

2004 Bacteria Data - Rivers

URI Watershed Watch uses the USEPA approved membrane filtration method with mTEC media for analyzing fecal coliform bacteria, species that can indicate the presence of human sewage and associated pathogens, or disease causing organisms. For the past several years URI Watershed Watch has been splitting primarily marine site samples to analyze enterococci values using the USEPA approved membrane filtration method with mE media. Enterococci are a different group of bacteria species which have been identified as better indicators of increased risks of contracting gastrointestinal illnesses than the fecal coliforms as a group.

As of 2004, the Rhode Island Department of Health adopted standards for licensed swimming beaches based on enterococci. Rhode Island Department of Environmental Management water quality standards still consider fecal coliform as indicators of overall water quality. Watershed Watch currently analyzes enterococci using the USEPA membrane filtration method.

Watershed Watch data is intended for screening purposes only, but is very valuable for targeting areas of concerns and for tracking potential sources of bacterial contamination. Samples may have been collected over a period of days for each sample event, so may reflect dry versus wet weather or rain event values. Please contact Watershed Watch for specific sample dates.

Watershed code	MONITORING LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	GEOMEAN
	Rivers / streams	-- Number of Fecal coliform colony forming units per 100 mL --						
CE	Bailey's Brook	84	-	232	880	-	~10000	644
NA	Buckeye @ Novelty Rd	200	1300	780	700	900	980	707
NA	Buckeye @ Lockwood Brk	-	1400	5400	1600	40000	113000	8862
NA	Buckeye @ Warner Rd	-	1040	2340	400	20000	10000	2870
NA	Buckeye @ Mill Cove	250	10000	660	1800	32000	28000	3723
WD	Falls River D - Step Stone	40	18	74	78	84	52	51
WD	Falls River C - Austin Farm	18	50	24	44	116	36	40
WD	Falls River B - Sand Banks	6	56	70	76	96	36	43
WD	Falls River A - Twin Bridges	9	61	78	116	102	-	55
WD	Green Falls R (01) - Green Falls Rd.	-	1820	4900	56	720	22	380
WD	Green Falls R (02) - Putker Rd.	-	1100	4440	92	172	62	344
WD	Green Falls R (03) - Clark Falls Rd.	-	181000	740	200	72	164	794
A	Himes River	4	6000	36	144	300	1100	186
GB	GB #1 - Maskerchugg River	48	840	60	40	380	3010	219
GB	GB #2 - Burger King	260	52000	468	100	34000	6000	2248
GB	GB #3 - Pipe @ Rte 115	56	55000	384	200	22000	9400	1912
GB	GB #4 - Mill Creek	-	16000	600	430	15800	2600	2792
GB	GB #5 - Hardig Brook - Upstream	38	5000	1980	398	15800	5600	1538
GB	GB #6 - Tuscatucket Brook	40	72	4	38	3280	12	51
GB	GB #7 - Southern Creek	-	56000	910	1200	78000	7200	8075
WD	Locv - Brushy Brk @ Woody Hill Rd.	2	180	182	134	-	132	65
WD	Locv - Brushy Brk @ Sawmill Rd.	< 2	84	440	50	-	480	39
WD	Locv - Moscow Brk @ Sawmill Rd	8	40	42	180	-	204	55
TH	Moosup River Upstream	4	> 4000	460	510	500	260	286
TH	Moosup River - Fairbanks Bridge	14	71	84	178	102	28	59
TH	Moosup River - Trestle Trail	40	90	70	48	160	48	67

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	Rivers (continued)	- - - Number of Fecal coliform colony forming units per 100 mL - - -						
PE	NR 01- Gilbert Stuart	55	54	18	38	500	-	63
PE	NR 02 - Upper Pond *	25	70	3	57	-	-	23
PE	NR 03 - Lower Pond A *	7	21	6	20	44	-	15
PE	NR 04 - Lower Pond B *	14	140	10	12	30	-	23
PE	NR 05 - Lacey Bridge *	16	70	30	12	120	-	34
PE	NR 06 - Mettatuxet Beach *	26	600	100	32	78	-	83
PE	NR 07 - End of Narrows *	14	700	112	74	82	-	92
PE	NR 08 - Middlebridge *	40	200	98	110	320	-	123
PE	NR 09 - Pettaquamscutt *	-	-	166	-	34	-	75
PE	NR 10 - Sprague Bridge *	21	800	50	40	120	-	83
PE	NR 11 - Mettatuxet Brook	6	24800	-	-	300	-	355
PE	NR 12 - Mumford Brook	80	6600	34000	13800	240000	-	9012
PE	NR 13 - Near Lakeside Rd. *	14	40	4	30	70	162	30
PE	NR 14 - Lakeside Outfall	< 1	7900	320	110	4000	500	133
WD	Pawcatuck River - Bradford	36	100	20	123	45	62	54
WD	Pawcatuck River - Avondale *	20	740	-	70	3000	280	244
WD	Queen River @ Sand Bridge (TNC)	20	3000	204	260	408	1820	365
WD	Queen @ Reynold's Rd (Brownell's)	9	1200	16	-	116	104	73
WD	Queen River @ Locke Brk	5	1500	328	70	68	2520	176
WD	Queen River @ Sherman Brk	1	42	59	104	106	~800	53
H	Saw Mill Pond Tributary	26	-	900	-	10800	80	377
WD	Shickasheen Brook @ Rte 2	76	-	dry	524	-	-	200
WD	Shickasheen Brook @ Potter Road	-	-	32	-	-	-	
WD	Shickasheen Brook @ Miskiania Road	4	-	230	132	2	4440	64
WD	Shickasheen Brk @ Barber Pond outlet	16	-	13	10	-	-	13
WD	Shickasheen Brook @ Rte 138	66	-	78	760	-	-	158
WD	Shickasheen Brook @ Liberty Lane	-	-	44	520	-	-	151
WO	Woonasquatucket R @ Donigian Park	108	400	700	300	12400	25000	1188

RI Department of Environmental Management standards for recreational contact (i.e. swimming):

Fresh Waters - Not to exceed 200 fecal coliform per 100 mL.

Marine Waters - Not to exceed 50 fecal coliform per 100 mL.

Marine Waters Shellfishing - Not to exceed 14 fecal coliform per 100 mL.

A factsheet describing how bacteria are monitored, what bacterial indicators are, where bacteria come from and how we can all help to reduce bacterial input into our local water resources is available at <http://www.uri.edu/ce/wq/www/resources/Bacteria.pdf>

See the Rhode Island Department of Health beach monitoring website (<http://www.ribeaches.org/>) for additional information about beach monitoring and state standards.

The Rhode Island Department of Environmental Management website has information on State efforts to restore waters impaired by bacteria and other pollutants (<http://www.dem.ri.gov/programs/benviron/water/quality/index.htm>).

Tributary Data found on the next page.

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	Lake - Tributary name/location	- - Number of Fecal coliform colony forming units per 100 mL - -						
WD	Asseconk Swamp	28	-	114	-	-	96	67
WD	Barber - Mud Brook	4	-	28	110	-	-	23
A	Belleville - RR Xing	85	-	96	-	-	160	109
A	Belleville - Sluiceway	6	-	62	-	-	10	15
PE	Carr Inlet (Noth Kingstown)	-	-	< 2	-	-	672	8
WO	Georgiaville - Capron Pond	78	-	6	-	-	8	16
WO	Georgiaville - Harris	640	-	120	-	-	20	115
WD	Pasquisset Tributary	97	-	-	-	-	6	24
WD	Secret - Oak Hill Creek East	44	-	70	-	-	26	43
WD	Secret - Oak Hill Creek West	4	-	102	-	-	28	23
A	Secret - Shore Drive	6	-	52	-	-	< 2	3
A	Shunock River @ Babcock	52	-	8200	-	-	580	628
A	Shunock River @ Hewitt	8	-	2	-	-	94	11
WO	Slack's Reservoir Trib/cove A	24	1680	16	188	280	1440	191
WO	Slack's Reservoir Trib/cove B	52	60000	8700	560	960	2600	1833
WO	Slack's Reservoir Trib/cove C	17	8000	400	200	248	640	346
WO	Slack's Reservoir Trib/cove D	20	10	50	244	551	400	90
B	Smith & Sayles Res. - Balcom Brook	24	-	270	-	-	52	70
B	Smith & Sayles Res. - Keech Brook	2	-	34	-	-	-	8
B	Smith & Sayles Res. - O'Donnel Brook	2	-	37	-	-	-	9
TA	Stafford Inlet - Upstream	25	-	-	-	-	-	25
TA	Stafford Inlet - Downstream	84	-	-	-	-	> 100 K	2970
TA	Stafford - NE Cove	2	-	10	-	-	> 10 K	59
WD	Waterman - Rte 44	12	-	72	-	-	44	34
WO	Waterman - Saw Mill Rd.	28	-	340	-	-	100	98
WO	Waterman - Golf Course	4	-	58	-	-	366	44
WO	Waterman - Aldrich	2	-	58	-	-	22	14

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WPWA Tributary Data found on the next page.

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	WPWA TRIBUTARIES	- - Number of Fecal coliform colony forming units per 100 mL - -						
WD	Ashaway River @ Rte 216	78	> 1000	58	-	-	-	189
WD	Ashaway River @ Wellstown Rd.	110	> 1000	260	-	-	-	350
WD	Asseconk Brook @ Rte 2	-	6	43	-	-	14	15
WD	Chipuxet River @ Rte 138	26	3000	178	140	2640	1240	430
WD	Fisherville Brook	80	120	78	50	188	2040	156
WD	Glen Rock Brook	8	26	8	26	16	~2000	33
WD	Lewis Pond outlet	-	> 5000	12	524	84	~3500	399
WD	Pawcatuck River @ Burdickville Rd	24	> 500	50	83	7000	680	253
WD	Pawcatuck River @ Chase Hill Rd.	11	> 5000	38	114	-	200	139
WD	P'tuck River below Kenyon Industries	-	> 500	236	320	120	~2800	426
WD	Pawcatuck River @ Rte 91	-	> 600	64	74	220	2220	273
WD	Queen River @ Mail Rd	10	600	70	370	440	530	182
WD	Queen River @ Rte 102	13	800	186	46	172	1780	173
WD	Shunock River @ Main St	-	72	66	206	216	40	97
WD	Shunock River @ Below Parker Pond	-	100	96	30	54	20	50
WD	Taney Brook	232	> 5000	300	140	500	2320	629
WD	Tomaquag Brook @ Chase Hill Rd.	178	> 5000	280	427	1800	3900	968
WD	Tomaquag Brook @ Woodville Rd.	6	> 500	180	110	640	740	177
WD	Usquepaugh River @ Rte 2	-	70	80	124	62	66	78

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