RHODE ISLAND DROUGHT MANAGEMENT Regional Drought Analysis through January, 2008

Statewide Current Conditions	#1 Palmer -1.00 to -1.99 Near Normal	Crop Moisture +1.00 to +1.99 Abnormally Moist	#2 Precipitation 6 months cumulative in Eastern, Central East, Southern & New Shoreham regions	#3 Groundwater – 29 gages Below Normal 5 months – 5 gages 6 months – 4 gages 7 months – 4 gages 8 months – 15 gages	#4 Streamflow – 17 gages Below normal 7 months - 3 gages 8 months – 11 gages 9 months – 3 gages Hunt River (8), Mossasuck	Reservoirs Scituate – 77% Aquidneck Island – 69% Jamestown – +24 inches Cumberland - +14 inches Woonsocket - +42 inches
				9 months - 1 gage	River (15), & Peeptoad Brook (24)	Pawtucket – 65% (up from 48%)

RHODE ISLAND DROUGHT INDICES AND PHASES Prepared for the Drought Steering Committee Meeting February 14, 2008

Drought Phase	Palmer Drought Index+	Crop Moisture Index*	Precipitation +	Ground Water**	Streamflow +	Reservoirs**
Normal	-1.0 to -1.99	0.0 to -1.0 Slightly Dry	1 month below normal	1 month below normal	2 consecutive months below normal	Reservoir levels at or near normal for the time of year
Advisory	-2.0 to -2.99	-1.0 to -1.9 Abnormally Dry	2 month cumulative below 65% of normal	At least 2 out of 3 months below normal	3 consecutive months below normal	Small index Reservoirs below normal
Watch	-3.0 to 3.99	-2.0 to -2.9 Excessively Dry	1 of the following criteria met: 3 month cum. < 65% or 6 month cum. < 70% or 12 month cum. < 70%	4-5 consecutive months below normal	At least 4 out of 5 consecutive months below normal	Medium index Reservoirs below normal
Warning	-4.0 and below	> -2.9 Severely Dry	2 out of 3 of the above criteria met: 3 month cum. < 65% and 6 month cum. <65% or 6 month cum. <65% and 12 month cum. <65% or 3 month cum. <65% and 12 month cum. <65% and	6-7 consecutive months below normal Observation wells recording monthly record lows	At least 6 out of 7 consecutive months below normal	Large index reservoirs below normal
Emergency	-4.0 and below	> -2.9 Severely Dry	Same criteria as Warning And Previous month was Warning or Emergency	>7months below normal Observation wells recording monthly record lows	>7 months below normal	Continuation of previous month's conditions

⁺ Major Hydrologic Indicators (#1, #2, #3 & #4)

^{**} Local triggers from the water supply system management plans will also be considered in assessing drought phases on a regional basis. The Water Resources Board will review local plans and work with suppliers to coordinate regarding drought phases and to collect, review and report surface reservoir and ground water data.

Normal is defined as the statistical average of the data for the period of record. Percentages for precipitation are relative to normal.

Eastern Region Current Conditions	#1 Palmer -1.00 to -1.99 Near Normal	Crop Moisture +1.00 to +1.99 Abnormally Moist	#2 Precipitation 6 months cumulative Eastern Region – 62%		#3 Groundwater Below normal for 5 months	#4 Streamflow Below normal for last 5 months	Reservoirs
			1 Month 2.38" 2 Month 6.84" 3 Month 9.66" 6 Month 15.69"	52% 77% 71% 62%	19-RI-TIW 274 - 22-RI-POW 551 - 24-RI-LTW 142 – WATCH? (Blank – insufficient info)	No Stream Gage info	Aquidneck Island – 69% Jamestown - +24 inches Watson Reservoir

Southern Region Current Conditions	#1 Palmer -1.00 to -1.99 Near Normal	Crop Moisture +1.00 to +1.99 Abnormally Moist	#2 Precipitation 6 months cumulative Southern Region 65%		Below normal:	Groundwater Below normal for 4 months 8 dry observation wells		4 nflow Il for last 7-9 nths	Reservoirs	
			1 Month 2 Month 3 Month 6 Month	2.52" 7.30" 10.97" 17.22"	53% 78% 76% 65%	18-RI-EXW 158 20-RI-EXW-6 21-RI-EXW-238 23-RI-EXW-475 25-RI-EXW-554 26-RI-HOW-67 27-RI-NKW-255 28-RI-EXW-278 29-RI-RIW-417 30-RI-SNW-6 31-RI-RIW-785 32-RI-CHW-587 33-RI-CHW-586 34-RI-CHW-18 35-RI-WEW-522 37-RI-SNW-1198 39-RI-RIW-600 (* = No data for	Advisory Emergency Emergency Warning Emergency Warning No data Emergency Watch No data ?Above mean? Emergency Emergency Emergency Emergency Emergency Emergency	08-01117000 09-01117350 10-01117420 11-01117468 12-01117500 13-01117800 14-01118500 21-01117430 25-01117370 26-01118000 28-01116850 (Blank – Insu	Emergency Emergency Emergency Emergency Warning Emergency	No surface water storage

New Shoreham Current Conditions	#1 Palmer -1.00 to -1.99 Near Normal	Crop Moisture +1.00 to +1.99 Abnormally Moist	#2 Precipitation 6 months cumulative New Shoreham Region – 65%		#3 Groundwater	#4 Streamflow	Reservoirs
			1 Month 2.52" 2 Month 7.30" 3 Month 10.97" 6 Month 17.22"	53% 78% 76% 65%		Insufficient data	Insufficient information

Central West Region Current Conditions	#1 Palmer -1.00 to -1.99 Near Normal	Crop Moisture +1.00 to +1.99 Abnormally Moist	Pred Central We	#2 cipitation st Region		#3 Groundw	ater	#4 Streamflow	Reservoirs
			1 Month 2 Month 3 Month 6 Month	3.32" 8.88" 12.12" 19.39"	68% 94% 83% 71%			17-01115630 18-01115670 19-01115770 20-01115800 27-01115833 (Blank - Insufficient data)	No surface water storage

Central East Region Current Conditions	#1 Palmer -1.00 to -1.99 Near Normal	Crop Moisture +1.00 to +1.99 Abnormally Moist	#2 Precipitation Central East Region – 66%			#3 Groundwater Below normal for 4 months		#4 Streamflow Below normal for last 5 months		Reservoirs
			1 Month 2 Month 3 Month 6 Month	2.93" 7.56" 10.36" 15.80"	672% 89% 80% 66%	9-RI-PRW 48* 11-RI-CRW 439* 14-RI-WCW-59 15-RI-COW 411 (Blank – Insuffi	Emergency Watch cient data)	01-01109403 06-01116000 07-01116500 15-01114000	Emergency Warning Emergency Emergency	Pawtucket Reservoirs 65% - up from 48%

North East Region Current Conditions	#1 Palmer -1.00 to -1.99 Near Normal	Crop Moisture +1.00 to +1.99 Abnormally Moist	#2 Precipitation Northeast Region – 72%			#3 Groundwater		#4 Streamflow		Reservoirs
			1 Month 2 Month 3 Month 6 Month	3.89" 10.22" 13.07" 18.96"	86% 113% 95% 72%	01-RI-NSW 21 05-RI-CUW 265 08-RI-UW-84	Warning Watch? Warning	02-01111500 03-01112500 04-01114500 16-01113895 23-01113696 (Blank – insuffi	Warning Emergency Emergency cient data)	Woonsocket Reservoirs - +42 inches

North West Region Current Conditions	#1 Palmer -1.00 to -1.99 Near Normal	Crop Moisture +1.00 to +1.99 Abnormally Moist	#2 Precipitation Northwest Region – 77%		#3 Groundw	Groundwater		44 mflow	Reservoirs ?	
			1 Month 2 Month 3 Month 6 Month	4.12" 10.51" 13.36" 21.72"	83% 109% 92% 77%	02-RI-BUW 396 03-RI-BUW 187 04-RI-BUW 397 06-RI-BUW 395 07-RI-BUW 398	Emergency	05-01115187 22-01111300 24-01115098	Warning? Emergency	Scituate Reservoir 77% of capacity
						10-RI-FOW-40 12-RI-FOW 290	Warning	(Blank – insuff	icient data)	