

Zink Lake Dashboard E-coli Results

Note: For the lake to pass e-coli testing criteria all sites must meet **both** the 30-day geometric mean **and** daily sample **limit of less than 126** to meet general swimming (accidental ingestion) use.

Failure rate to meet PBCR criteria

Failure rate to meet PBCR criteria

Failure rate to meet PBCR criteria

Correlation failure to meet criteria vs increased rain fall

Correlation failure to meet criteria vs increased flows

Dashboard geometric mean data in red suspected to be in error

78% of the time (computed from all data)

92% of the time (1 May to 1 Oct 2024 per ODEQ to achieve PBCR rating)

100% of the time (1 May to 1 Oct 2025 **based on data thus far**)

0.33 (USGS 24hr rain fall went up and e-coli went up. Note 1)

0.23 (24 hr. avg. river flow went up and e-coli went up. Note 1)

Unofficial: See note 2

Date of test	Lake Pass/Fail ODEQ PBCR Criteria	I-244		Kayak Flume		Boat Ramp		Pedestrian Bridge		Rain inches 24-48 hrs. prior to sample date	River Flow Keystone Lake average discharge the day prior to sample per USACE [cfs]
		Dashboard E-coli Value for Date	Dashboard 30-day geo. Mean	Dashboard E-coli Value	Dashboard 30-day geo. Mean	Dashboard E-coli Value	Dashboard 30-day geo. Mean	Dashboard E-coli Value	Dashboard 30-day geo. Mean		
5/2/2024	Fail	2,400	158	1400	82	55	-	816	48	0.22	6,342
5/7/2024	Fail	2,400	229	5300	138	103	-	6,100	102	0.80	16,680
5/9/2024	Fail	70	201	225	146	100	118	61	100	0.00	17,093
5/14/2024	Fail	54	216	99	122	49	107	49	126	0.00	18,401
5/16/2024	Fail	921	285	2000	216	133	131	291	162	0.00	17,144
5/21/2024	Fail	421	312	276	296	272	169	172	193	0.00	8,351
5/23/2024	Fail	93	338	249	430	83	184	107	237	0.00	12,275
5/28/2024	Fail	77	260	39	349	52	161	19	173	1.30	8,088
5/30/2024	Fail	261	297	38	319	99	169	46	167	0.00	2,925
6/4/2024	Fail	687	258	866	302	365	160	517	159	0.00	6,225
6/6/2024	Fail	139	212	33	166	68	108	80	99	0.00	6,213
6/11/2024	Fail	102	175	7.5	126	43	98	38	86	0.00	3,704
6/13/2024	Fail	138	217	7.5	88	25	91	22	81	0.00	2,633
6/17/2024	Fail	131	175	14	51	73	85	30	63	0.00	2,275
6/20/2024	Fail	179	153	22	38	41	69	16	49	0.00	1,838
6/25/2024	Fail	57	149	6.3	25	23	59	16	39	0.00	1,842
6/27/2024	Fail	866	195	1200	37	88	63	866	60	1.30	1,842
7/2/2024	Fail	156	178	73.3	41	42	68	44	59	0.00	3,696
7/9/2024	Fail	117	158	344	46	17	49	54	45	0.50	6,300
7/11/2024	Fail	72	145	167	53	27	46	65	47	0.00	6,308
7/16/2024	Fail	88	139	56.3	82	20	42	25	50	0.00	4,763
7/18/2024	Fail	123	137	727	104	20	39	31	48	0.72	4,979
7/23/2024	Fail	1,200	174	308	159	206	37	57	56	0.00	1,854
7/25/2024	Fail	201	161	178	162	48	47	57	52	0.00	2,067
7/30/2024	Fail	260	175	98.7	176	96	41	76	55	0.00	1,817
8/1/2024	Fail	2,000	241	95.9	182	55	42	55	57	0.02	2,375
8/6/2024	Fail	186	234	260	176	96	46	70	58	0.24	2,121
8/13/2024	Fail	1,200	387	2000	295	488	86	261	77	3.00	1,583
8/15/2024	Fail	411	450	206	230	88	104	121	91	0.00	3,117
8/20/2024	Fail	50	353	36.4	187	36	92	40	83	0.00	1,567
8/22/2024	Fail	172	285	68.3	158	77	83	49	72	0.00	1,825
8/27/2024	Fail	91	261	25.3	128	112	91	66	73	0.00	2,511
8/29/2024	Fail	76	173	18.7	107	36	86	30	68	0.00	2,371
9/5/2024	Fail	81	151	71.2	99	167	102	80	63	0.00	2,125
9/10/2024	Fail	96	143	11	69	58	101	40	61	0.00	1,388
9/12/2024	Pass	61	103	19.9	42	86	83	48	50	0.00	1,371
9/17/2024	Pass	120	97	38.9	34	126	97	98	51	0.00	0
9/19/2024	Pass	26	76	9.7	27	78	97	9	41	0.04	1,929
10/1/2024	Fail	291	101	37.9	35	172	118	99	54	0.00	0
10/3/2024	Fail	158	105	12.2	28	83	105	10	47	0.00	0
10/8/2024	Fail	140	112	45.7	26	98	93	83	48	0.00	1,375
10/10/2024	Pass	88	111	18.3	28	63	99	17	43	0.00	1,108
10/15/2024	Pass	63	111	13.4	27	44	92	22	40	0.00	846
10/17/2024	Pass	53	101	5.2	21	26	77	6	29	0.00	0
10/22/2024	Pass	16	96	1	16	19	66	6	28	0.00	0
10/24/2024	Fail	4,100	135	3	12	13	54	3	19	0.00	0
10/28/2024	Fail	178	141	3.1	9	93	51	10	15	0.00	0
10/31/2024	Fail	2,900	182	2,000	13	1,100	62	3,600	22	2.09	0

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		Dashboard E-coli Value for Date	Dashboard 30-day geo. Mean	Dashboard E-coli Value	Dashboard 30-day geo. Mean	Dashboard E-coli Value	Dashboard 30-day geo. Mean	Dashboard E-coli Value	Dashboard 30-day geo. Mean		
11/5/2024	Fail	2,400	247	1,400	23	2,400	90	1,300	38	0.00	8
11/7/2024	Fail	488	328	387	30	613	120	727	55	0.00	6,113
11/12/2024	Fail	105	349	172	42	147	139	83	66	1.77	10,513
11/19/2024	Fail	488	313	1,400	100	365	179	613	120	1.70	10,193
11/21/2024	Fail	59	362	75.4	162	68	207	68	156	0.00	10,355
11/26/2024	Fail	133	258	101	412	59	276	73	326	0.00	10,366
12/5/2024	Fail	38	74	56.5	152	112	122	75	127	0.00	3,696
12/10/2024	Fail	172	82	238	161	1,100	160	1,100	166	0.01	1,571
12/12/2024	Fail	41	73	69.1	143	74	147	75	164	0.01	3,396
12/17/2024	Fail	70	89	42	108	46	134	72	150	0.10	2,687
12/19/2024	Pass	39	66	24.3	64	22	99	32	110	0.00	2,725
12/26/2024	Fail	260	73	108	64	114	108	156	123	1.20	6,304
12/30/2024	Pass	99	75	54.6	63	99	107	55	111	0.00	0
1/2/2025	Pass	23	75	35.5	62	99	98	64	101	0.10	2,000
1/7/2025	Pass	15	60	25.9	56	59	92	79	98	0.03	4,487
1/9/2025	Pass	41	52	28.8	40	39	60	41	64	0.00	4,000
1/16/2025	Pass	11	35	12.2	32	16	54	11	45	0.00	0
1/21/2025	Pass	11	30	51.2	33	46	53	61	47	0.00	1,500
1/23/2025	Pass	42	31	11.9	30	104	57	59	48	0.00	0
1/28/2025	Pass	10	22	6.3	22	53	53	16	37	0.00	1,000
1/30/2025	Fail	66	21	199	25	192	57	105	40	0.10	0
2/4/2025	Pass	4	18	5.2	20	2	35	2	24	0.00	0
2/6/2025	No data posted on web									0.00	0
2/11/2025	No data posted on web									0.02	3,829
2/13/2025	Fail	81	23	82	22	119	41	186	28	0.10	4,446
3/6/2025	Fail	1,200	97	1400	99	2,000	105	2,400	143	0.18	1,067
3/18/2025	Pass	70	76	34.1	51	13	40	23	67	0.00	4,308
3/27/2025	Pass	108	84	20.3	43	16	38	13	46	0.00	3,342
4/1/2025	Fail	118	114	82.3	45	129	51	70	52	0.80	6,813
4/16/2025	Pass	81	115	16	35	13	47	14	32	0.00	1,833
4/22/2025	Fail	488	135	1,100	55	238	61	921	no info	2.65	1,546
4/24/2025	Fail	130	170	31.3	60	62	66	64	60	0.00	2,879
4/29/2025	Fail	3,400	249	93.2	72	3,300	120	291	85	0.50	2,823
5/1/2025	Fail	687	303	1,100	95	866	148	1,100	115	2.97	11,487
5/6/2025	Fail	33	209	48	75	64	104	40	84	0.26	33,929
5/8/2025	Fail	45	189	31	74	28	110	27	93	0.54	32,532
5/13/2025	Fail	31	154	23	65	16	89	12	74	0.00	19,389
5/15/2025	Fail	93	168	75	98	30	118	33	97	0.00	12,196
5/20/2025	Fail	2,400	225	980	127	4,700	177	326	111	0.86	5,688
5/22/2025	Fail	185	202	91	96	770	202	62	82	0.00	5,688
5/27/2025	Fail	1,300	261	770	137	727	265	687	107	4.50	3,829
5/29/2025	Fail	291	171	2,000	155	326	171	461	85	0.00	7,458
6/3/2025	Fail	70	155	127	152	127	166	113	88	0.00	8,200
6/5/2025	Fail	59	165	119	168	167	184	86	96	0.30	8,200
6/10/2025	Fail	93	179	194	206	120	217	101	111	0.00	47,000
6/12/2025	Fail	67	195	75	236	50	246	27	121	0.00	49,000
6/17/2025	Fail	67	262	144	253	1,100	367	72	132	2.20	49,200

Note 1: The correlation coefficient is a measure of how well data indicates a good relationship to the parameters studies. In this case we are comparing how well rain fall or river flow values correlate with failure. A perfect correlation will have a coefficient of 1.0, no correlation will have a value close to or equal to zero, a negative correlation means the data shows an inverse relationship to the data. For example: If the lake failed safety criteria every time that rain occurred, that coefficient would be 1.0 where if the coefficient was (1.0) (negative one) it means the lake failed with no rain. As you may surmise there is not a very good correlation to either flow or rain fall which means you had best not depend on those parameters for the river to be safe. **Until the geometric mean meets the safety criteria for the past 30 days, you had best not assume the river is safe when the daily bacteria count shows a safe value. Statistically, you will be wrong in that assumption.**

Note2: The Corps only publishes average daily flow data for the month after all flow data has been finalized. Thus data shown is estimated from hourly plots