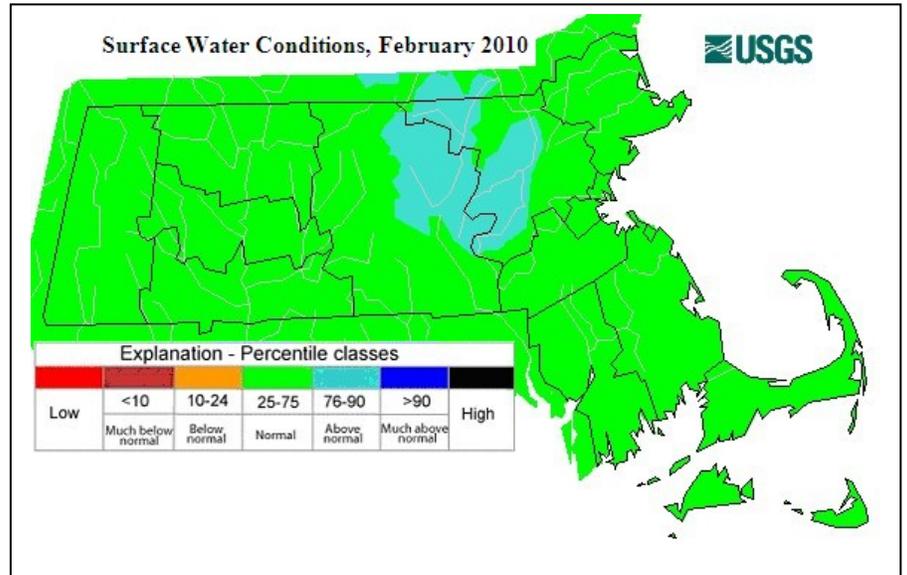




## Streamflow

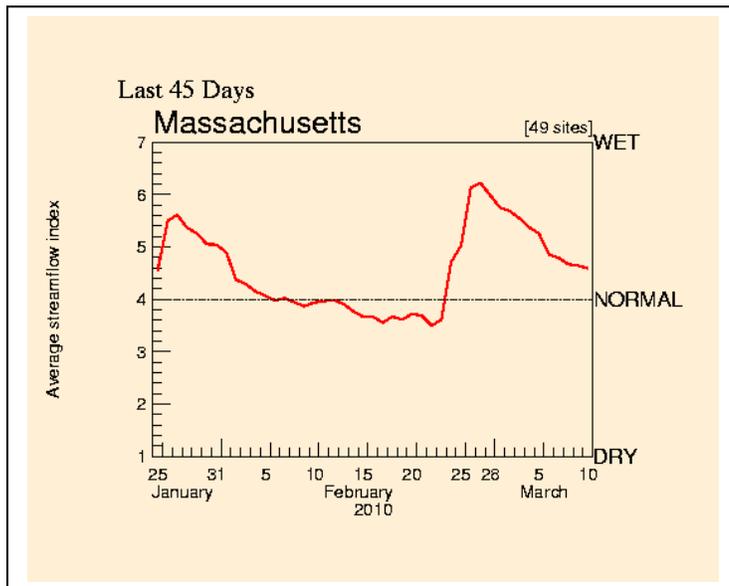
During February 2010 streamflows that are monitored by the Commonwealth of Massachusetts and United States Geological Survey (USGS) cooperative stream gaging program were generally normal (green areas on map). The exceptions were the Nashua, Concord, Sudbury, and Assabet River basins in north central MA (light blue areas on map) which were above normal mainly as a result of very high flows and minor flooding resulting from an end of the month storm. As shown in a table at the end of this report the USGS has listed the drought regions of Massachusetts as having normal surface-water conditions for February.



The graph below depicts a composite daily streamflow relative to normal streamflow for Massachusetts for the period of January 24, 2010 to March 10, 2010. Slowly declining, near normal, flows during most of February rose sharply on the 23<sup>rd</sup> as a result of a 5-day snow/rain event that impacted the entire State. The graph is a composite of 49 real-time gages across the state with a long period of record.

Additional information on streamflow is available from the USGS web page:

[http://ma.water.usgs.gov/water/water\\_s.htm](http://ma.water.usgs.gov/water/water_s.htm)



### KEY:

- 1 = New record low for day
- 2 = < 10<sup>th</sup> percentile
- 3 = 10<sup>th</sup> – 24<sup>th</sup> percentile
- 4 = 25<sup>th</sup> – 74<sup>th</sup> percentile
- 5 = 75<sup>th</sup> – 89<sup>th</sup> percentile
- 6 = ≥ 90<sup>th</sup> percentile
- 7 = New record high for day

## Water Supply Reservoir Levels

Surface water reservoir percent-full values for water supply sources provided by water suppliers are listed below. The reservoir percent-full values listed are for the end of February and are reported to be generally above-normal for this time of year.

### February / March 2010 Massachusetts Reservoir Status

Reservoir/City or Town	Percent Full	Reservoir/City or Town	Percent Full
Quabbin	98	Beverly/Salem	99.5
Worcester	102.5	Lynn	79.4
Cobble Mt./ Springfield	92	Taunton/New Bedford/Assawompsett	108.6

Note: NA Indicates data not available for this report

## Drought Indices/Forecasts

### US Drought Monitor

The National Drought Mitigation Center's (NDMC's) March 9, 2010, Drought Monitor Map shown at right indicates no drought conditions in Massachusetts or New England.

### Standardized Precipitation Index

The Western Regional Climate Center's (Desert Research Institute, University and Community College System of Nevada) 1-, 3-, 6-, and 12-Month Standardized Precipitation Index across Massachusetts at the end of February ranged from normal/ to very wet.

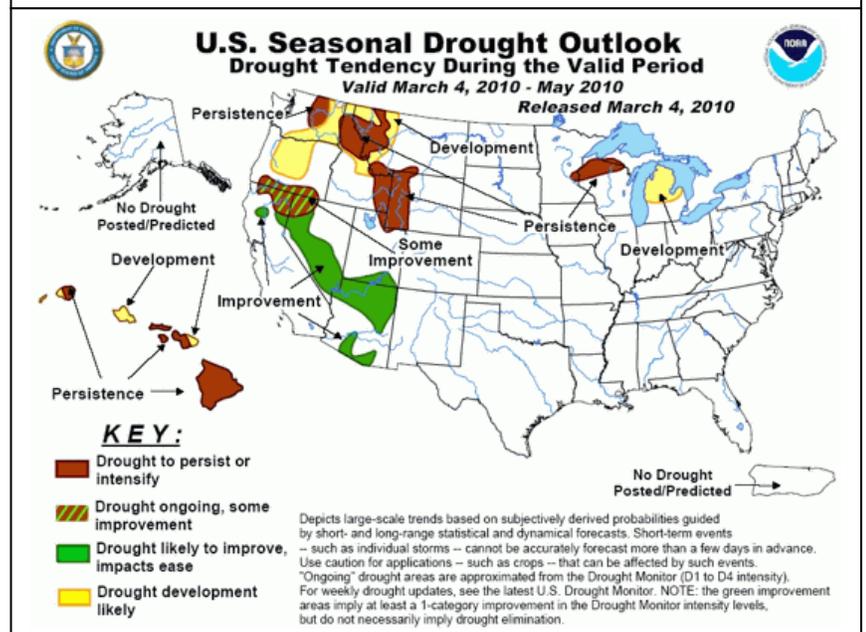
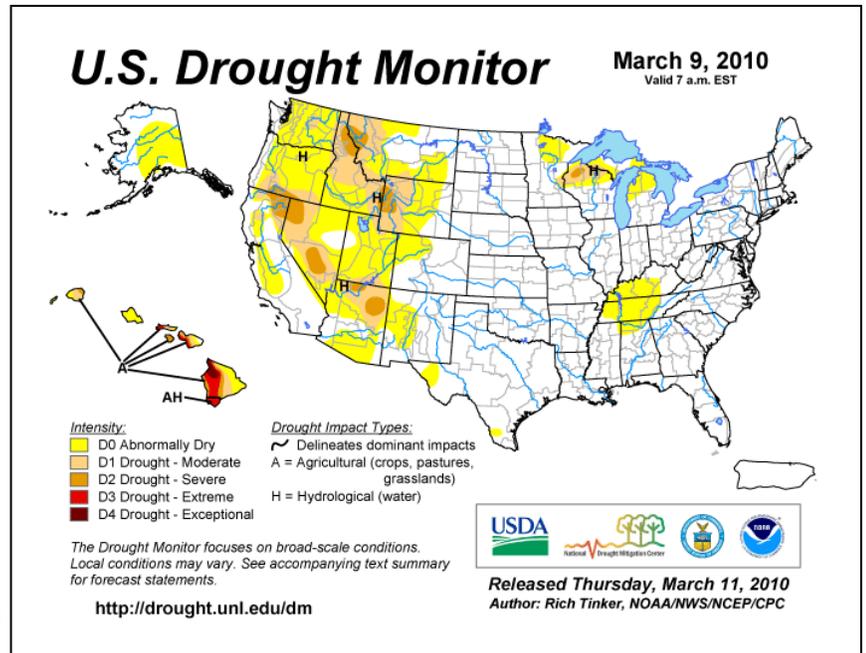
### NWS/NOAA's Climate Prediction Center

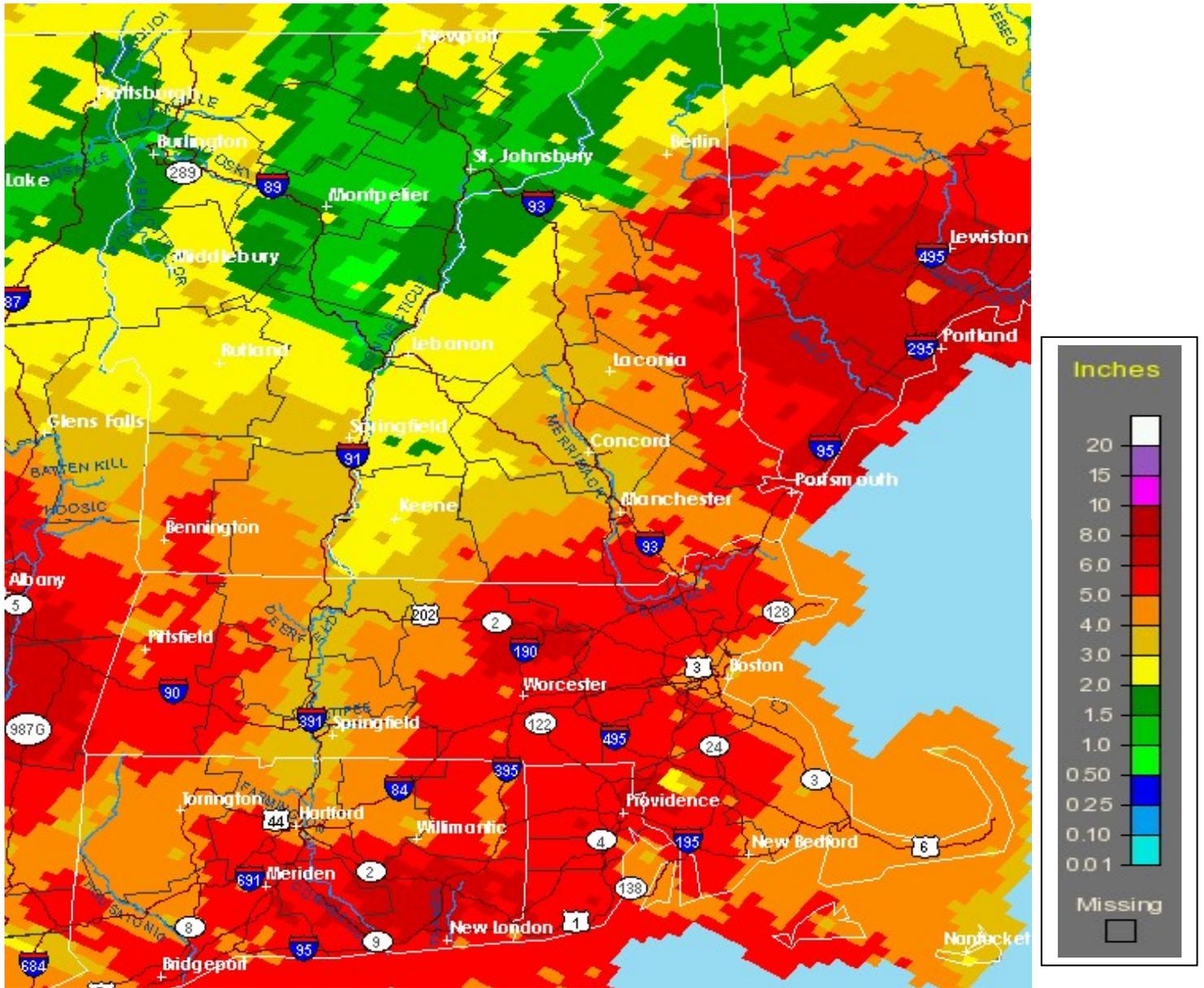
The U.S. Seasonal Drought Outlook dated March 4, 2010, predicts no tendency for drought conditions to develop in Massachusetts through May 2010.

### Extended Forecasts

Starting Thursday we are in for an extended period of wet weather. Generally, there will be scattered showers through early Saturday. The NWS forecast for Saturday and Sunday is for generally 2 to 3- and slight possibility of 4- inches of rain in some locations. Depending on location of maximum rainfall there is a slight possibility of some flooding. There is also a slight possibility that interior-high-elevation sections of the Berkshires may experience freezing rain. The storm moves away late Monday with much nicer weather predicted for mid week. The National Weather Service Climate Prediction Center's extended 6 to 10- day forecast predicts normal precipitation and above normal temperatures. The 8 to 14-day forecast predicts above normal precipitation and temperatures. The 1- and 3-month forecast is for normal precipitation and temperature. The NWS Climate Prediction Information can be found at:

<http://www.cpc.noaa.gov/index.php>





[http://www.srh.noaa.gov/rfcshare/precip\\_analysis\\_new.php](http://www.srh.noaa.gov/rfcshare/precip_analysis_new.php)

**TOTAL RAINFALL  
FEBRUARY 2010**



**GENERAL WATER CONDITIONS IN MASSACHUSETTS - FEBRUARY 2010**  
**EOEEA and MEMA DROUGHT MANAGEMENT PLAN REGIONS**

<b>Massachusetts Regions</b>	<b>Surface-Water Conditions</b>	<b>Ground-Water Conditions</b>
Cape and Islands	Normal	Above Normal
Southeast	Normal	Normal
Northeast	Normal	Normal
Central	Normal	Normal
Connecticut River	Normal	Normal
Western	Normal	Normal

**Note:** Surface- and ground-water conditions for individual streamflow-gaging stations and wells may differ from general conditions.

**Weather Ramblings --- CoCoRaHS**

Last year a volunteer web based rainfall reporting network began here in MA. Presently there are about 12-16 stations statewide that are faithfully reporting every day and an additional 12 that report almost every day. Everywhere in the country, CoCoRaHS data are being looked at and used each and every day. One of the users is NOAA's Meteorological Assimilation Data Ingest System (/MADIS/) <<http://madis.noaa.gov/>> They pull data from network server each and every hour every hour of the day and night to get all the latest reports.

Many of the National Weather Service River Forecast Centers are grabbing the CoCoRAS reports every morning to help update their projections of streamflow and possible flooding. Local National Weather Service Forecast Offices are getting CoCoRaHS data and using them to help with forecasts, local storm warnings, forecast verifications and local climatology. Agribusinesses are examining CoCoRaHS data to improve their assessments of potential crop predictions. This is only the tip of the iceberg when it comes to who is using the data. TV stations, newspapers, school teachers, water utilities -- the list goes on. Check out the maps that show how much rainfall or snowfall was reported for the previous day, or where the stations are located, and much more at <http://cocorahs.org/>.

**\*How can I participate?\***

If you or a friend are interested in participating as an observer go to the web site at <http://cocorahs.org/> and check it out. They have slide shows that show you how to collect data, maps that show how much rainfall or snowfall was reported for the previous day, or where the stations are located, and much more.

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This report was prepared by the Massachusetts Department of Conservation and Recreation. Data were obtained from the sources described in the report and June be preliminary in nature. Additional information, previous and future water conditions reports can be found on our web site: <http://www.mass.gov/dcr/watersupply/rainfall/>