

December Conditions & Northeast DEWS Discussion

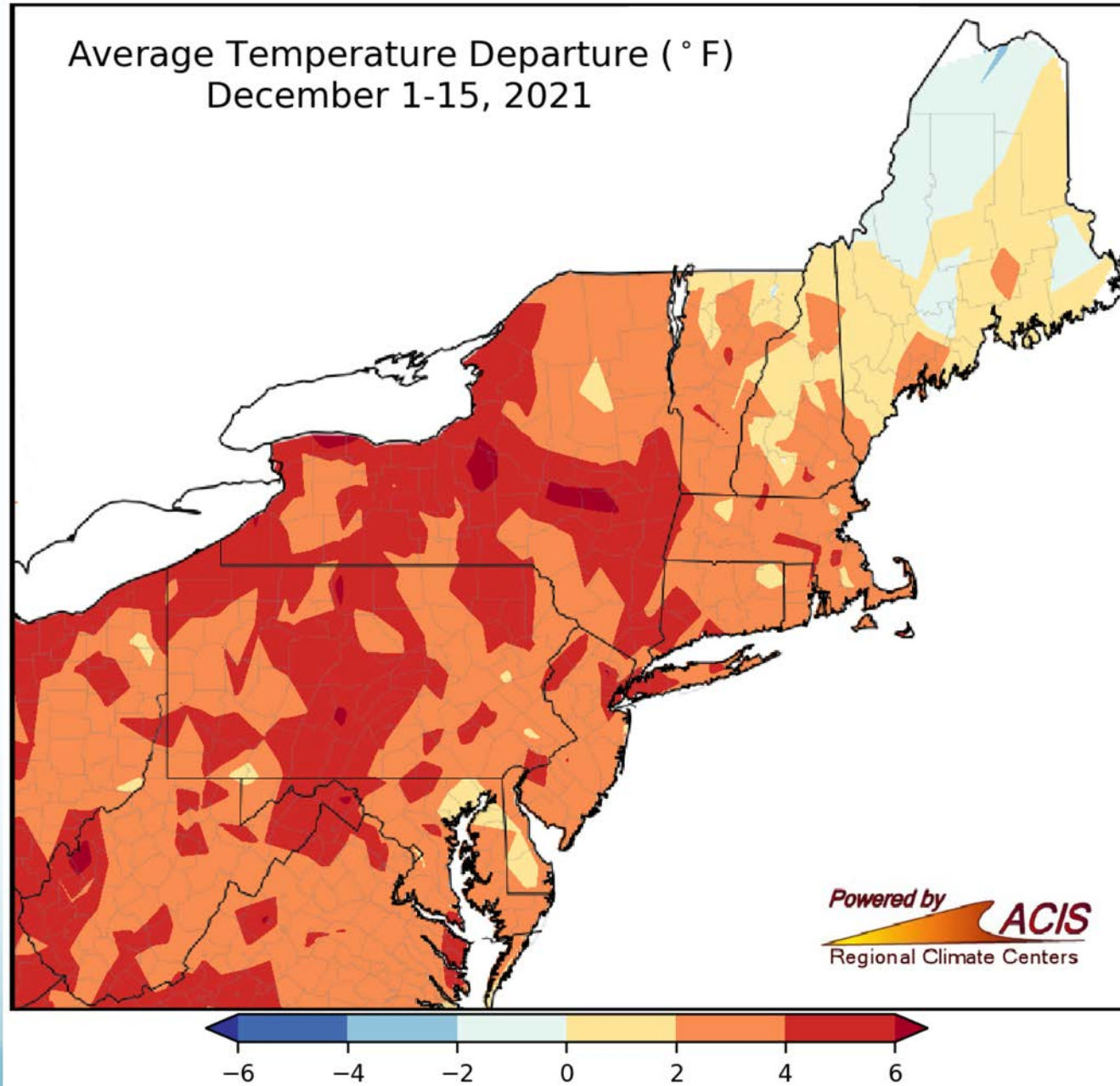
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center

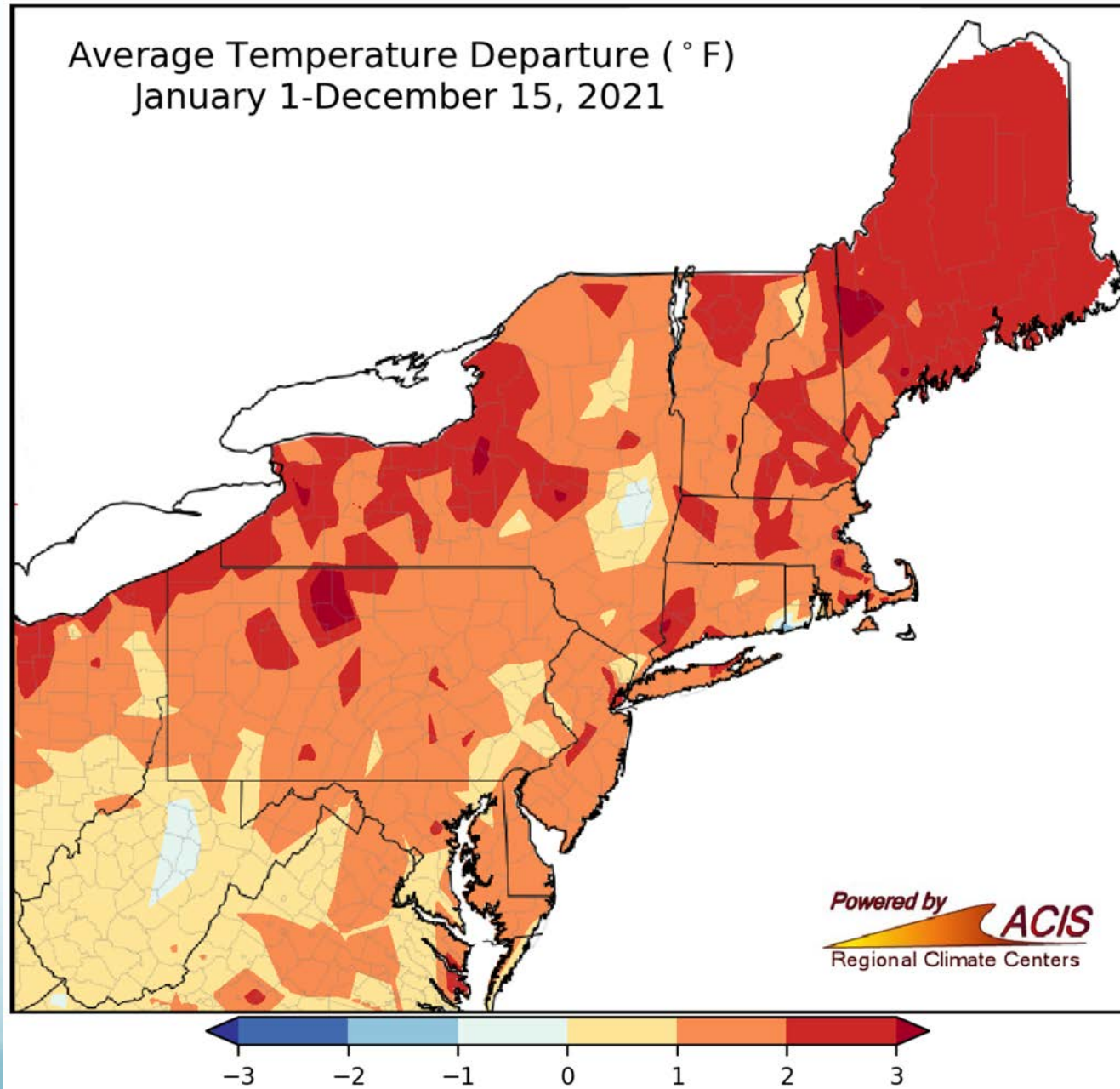


December Temperatures



From 2°F below normal to more than 6°F above normal

Annual Temperatures

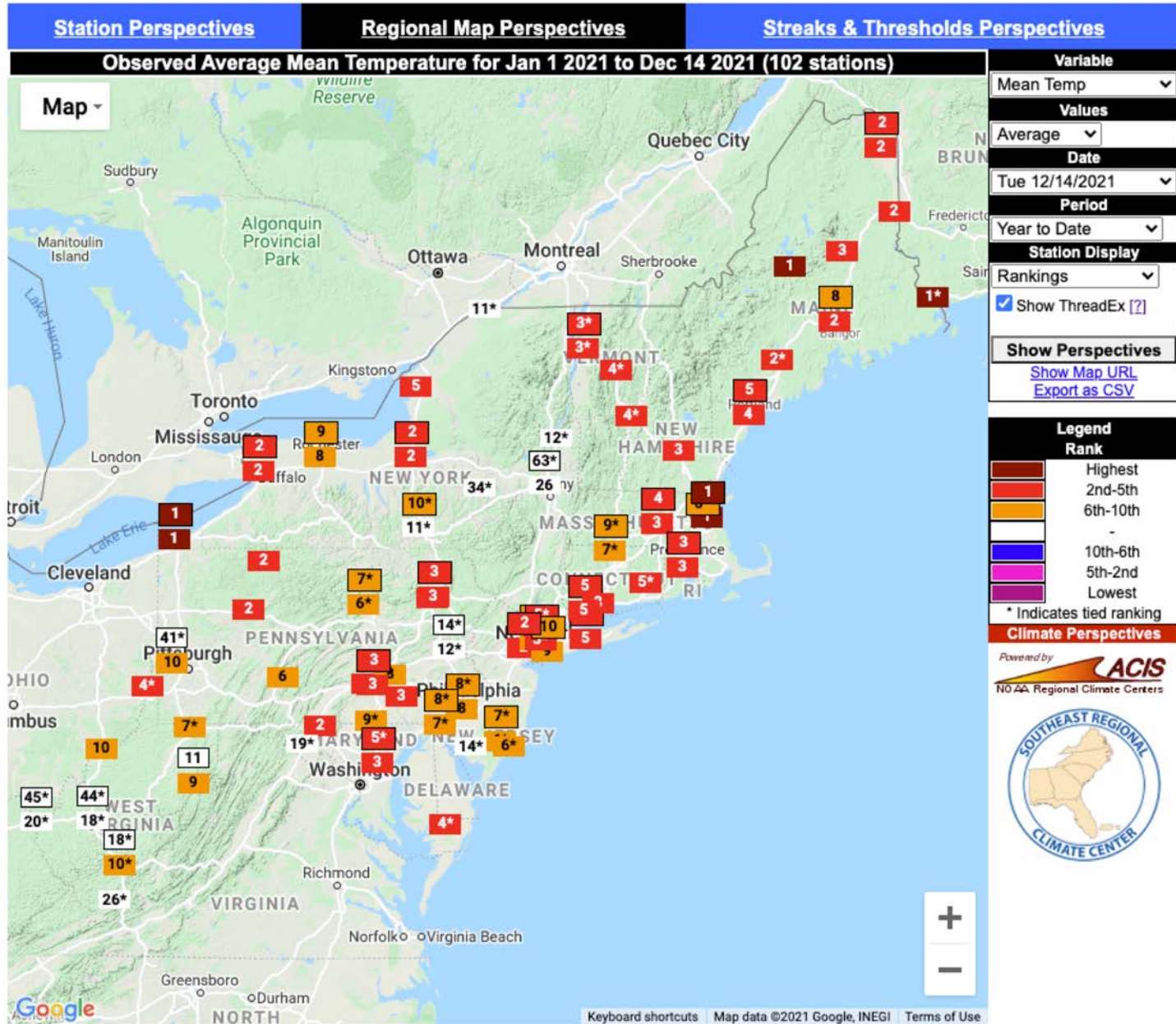


From 1°F below normal to more than 3°F above normal

Annual Temperatures

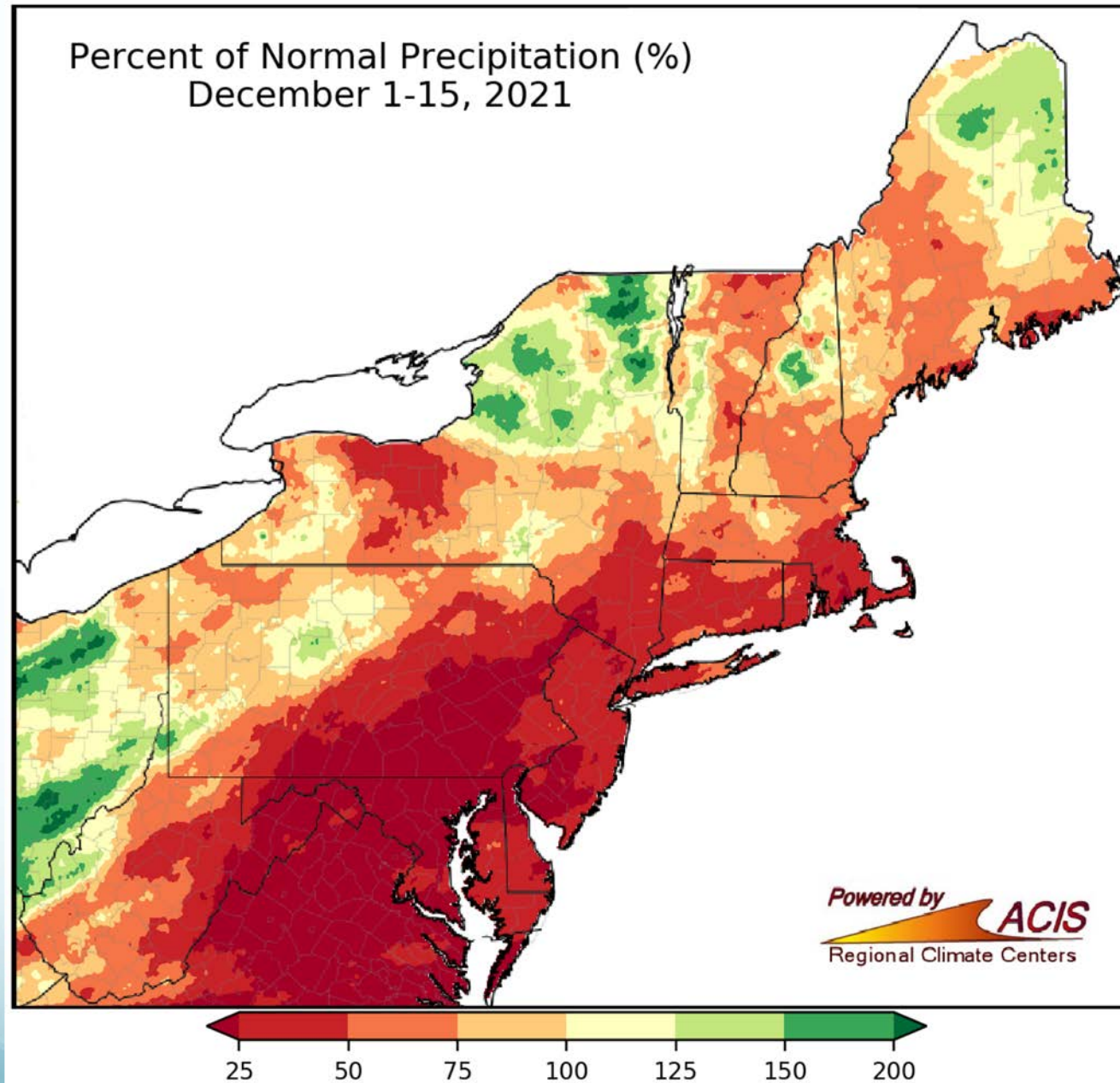
Southeast RCC Climate Perspectives

Expand



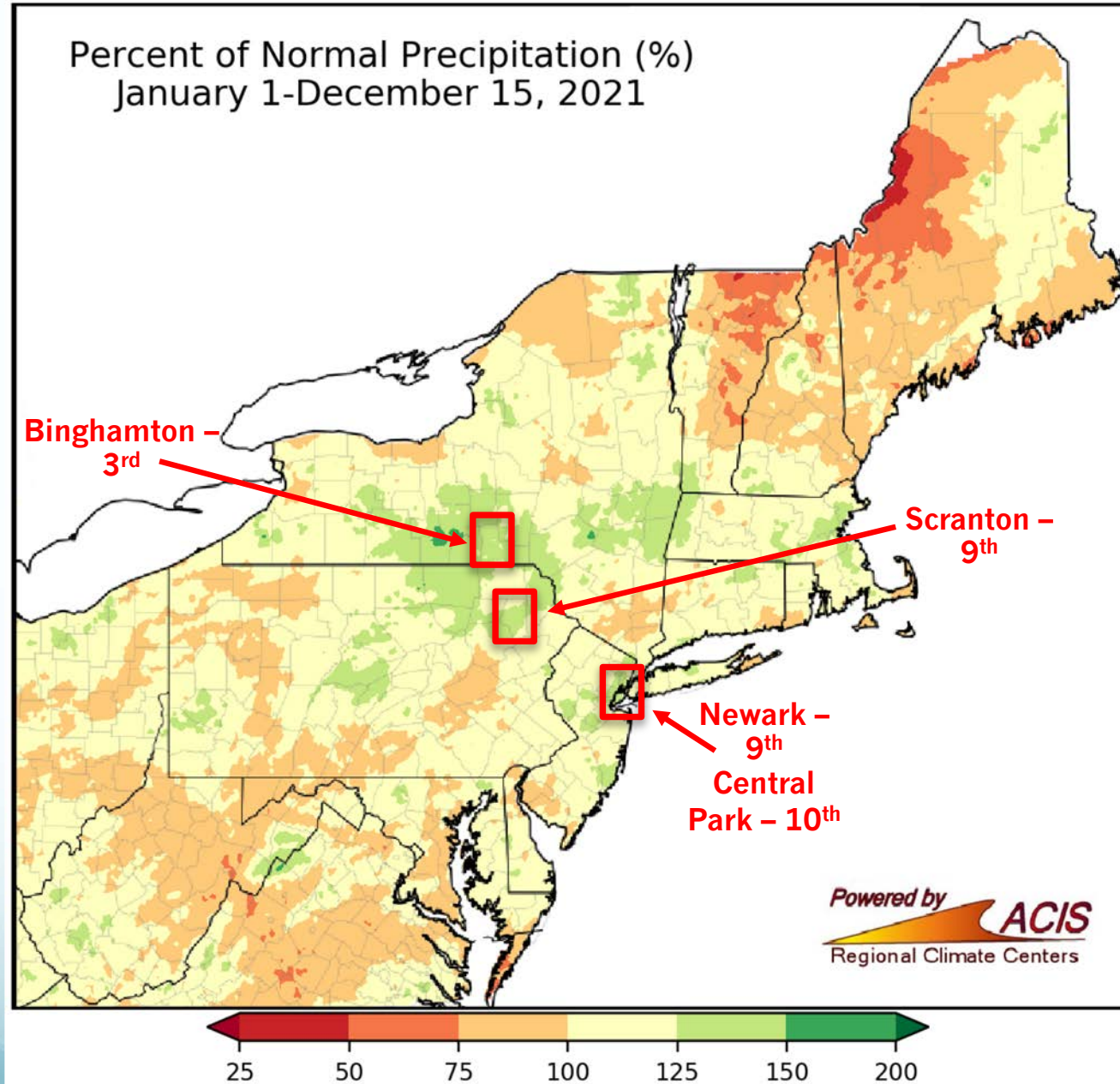
Created by and hosted at the [Southeast Regional Climate Center](#).

December Precipitation



From less than 25% of normal to 200% of normal

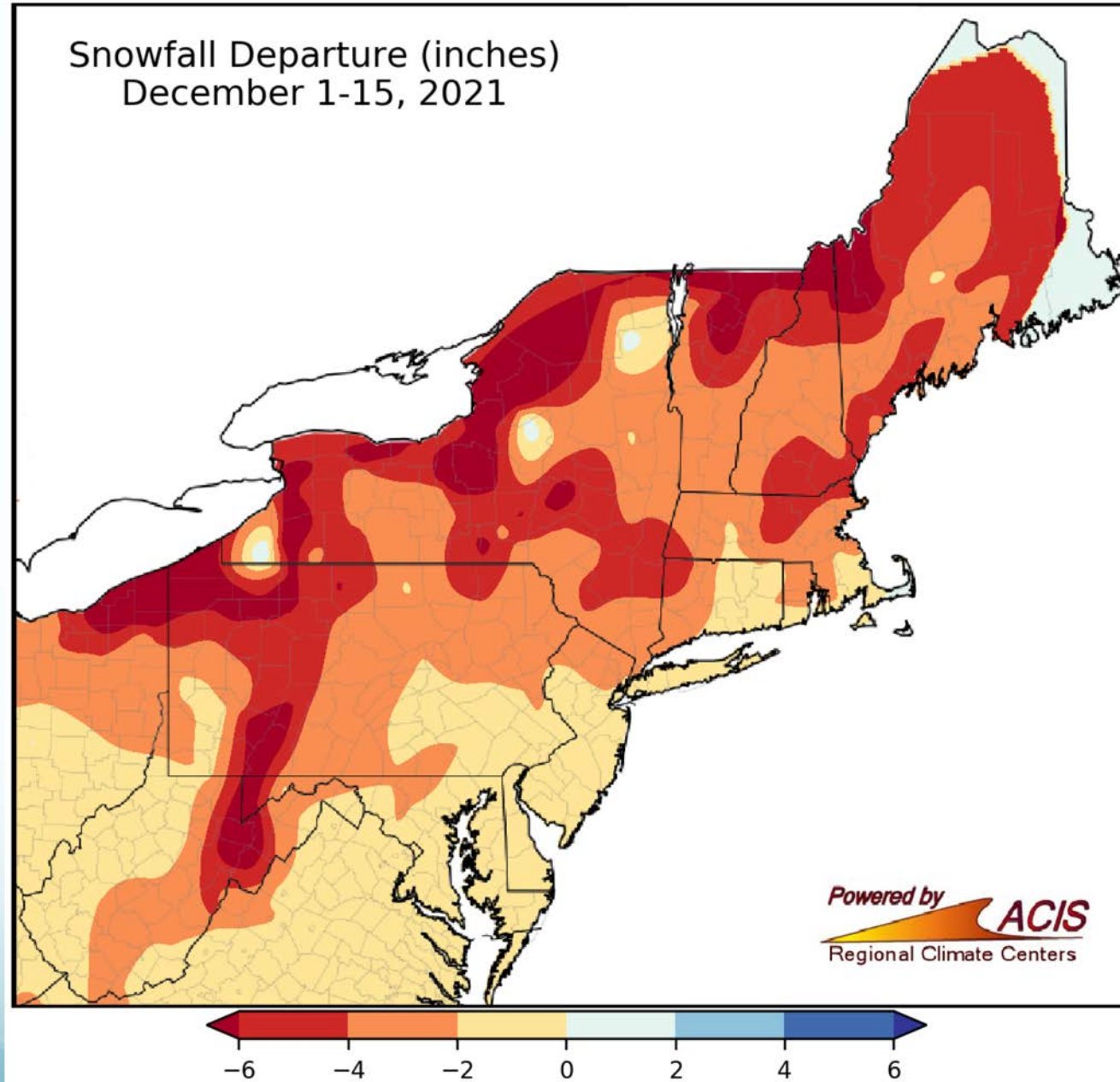
Annual Precipitation



From 50% of normal to 150% of normal



December Snowfall



From more than 6" below normal to near normal

Dec. 11 Winds

...ERIE COUNTY...

| | | | |
|------------------------------|---------------|---------------|----------|
| BUFFALO | 71 MPH | 0342 PM 12/11 | NOS-NWLN |
| BUFFALO AIRPORT | 66 MPH | 0354 PM 12/11 | ASOS |
| BLASDELL | 65 MPH | 0346 PM 12/11 | CWOP |
| HAMBURG | 64 MPH | 0341 PM 12/11 | WXFLOW |
| ELMA | 60 MPH | 0508 PM 12/11 | CWOP |
| EAST AURORA | 59 MPH | 0555 PM 12/11 | NYSM |
| ALDEN | 58 MPH | 0448 PM 12/11 | CWOP |
| LANCASTER | 58 MPH | 0509 PM 12/11 | CWOP |
| BUFFALO | 58 MPH | 0510 PM 12/11 | NYSM |
| GRAND ISLAND | 56 MPH | 0416 PM 12/11 | CWOP |
| BRANT | 56 MPH | 0435 PM 12/11 | NYSM |
| ANGOLA 2.91 MILES SE OF DERB | 54 MPH | 0525 PM 12/11 | NYSM |

...GENESEE COUNTY...

| | | | |
|---------|---------------|---------------|------|
| BATAVIA | 70 MPH | 0536 PM 12/11 | AWOS |
| ALABAMA | 57 MPH | 0525 PM 12/11 | RAWS |

...JEFFERSON COUNTY...

| | | | |
|--------------------|--------|---------------|------|
| FORT DRUM AIRFIELD | 66 MPH | 0551 PM 12/11 | AWOS |
| CAPE VINCENT | 65 MPH | 0610 PM 12/11 | NYSM |
| WELLESLEY ISLAND | 63 MPH | 0740 PM 12/11 | NYSM |
| WATERTOWN AIRPORT | 59 MPH | 0619 PM 12/11 | ASOS |
| TYLERSVILLE | 59 MPH | 0745 PM 12/11 | CWOP |
| CLAYTON | 57 MPH | 0700 PM 12/11 | CWOP |
| PHILADELPHIA | 56 MPH | 0555 PM 12/11 | NYSM |
| BELLEVILLE | 53 MPH | 0545 PM 12/11 | NYSM |

...LEWIS COUNTY...

| | | | |
|------------|--------|---------------|------|
| HARRISBURG | 65 MPH | 0740 PM 12/11 | NYSM |
| COPENHAGEN | 58 MPH | 0730 PM 12/11 | NYSM |
| GLENFIELD | 57 MPH | 0740 PM 12/11 | NYSM |

...LIVINGSTON COUNTY...

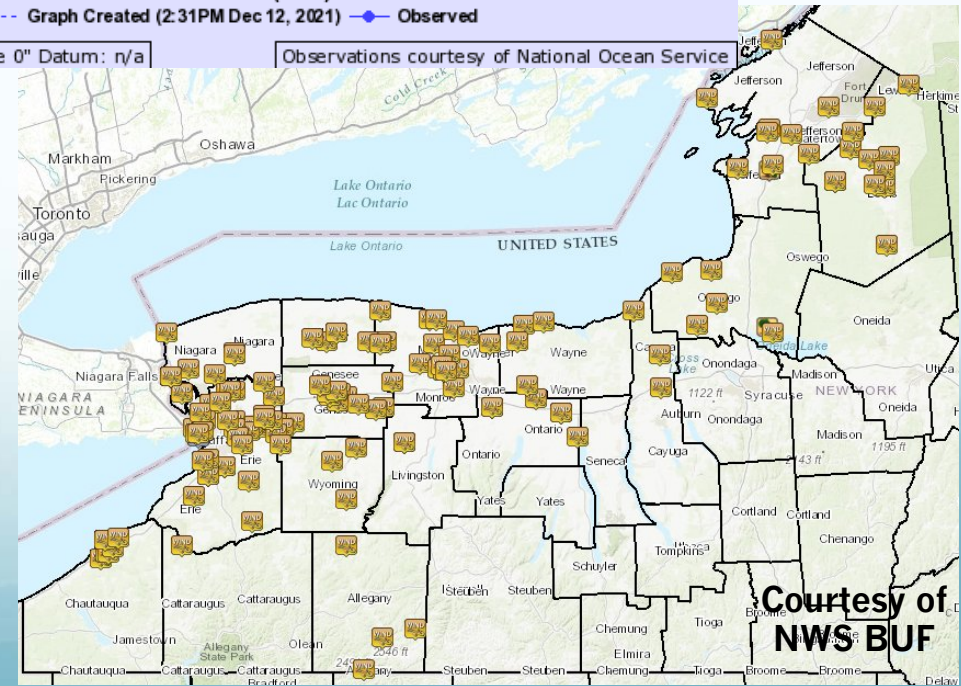
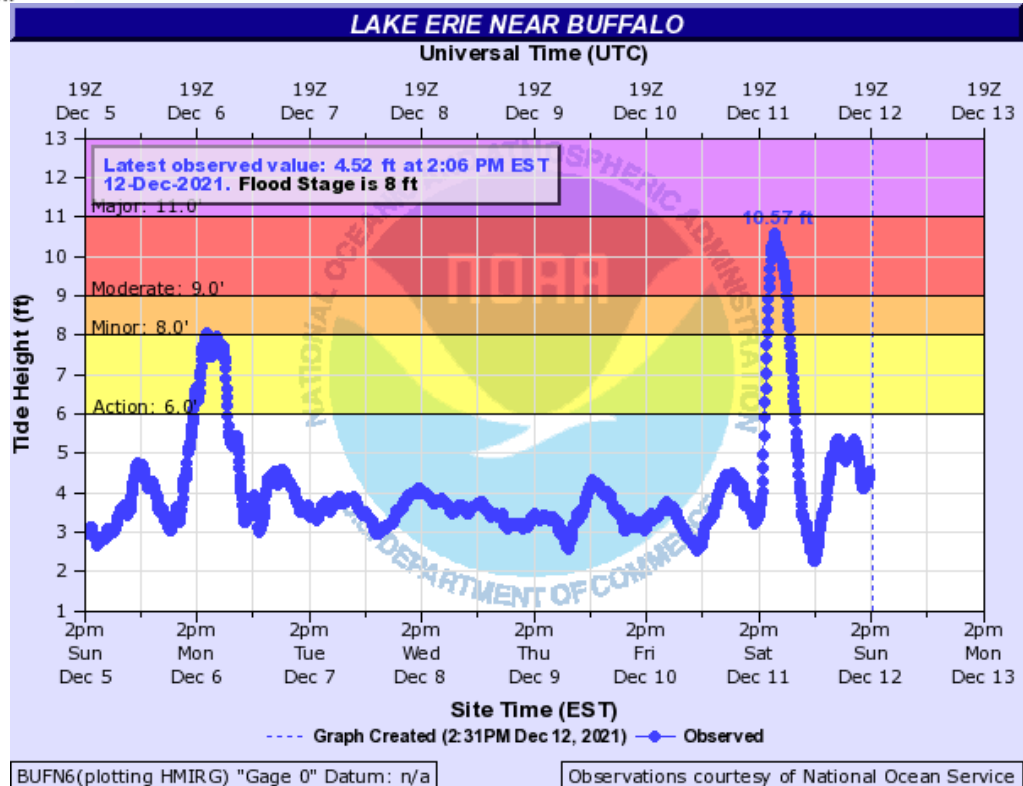
| | | | |
|------------------|--------|---------------|------|
| YORK | 59 MPH | 0635 PM 12/11 | NYSM |
| DANVILLE AIRPORT | 35 MPH | 0206 PM 12/11 | ASOS |

...MONROE COUNTY...

| | | | |
|-------------------|--------|---------------|------|
| BROCKPORT | 63 MPH | 0655 PM 12/11 | NYSM |
| GREECE | 62 MPH | 0510 PM 12/11 | CWOP |
| ROCHESTER AIRPORT | 60 MPH | 0559 PM 12/11 | ASOS |
| ROCHESTER | 57 MPH | 0445 PM 12/11 | CWOP |
| WEBSTER | 54 MPH | 0636 PM 12/11 | CWOP |
| RUSH | 46 MPH | 0535 PM 12/11 | NYSM |

...NIAGARA COUNTY...

| | | | |
|-----------------------|---------------|---------------|------|
| NIAGARA FALLS AIRPORT | 74 MPH | 0405 PM 12/11 | ASOS |
| PENDLETON | 60 MPH | 0306 PM 12/11 | CWOP |
| MIDDLEPORT | 56 MPH | 0509 PM 12/11 | CWOP |
| BURT | 55 MPH | 0355 PM 12/11 | NYSM |



Drought Monitor

U.S. Drought Monitor Northeast Climate Region

November 23, 2021
(Released Wednesday, Nov. 24, 2021)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

| | None | D0 | D1 | D2 | D3 | D4 |
|---|-------|-------|-------|------|------|------|
| Current | 91.59 | 6.37 | 1.19 | 0.85 | 0.00 | 0.00 |
| Last Week 11-16-2021 | 91.89 | 6.07 | 1.19 | 0.85 | 0.00 | 0.00 |
| 3 Months Ago 08-24-2021 | 77.36 | 12.05 | 9.05 | 1.54 | 0.00 | 0.00 |
| Start of Calendar Year 12-29-2020 | 77.60 | 18.77 | 3.63 | 0.00 | 0.00 | 0.00 |
| Start of Water Year 09-29-2021 | 90.30 | 6.56 | 2.35 | 0.80 | 0.00 | 0.00 |
| One Year Ago 11-24-2020 | 43.80 | 22.80 | 29.35 | 3.29 | 0.75 | 0.00 |

Intensity:

| | |
|---------------------|------------------------|
| None | D2 Severe Drought |
| D0 Abnormally Dry | D3 Extreme Drought |
| D1 Moderate Drought | D4 Exceptional Drought |

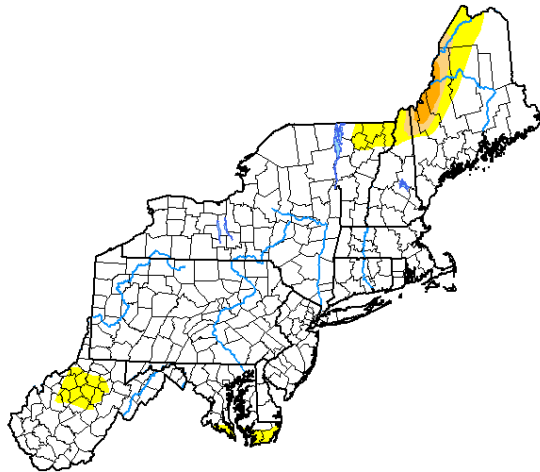
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Richard Heim
NCEI/NOAA



droughtmonitor.unl.edu



U.S. Drought Monitor Northeast Climate Region

December 14, 2021
(Released Thursday, Dec. 16, 2021)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

| | None | D0 | D1 | D2 | D3 | D4 |
|---|-------|-------|-------|------|------|------|
| Current | 82.68 | 15.28 | 1.19 | 0.85 | 0.00 | 0.00 |
| Last Week 12-07-2021 | 88.83 | 9.13 | 1.19 | 0.85 | 0.00 | 0.00 |
| 3 Months Ago 09-14-2021 | 85.14 | 8.77 | 5.29 | 0.80 | 0.00 | 0.00 |
| Start of Calendar Year 12-29-2020 | 77.60 | 18.77 | 3.63 | 0.00 | 0.00 | 0.00 |
| Start of Water Year 09-29-2021 | 90.30 | 6.56 | 2.35 | 0.80 | 0.00 | 0.00 |
| One Year Ago 12-15-2020 | 60.32 | 22.80 | 16.44 | 0.44 | 0.00 | 0.00 |

Intensity:

| | |
|---------------------|------------------------|
| None | D2 Severe Drought |
| D0 Abnormally Dry | D3 Extreme Drought |
| D1 Moderate Drought | D4 Exceptional Drought |

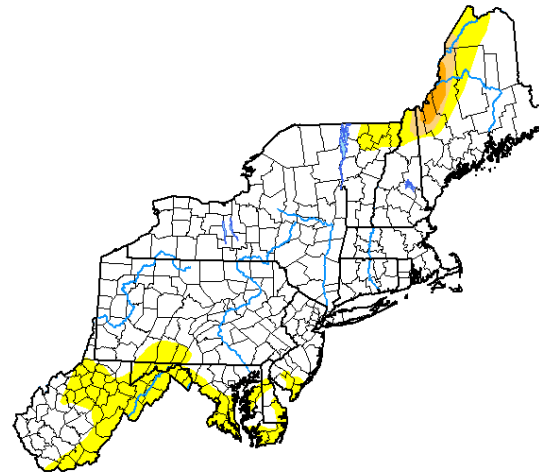
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Author:

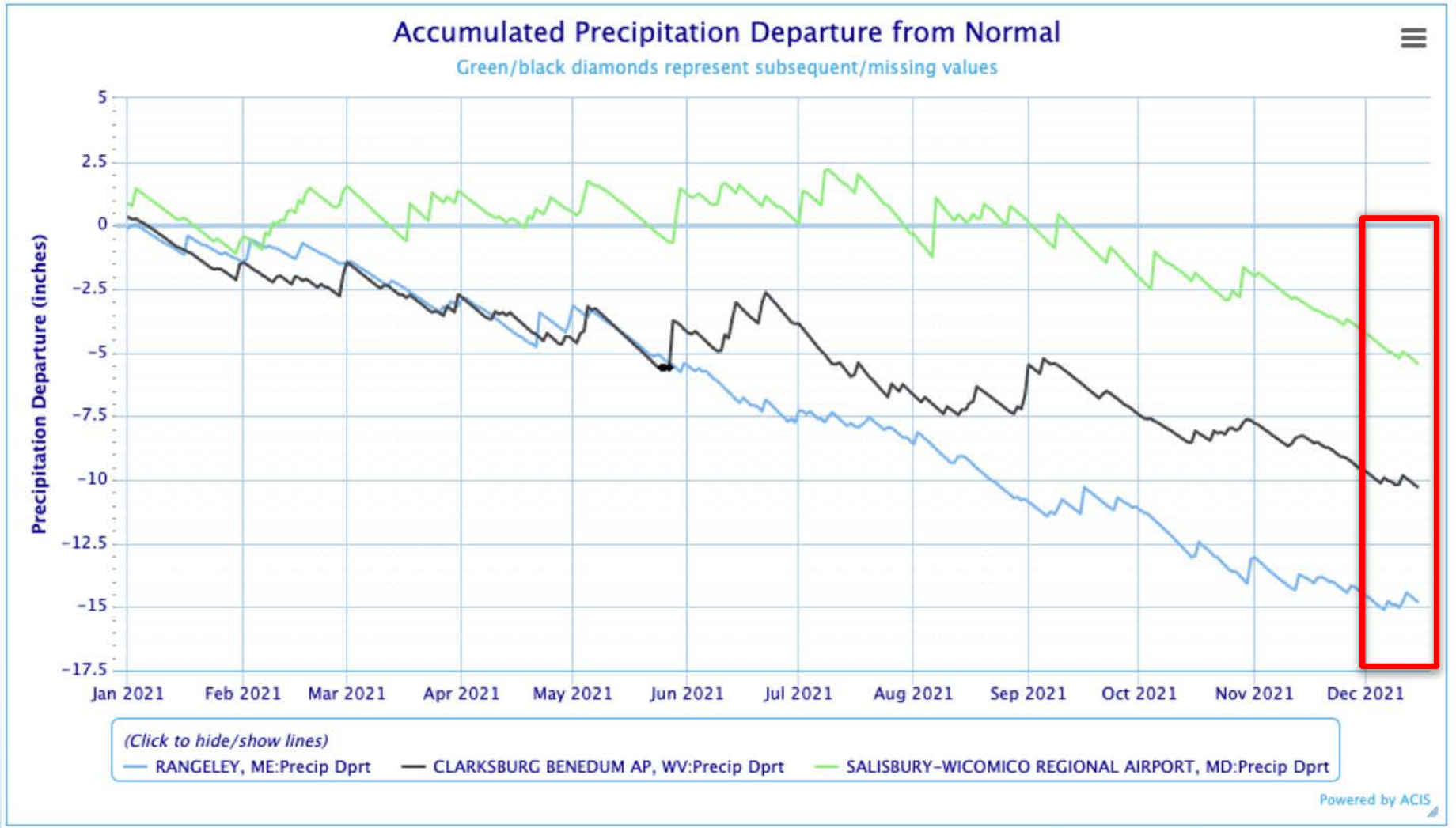
David Simeral
Western Regional Climate Center



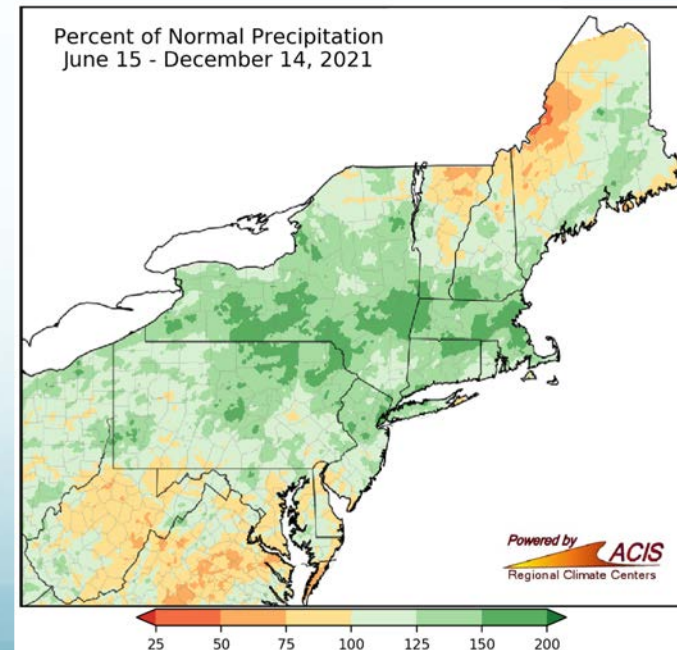
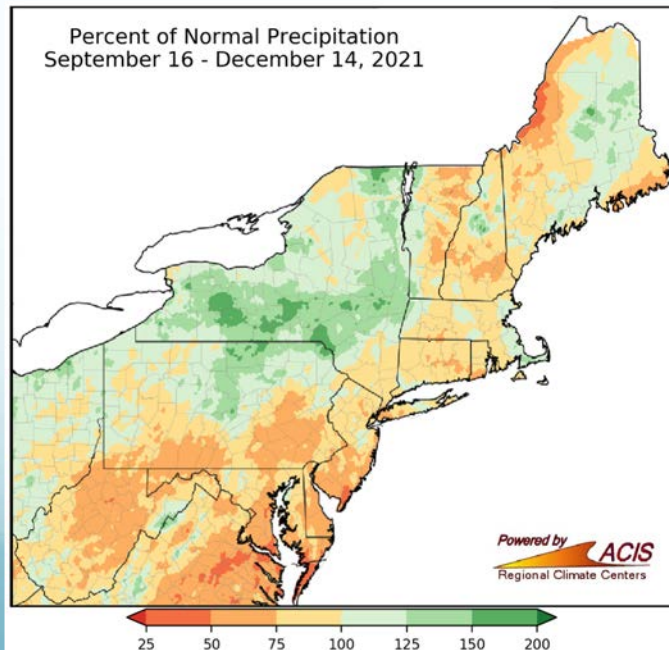
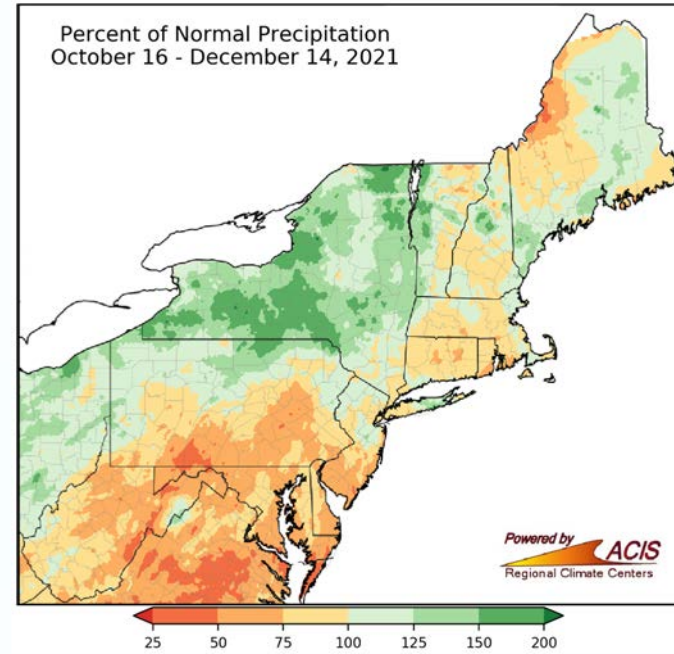
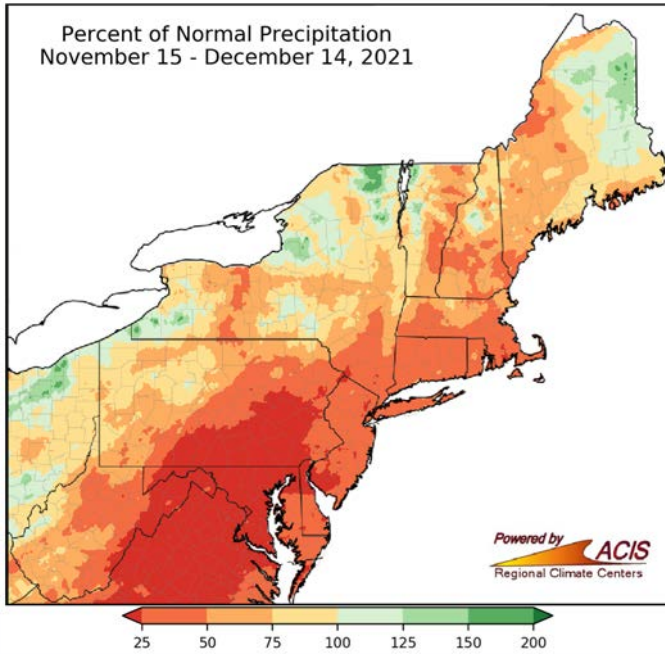
droughtmonitor.unl.edu



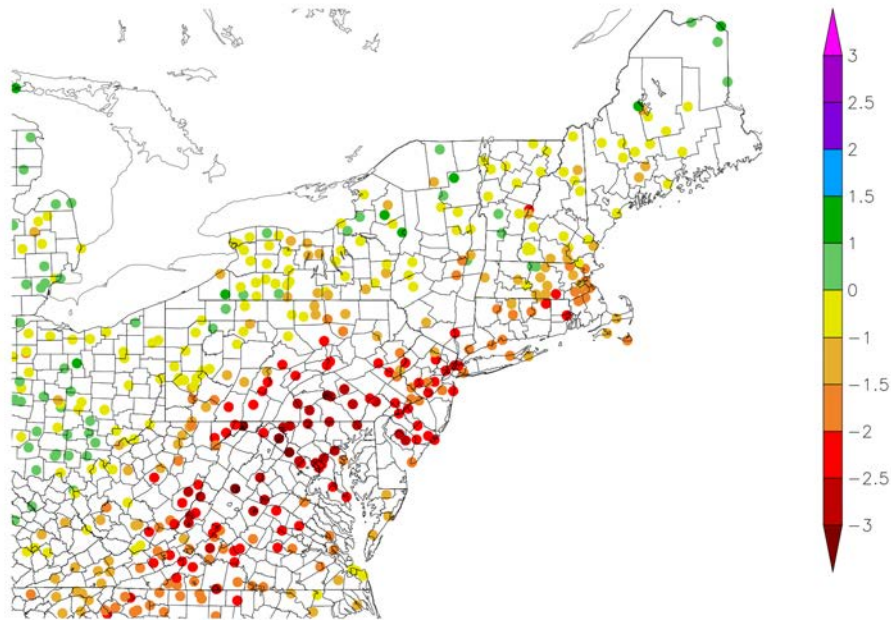
Precipitation



Precipitation



30 Day SPI
11/15/2021 - 12/14/2021

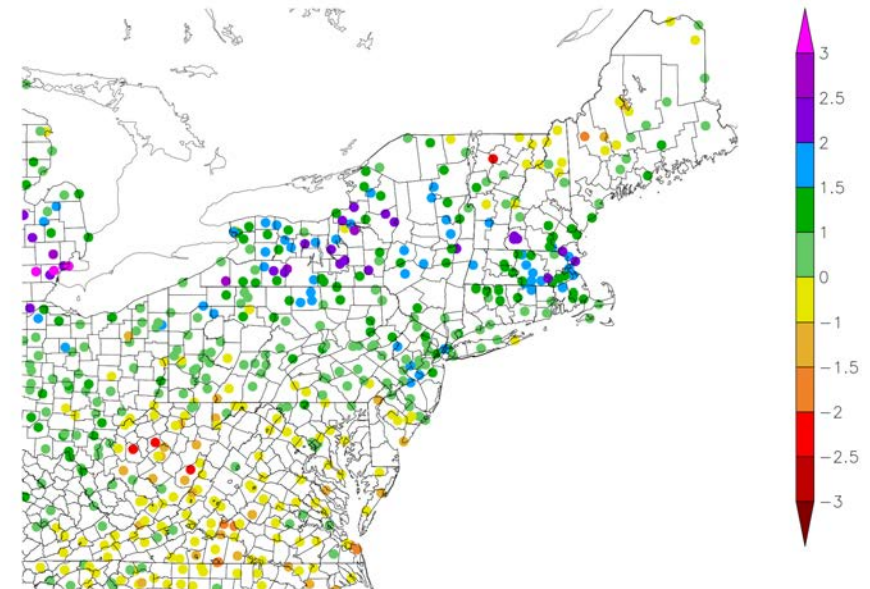


Generated 12/15/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

Standardized Precipitation Index

6 Month SPI
6/15/2021 - 12/14/2021

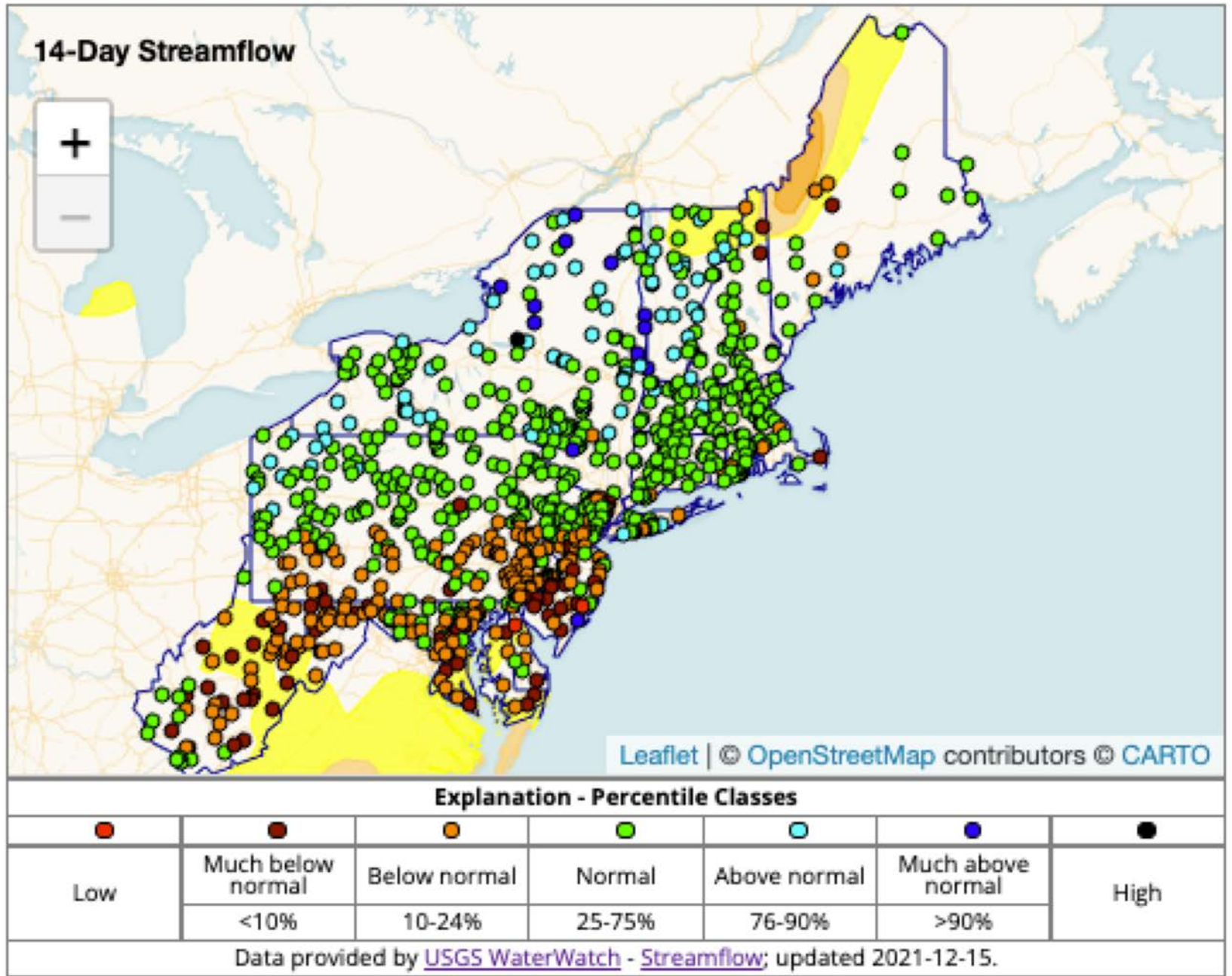


Generated 12/15/2021 at HPRCC using provisional data.

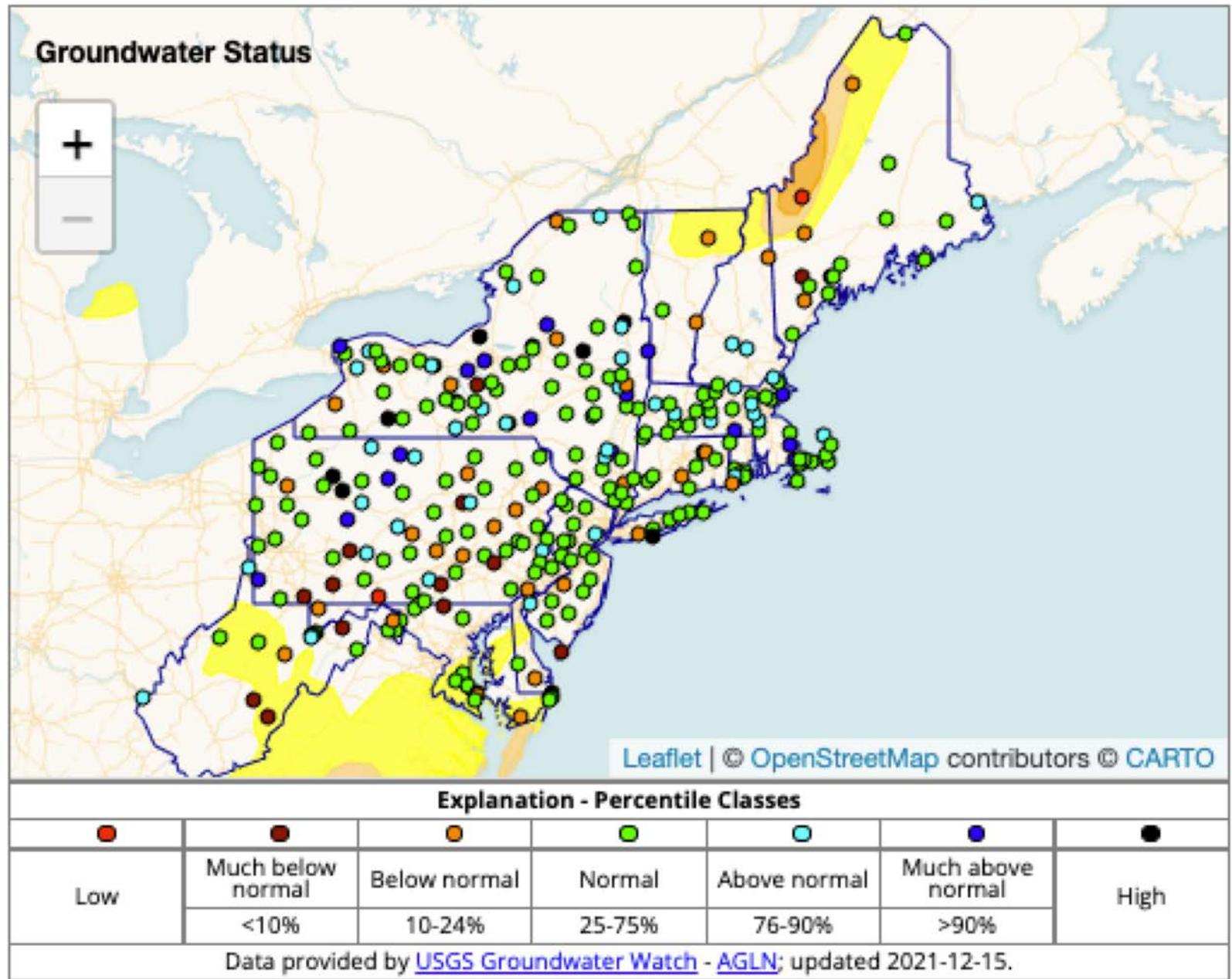
NOAA Regional Climate Centers



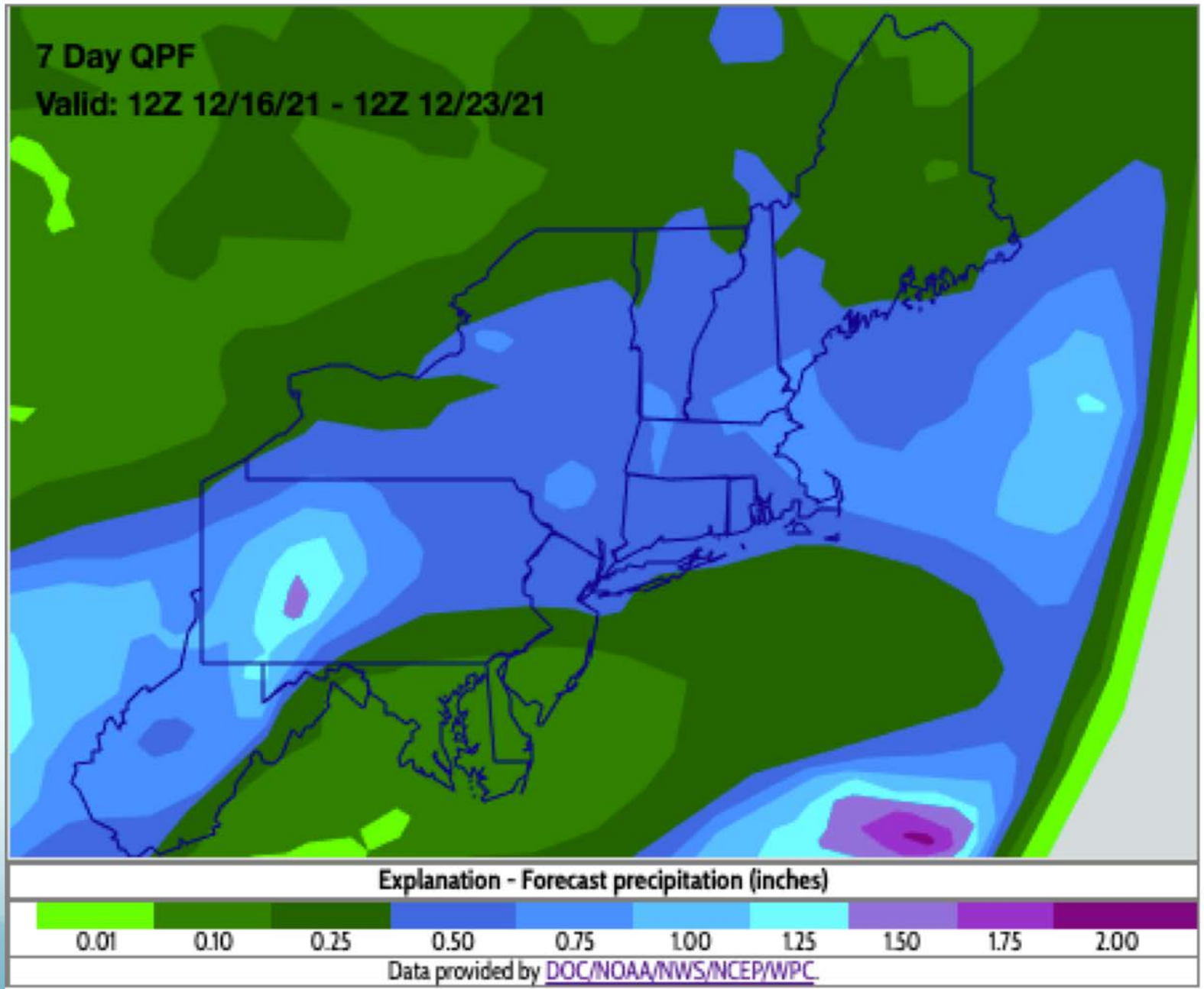
Streamflow



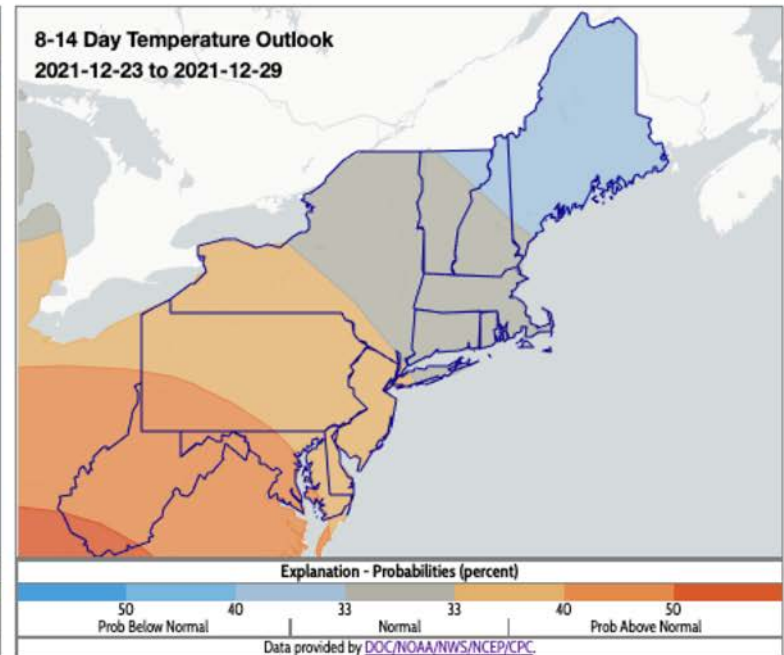
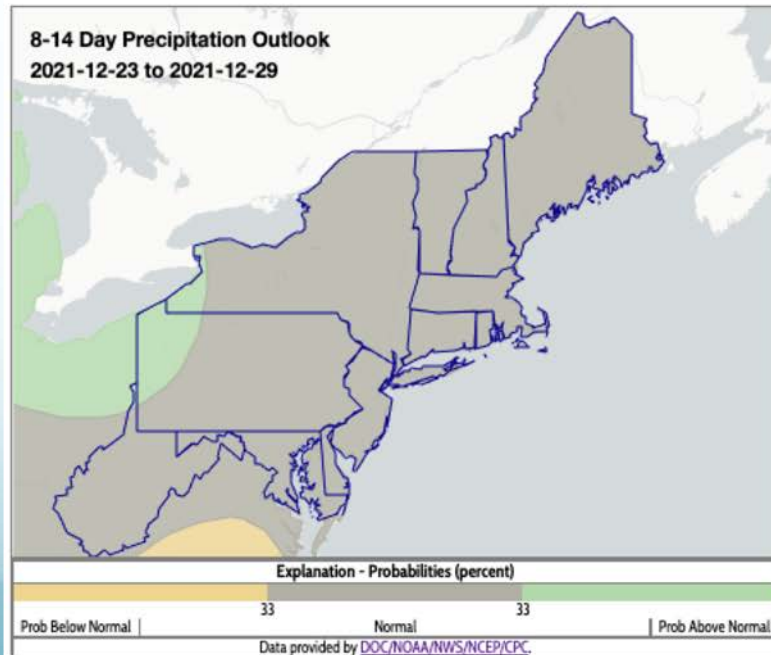
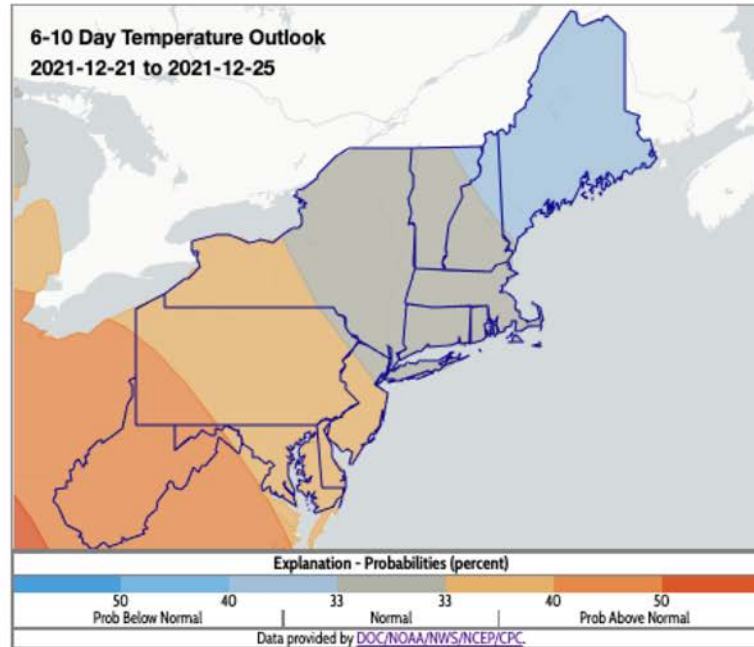
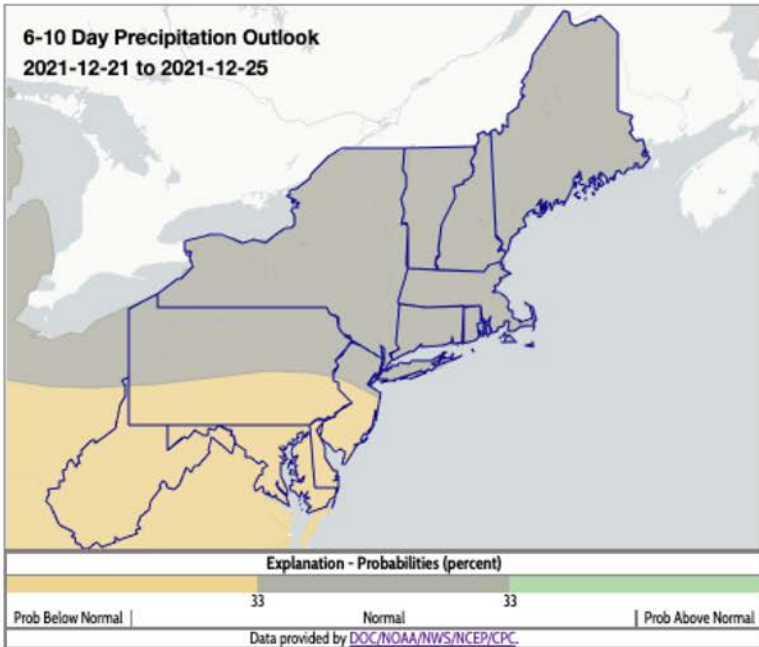
Groundwater



Precipitation Forecast



Short-term Outlooks

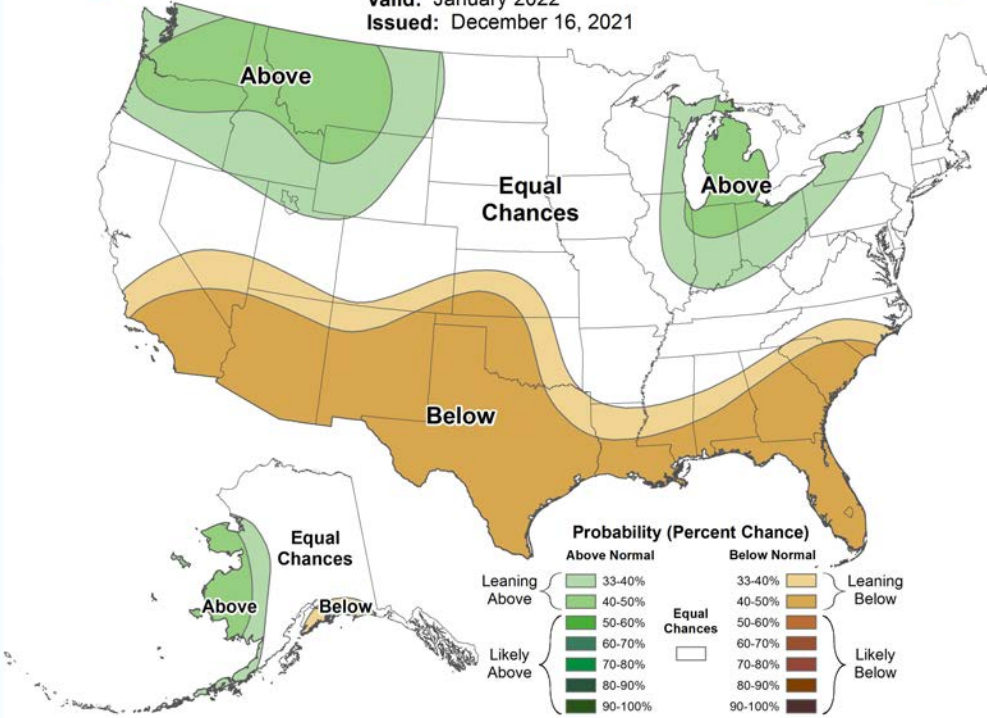




Monthly Precipitation Outlook



Valid: January 2022
Issued: December 16, 2021



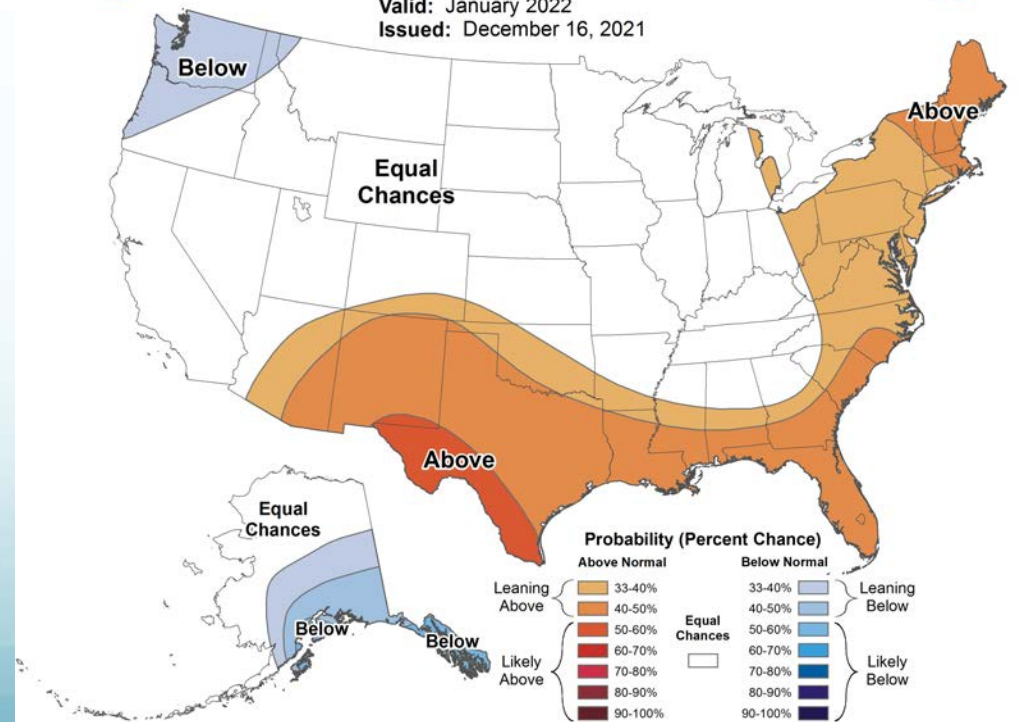
Monthly Outlooks



Monthly Temperature Outlook



Valid: January 2022
Issued: December 16, 2021

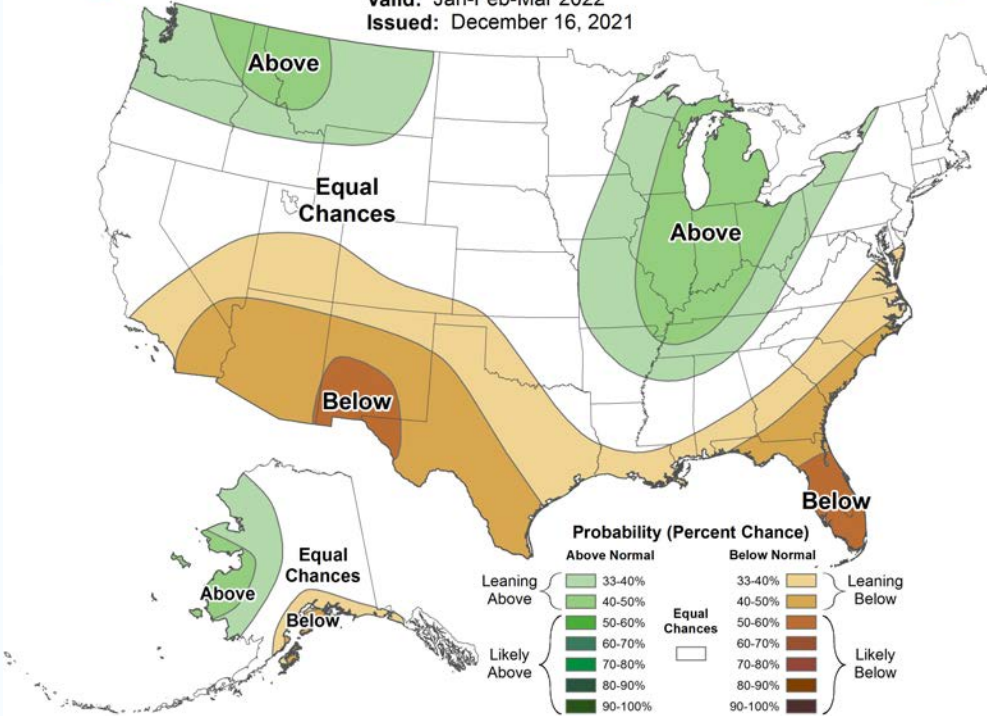




Seasonal Precipitation Outlook



Valid: Jan-Feb-Mar 2022
Issued: December 16, 2021



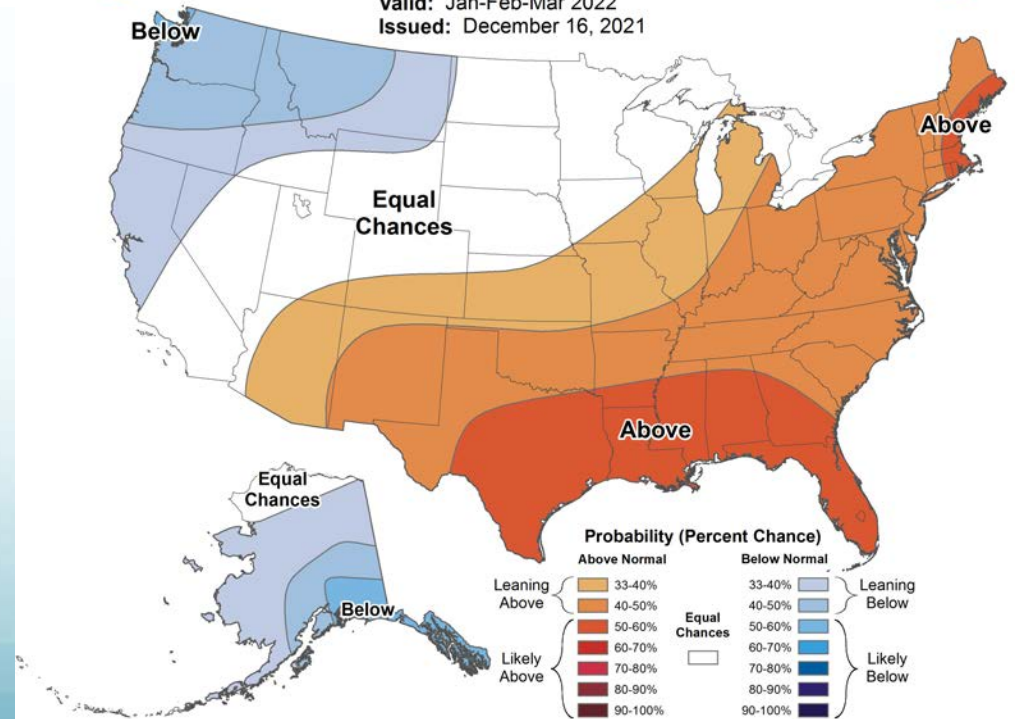
Three-Month Outlooks



Seasonal Temperature Outlook



Valid: Jan-Feb-Mar 2022
Issued: December 16, 2021



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, January 27 at 9:30am
 - NOAA Fisheries Northeast/Mid-Atlantic Habitat Climate Vulnerability Assessment
- Thursday, February 24 at 9:30am
 - Northeast U.S. Snow Survey and SWE Climatology
- Thursday, March 31 at 9:30am
 - Spring Flood Outlook



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