April 7 to May 6 2012 Precipitation

Precipitation (in)
4/7/2012 - 5/6/2012

Generated 5/7/2012 at HPRCC using provisional data.
Regional Climate Centers
Precipitation

<table>
<thead>
<tr>
<th>Region</th>
<th>Percent</th>
<th>Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest</td>
<td>50</td>
<td>10.15</td>
</tr>
<tr>
<td>Northeast</td>
<td>63</td>
<td>9.75</td>
</tr>
<tr>
<td>Central West</td>
<td>56</td>
<td>9.76</td>
</tr>
<tr>
<td>Central East</td>
<td>60</td>
<td>9.37</td>
</tr>
<tr>
<td>Eastern</td>
<td>45</td>
<td>10.50</td>
</tr>
<tr>
<td>Southern</td>
<td>51</td>
<td>10.58</td>
</tr>
<tr>
<td>New Shoreham</td>
<td>51</td>
<td>10.58</td>
</tr>
</tbody>
</table>

DROUGHT ADVISORY CRITERIA:
2 month cumulative below 65% of normal
• Rainfall totals 5-6 inches
• Deficits 6-7 inches
• MEETS DROUGHT ADVISORY CRITERIA
STREAMFLOW

DROUGHT ADVISORY CRITERIA:
3 Months below Normal

- Three months below normal through 4/30/12
- Temporary improvement with the rain late April/early May
- MEETS THE DROUGHT ADVISORY CRITERIA
Streamflow

USGS 0117500 PAWCATUCK RIVER AT WOOD RIVER JUNCTION, RI

Discharge, cubic feet per second

50  100  150  200  250  300  350  400  450  500
Dec 01  Jan 01  Feb 01  Mar 01  Apr 01  May 01  2011  2012  2012

--- Provisional Data Subject to Revision ---

△ Median daily statistic (68 years) — Discharge
Streamflow

Duration hydrograph of daily average streamflow for USGS 01117500
(Drainage Area: 100 square miles, Length of Record: 69 years)

Explaination - Percentile Classes

<table>
<thead>
<tr>
<th>Flow</th>
<th>Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Much below normal</td>
<td>10-24</td>
</tr>
<tr>
<td>Below normal</td>
<td>25-75</td>
</tr>
<tr>
<td>Normal</td>
<td>76-90</td>
</tr>
<tr>
<td>Much above normal</td>
<td>90th percentile highest</td>
</tr>
</tbody>
</table>

Last updated: 2012-05-03
DROUGHT ADVISORY CRITERIA
2 of 3 Months below normal

Temporary improvement with the rain late April/early May

MEETS THE DROUGHT ADVISORY CRITERIA
Groundwater

USGS 412918071321001 RI-SNW  6 SOUTH KINGSTOWN, RI

--- Provisional Data Subject to Revision ---

- Median daily statistic (18 years)  
- Daily mean depth to water level
DROUGHT ADVISORY CRITERIA:
-2.0 to -2.99 (moderate drought)

April PDI is Normal (mid-range -1.99 to +1.99)

DOES NOT MEET THE DROUGHT ADVISORY CRITERIA
April 7 to May 6 2012 Precipitation

Precipitation (in)
4/7/2012 - 5/6/2012

Generated 5/7/2012 at HPRCC using provisional data.
Regional Climate Centers
April 30th through May 6th
Total Precipitation

<table>
<thead>
<tr>
<th>Location</th>
<th>Month to Date</th>
<th>Departure</th>
<th>Monthly Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providence</td>
<td>0.80”</td>
<td>+0.11”</td>
<td>3.55”</td>
</tr>
<tr>
<td>Kingstown</td>
<td>0.90”</td>
<td>+0.12”</td>
<td>3.95”</td>
</tr>
</tbody>
</table>
Showers likely Tuesday through Thursday with heaviest rainfall Tuesday night and Wednesday night.

Showers end Thursday morning with high pressure building in from the west.
CPC 8-14 Day Outlook (May 14-20)

Temperature

Precipitation
CPC Outlook for May-July

Temperature

Precipitation
Indicators Summary

- Meet 3 of the 4 criteria for a Drought Advisory as of 4/30. 3 of 4 required to issue advisory
- Cooler wetter weather at the end of April into the first week of May brought signs of improvement—only time will tell whether they are permanent
- No advisories as of May 7 in CT or MA but MA is considering Advisories in two regions
Other Indicators And Impacts

WATER SUPPLY
- Surface Water
- Groundwater

AGRICULTURE

FIRE DANGER

ENVIRONMENT
- Impacts to date
- Future concerns

Crop Moisture Index by Division
Weekly Value for Period Ending APR 28, 2012
Short Term Need vs. Available Water in a Shallow Soil Profile

-3.0 or less (Severely Dry)
-2.0 to -2.9 (Excessively Dry)
-1.0 to -1.9 (Abnormally Dry)
-0.9 to +0.9 (Slightly Dry/Favorably Moist)
+0.0 to +1.9 (Abnormally Moist)
+2.0 to +2.9 (Wet)
+3.0 and above (Excessively Wet)
Francis Carter Dried Basin
Photo from Peter Payton
Drought Level Considerations

- The magnitude of the precipitation deficit
- Streamflow and groundwater have improved slightly overall but remain below normal
- Streamflow and precipitation indices could reach Watch levels by June if May receives below normal precipitation
- Forecasts for temperature and precipitation
- Recent rain and temperatures may indicate improvement-only time will tell
- Public perception
Committee Recommendation

- WRB staff continues to monitor conditions and will provide an update report via email to the Committee in two weeks
- Reconvene the second week of June