January Review & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center
January Temperatures

From 6°F to 12°F above normal
January Temperatures
January Precipitation

Percent of Normal Precipitation (%)
January 1-30, 2023

From 25% of normal to more than 200% of normal
January Snowfall

From more than 24” below normal to more than 12” above normal
## January Snowfall

<table>
<thead>
<tr>
<th>Location</th>
<th>Average Date of First Measurable Snow*</th>
<th>Record Latest</th>
<th>Rank as of Jan. 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kennedy Airport, NY</td>
<td>Dec. 9</td>
<td>Jan. 29</td>
<td>latest</td>
</tr>
<tr>
<td>Central Park, NY</td>
<td>Dec. 13</td>
<td>Jan. 29</td>
<td>latest</td>
</tr>
<tr>
<td>Baltimore, MD</td>
<td>Dec. 16</td>
<td>Feb. 21</td>
<td>3rd latest</td>
</tr>
<tr>
<td>Dulles Airport, VA</td>
<td>Dec. 17</td>
<td>Jan. 27</td>
<td>latest</td>
</tr>
<tr>
<td>Wilmington, DE</td>
<td>Dec. 17</td>
<td>Feb. 16</td>
<td>3rd latest</td>
</tr>
<tr>
<td>Philadelphia, PA</td>
<td>Dec. 19</td>
<td>Feb. 3</td>
<td>2nd latest</td>
</tr>
<tr>
<td>Washington, DC</td>
<td>Dec. 22</td>
<td>Feb. 23</td>
<td>5th latest</td>
</tr>
<tr>
<td>Atlantic City, NJ</td>
<td>Dec. 23</td>
<td>Feb. 16</td>
<td>4th latest</td>
</tr>
</tbody>
</table>

*based on 1991-2020
Drought Monitor

U.S. Drought Monitor
Northeast

December 27, 2022
(Released Thursday, Dec. 29, 2022)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

<table>
<thead>
<tr>
<th>Intensity</th>
<th>Current</th>
<th>Last Week</th>
<th>3 Months Ago</th>
<th>Start of Calendar Year 9/8/2022</th>
<th>Start of Water Year 9/8/2022</th>
<th>One Year Ago 9/8/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>90.46</td>
<td>90.77</td>
<td>91.11</td>
<td>91.32</td>
<td>91.70</td>
<td>91.95</td>
</tr>
<tr>
<td>D1 Moderate Drought</td>
<td>4.44</td>
<td>4.90</td>
<td>5.70</td>
<td>5.65</td>
<td>5.85</td>
<td>6.05</td>
</tr>
<tr>
<td>D2 Severe Drought</td>
<td>5.10</td>
<td>5.33</td>
<td>3.17</td>
<td>3.05</td>
<td>3.00</td>
<td>3.00</td>
</tr>
<tr>
<td>D3 Extreme Drought</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Intensity:
- None
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought

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

Author:
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droughtmonitor.unl.edu

U.S. Drought Monitor
Northeast

January 24, 2023
(Released Thursday, Jan. 26, 2023)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

<table>
<thead>
<tr>
<th>Intensity</th>
<th>Current</th>
<th>Last Week</th>
<th>3 Months Ago</th>
<th>Start of Calendar Year 9/8/2022</th>
<th>Start of Water Year 9/8/2022</th>
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</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>95.30</td>
<td>95.30</td>
<td>95.64</td>
<td>95.96</td>
<td>96.19</td>
<td>96.35</td>
</tr>
<tr>
<td>D1 Moderate Drought</td>
<td>4.22</td>
<td>4.57</td>
<td>4.58</td>
<td>4.58</td>
<td>4.58</td>
<td>4.58</td>
</tr>
<tr>
<td>D2 Severe Drought</td>
<td>0.48</td>
<td>0.50</td>
<td>0.50</td>
<td>0.50</td>
<td>0.50</td>
<td>0.50</td>
</tr>
<tr>
<td>D3 Extreme Drought</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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- D1 Moderate Drought
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Author:
Rocky Blixta
NCE-VOA

droughtmonitor.unl.edu
Precipitation

Percent of Normal Precipitation
January 1-30, 2023

Percent of Normal Precipitation
December 2, 2022 - January 30, 2023

Percent of Normal Precipitation
November 2, 2022 - January 30, 2023

Percent of Normal Precipitation
July 31, 2022 - January 30, 2023
Standardized Precipitation Index
Streamflow

28-Day Streamflow

Explanation - Percentile Classes

<table>
<thead>
<tr>
<th>Low</th>
<th>Much below normal</th>
<th>Below normal</th>
<th>Normal</th>
<th>Above normal</th>
<th>Much above normal</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;10%</td>
<td>10-24%</td>
<td>25-75%</td>
<td>76-90%</td>
<td>&gt;90%</td>
<td></td>
</tr>
</tbody>
</table>

Data provided by [USGS WaterWatch - Streamflow](https://waterwatch.usgs.gov); updated 2023-01-31.
Groundwater

Groundwater Status

Explanation - Percentile Classes

<table>
<thead>
<tr>
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Data provided by [USGS Groundwater - About this map](https://www.usgs.gov); updated 2023-01-31.
Snow Water Equivalent for January 15-19, 2023

http://www.nrcc.cornell.edu/regional/snowsurvey/snowsurvey.html


Updated: January 18, 2023
Monthly & 3-Month Outlooks
Summary

January-to-date conditions:
• Well-above-normal temperatures – top 5 warmest likely for some sites
• Above-normal precipitation and below-normal snowfall for most areas – record late measurable snowfall for a few sites

Drought:
• Wetter weather eased dryness in most of New England
• Abnormal dryness introduced in parts of West Virginia and Maryland that were drier

Outlooks:
• Short-term: above-normal precipitation and above-normal temperatures favored for most areas
• February/Feb-Apr: above-normal precipitation favored for interior areas and above-normal temperatures favored for all
Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Tuesday, February 28 at 9:30am EST
  - Climate Projections and Downscaling

- Thursday, March 30 at 9:30am EST
  - Spring Flood Outlook

- Thursday, April 27 at 9:30am EST
  - TBD

www.nrcc.cornell.edu