

Appendix F. Tables of correlations between bacteria counts and rainfall

Appendix F

Pearson Correlation between Rainfall and Bacteria

Below are tables of the Pearson correlation coefficients (*r*-values) for bacteria counts and rainfall that occurred two-days prior to, one-day prior to, and the day-of sampling. Shaded boxes indicate statistical significance ($r \leq \pm 0.70$), meaning that bacteria counts were affected [made higher] by rainfall that occurred in that timeframe.

Table F-1. 2016 Pearson Correlation Coefficients (*r*-values) for bacteria counts v. rainfall that occurred two-days prior to, one-day prior to, and the day-of sampling. Significant findings are highlighted.

	Rainfall two-days prior to sampling		Rainfall one-day prior to sampling		Rainfall the day-of sampling	
	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>
MB-1	0.42	0.37	0.73	0.93	-0.14	-0.06
MB-2	0.45	0.31	0.83	0.73	-0.16	-0.19
MB-3	0.42	0.41	0.73	0.73	-0.13	-0.07
MB-4	0.42	0.44	0.73	0.74	-0.13	-0.13
MB-5	0.42	0.49	0.75	0.87	-0.14	-0.16
MB-6	0.42	0.44	0.73	0.87	-0.13	-0.03

Table F-2. 2017 Pearson Correlation Coefficients (*r*-values) for bacteria counts v. rainfall that occurred two-days prior to, one-day prior to, and the day-of sampling. Significant findings are highlighted.

	Rainfall two-days prior to sampling		Rainfall one-day prior to sampling		Rainfall the day-of sampling	
	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>
MB-1	0.39	0.22	-0.25	0.54	-0.04	0.59
MB-2	0.91	0.00	0.07	0.83	0.46	0.26
MB-3	0.39	-0.19	0.09	0.45	0.38	-0.09
MB-4	0.18	-0.09	0.64	0.71	0.25	0.13
MB-5	0.36	0.15	0.72	0.89	0.71	0.55
MB-6	0.21	0.18	0.88	0.92	0.56	0.54
MB-7	0.70	0.20	0.63	0.98	0.87	0.56

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Table F-3. 2018 Pearson Correlation Coefficients (*r*-values) for bacteria counts v. rainfall that occurred two-days prior to, one-day prior to, and the day-of sampling. Significant findings are highlighted.

	Rainfall two-days prior to sampling		Rainfall one-day prior to sampling		Rainfall the day-of sampling	
	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>
MB-1	0.26	0.09	0.77	0.69	-0.18	0.16
MB-2	0.13	0.53	0.86	0.26	0.01	0.59
MB-3	0.22	0.02	0.84	0.43	0.09	0.53
MB-4	0.13	-0.01	0.97	0.30	0.09	0.56
MB-5	0.02	0.00	0.83	0.76	-0.20	0.20
MB-6	0.10	-0.08	0.90	0.43	0.11	0.46
MB-7	0.42	-0.14	0.27	0.22	0.04	0.43

Table F-4. 2019 Pearson Correlation Coefficients (*r*-values) for bacteria counts v. rainfall that occurred two-days prior to, one-day prior to, and the day-of sampling. Significant findings are highlighted.

	Rainfall two-days prior to sampling		Rainfall one-day prior to sampling		Rainfall the day-of sampling	
	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>
MB-1	-0.09	-0.27	0.06	0.10	0.25	-0.28
MB-2	0.08	0.09	-0.13	0.11	-0.27	-0.36
MB-3	0.17	-0.08	0.14	-0.07	-0.13	0.53
MB-4	-0.12	-0.03	0.20	-0.12	0.20	0.04
MB-5	-0.03	-0.14	0.25	0.08	-0.15	-0.17
MB-6	0.59	0.06	-0.12	-0.22	0.19	0.72
MB-7	0.55	0.16	0.33	0.34	-0.05	-0.03

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Table F-5. 2020 Pearson Correlation Coefficients (*r*-values) for bacteria counts v. rainfall that occurred two-days prior to, one-day prior to, and the day-of sampling. Significant findings are highlighted

	Rainfall two-days prior to sampling		Rainfall one-day prior to sampling		Rainfall the day-of sampling	
	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>
MB-1	0.02	-0.14	0.61	0.72	0.20	0.41
MB-2	0.80	0.44	0.51	0.74	0.40	0.70
MB-3	0.75	0.07	0.13	0.19	-0.26	-0.23
MB-4	0.10	0.09	0.21	0.22	-0.21	-0.17
MB-5	-0.17	0.01	0.78	0.18	0.73	-0.12
MB-6	-0.34	-0.36	0.60	0.26	0.58	0.31
MB-7	-0.15	-0.16	-0.16	-0.16	-0.12	-0.11

Table F-6. 2021 Pearson Correlation Coefficients (*r*-values) for bacteria counts v. rainfall that occurred two-days prior to, one-day prior to, and the day-of sampling. Significant findings are highlighted.

	Rainfall two-days prior to sampling		Rainfall one-day prior to sampling		Rainfall the day-of sampling	
	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>	<i>Fecal Coliform</i>	<i>Enterococci</i>
MB-1	-0.01	-0.05	0.23	0.19	0.87	0.84
MB-2	-0.09	-0.10	0.15	0.14	0.82	0.82
MB-3	0.05	-0.02	0.29	0.22	0.90	0.86
MB-4	-0.09	-0.10	0.14	0.14	0.83	0.82
MB-5	0.67	0.12	0.85	0.39	0.85	0.49
MB-6	0.75	0.65	0.93	0.86	0.79	0.85
MB-7	0.53	0.42	0.77	0.67	0.90	0.92