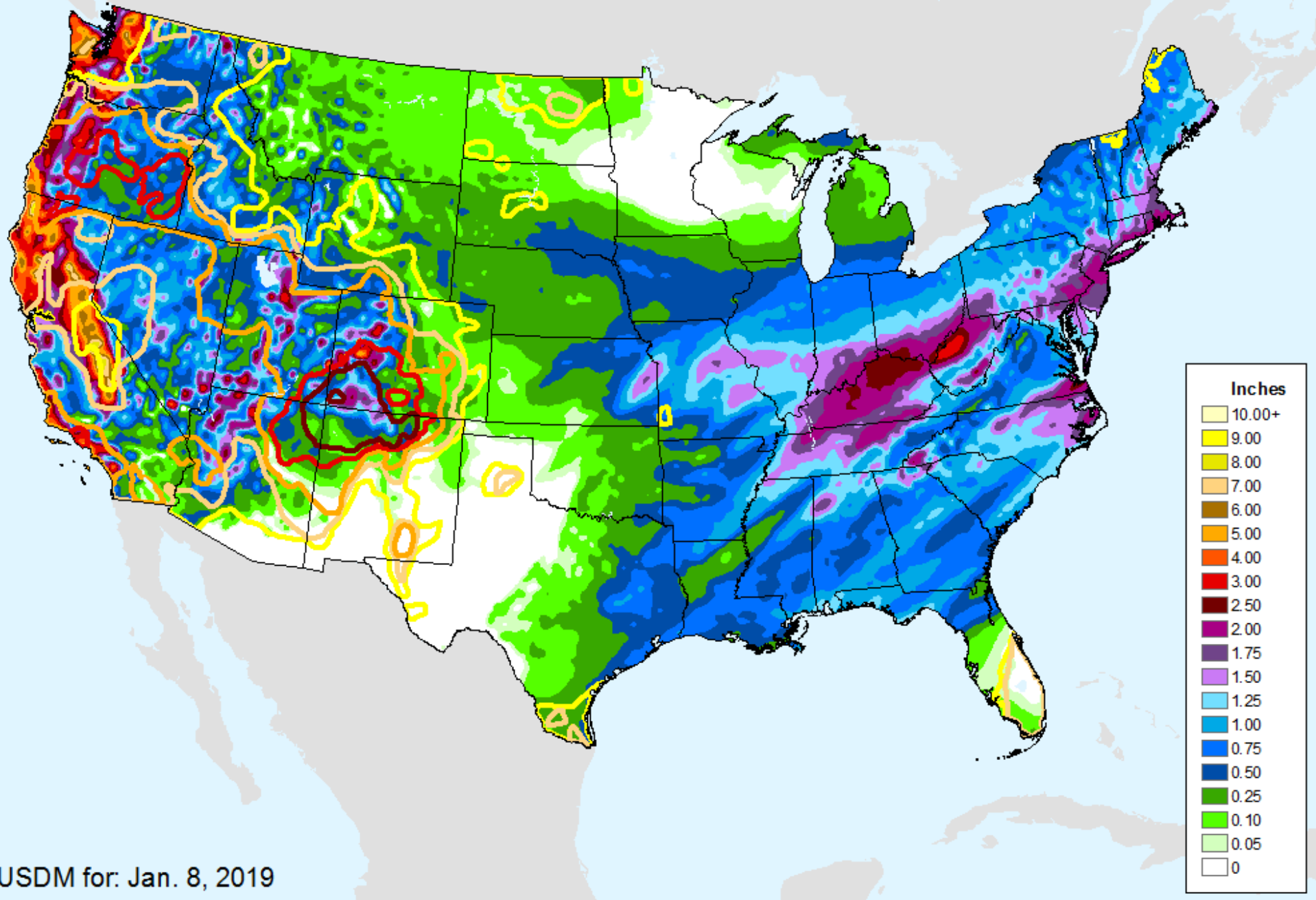
As of: Tuesday, January 15, 2019





# GFS (00z) 7-Day Precip Forecast

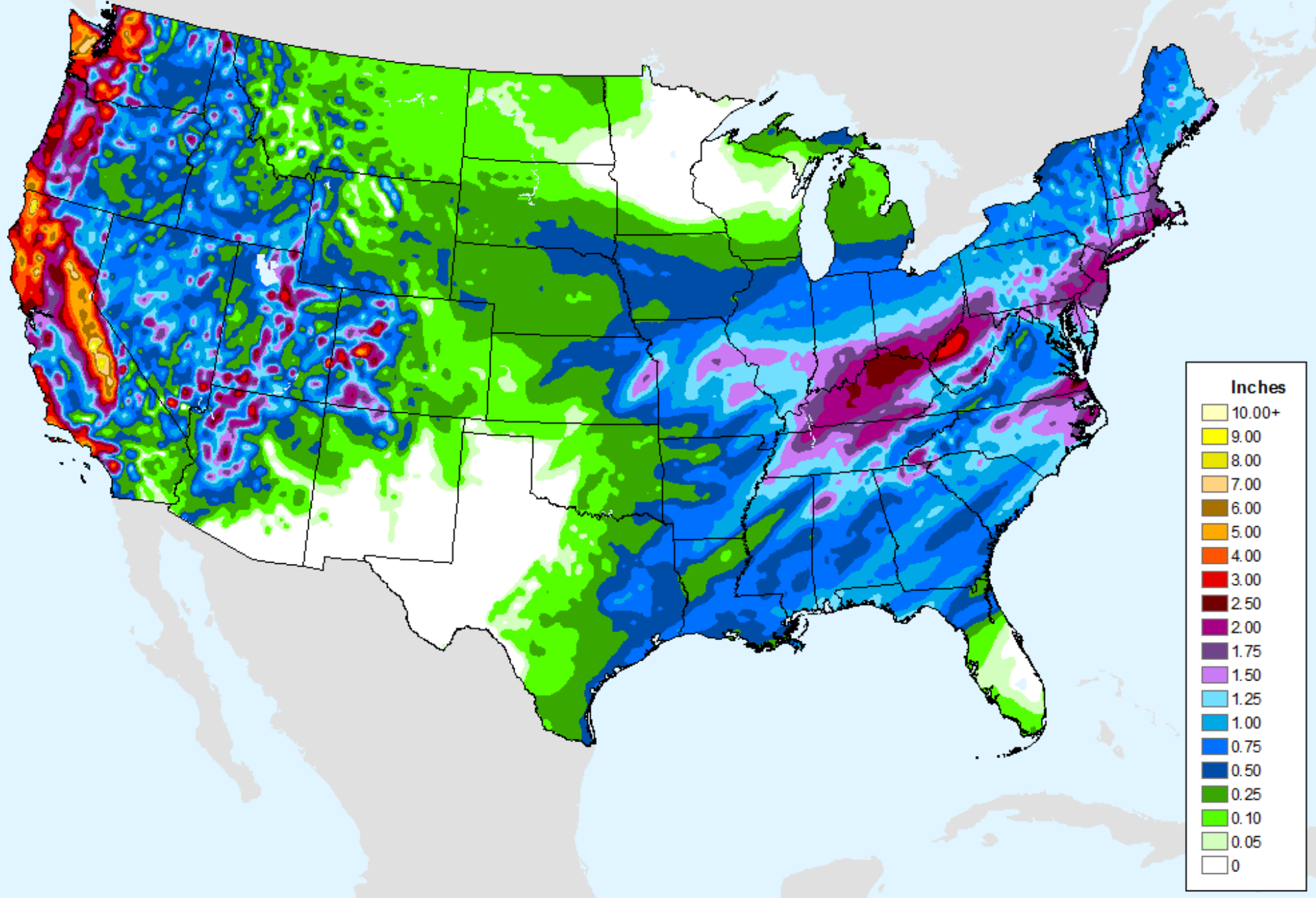
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

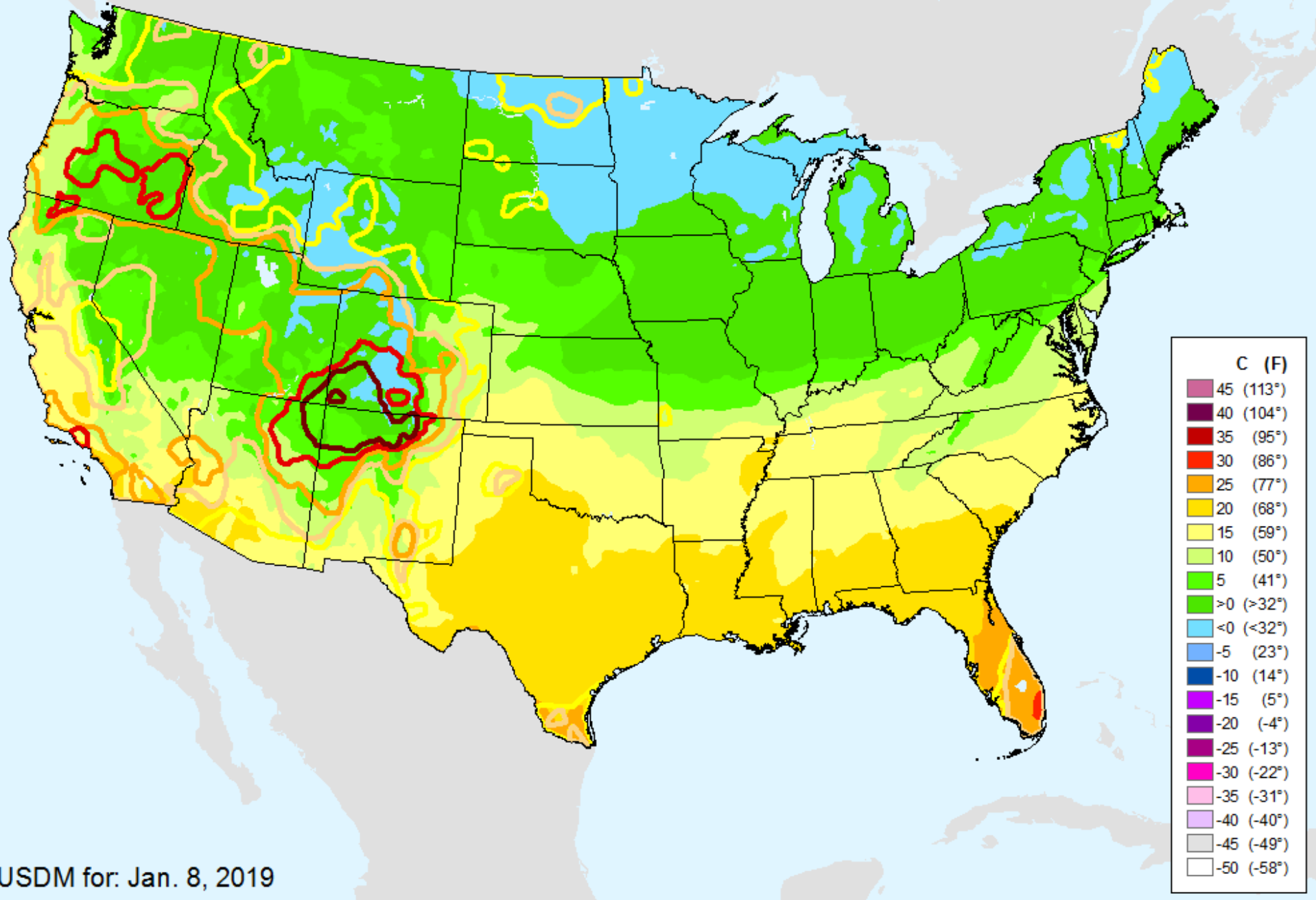
# GFS (00z) 7-Day Precip Forecast

As of: Tuesday, January 15, 2019



# GFS (00z) 7-Day Max Temp Forecast

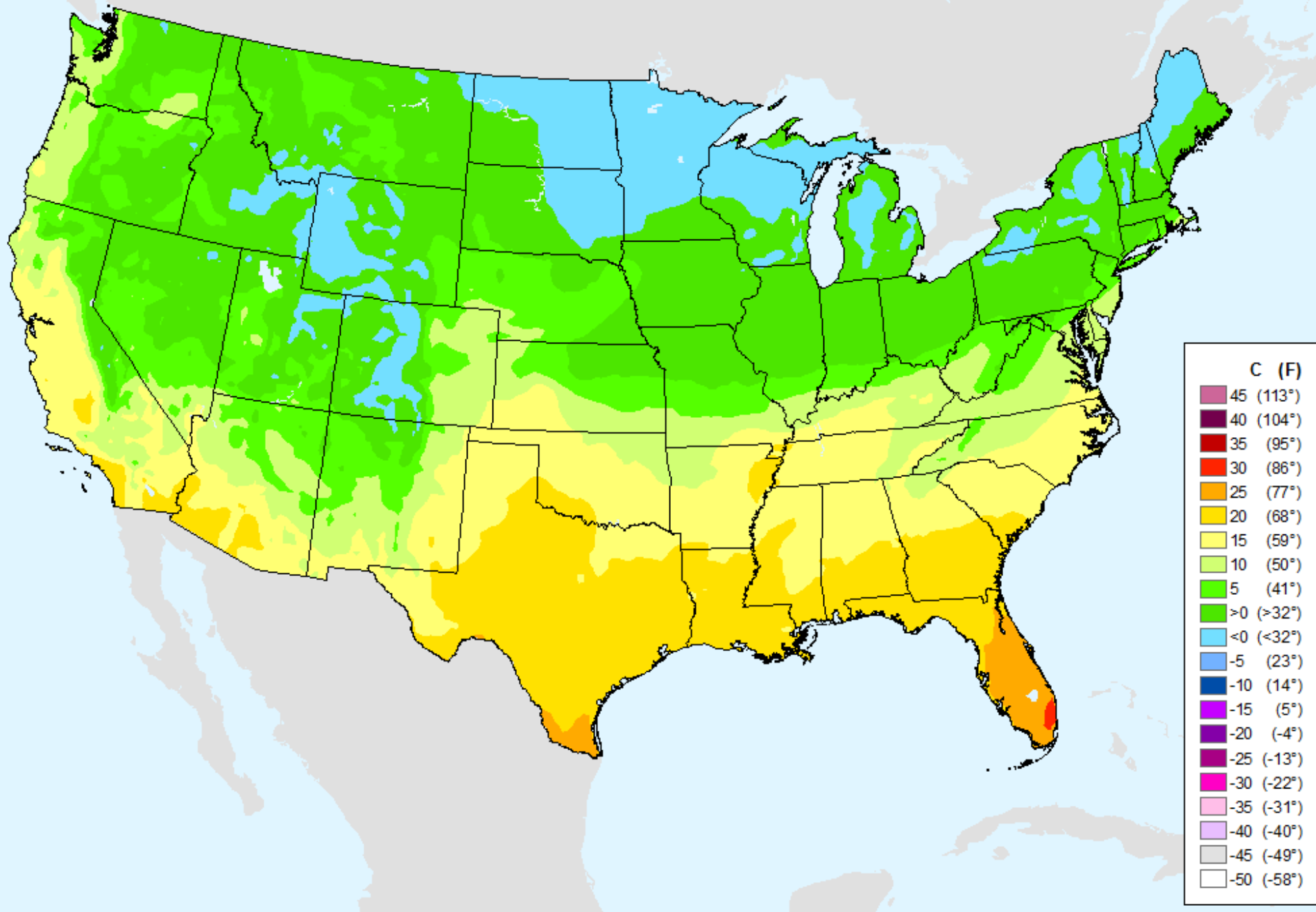
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

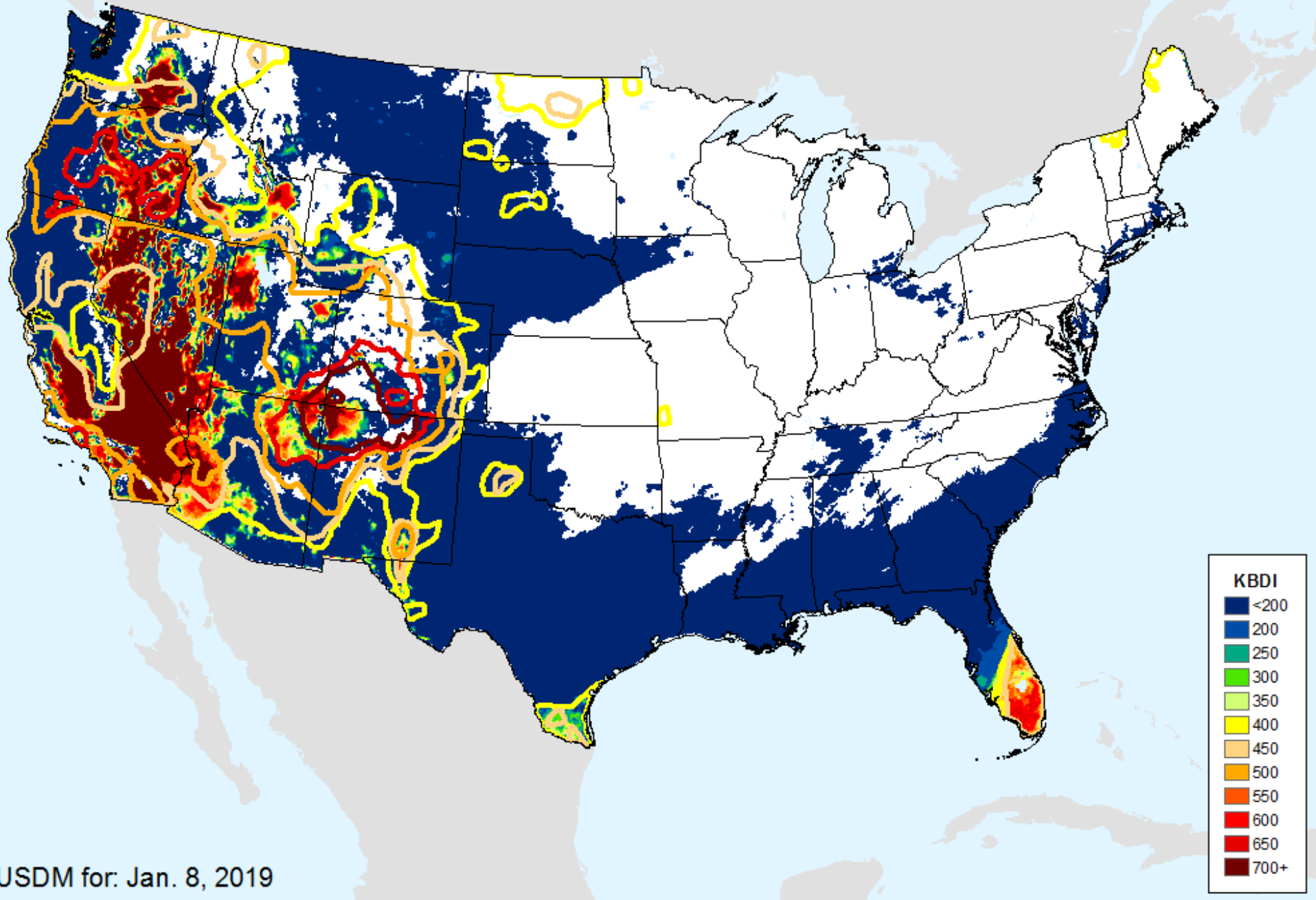
# GFS (00z) 7-Day Max Temp Forecast

As of: Tuesday, January 15, 2019



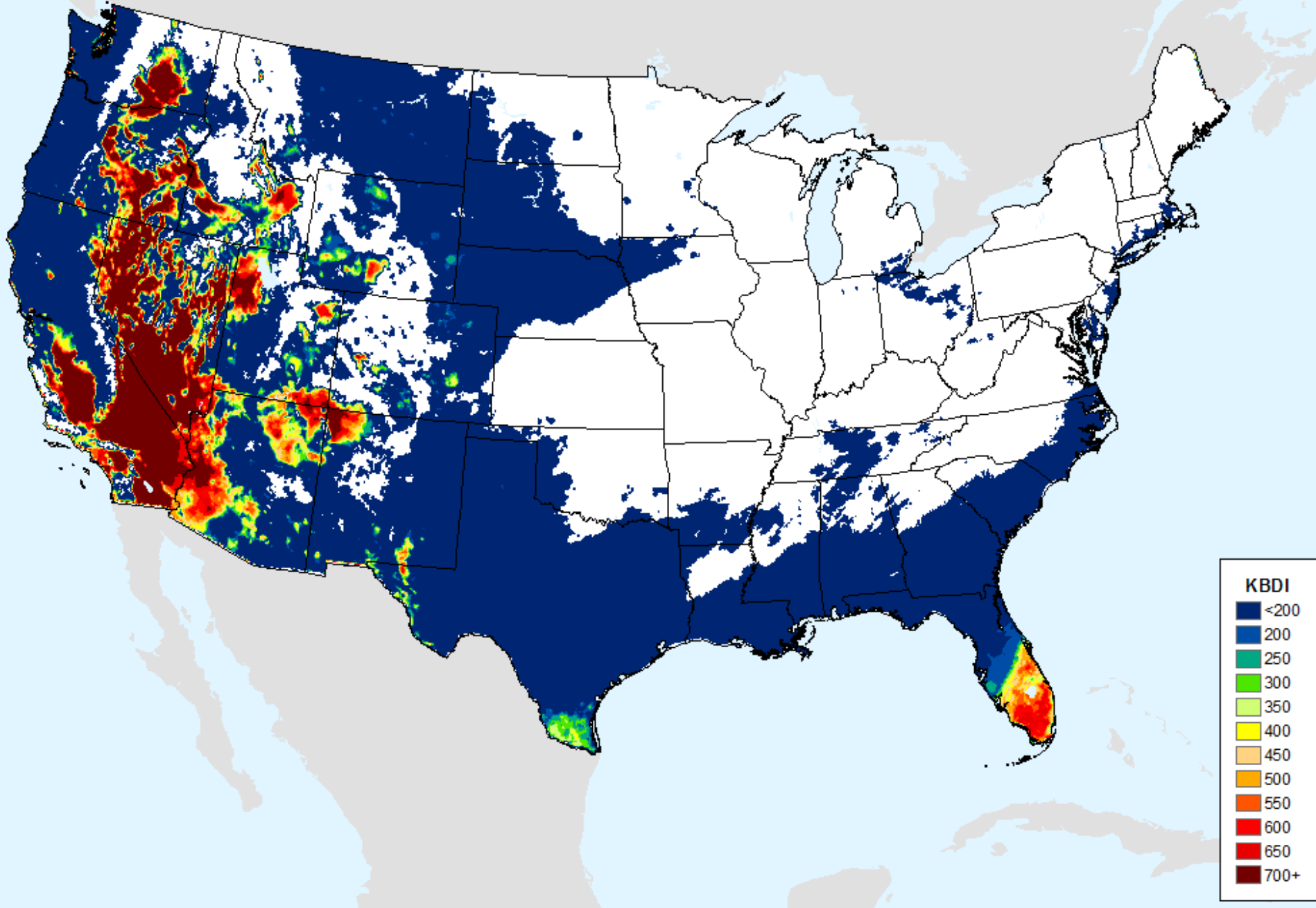
# Keetch-Byram Drought Index (KBDI)

As of: Tuesday, January 15, 2019



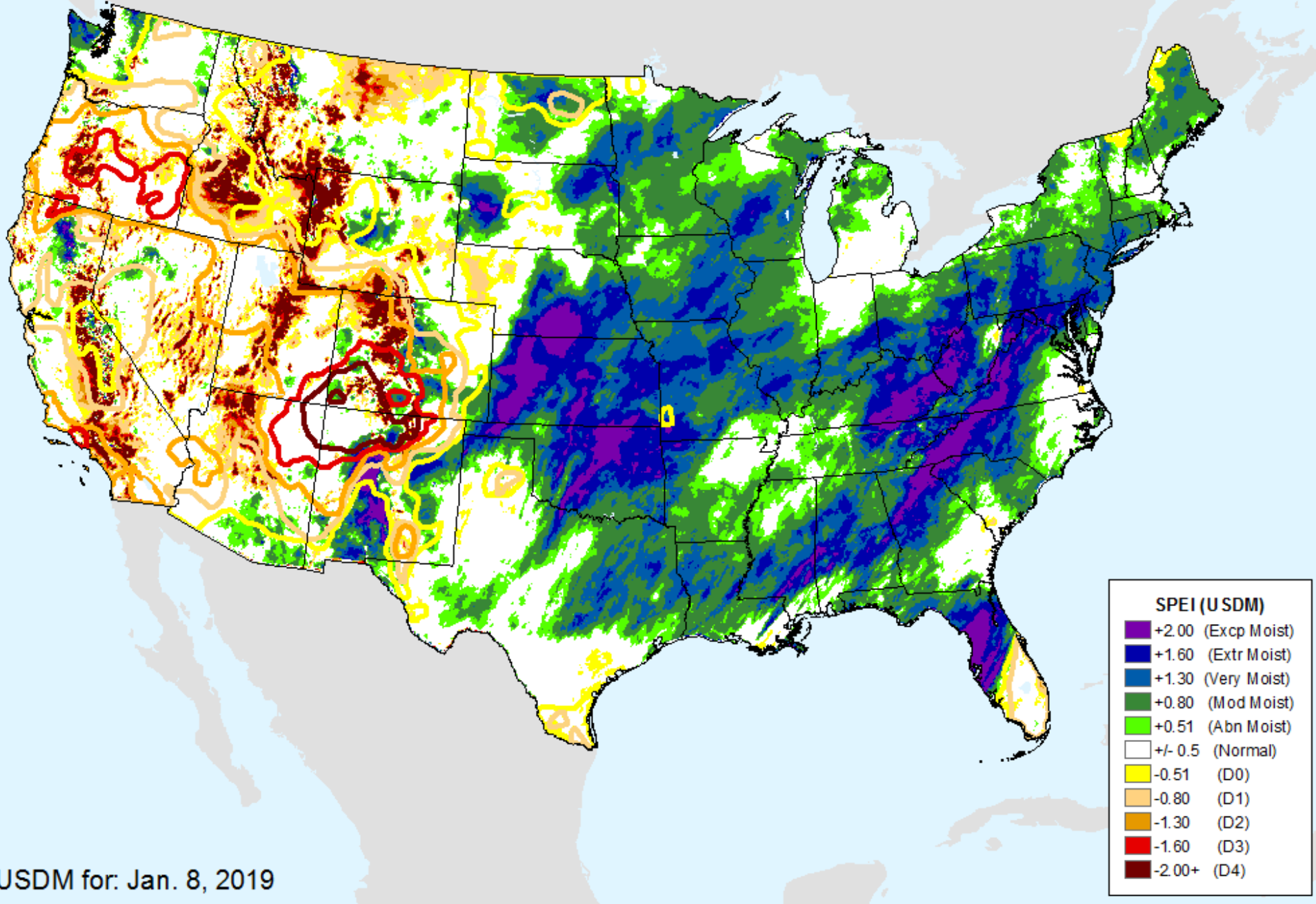
# Keetch-Byram Drought Index (KBDI)

As of: Tuesday, January 15, 2019



# AHPS 1-month SPEI

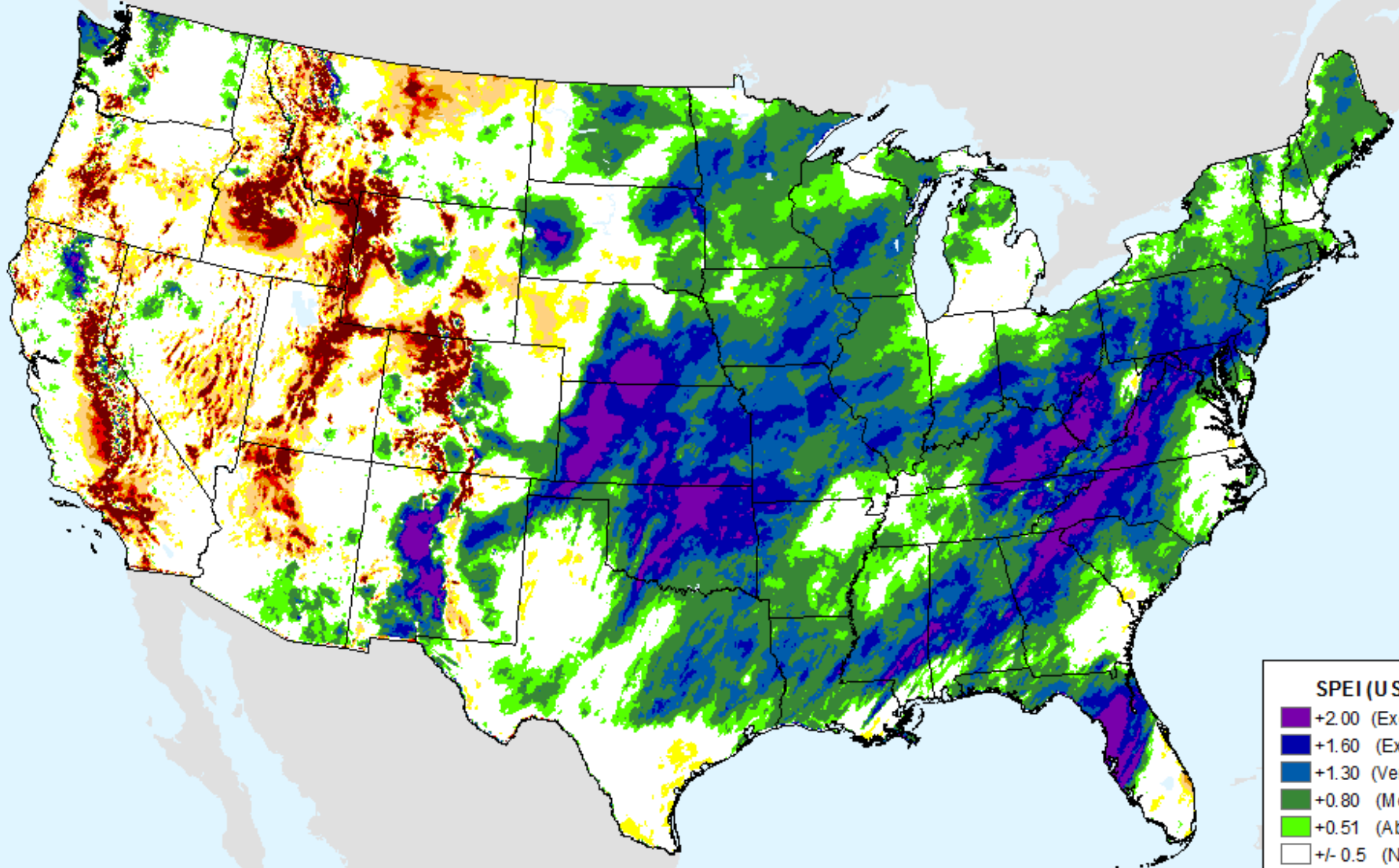
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS 1-month SPEI

As of: Tuesday, January 15, 2019



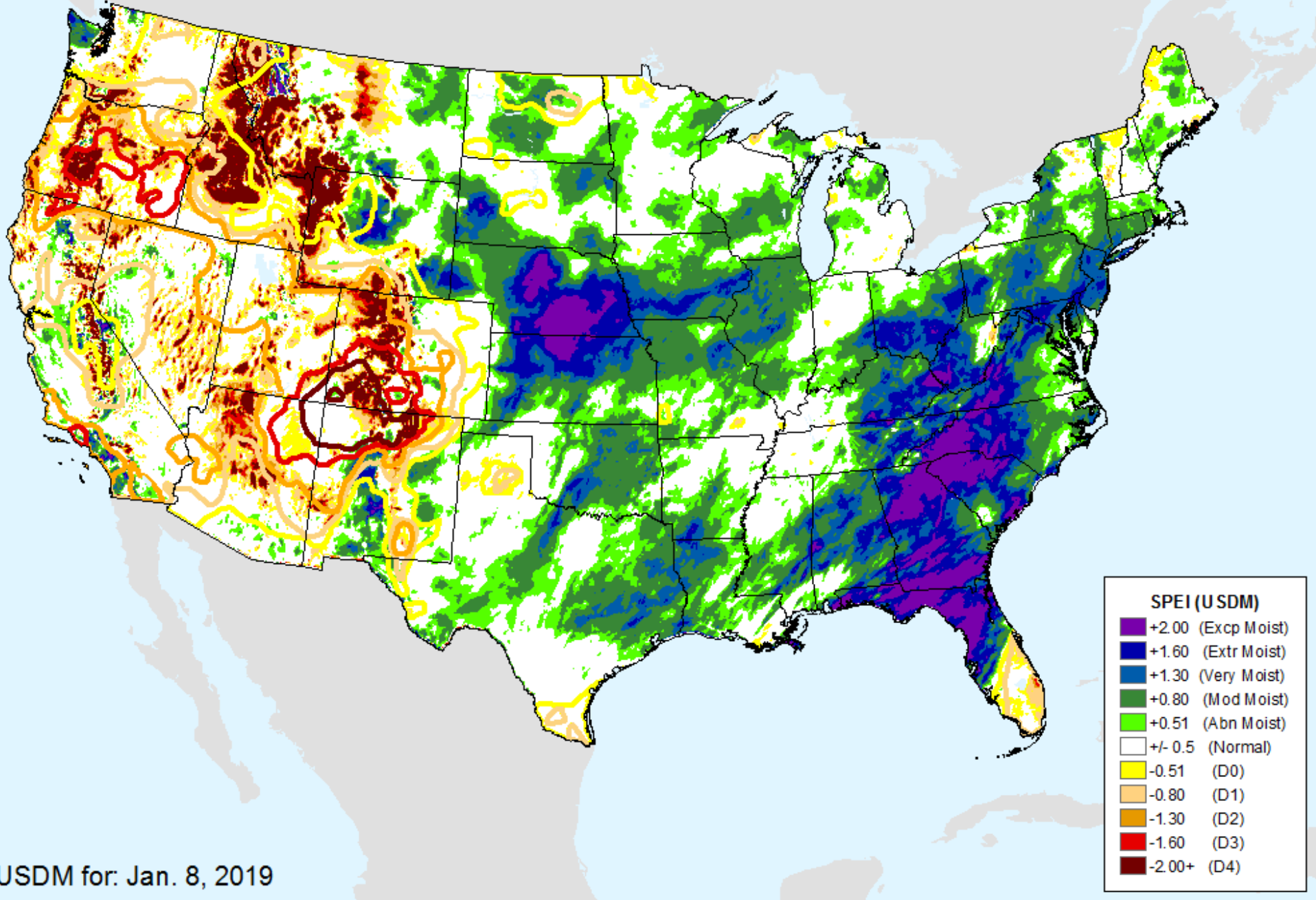
## SPEI (USDM)

- +2.00 (Excp Moist)
- +1.60 (Extr Moist)
- +1.30 (Very Moist)
- +0.80 (Mod Moist)
- +0.51 (Abn Moist)
- +/- 0.5 (Normal)
- 0.51 (D0)
- 0.80 (D1)
- 1.30 (D2)
- 1.60 (D3)
- 2.00+ (D4)



# AHPS 2-month SPEI

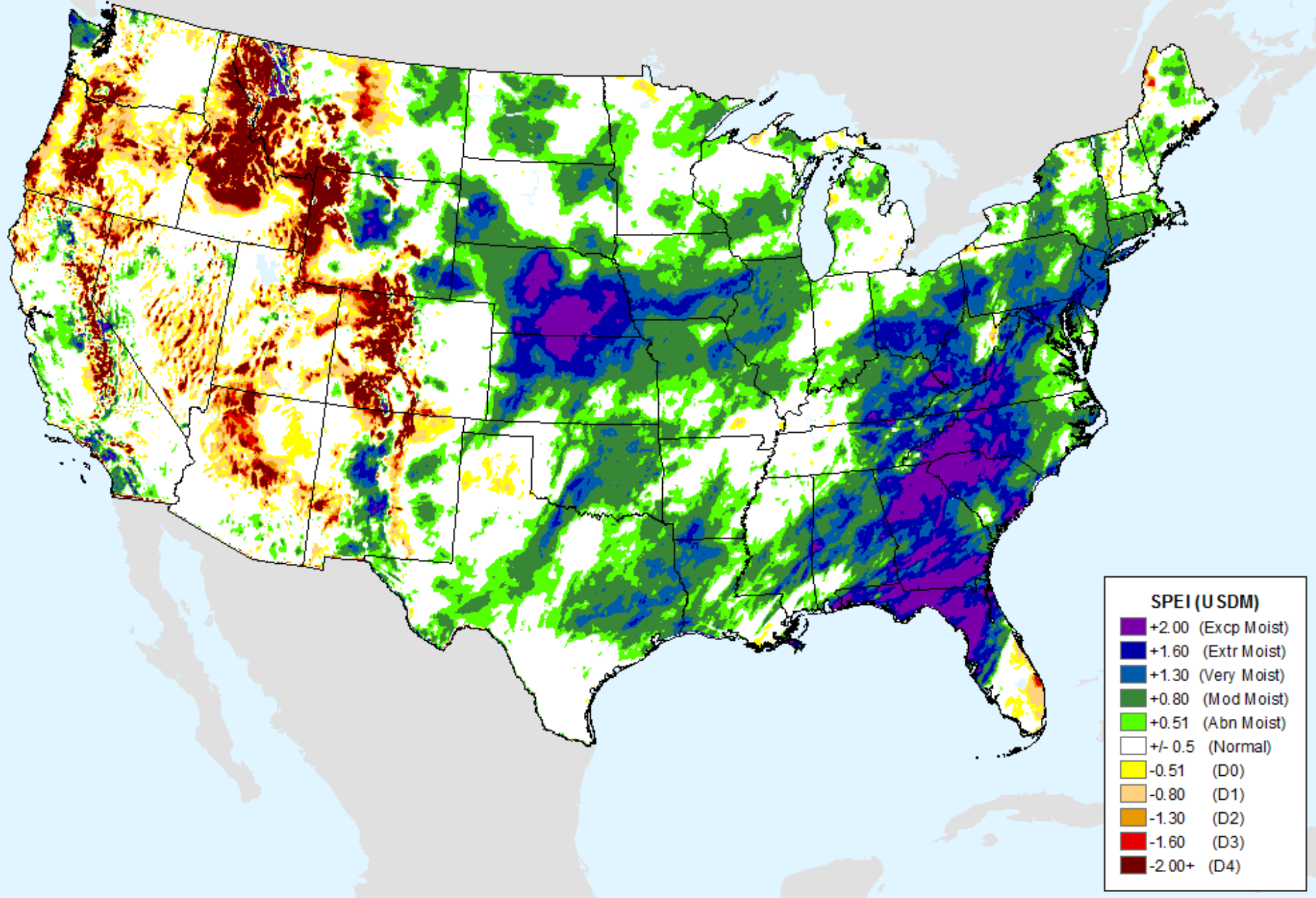
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

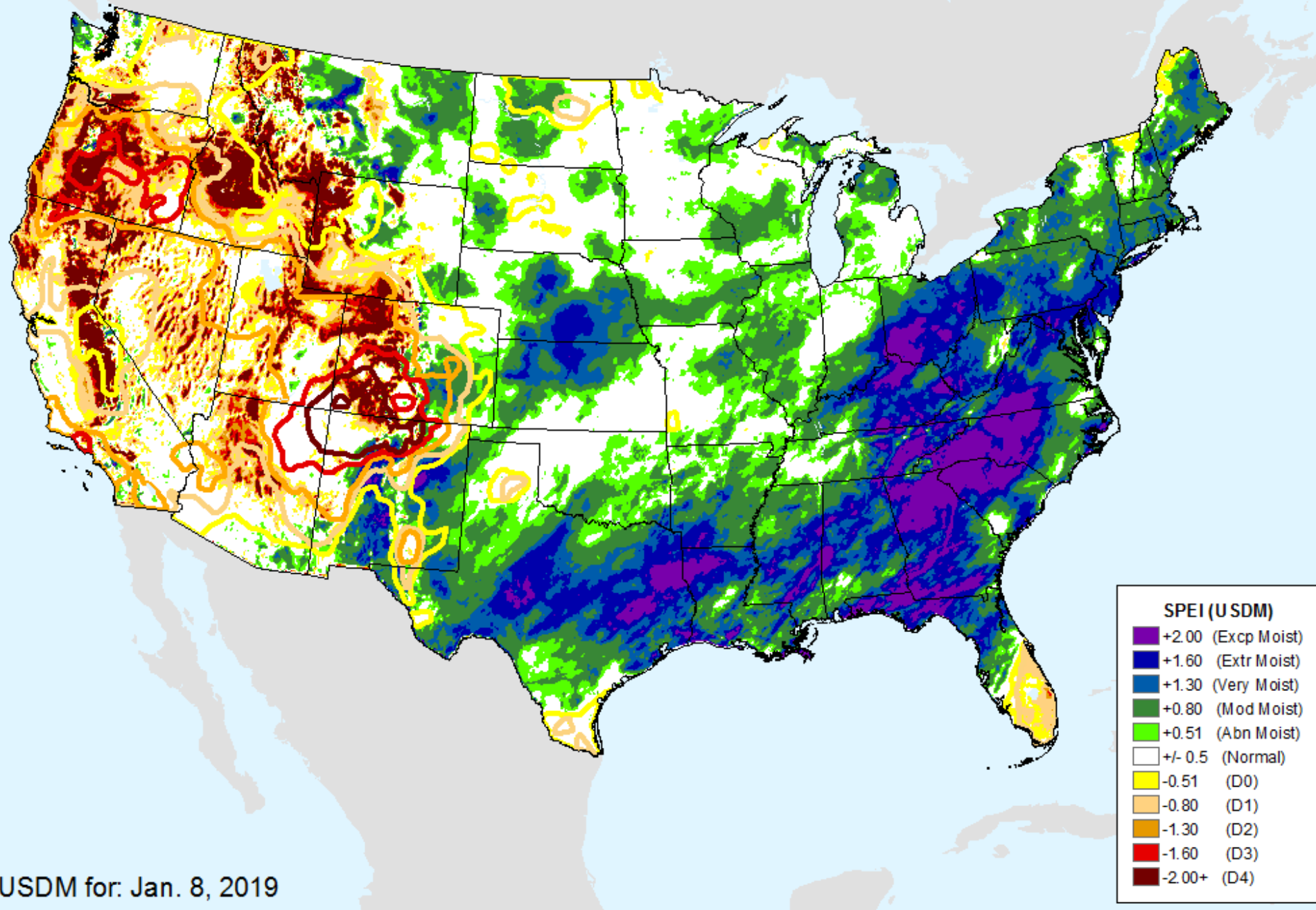
# AHPS 2-month SPEI

As of: Tuesday, January 15, 2019



# AHPS 3-month SPEI

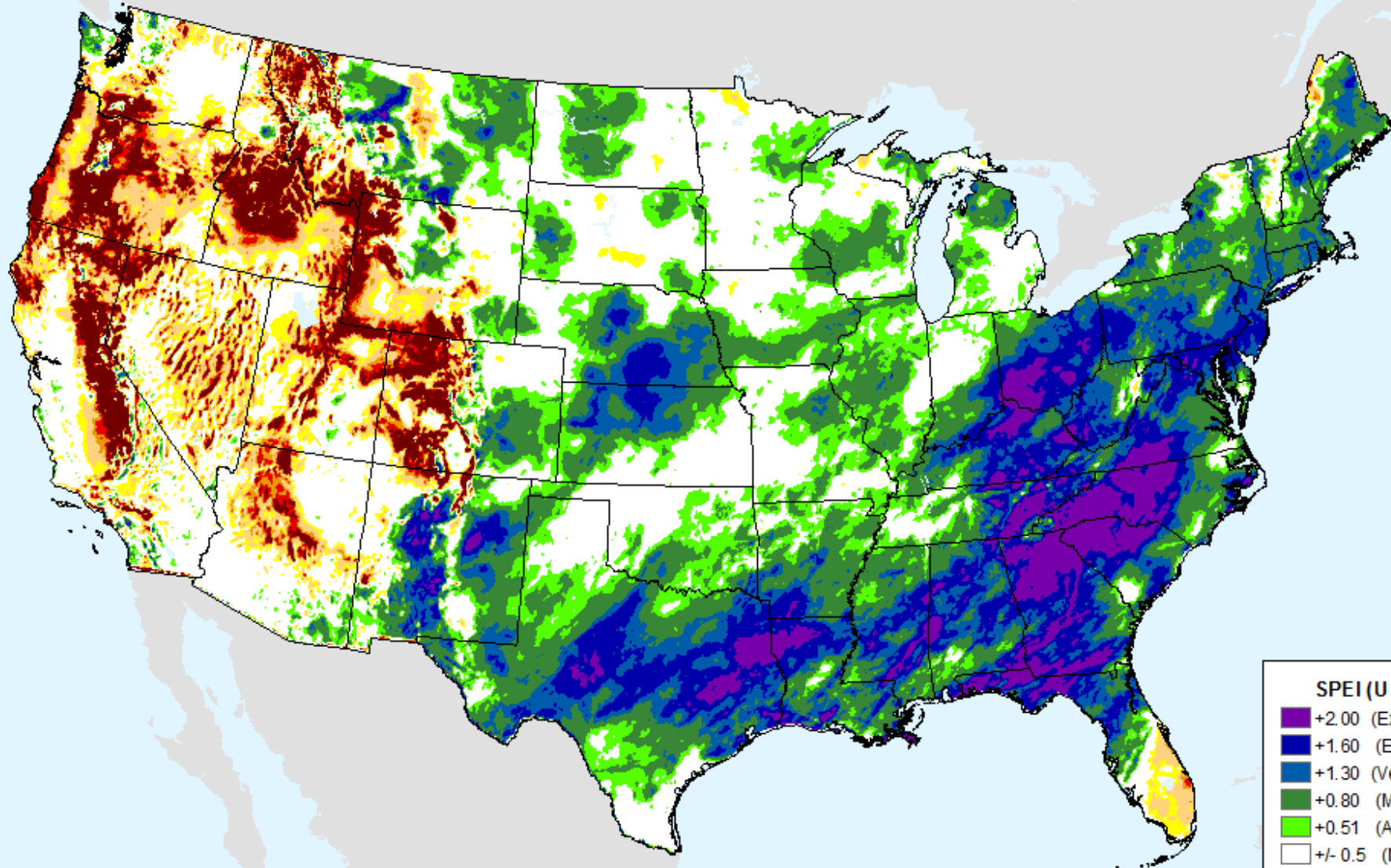
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS 3-month SPEI

As of: Tuesday, January 15, 2019

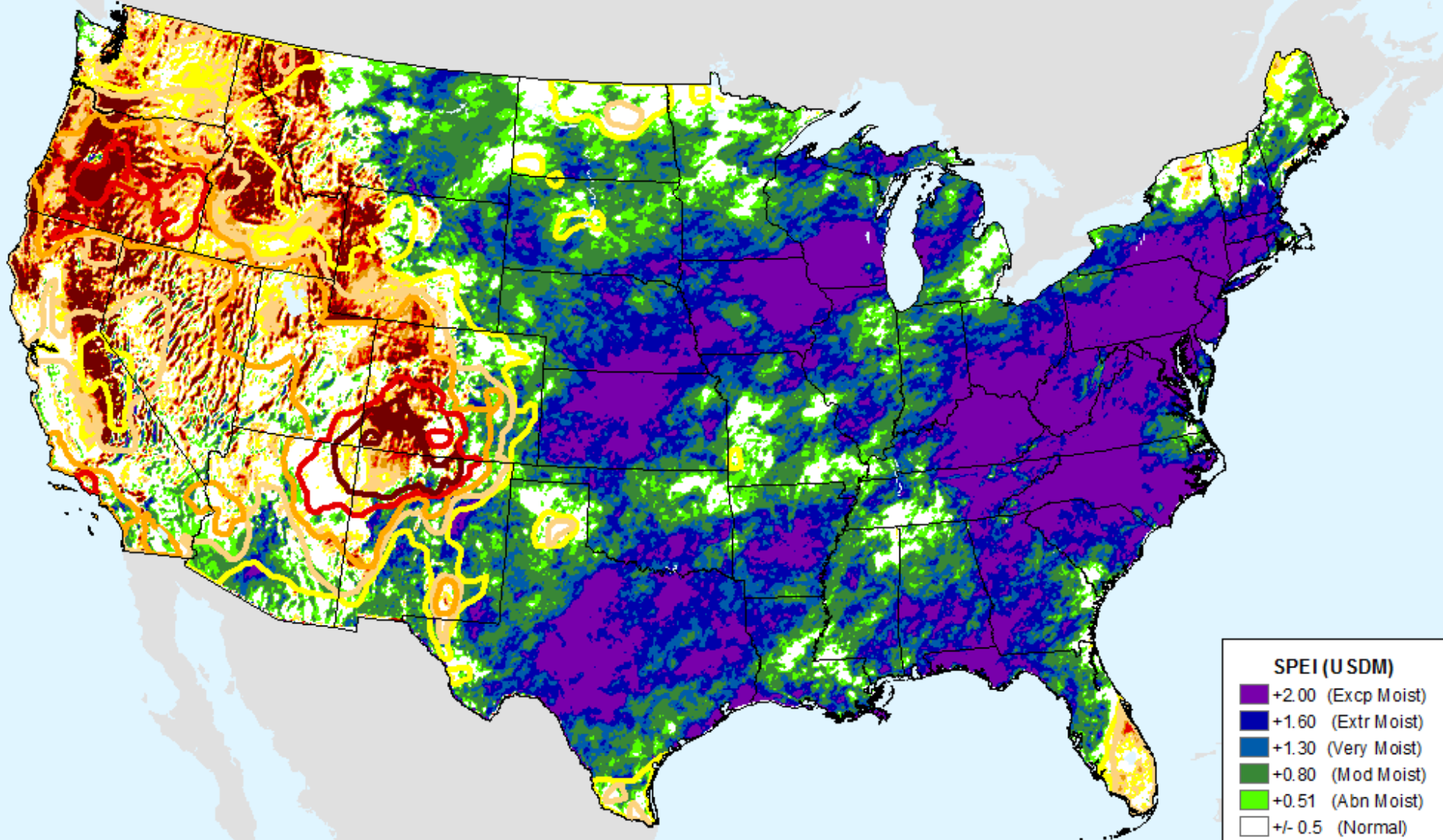


## SPEI (USDM)

- +2.00 (Excp Moist)
- +1.60 (Extr Moist)
- +1.30 (Very Moist)
- +0.80 (Mod Moist)
- +0.51 (Abn Moist)
- +/- 0.5 (Normal)
- 0.51 (D0)
- 0.80 (D1)
- 1.30 (D2)
- 1.60 (D3)
- 2.00+ (D4)

# AHPS 6-month SPEI

As of: Tuesday, January 15, 2019

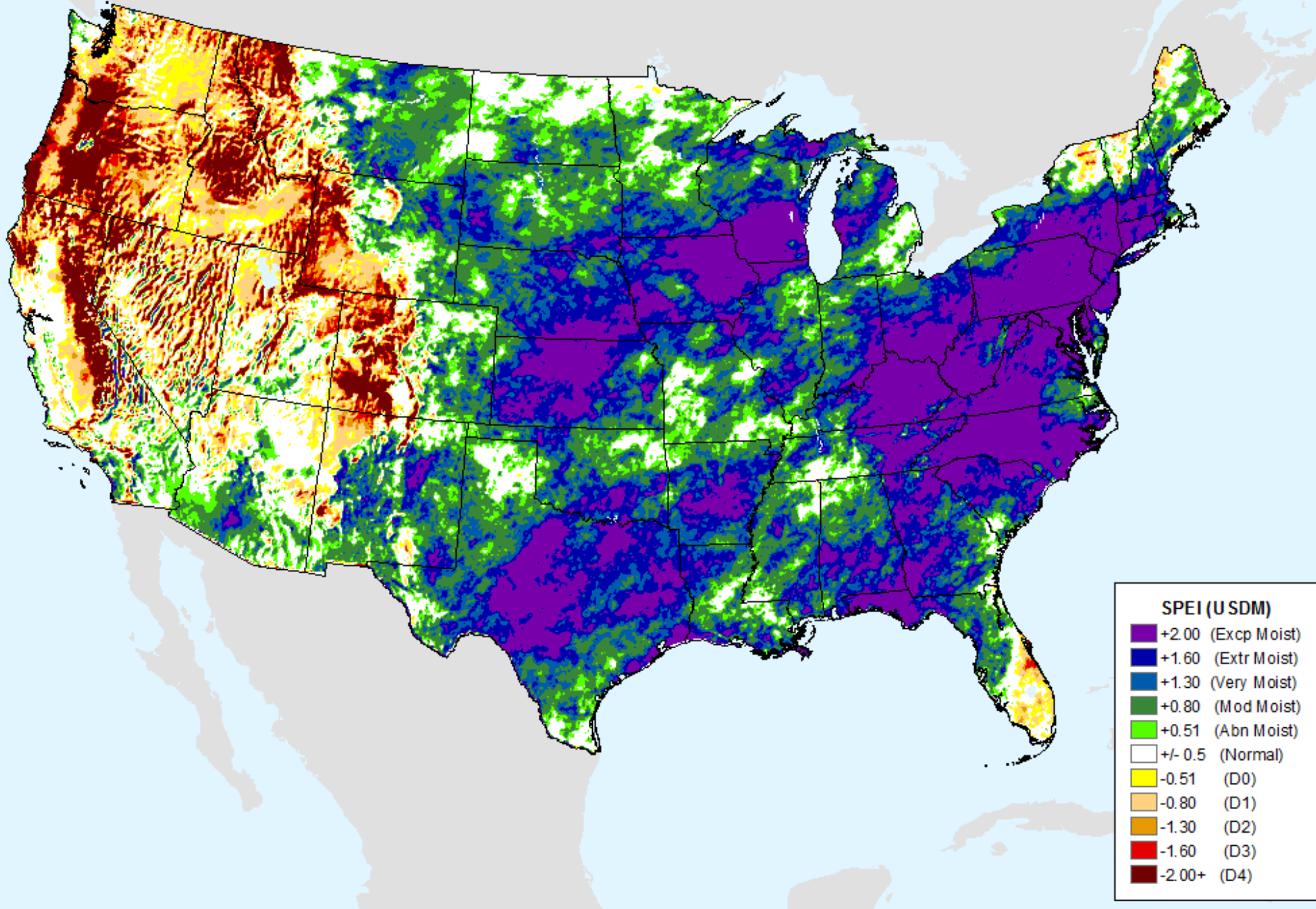


SPEI (USDM)	
+	+2.00 (Excp Moist)
+	+1.60 (Extr Moist)
+	+1.30 (Very Moist)
+	+0.80 (Mod Moist)
+	+0.51 (Abn Moist)
±	+/- 0.5 (Normal)
-	-0.51 (D0)
-	-0.80 (D1)
-	-1.30 (D2)
-	-1.60 (D3)
-	-2.00+ (D4)

USDM for: Jan. 8, 2019

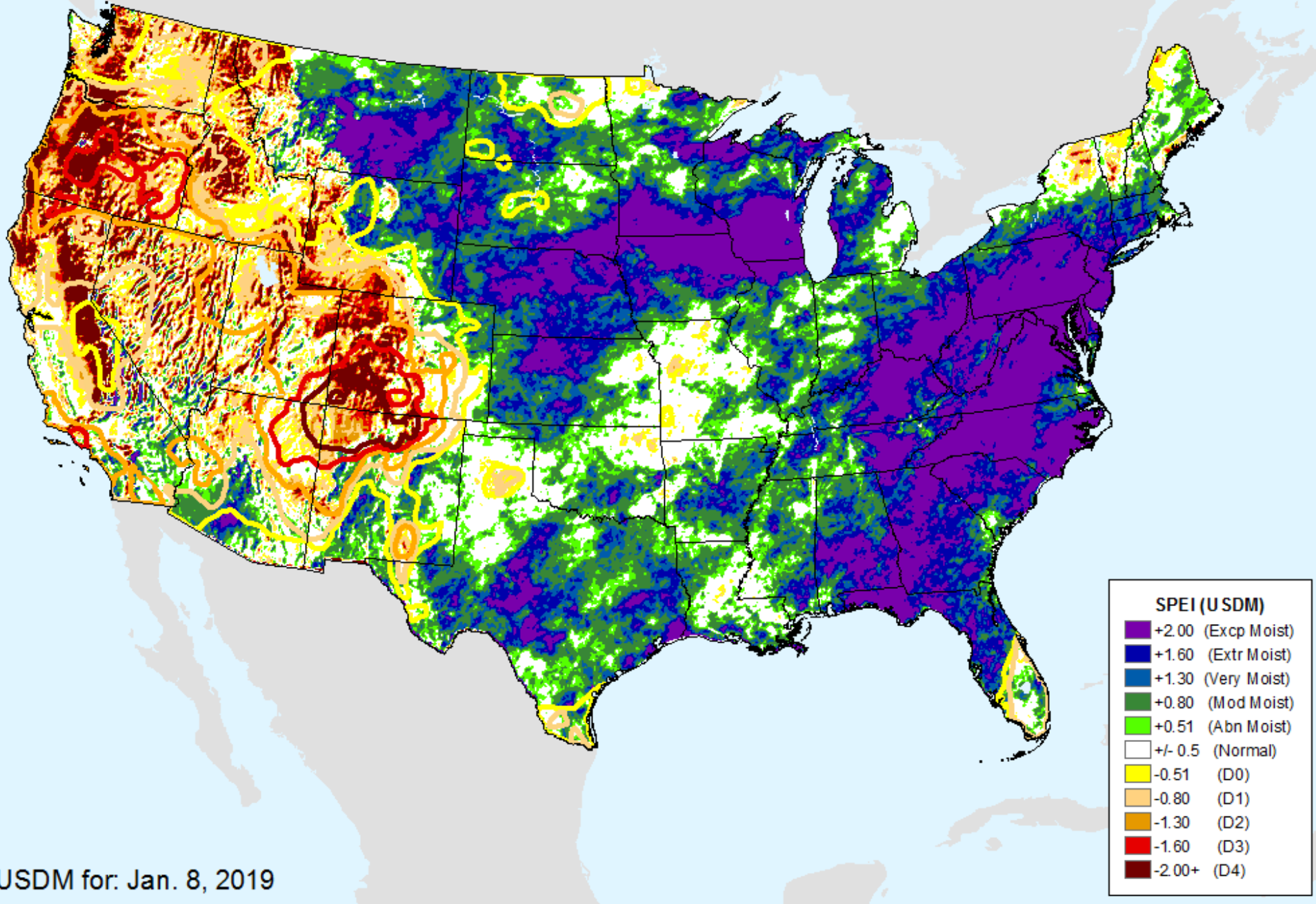
# AHPS 6-month SPEI

As of: Tuesday, January 15, 2019



# AHPS 9-month SPEI

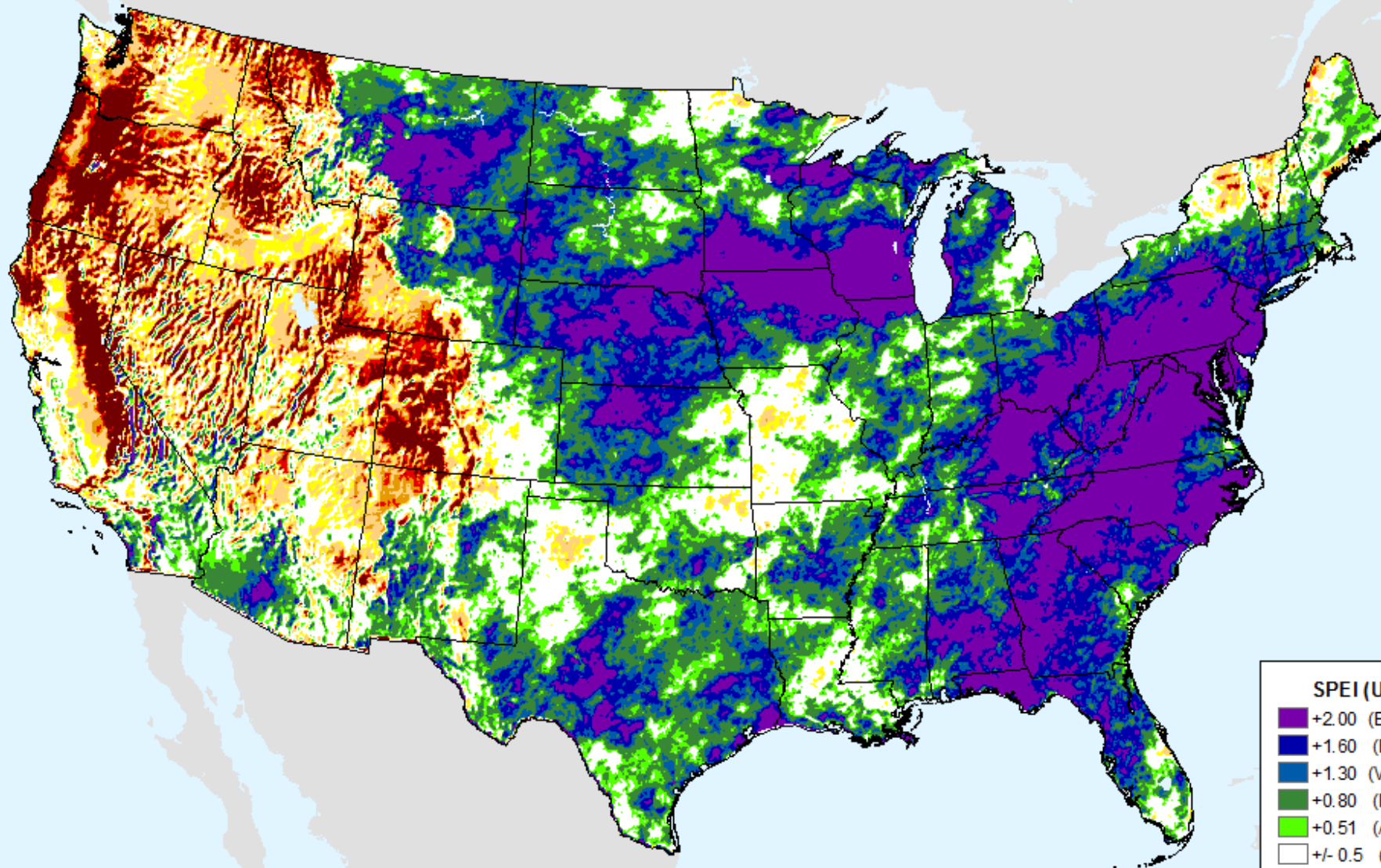
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS 9-month SPEI

As of: Tuesday, January 15, 2019



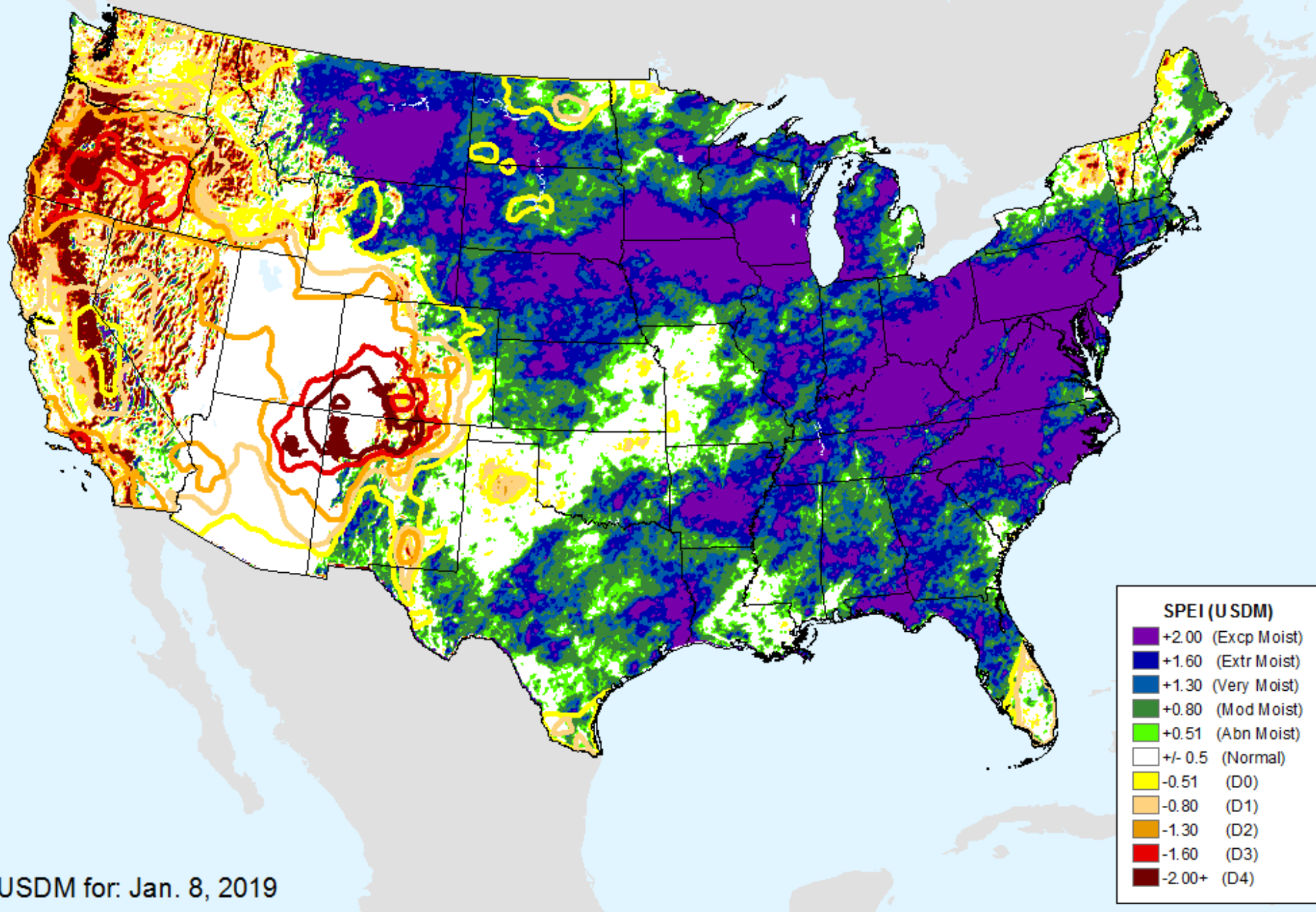
## SPEI (USDM)

- +2.00 (Excp Moist)
- +1.60 (Extr Moist)
- +1.30 (Very Moist)
- +0.80 (Mod Moist)
- +0.51 (Abn Moist)
- +/- 0.5 (Normal)
- 0.51 (D0)
- 0.80 (D1)
- 1.30 (D2)
- 1.60 (D3)
- 2.00+ (D4)



# AHPS 12-month SPEI

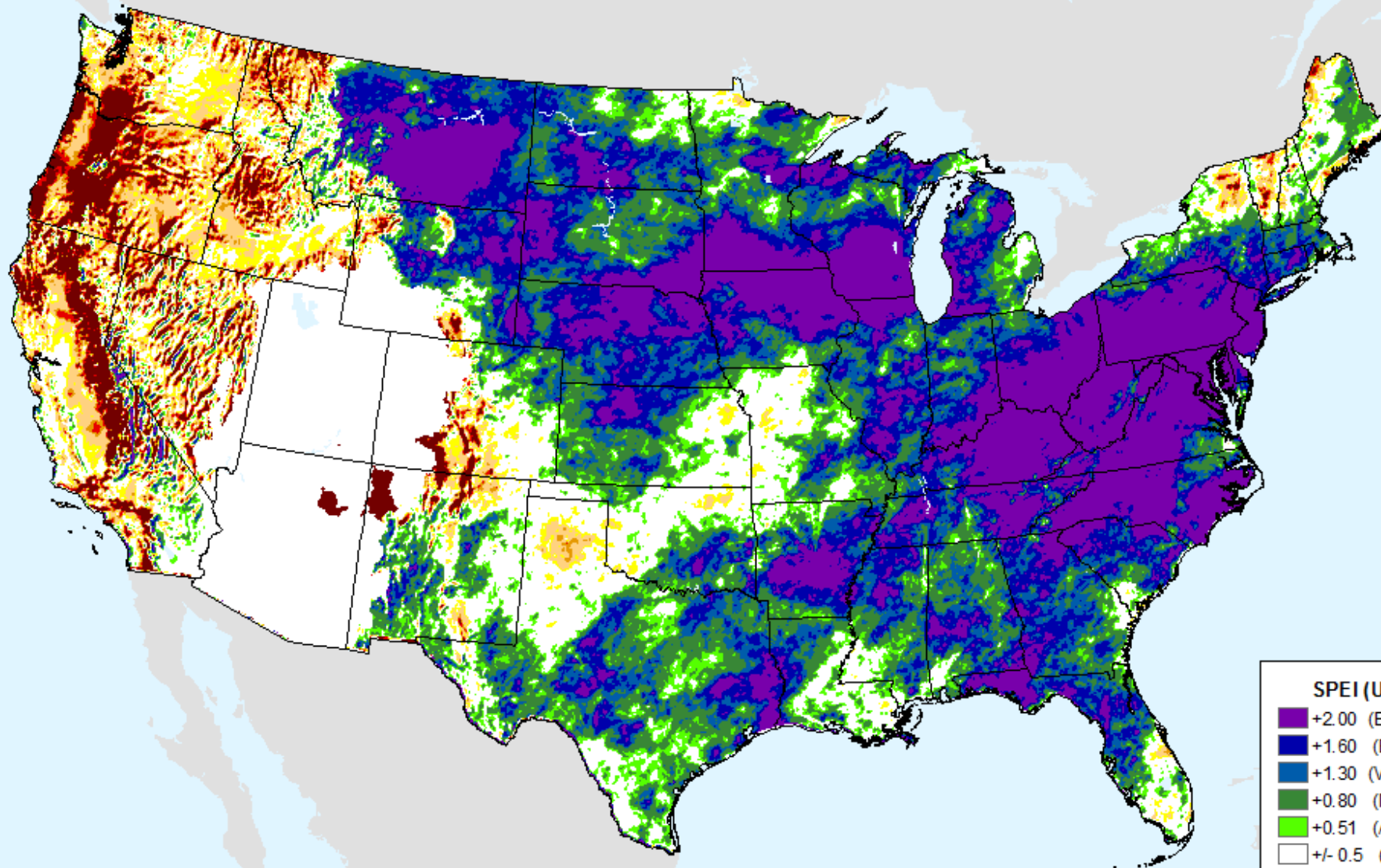
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# AHPS 12-month SPEI

As of: Tuesday, January 15, 2019

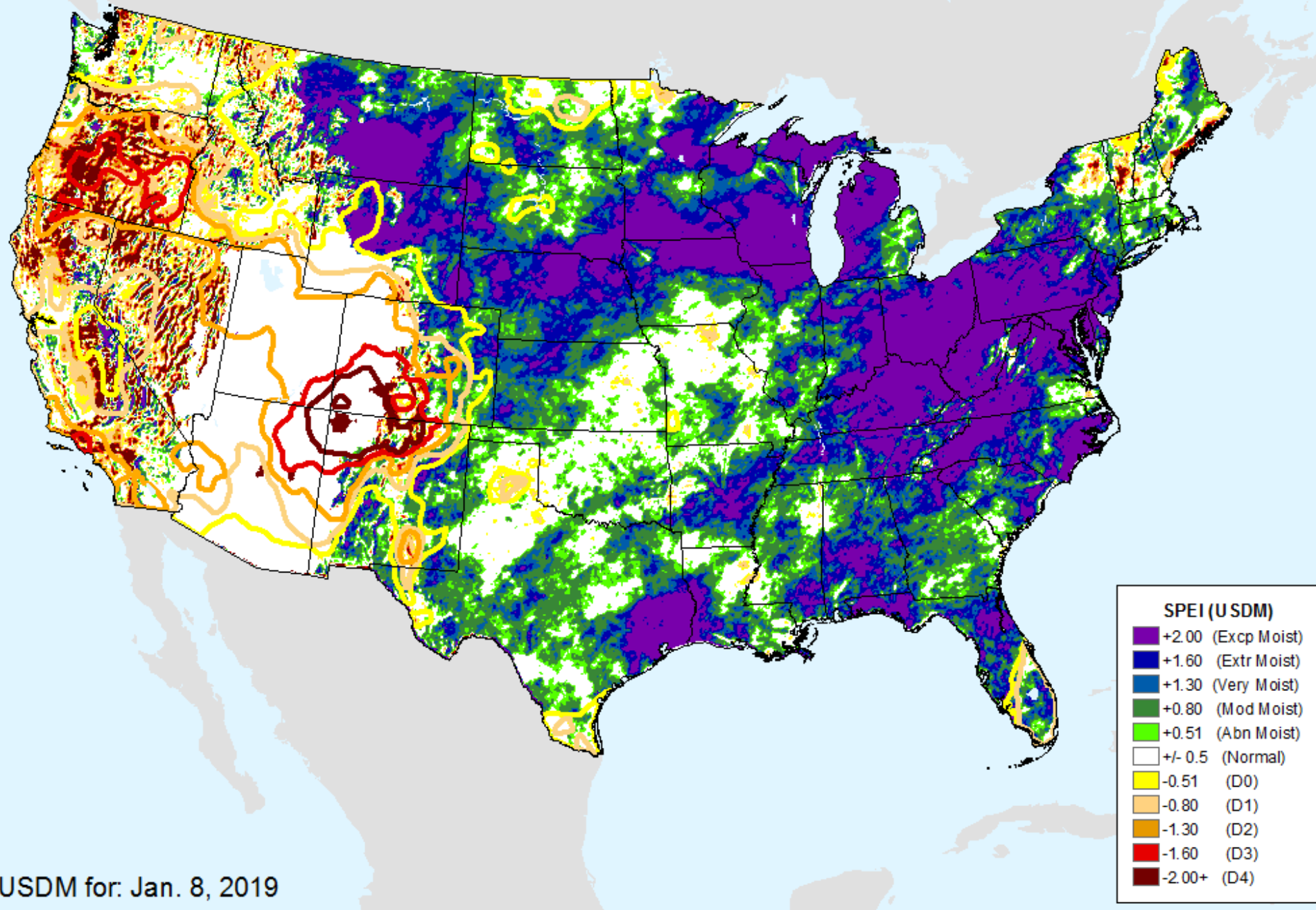


## SPEI (USDM)

- +2.00 (Excp Moist)
- +1.60 (Extr Moist)
- +1.30 (Very Moist)
- +0.80 (Mod Moist)
- +0.51 (Abn Moist)
- +/- 0.5 (Normal)
- 0.51 (D0)
- 0.80 (D1)
- 1.30 (D2)
- 1.60 (D3)
- 2.00+ (D4)

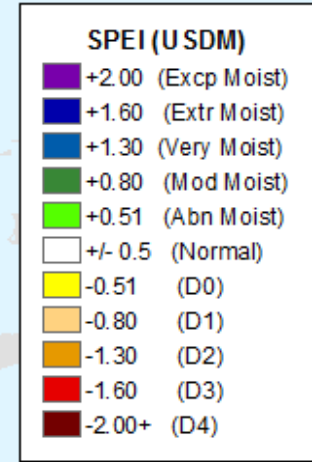
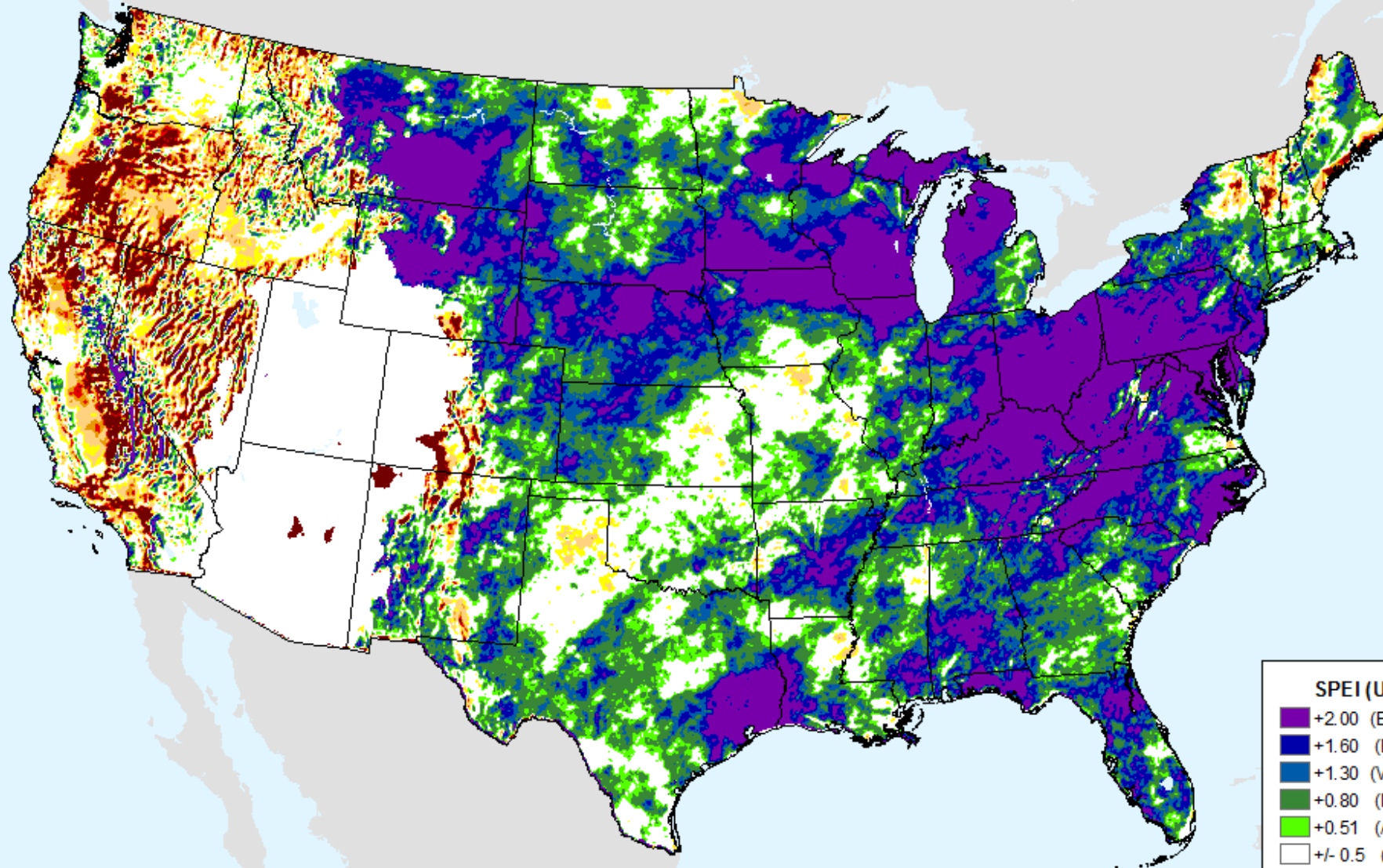
# AHPS 24-month SPEI

As of: Tuesday, January 15, 2019



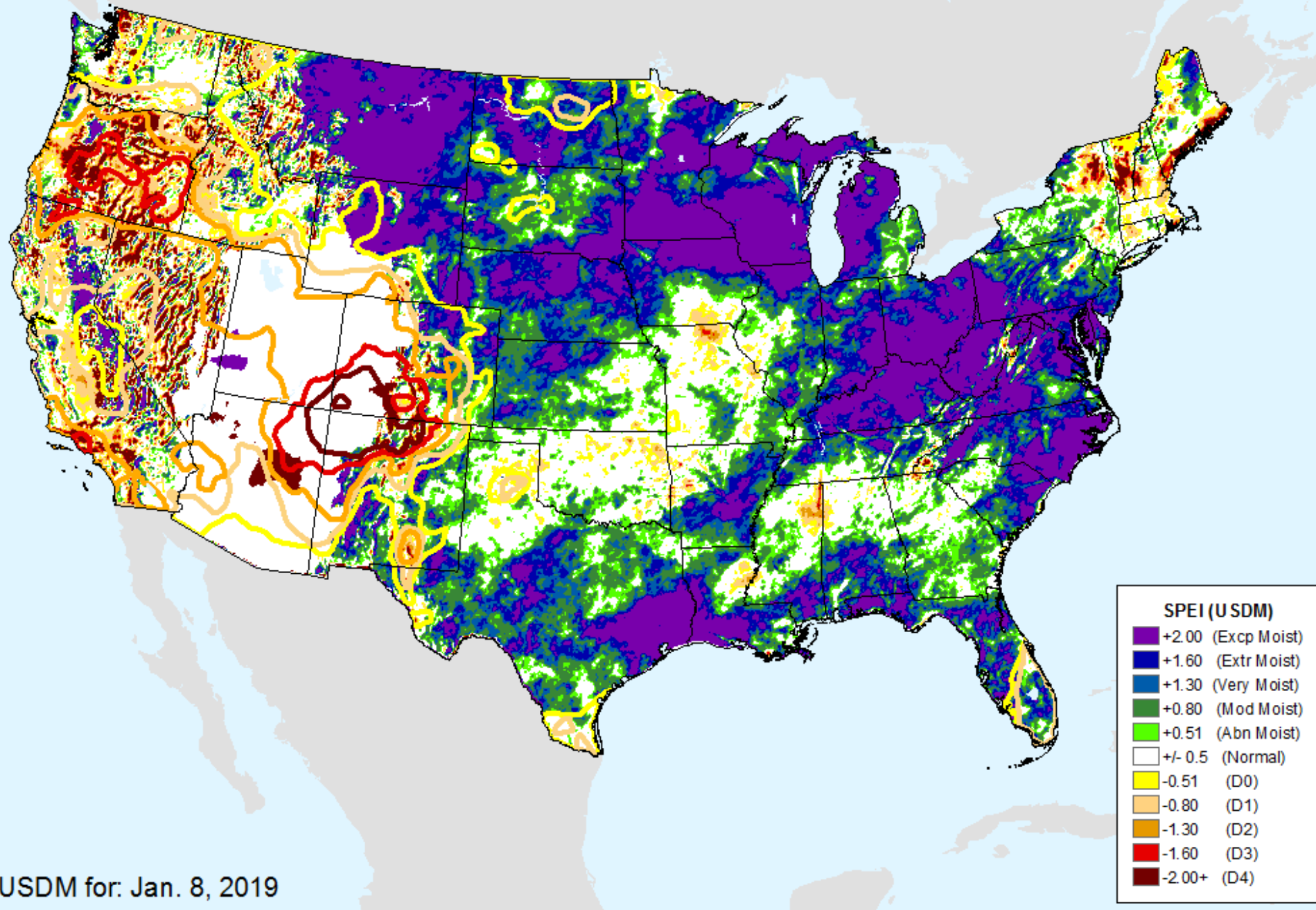
# AHPS 24-month SPEI

As of: Tuesday, January 15, 2019



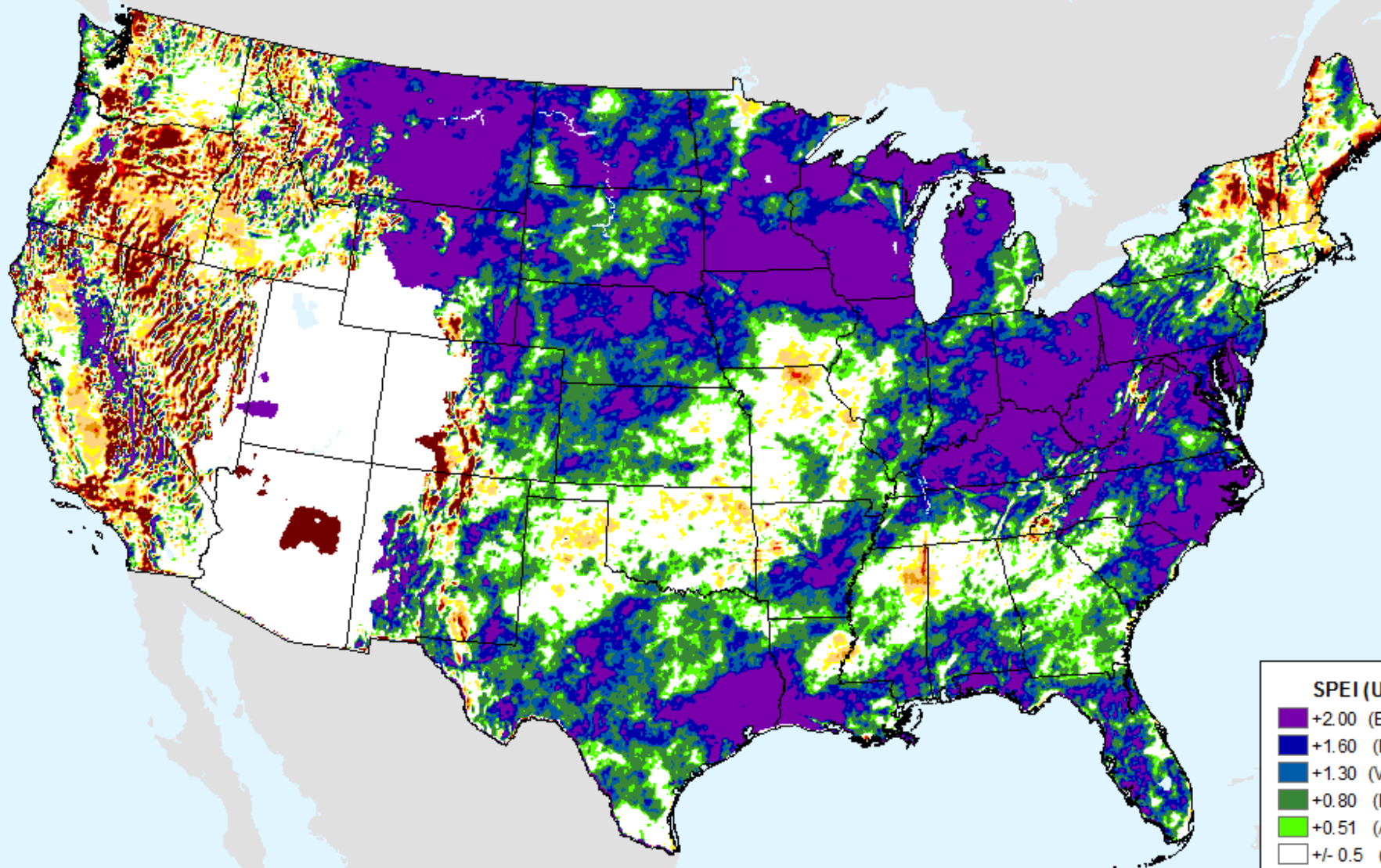
# AHPS 36-month SPEI

As of: Tuesday, January 15, 2019



# AHPS 36-month SPEI

As of: Tuesday, January 15, 2019

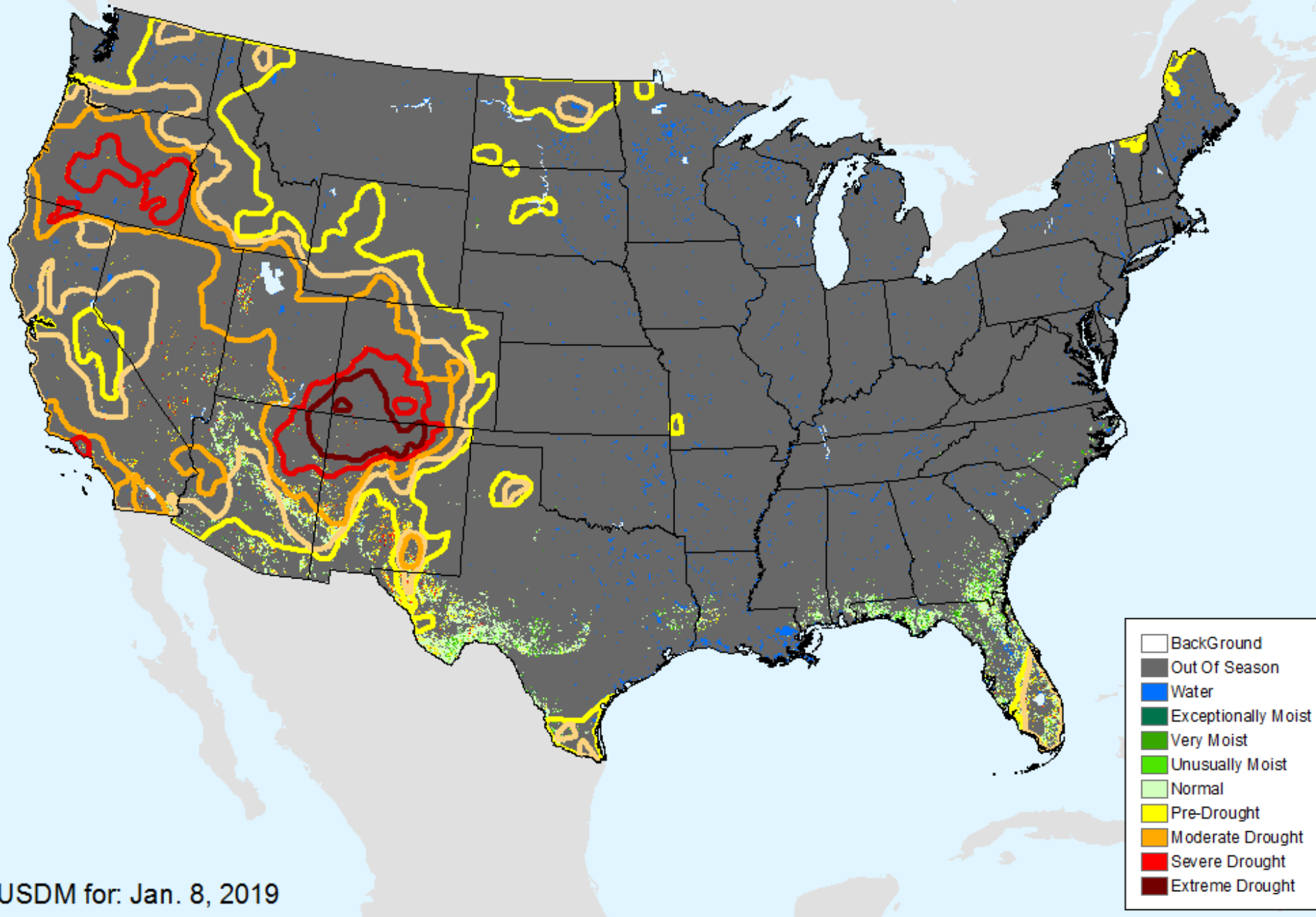


## SPEI (USDM)

- +2.00 (Excp Moist)
- +1.60 (Extr Moist)
- +1.30 (Very Moist)
- +0.80 (Mod Moist)
- +0.51 (Abn Moist)
- +/- 0.5 (Normal)
- 0.51 (D0)
- 0.80 (D1)
- 1.30 (D2)
- 1.60 (D3)
- 2.00+ (D4)

# Vegetation Drought Response Index (VegDRI)

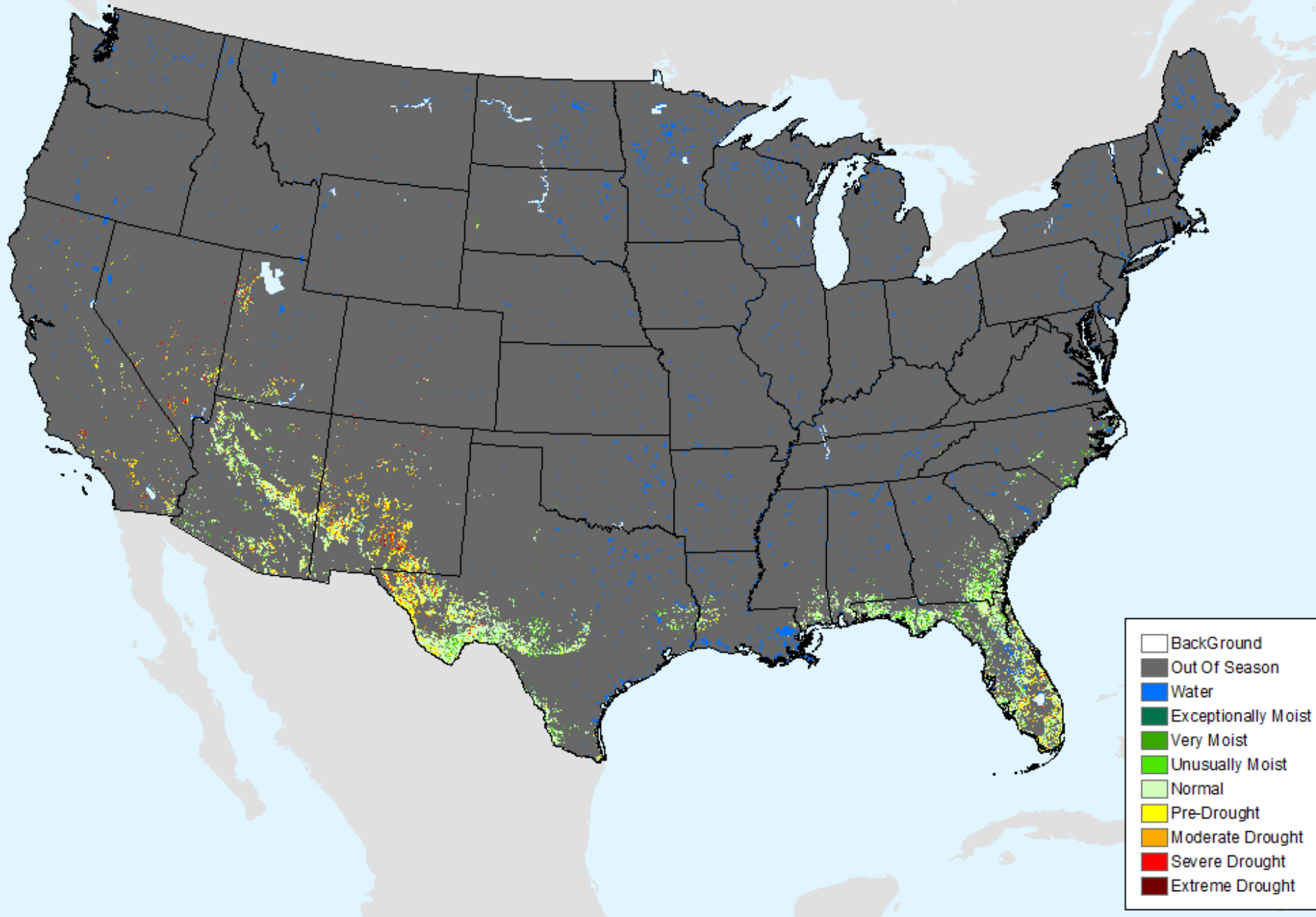
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

# Vegetation Drought Response Index (VegDRI)

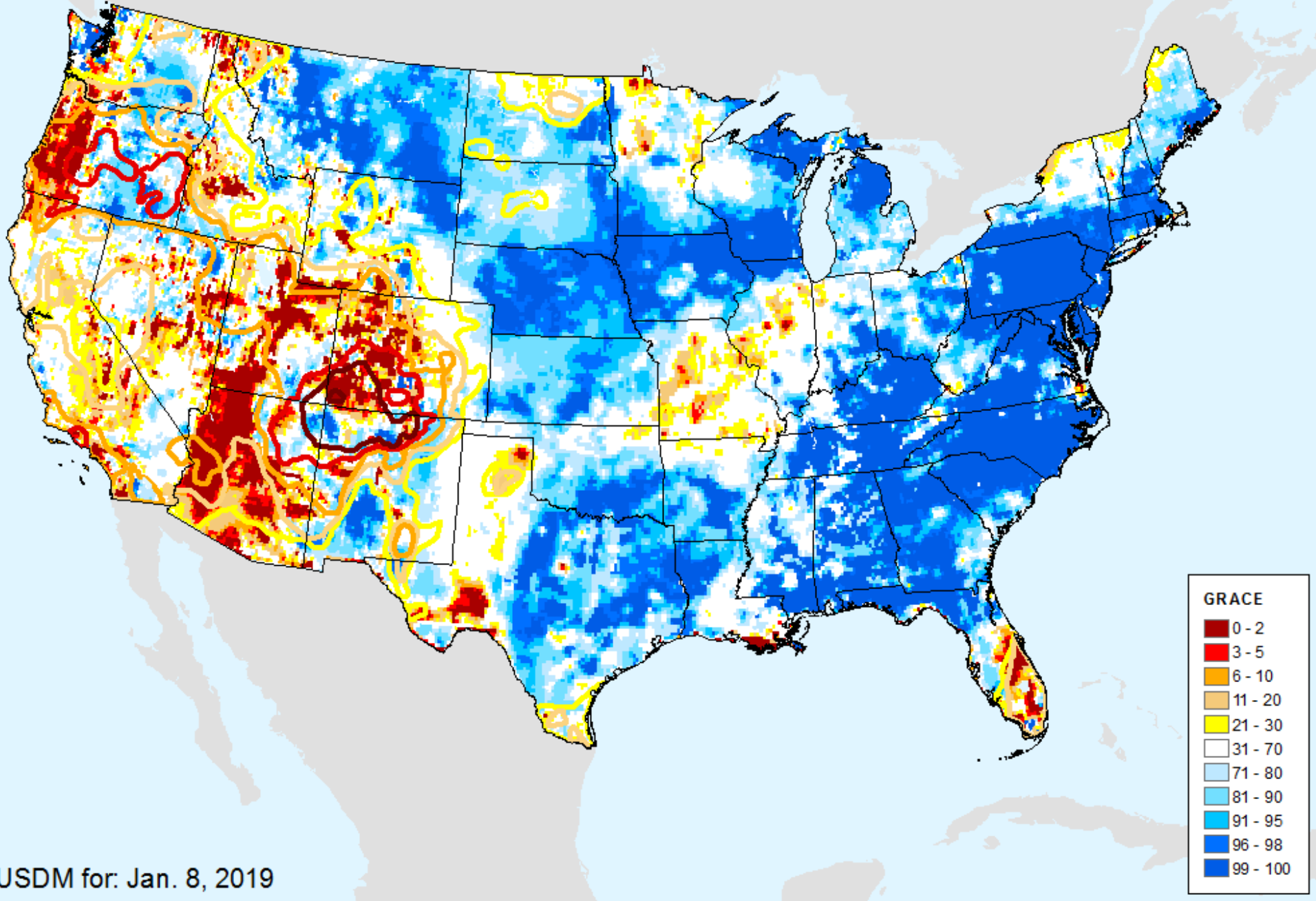
As of: Tuesday, January 15, 2019





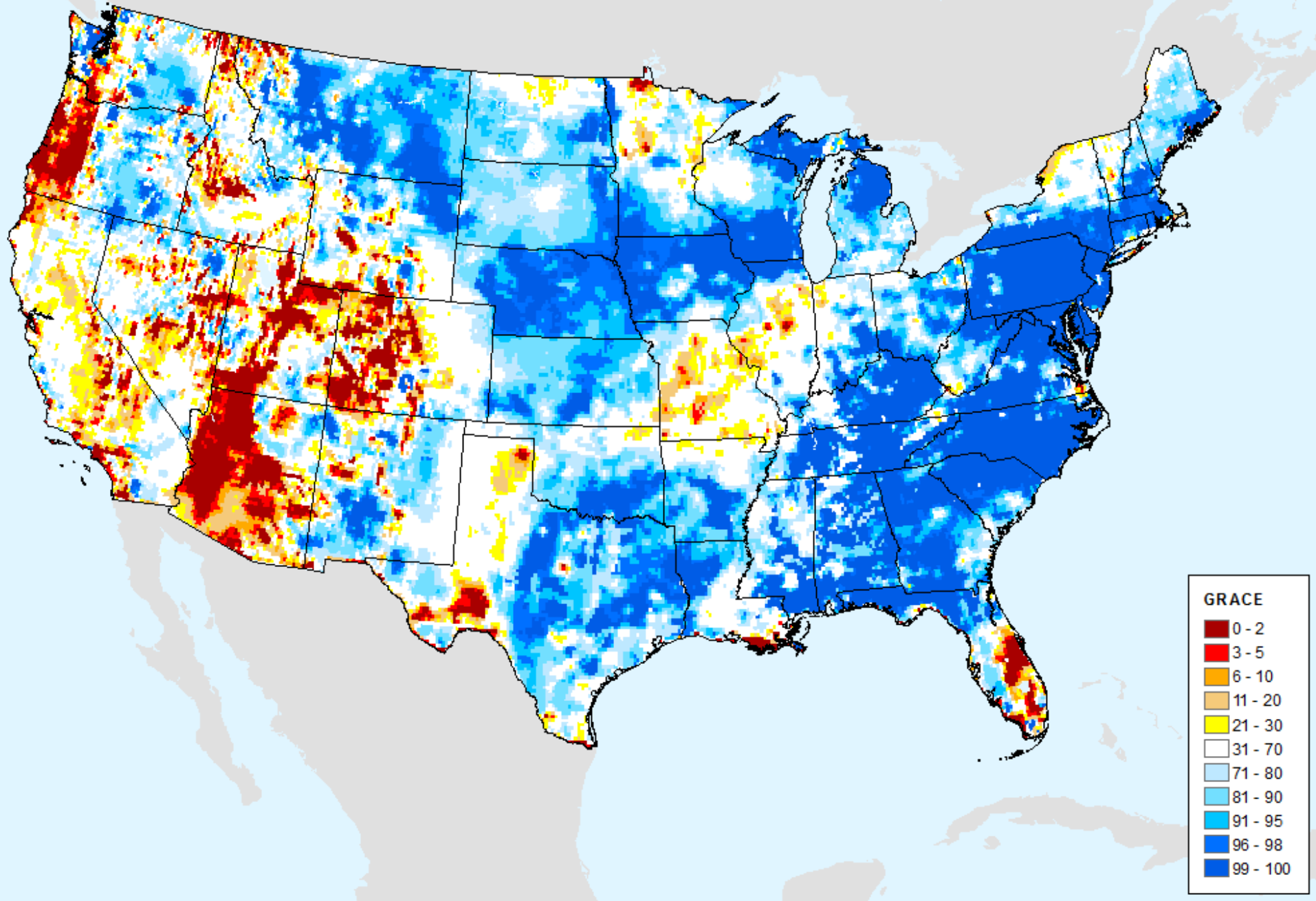
# GRACE-Based Shallow Groundwater Drought Indicator

As of: Tuesday, January 15, 2019



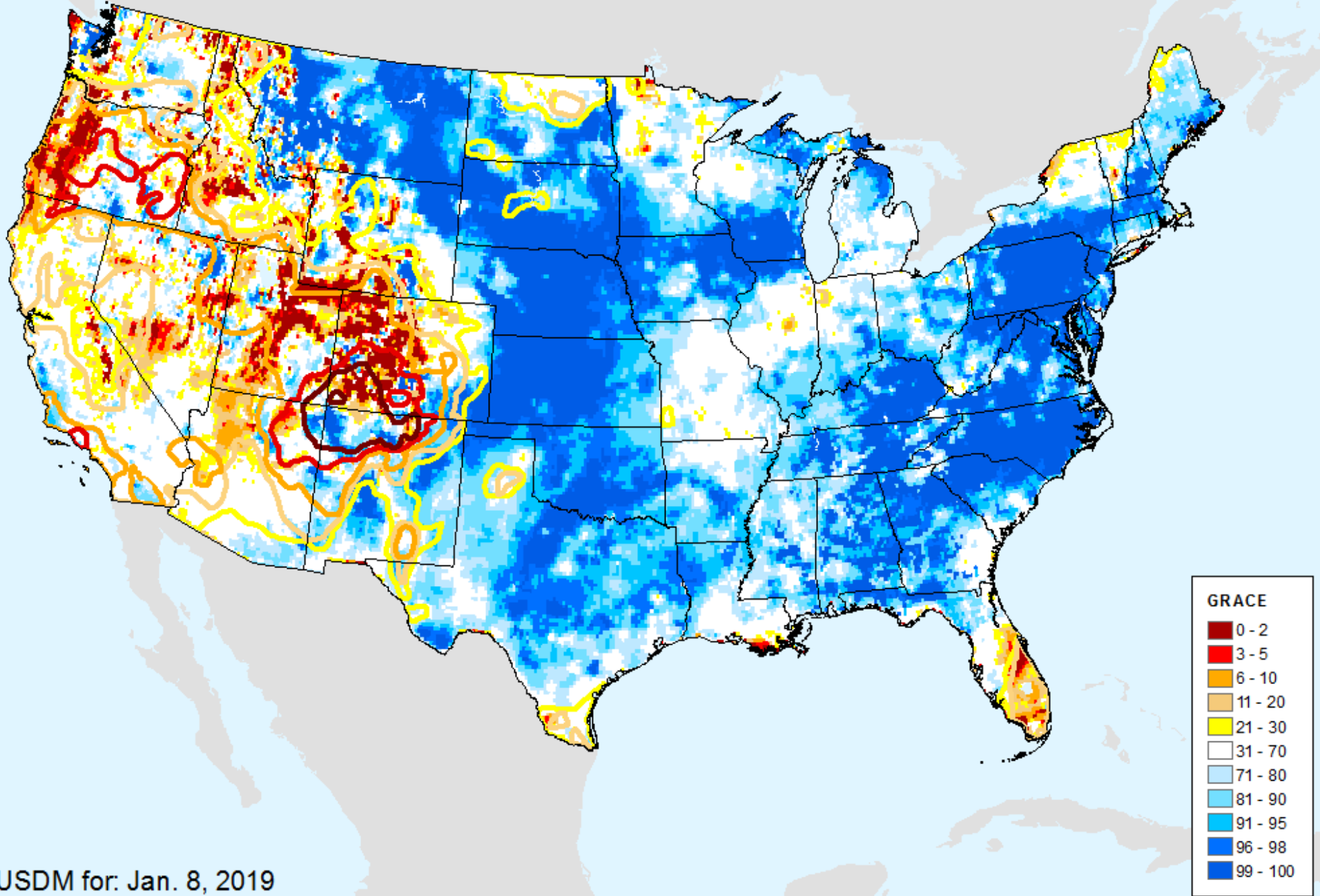
# GRACE-Based Shallow Groundwater Drought Indicator

As of: Tuesday, January 15, 2019



# GRACE-Based Root Zone Soil Moisture Drought Indicator

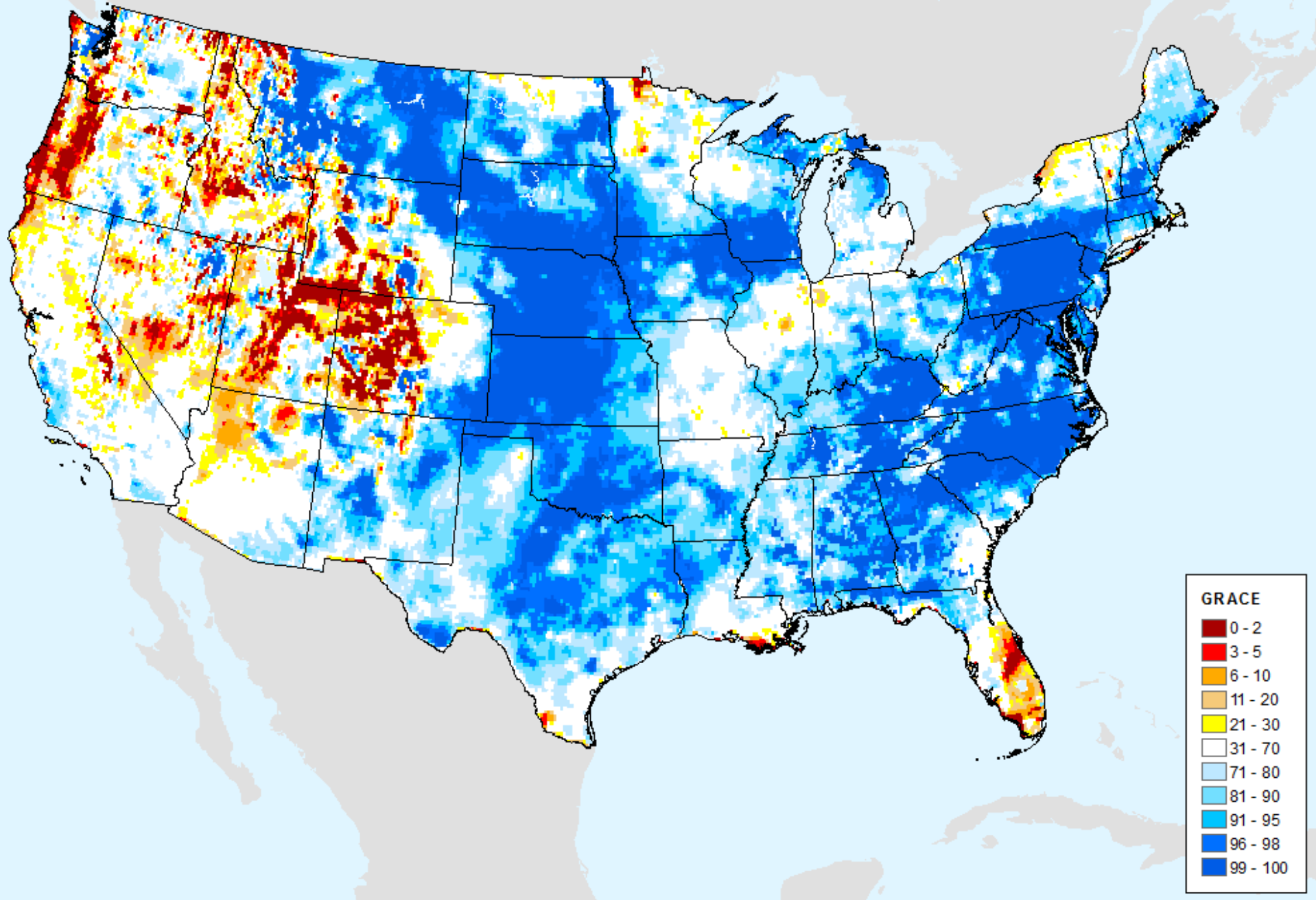
As of: Tuesday, January 15, 2019



USDM for: Jan. 8, 2019

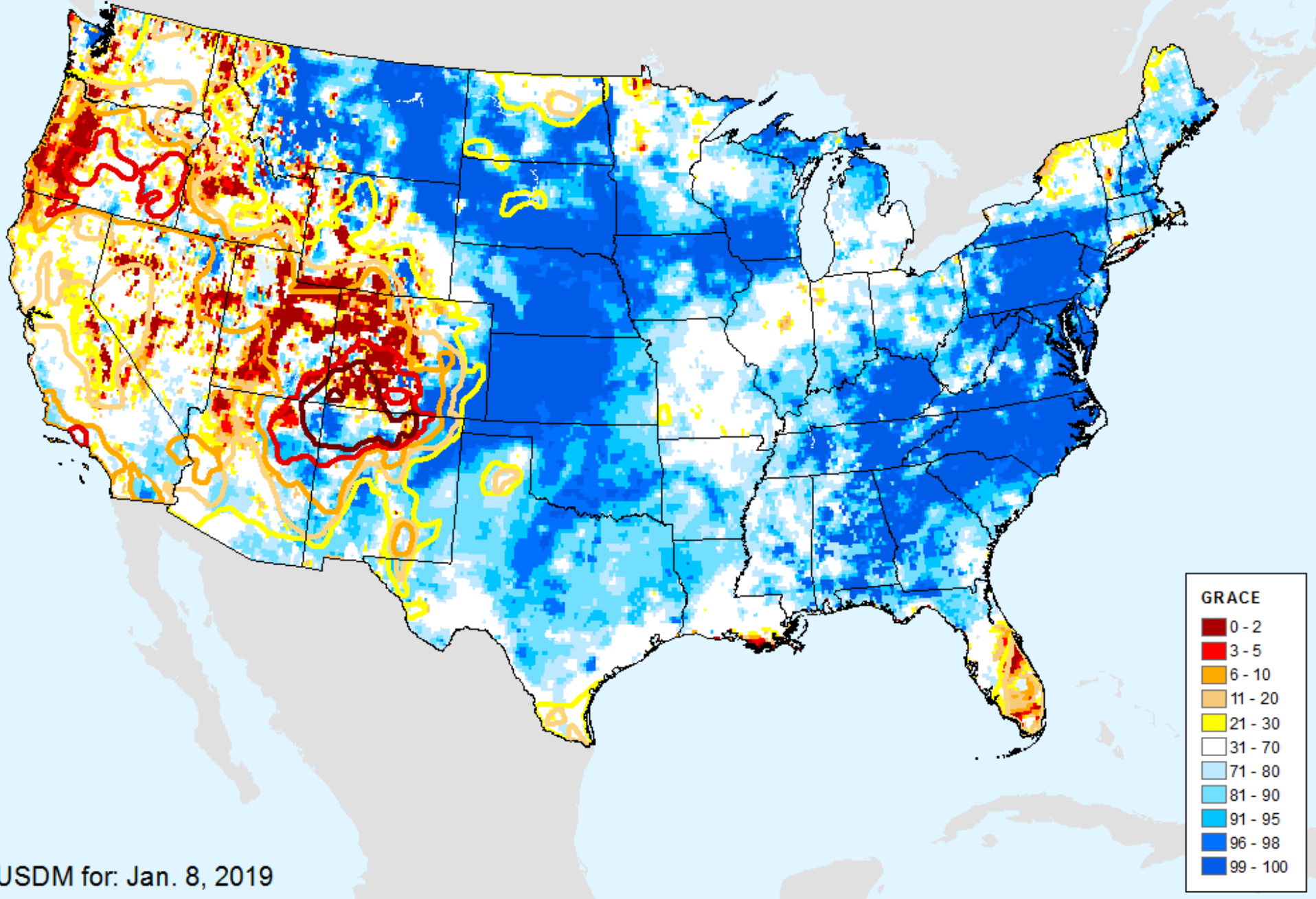
# GRACE-Based Root Zone Soil Moisture Drought Indicator

As of: Tuesday, January 15, 2019



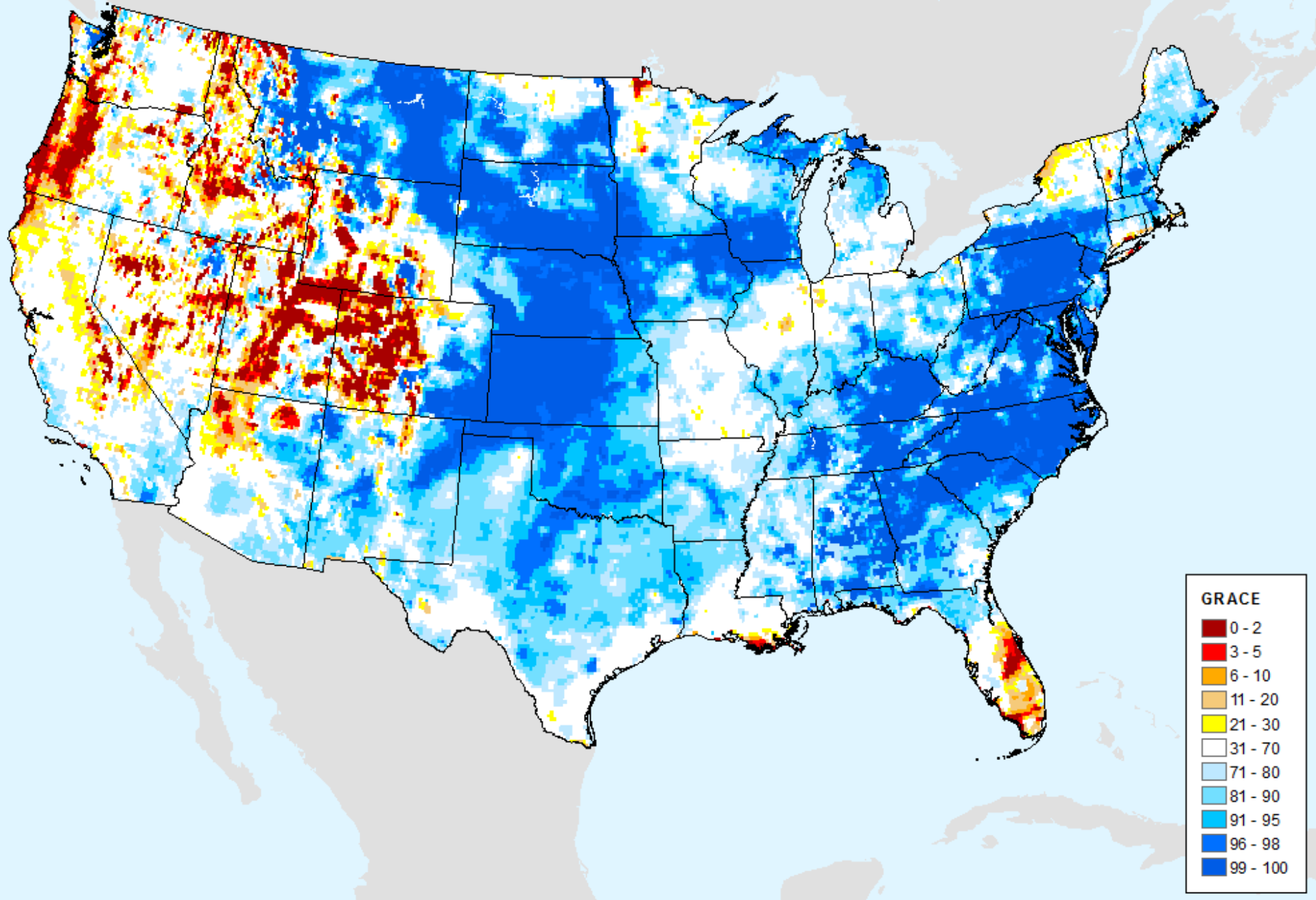
# GRACE-Based Surface Soil Moisture Drought Indicator

As of: Tuesday, January 15, 2019



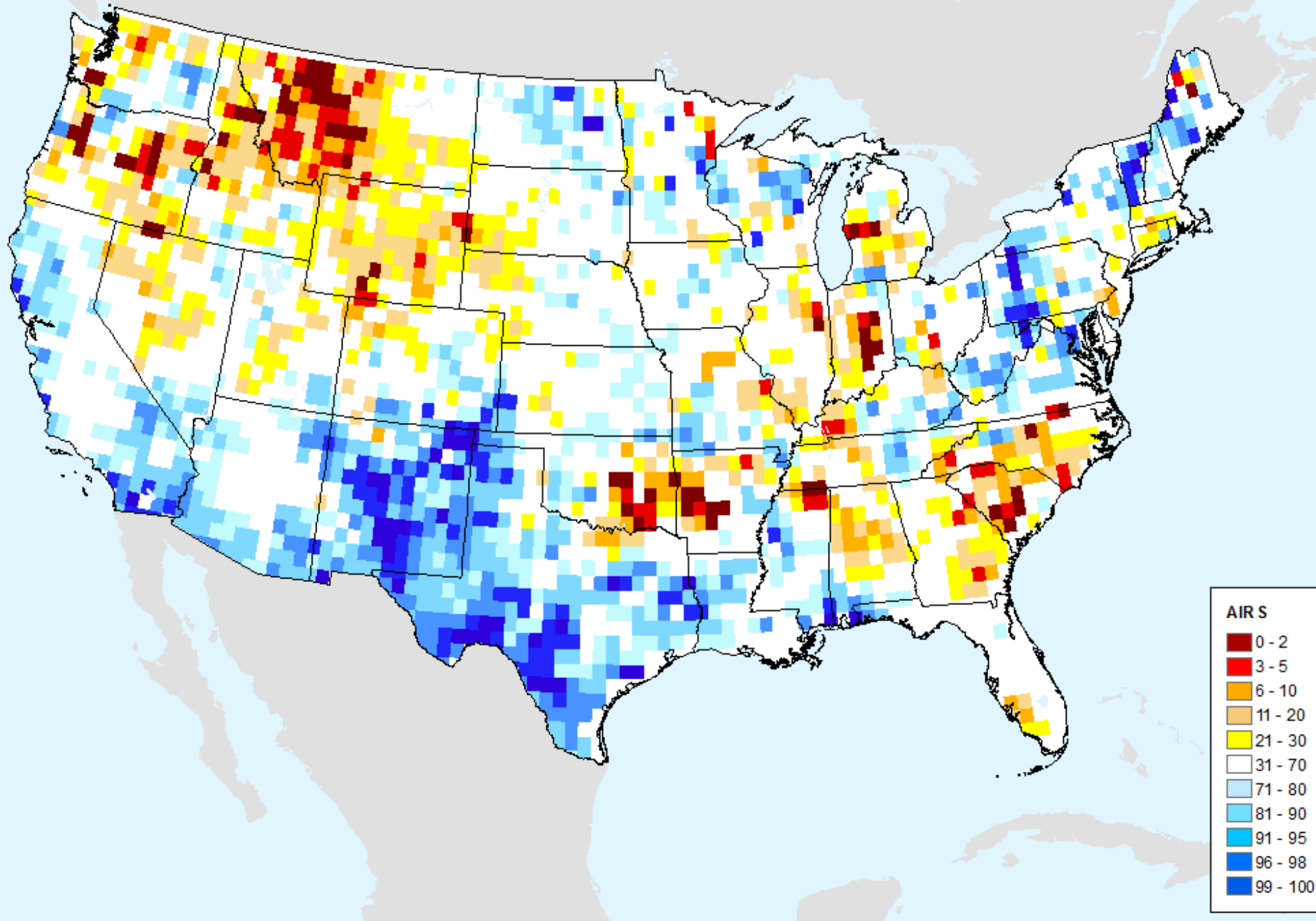
# GRACE-Based Surface Soil Moisture Drought Indicator

As of: Tuesday, January 15, 2019



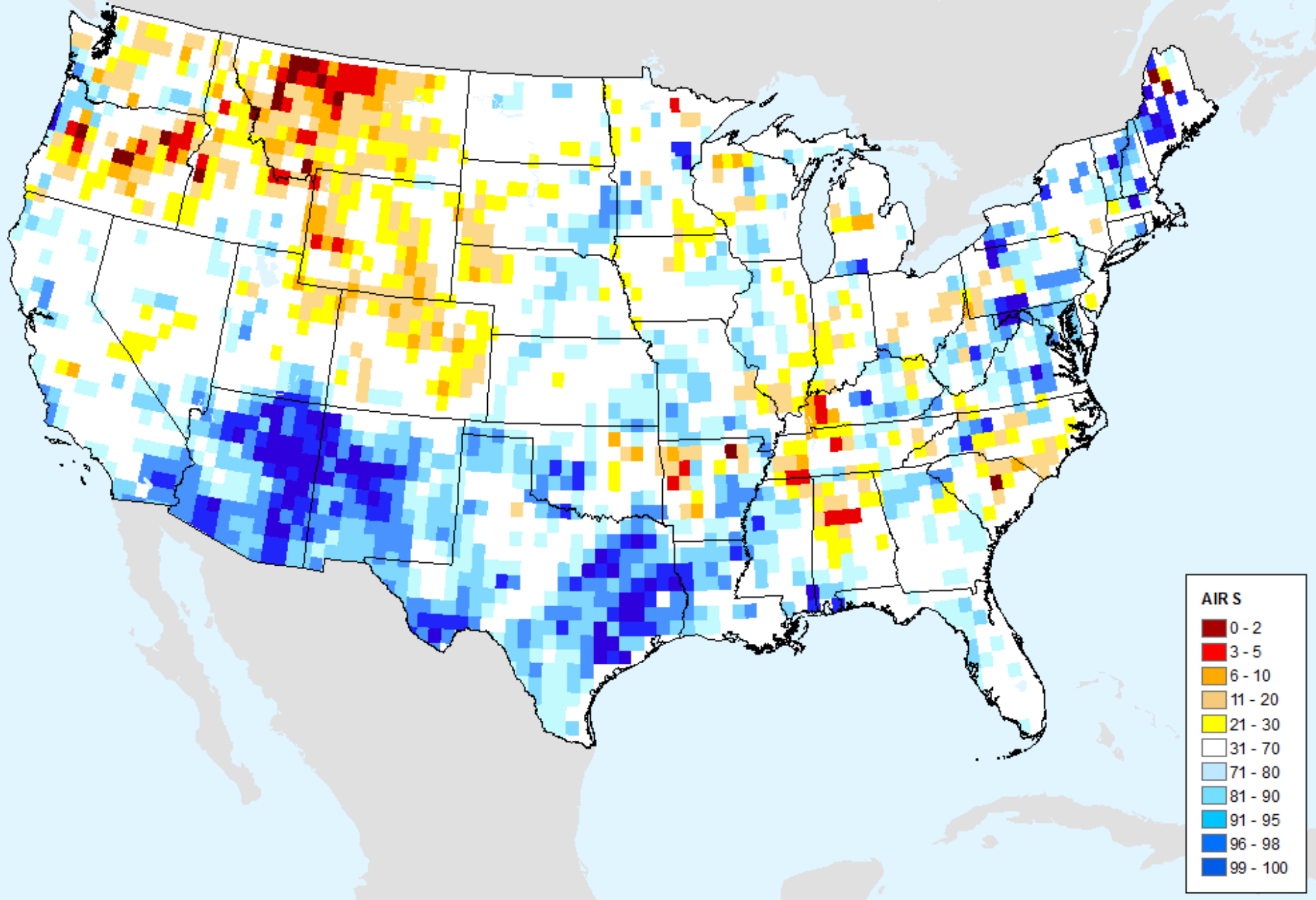
# AIRS-Based Surface Relative Humidity 7 Day

As of: Tuesday, January 15, 2019



# AIRS-Based Surface Relative Humidity 14 Day

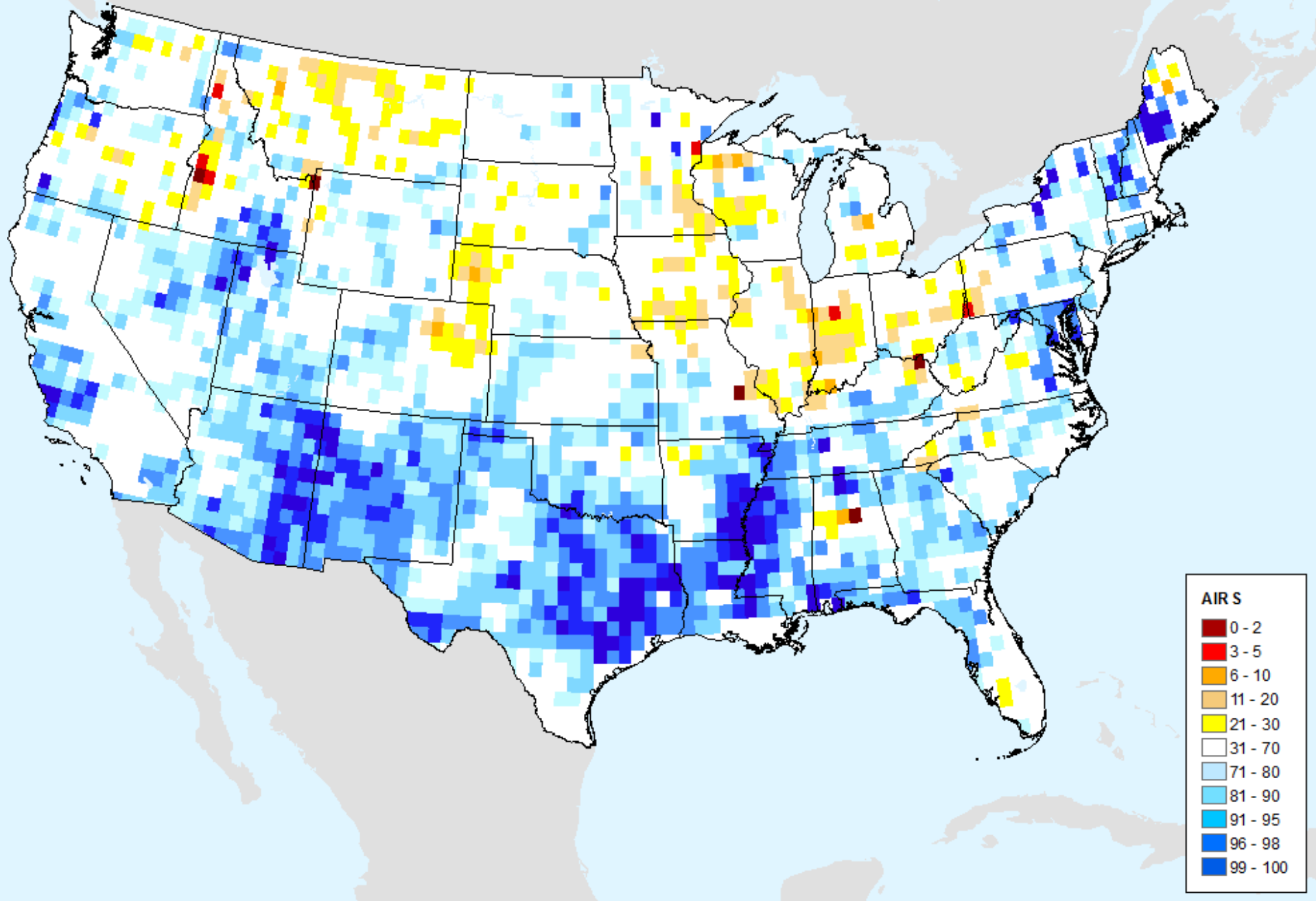
As of: Tuesday, January 15, 2019





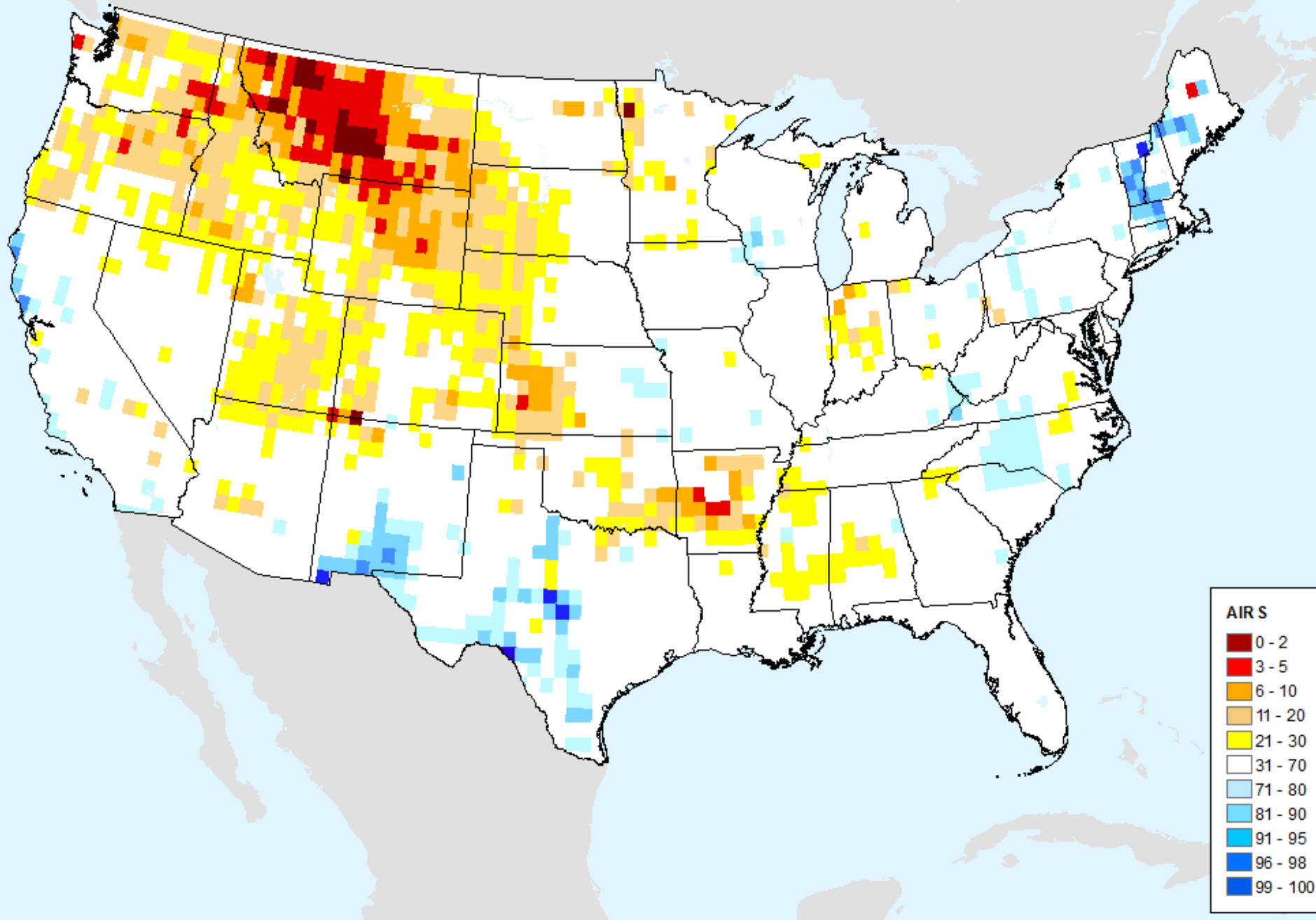
# AIRS-Based Surface Relative Humidity 28 Day

As of: Tuesday, January 15, 2019



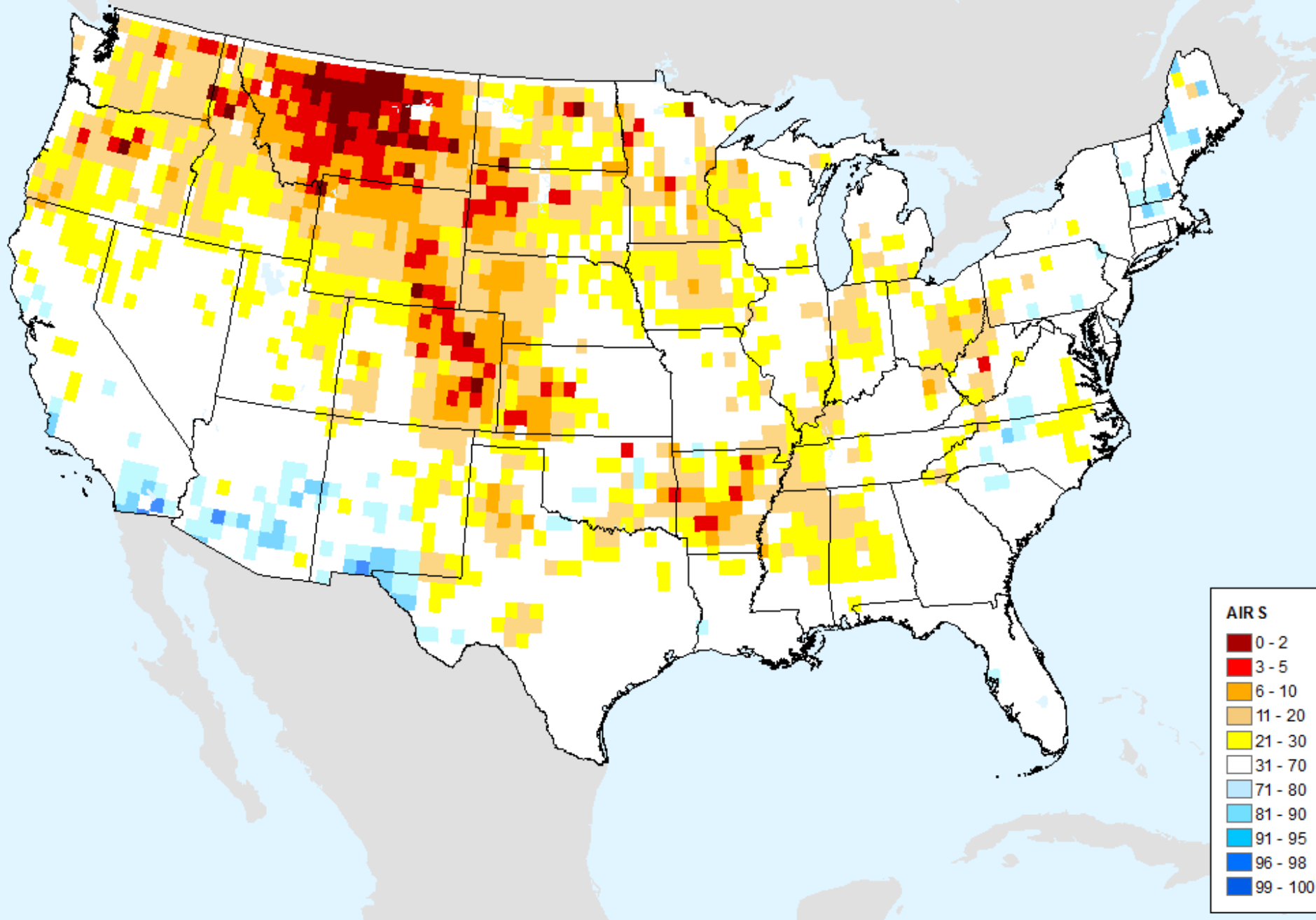
# AIRS-Based Retrieved Surface Air Temperature 7 Day

As of: Tuesday, January 15, 2019



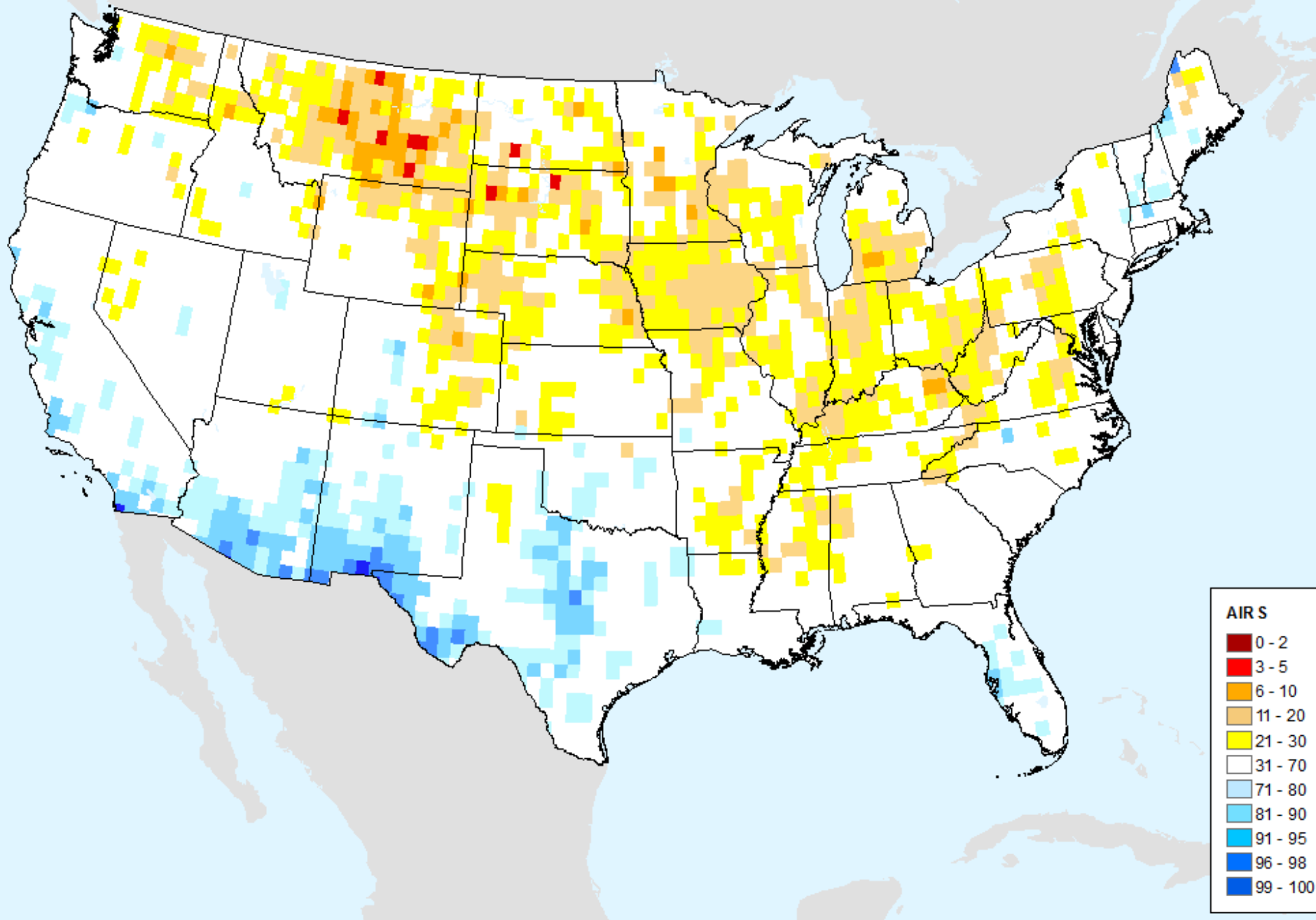
# AIRS-Based Retrieved Surface Air Temperature 14 Day

As of: Tuesday, January 15, 2019



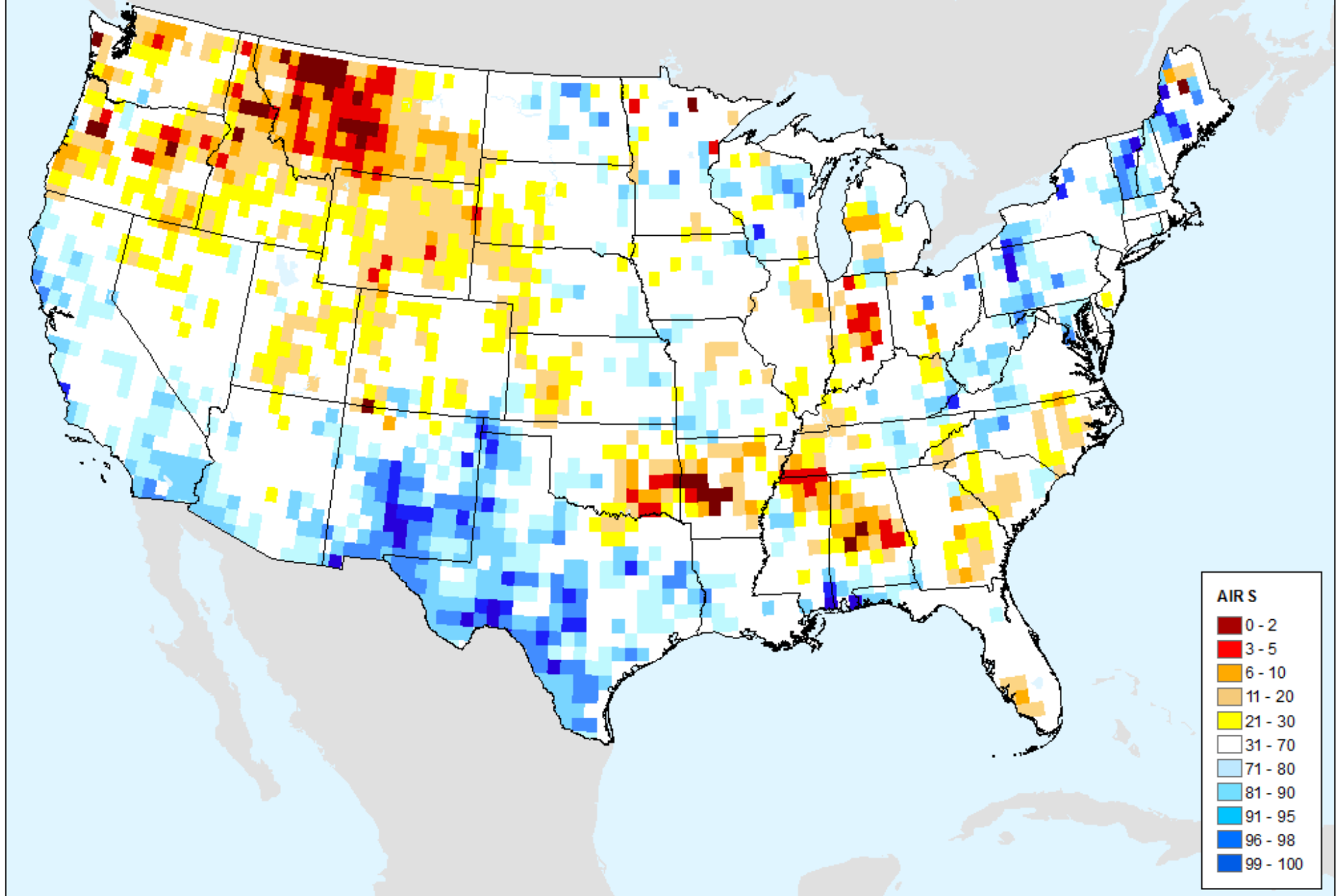
# AIRS-Based Retrieved Surface Air Temperature 28 Day

As of: Tuesday, January 15, 2019



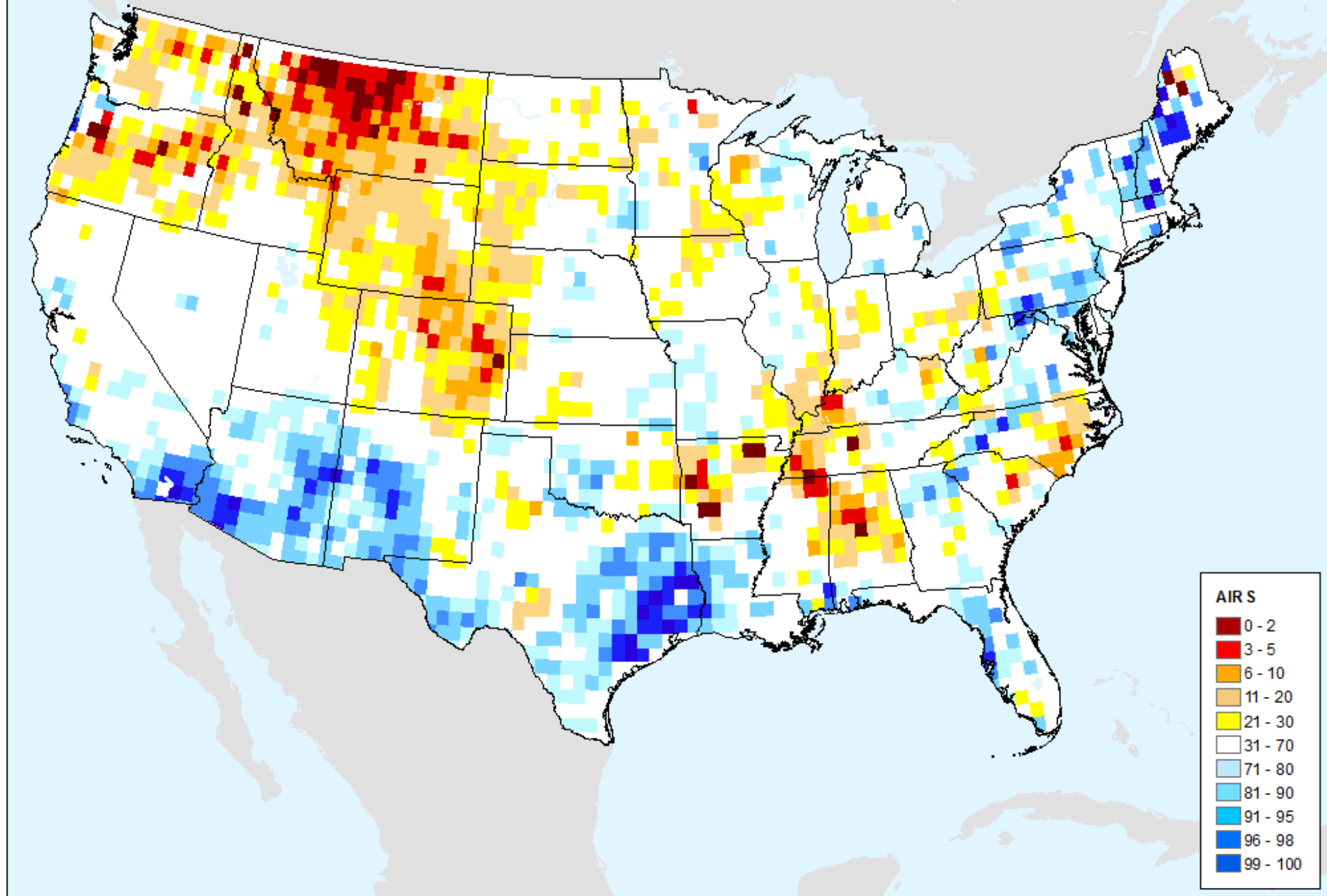
# AIRS-Based Vapor Pressure Deficit 7 Day

As of: Tuesday, January 15, 2019



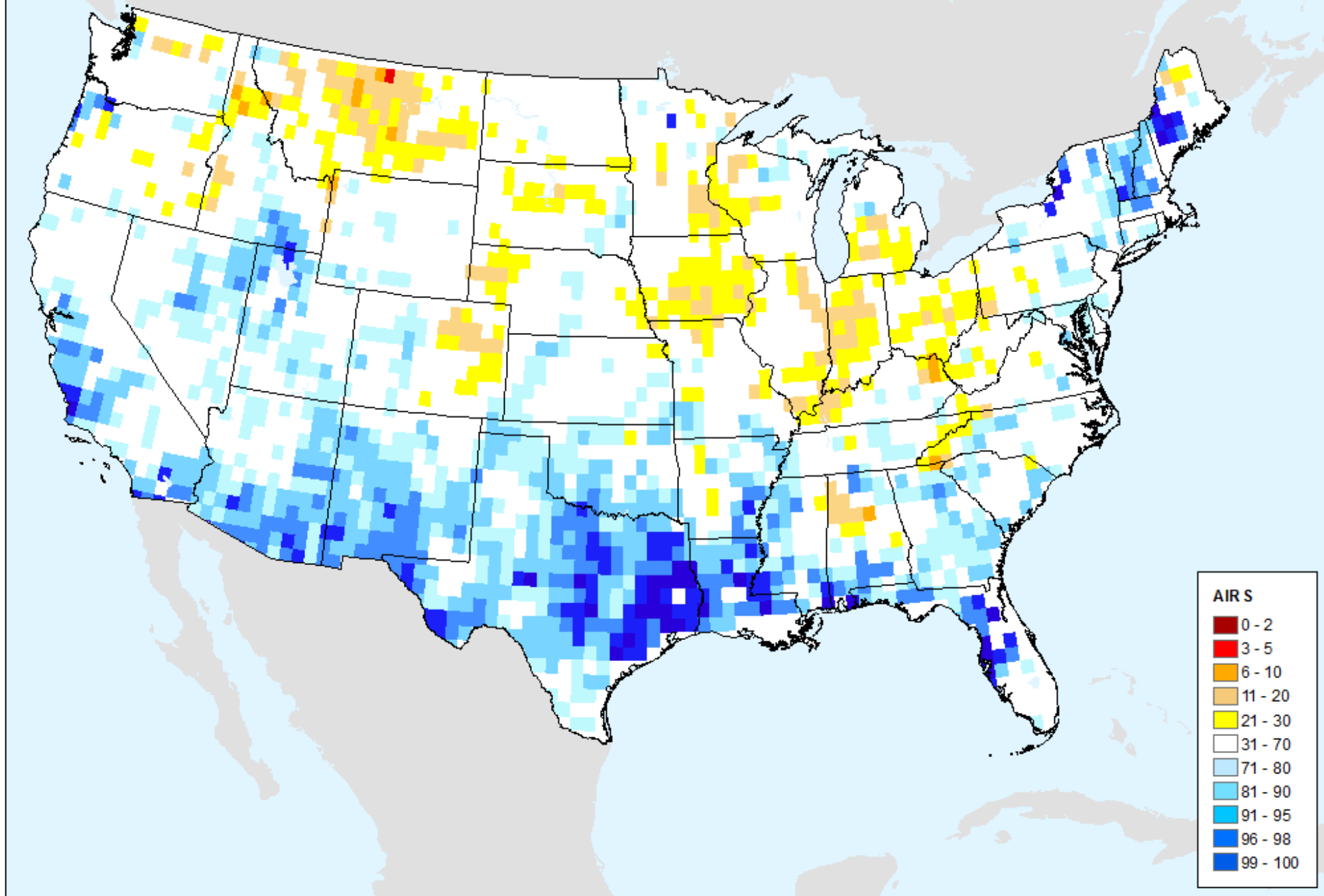
# AIRS-Based Vapor Pressure Deficit 14 Day

As of: Tuesday, January 15, 2019

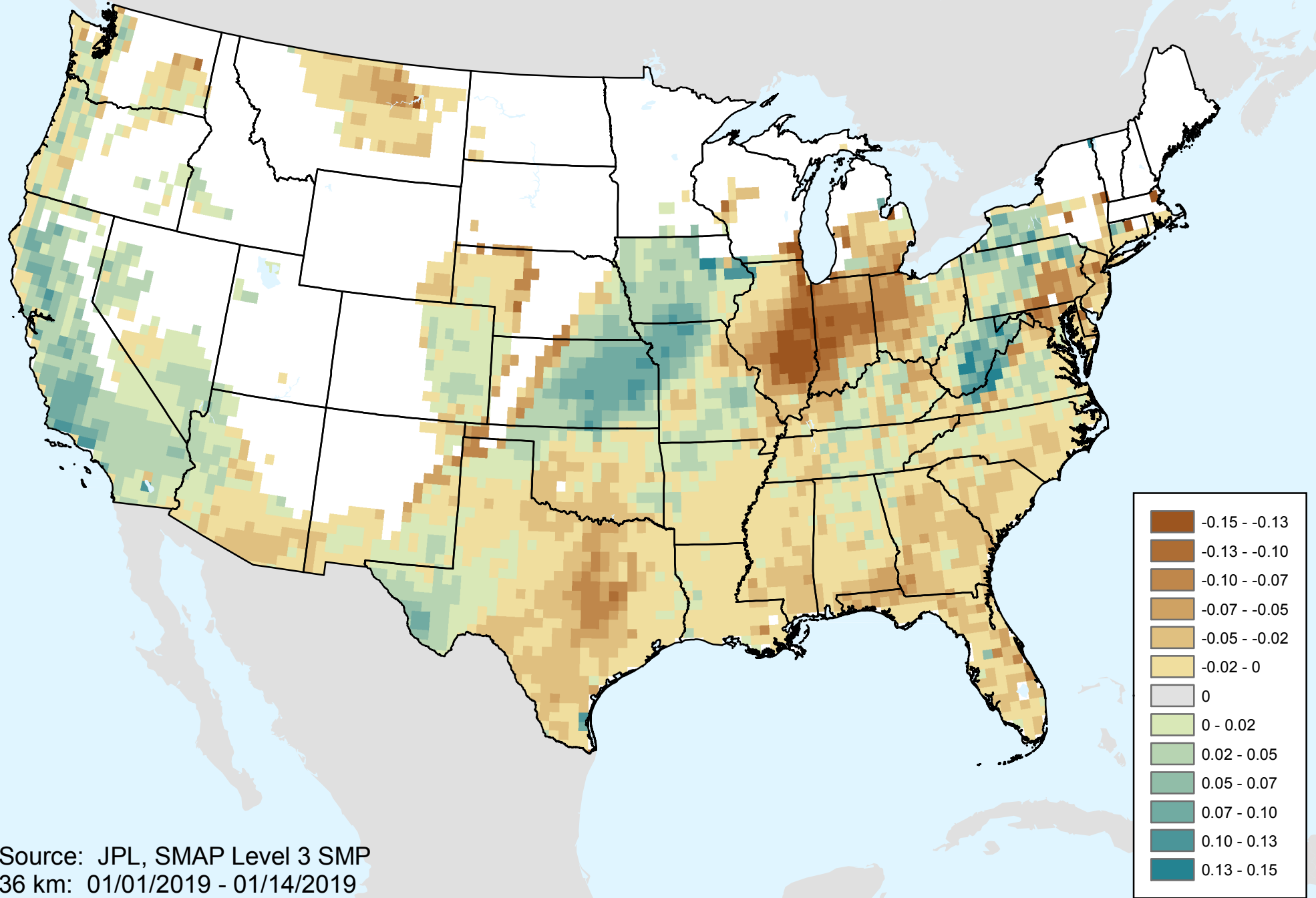


# AIRS-Based Vapor Pressure Deficit 28 Day

As of: Tuesday, January 15, 2019



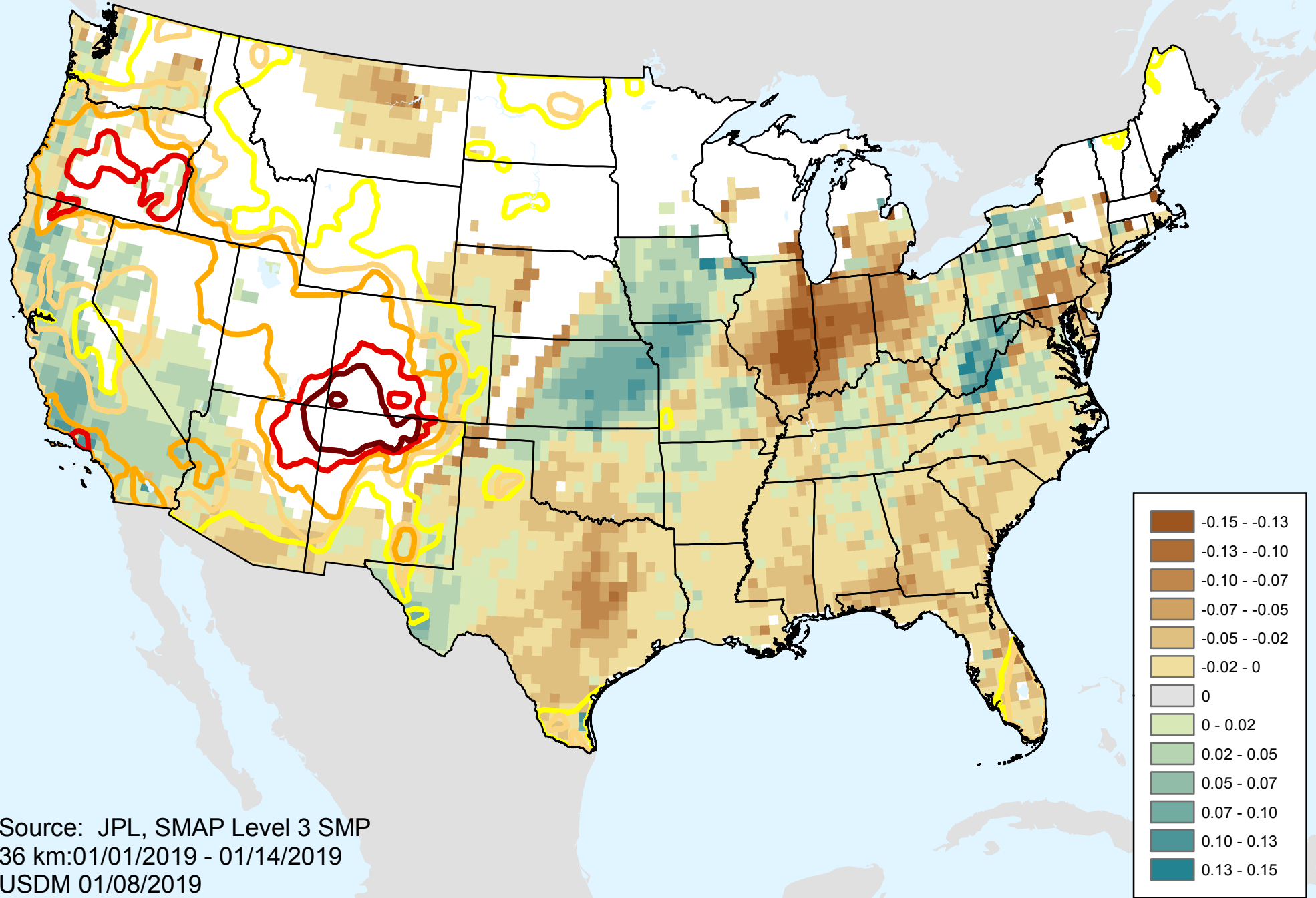
# SMAP 1-Week Change in Soil Moisture 0-5 cm



Source: JPL, SMAP Level 3 SMP  
36 km: 01/01/2019 - 01/14/2019

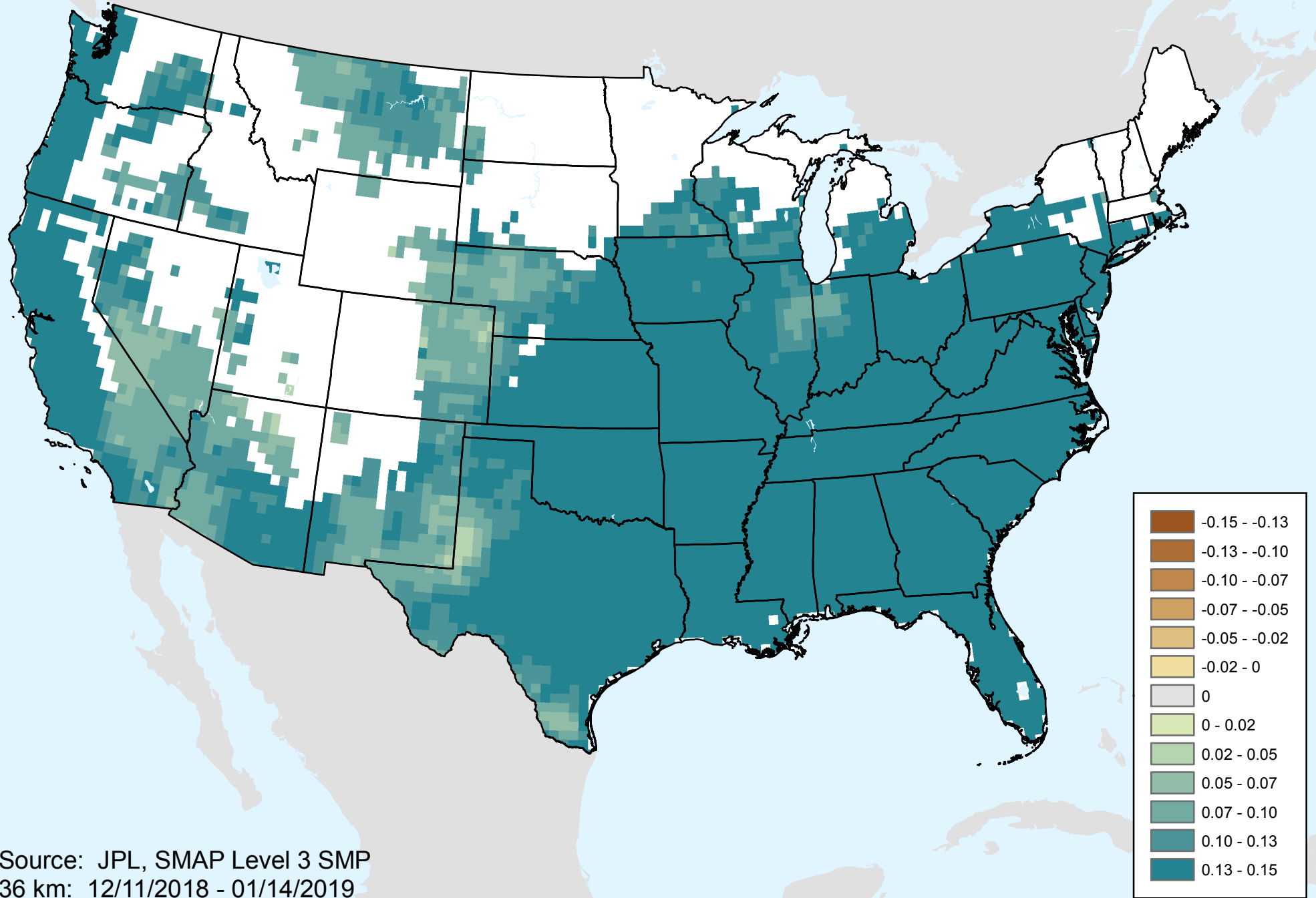


# SMAP 1-Week Change in Soil Moisture 0-5 cm



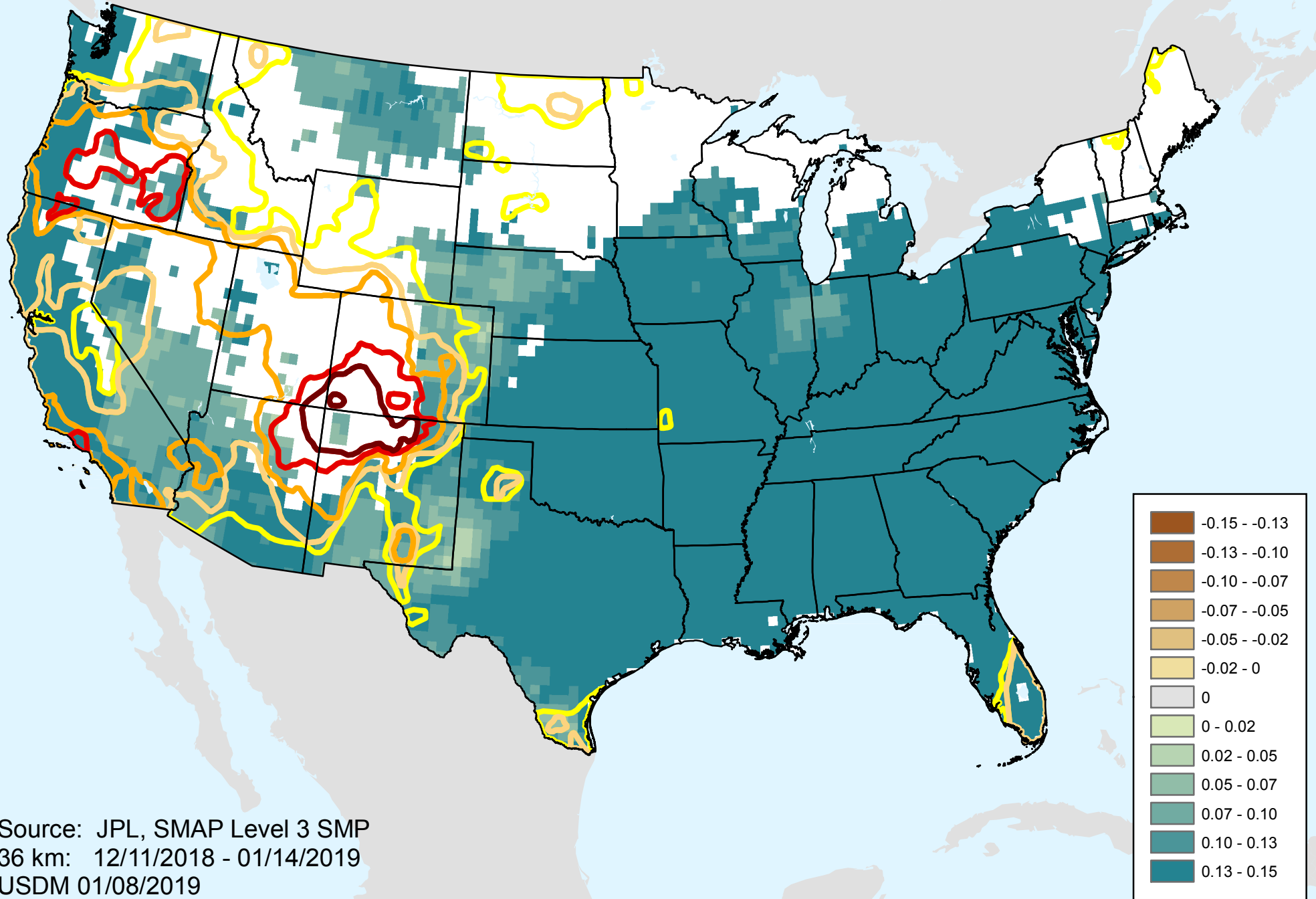
Source: JPL, SMAP Level 3 SMP  
36 km:01/01/2019 - 01/14/2019  
USDM 01/08/2019

# SMAP 1-Month Change in Soil Moisture 0-5 cm



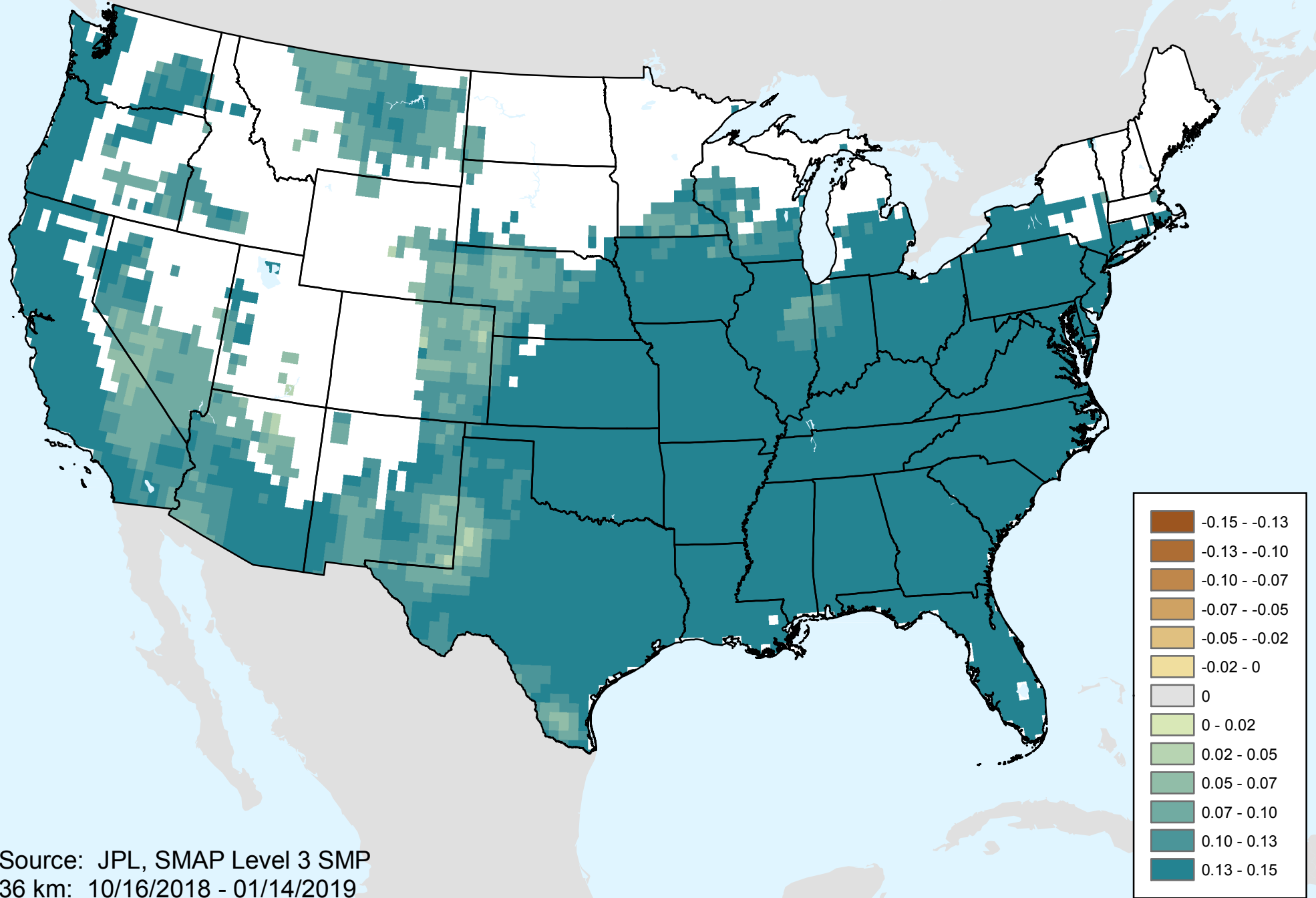
Source: JPL, SMAP Level 3 SMP  
36 km: 12/11/2018 - 01/14/2019

# SMAP 1-Month Change in Soil Moisture 0-5 cm



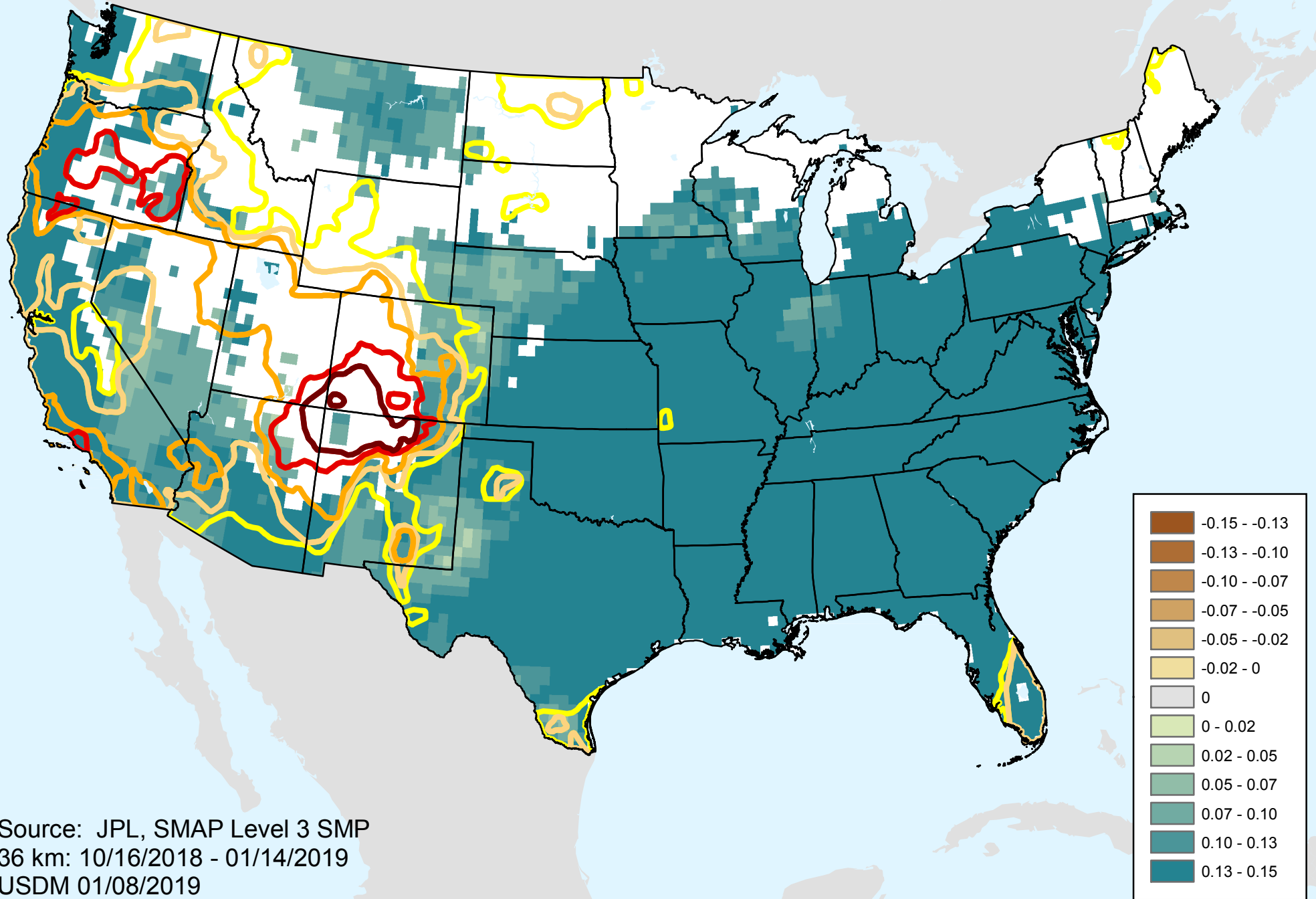
Source: JPL, SMAP Level 3 SMP  
36 km: 12/11/2018 - 01/14/2019  
USDM 01/08/2019

# SMAP 3-Month Change in Soil Moisture 0-5 cm



Source: JPL, SMAP Level 3 SMP  
36 km: 10/16/2018 - 01/14/2019

# SMAP 3-Month Change in Soil Moisture 0-5 cm



Source: JPL, SMAP Level 3 SMP  
36 km: 10/16/2018 - 01/14/2019  
USDM 01/08/2019