Streamflow and Groundwater Conditions in Massachusetts

August 5, 2021

R.J. Verdi
U.S. Geological Survey
New England Water Science Center
Average Streamflow Conditions – Feb-May 2020

Explanation - Percentile classes

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

USGS science for a changing world
Average Streamflow Conditions – March-May 2021

Explanation - Percentile classes

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

Average Streamflow Conditions – June-July 2021

Explanation - Percentile classes

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

USGS
7-Day Avg. – Ipswich River – Northeastern MA

USGS 01102000 IPSWICH RIVER NEAR IPSWICH, MA
(Drainage area: 125 square miles, length of record: 89 - 90 years)

7-day average discharge, in cubic feet per second

2017 2018 2019 2020 2021

Explanation - Percentile classes

- Lowest-10th percentile
- 10-24
- 25-75
- 76-90
- 95
- 90th percentile - highest

Flow

Last updated: 2021-08-05
7-Day Avg. – Quaboag River – Central MA
7-Day Avg. – Housatonic River – Western MA

USGS 01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA
(Drainage area: 282 square miles, length of record: 106 - 107 years)

7-day average discharge, in cubic feet per second

Explanation - Percentile classes

<table>
<thead>
<tr>
<th>Percentile Level</th>
<th>5</th>
<th>10-24</th>
<th>25-75</th>
<th>76-90</th>
<th>95</th>
<th>90th percentile - highest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Much below Normal</td>
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Last updated: 2021-08-05
Groundwater Conditions – July 2021

Data for Jul 2021
Map generated on 2021-08-02
RT GW Conditions – Today, August 5, 2021

[Map of Massachusetts and surrounding areas showing groundwater conditions with percentile classes explained in a table below the map.]
Period of Record

All data
July 1959 – present

Continuous data
Oct. 1984 - present
Period of Record

All data
Dec. 1964 – present

Continuous data
Aug. 2001 - present
Period of Record

All data
Jan. 1984 – present

Continuous data
May 2012 - present
Period of Record

All data
Aug. 1963 – present

Continuous data
Oct. 1984 - present
Period of Record

All data
Nov. 29, 1962 – present

Continuous data
May 19, 2012 – present
Period of Record

All data
Dec. 16, 1976 – present

Continuous data
May 14, 2019 - present
Questions