WATER RESOURCES BOARD INTER-OFFICE MEMO

To: Kathleen Crawley, Acting General Manager From: Beverly O'Keefe, Supervising Planner

Date: April 25, 2005

Subject: Drought Update: Current Conditions

BACKGROUND

Pursuant to State Guide Plan Element 724: The Rhode Island Drought Management Plan, the Water Resources Board is required to assess water conditions monthly. The NOAA National Weather Service reports precipitation through March was above normal (see Attachment A). The **USGS Water Conditions Statement** reports groundwater conditions throughout southeastern Rhode Island ending March was generally **above normal**. Water levels in the rest of Rhode Island were generally normal (see map, Attachment B). The U.S. Geological Survey January 2005 Water Conditions Statements marked one new high ground water level in Rhode Island (Portsmouth 551). There were no new low ground water levels identified in Rhode Island (Attachment B). Surface water flows at the end of March 2005 were generally normal for Rhode Island. During the week of March 28, heavy precipitation ranging from 2 to 4 inches across Rhode Island, increased stream flows significantly and continuing into early April The Scituate Reservoir on April 22, 2005 was measured at 284.68FEET (102.1 % of capacity). The NOAA Drought Severity Index value for Rhode Island, period ending 16 Apr 2005, shows an unusual moist spell.

DISCUSSION

Water conditions for Rhode Island are generally above normal during the month of March. Staff will continue to provide information updates to the Drought Steering Committee.

RECOMMENDATIONS: Information only.

ATTACHMENT A: NOAA NWS RI Climate Report (see page 2, and

http://www.erh.noaa.gov/box/fcsts/BOSCLIPVD.html

ATTACHMENT B: USGS March 2005 Water Conditions Statement

http://ma.water.usgs.gov/water const/water conditions 200503.htm

http://ma.water.usgs.gov/current_cond/cwrc_gw.htm

ATTACHMENT C: NOAA NCEP Palmer Drought Severity Index

http://www.cpc.ncep.noaa.gov/products/analysis monitoring/regional monitoring/palmer.gif

Rhode Island Precipitation National Weather Service Taunton, MA

Preliminary Precipitation Data Past 12 months ending March 2005

RI 1 month March 2005 KENT BRISTOL NEWPORT PROVIDENCE WASHINGTON	Rainfall 4.90 4.86 4.86 4.39 4.27	0.58 0.58 -0.13	Percent 114 114 114 97 101	Normal	4.44 4.44 4.44 4.48 4.4
RI 2 month Feb-Mar 05 KENT BRISTOL NEWPORT PROVIDENCE WASHINGTON	Rainfall 9.04 9.08 9.08 9.51 7.97	0.36 0.36 0.51	Percent 104 104 104 106 92	Normal	8.72 8.72 8.72 9.00 8.64
RI 3 month Jan-Mar 05 KENT BRISTOL NEWPORT PROVIDENCE WASHINGTON	Rainfall 11.17 12.07 12.07 11.30 10.11	-0.45 -0.45	Percent 89 96 96 88 82	Normal	12.52 12.52 12.52 12.84 12.40
RI 6 month Oct 04-Mar 05 KENT BRISTOL NEWPORT PROVIDENCE WASHINGTON	Rainfall 27.55 28.46 28.46 27.97 25.06	5.64 5.64 3.00	Percent 118 125 125 112 110	Normal	23.29 22.82 22.82 24.97 22.75
RI 12 month Apr 04- Mar 05 KENT BRISTOL NEWPORT PROVIDENCE WASHINGTON	Rainfall 44.66 45.00 45.00 46.85 42.68	-0.42 -0.42 -0.86	Percent 97 99 99 98 95	Normal	45.89 45.42 45.42 47.71 44.95
December to date at T. F Rainfall Depa	. Green St arture +1.27	ate Airport: Percent	Through 1	am 4/6/2005 Normal	0.75