

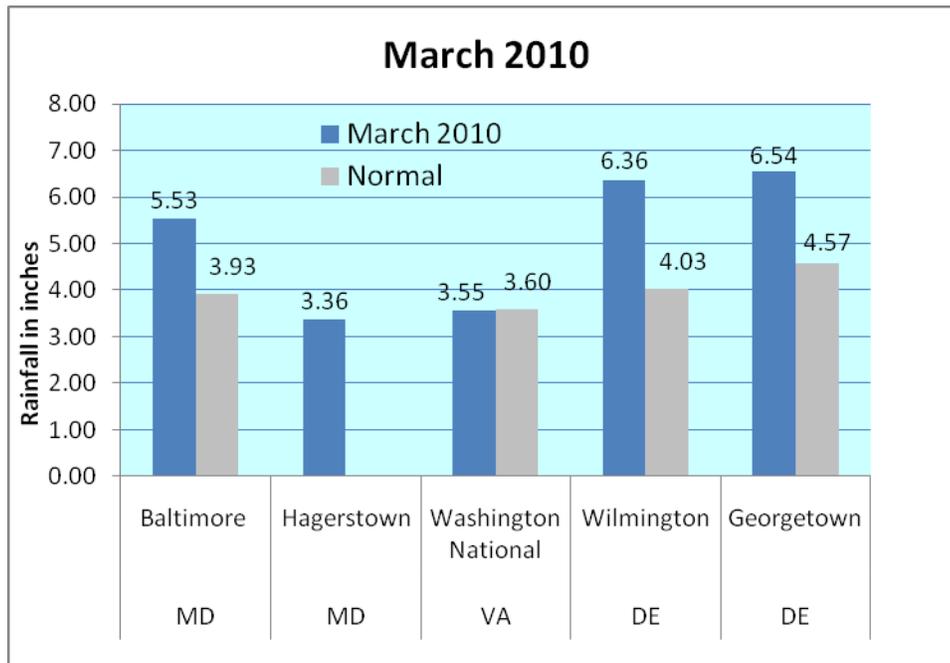
## March 2010 USGS Maryland-Delaware-DC Water Conditions Summary

Streamflow and groundwater levels in Maryland, Delaware, and the District of Columbia were predominantly above normal in March and some set new monthly record highs. In the streams and wells used by the U.S. Geological Survey (USGS) to assess response to climatic conditions in Maryland, Delaware, and the District of Columbia in March, water levels were above normal in 28 of the 29 streams, with one new record high, and groundwater levels were above normal in 20 of the 26 wells, with 5 monthly record highs.

### Precipitation

March rainfall was more than 1.5 inches above normal in Baltimore, Maryland, and Delaware. Temperatures in March were above normal across the region, with the highest being 7.7 degrees Fahrenheit at the weather station in Wilmington, Delaware. Rainfall was below normal in western Maryland and the District of Columbia in March, according to the National Weather Service. However, the western Maryland region received over 260 inches of snow during the winter, leaving an abundance of water in storage from the snowmelt. The Hagerstown weather station does not have enough record to calculate statistics and therefore there is no 'normal' on the graph.

The Delmarva Peninsula, including Maryland and Delaware, rainfall was more than 2 inches above normal for March. For the last 365 days, departures from normal precipitation were in the normal range.



Sources: National Weather Service

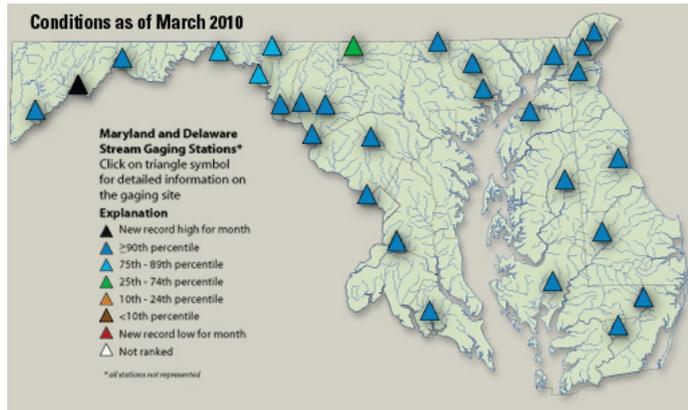
MD and DC: <http://www.weather.gov/climate/index.php?wfo=lwx>

DE: <http://www.erh.noaa.gov/phi/>

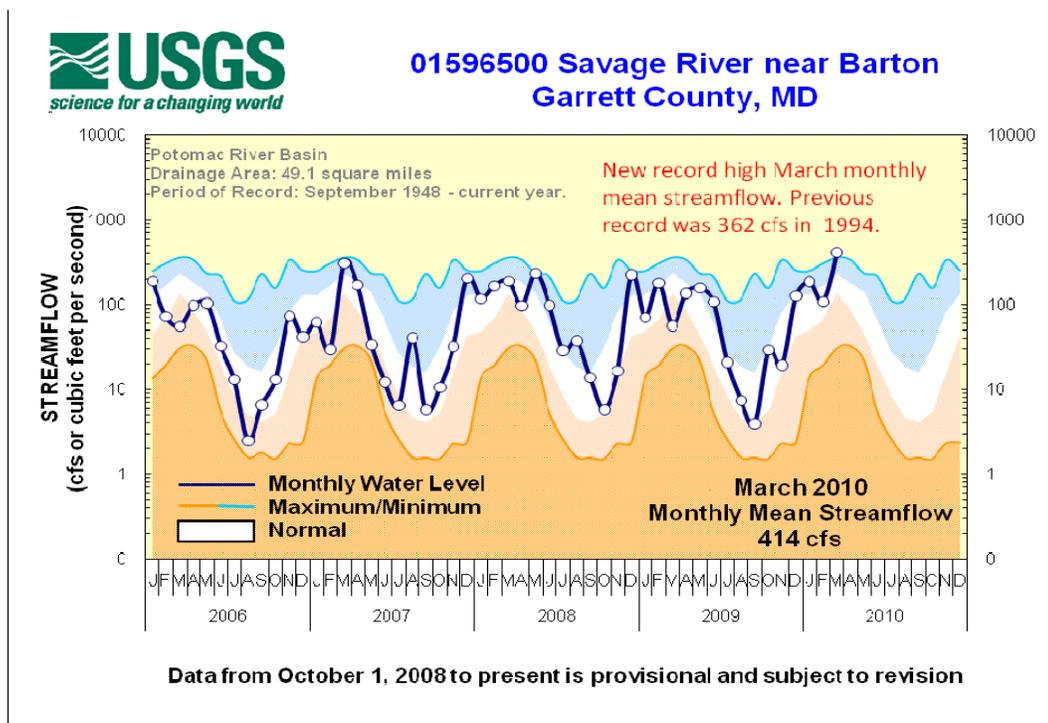
Middle Atlantic River Forecast Center (MARFC): <http://www.erh.noaa.gov/marfc/Maps/precip.html>

## Streamflow

Monthly mean streamflow was above normal in 28 of the 29 USGS streamflow stations used to assess climatic conditions in Maryland, Delaware, and the District of Columbia. Streamflow on the Savage River set a new high for March. Only one site in Frederick County was at normal levels.



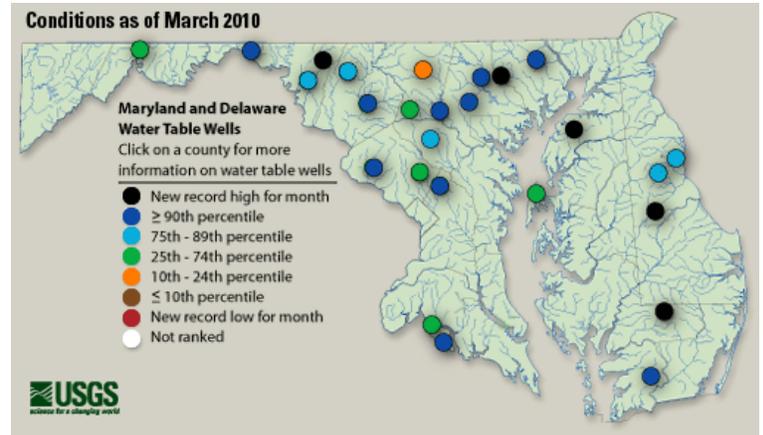
Monthly mean streamflow on the Savage River set a new March record at 414 cubic feet per second (cfs). Snowmelt contributed to the high flows. The previous monthly mean record for March was 362 cfs in 1994. Data collection began in 1948 at this site. The dark line in the 5-year hydrograph represents the current flow and the white band shows the normal range based on the period of record.



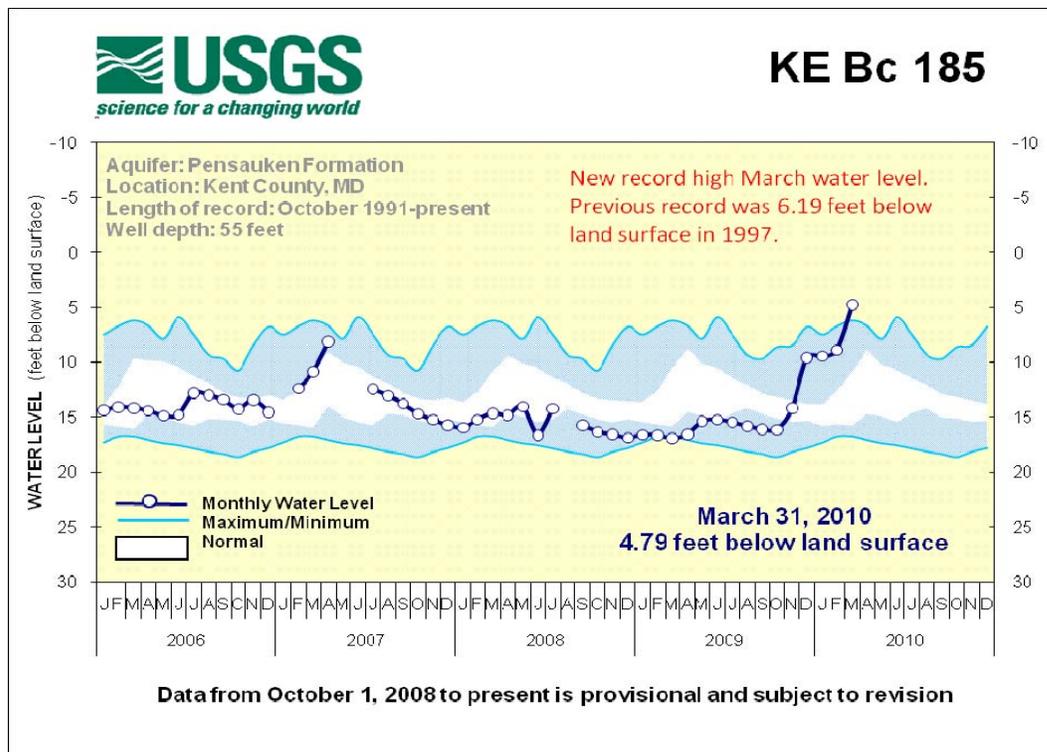
Five-year hydrographs can be viewed at: <http://md.water.usgs.gov/surfacewater/streamflow/>

## Groundwater

For wells used by the USGS to assess climatic conditions in March, groundwater levels were at record highs at 4 wells in Harford, Kent, Washington, and Wicomico Counties in Maryland, and one in Kent County, Delaware. Water levels in another 12 wells were above the 90<sup>th</sup> percentile. Only one well in Carroll County, was below normal and the remaining 5 of the 26 wells were normal.



The groundwater level in well KE Bc 185 in Kent County, Maryland set a record high level for March at 4.79 feet below land surface. The previous March record was 1.4 feet lower at 6.19 feet below land surface. Record keeping began in 1991 at this well. The 5-year hydrograph shows the water level as a dark line and normal range (between the 25<sup>th</sup> and 75<sup>th</sup> percentiles) as a white band.



Five-year groundwater hydrographs can be viewed at:  
[http://md.water.usgs.gov/groundwater/web\\_wells/current/water\\_table/counties](http://md.water.usgs.gov/groundwater/web_wells/current/water_table/counties)

## Reservoir Levels

Storage in the Baltimore reservoirs (Loch Raven, Liberty, and Prettyboy) was 100% of available storage, with 75.85 billion gallons in available storage at the end of March 2010.

The Triadelphia and Duckett Reservoirs, which serve Montgomery and Prince George's Counties, was at 100% of normal capacity with 10.89 billion gallons at the end of March 2010.

March 2010	Percent available /normal storage	Volume (billion gallons)	Source
<b>Baltimore Reservoirs</b>			<b>Baltimore City</b>
Loch Raven	100%	21.20	
Liberty	100%	36.80	
Prettyboy	100%	17.85	
<b>Total</b>	<b>100%</b>	<b>75.85</b>	
<b>Patuxent Reservoirs</b>			<b>Washington Suburban Sanitary Commission (WSSC)</b>
Triadelphia	100%	5.79	
Duckett	100%	5.10	
<b>Total</b>	<b>100%</b>	<b>10.89</b>	