

2022 ACWA/BCWA Temperature Logger Data Summary

■ = exceeds the Use Class Temperature Criteria

for data monitored June 1 - Aug 31, 2022 (later data available for some sites)

Antietam Tributary Sites	HAM5.7	HAM0.2	LAN	LAN	LAN	LAN		MAR4.2	MAR0.0
Site Description	Hamilton Run at Fountaindale ES	Hamilton Run below House of Kobe	LAC North - abover 491 culvert	LAC_North at Gardenour Rd	LAC_North at Shank Farm	LAC_North Mouth	Grove Creek	Marsh Run at Blue Heron Rd.	Marsh Run Mouth
MD Stream Use Class	IV	IV	III	III	III	III	III	III	III
Logger SN#	20614136	20398018	21011013	20890334	20609930	20614135	21002869	20622995	21002866
Total # Readings	6624	6625	6624	6624	6624	6624	6624	6624	6624
Average Temp oC	17.13	19.08	19.37	16.64	19.1335	19.44	19.22	17.35171	17.59
Median Temp oC	16.56	19.17	19.39	16.47	19.09	19.52	19.22	17.33	17.63
Max Temp oC	24.97	25.82	25.05	21.70	24.45	23.34	24.06	21.1	20.37
Min Temp oC	12.95	14.75	13.00	12.44	13.77	14.80	13.85	13.08	13.68
Var	4.95	2.35	4.88	2.76	4.0193	2.86	3.18	2.14759	1.68
StDev	2.224	1.534	2.208	1.663	2.005	1.691	1.784	1.465	1.298
StError	0.027	0.019	0.027	0.020	0.025	0.021	0.022	0.018	0.016
90th Percentile (oC)	20.46	20.89	22.22	18.92	21.79	21.62	21.45	19.26	19.3
# of readings									
>20C	882	1824	2541	179	2212	2586	2284	193	79
% time >=20C	13%	28%	38%	3%	33%	39%	34%	3%	1%
<= 20C	5743	4801	4084	6446	4413	4039	4341	6432	6546
>=23.9C	3	29	128	0	34	3	3	0	0
% time >=23.9C	0.0%	0.4%	1.9%	0.0%	0.5%	0.0%	0.0%	0%	0.0%
>32C	0	0	0	0	0	0	0	0	0

LAC

UT to LAC South at Crystal Grottos	Little Antietam South - Keedysville	Landis Spring Branch-mouth
IV	IV	IV
21011017	20890337 *	20614137
6624	4609 *	6624
21.07	17.10 *	16.75
21.06	17.11 *	16.47
27.50	19.52 *	21.92
14.84	14.28 *	12.27
4.57	0.89 *	2.87
2.137	0.942 *	1.694
0.026	0.014 *	0.021
23.81	18.36 *	19.17
4697	0 *	280
71%	0% *	4%
1928	4609 *	6345
606	0 *	0
9.1%	0.0% *	0.0%
0	0 *	0

*Dewatered
7/2-7/25 &
8/9-8/12 removed
for info only

Antietam Crk Mainstem	ANT40	ANT28	ANT24	ANT14	ANT5.7	ANT4.5	ANT0.3	
Site Description	at Millers Church*	at Kiwanis Park	at Funkstown*	at Devilsbackbone above dam	at Route 34, upstream of bridge	at USGS gauging station/Burnside	near mouth at Iron Furnace Bridge	All Loggers combined for Antietam Mainstem*
MD Stream Use Class	IV	IV	IV	IV	IV	IV	IV	IV
Logger SN#	21002868	20614138	20890335	21011016	21002872	20890336	21011014	All but 335
Total # Readings	6624	6624	3528 *	6624	6624	6624	6624	39744
Average Temp oC	20.05	20.49	20.40 *	22.41	21.94	21.80104	22.19	21.47995
Median Temp oC	20.07	20.55	20.55 *	22.31	22.05	21.88	22.22	21.88
Max Temp oC	24.19	24.06	24.45 *	27.8	25.78	25.82	26.64	27.8
Min Temp oC	14.93	16.6	17.33 *	17.76	17.89	17.97	17.97	14.93
Var	2.931	2.318	1.685 *	3.810	2.498	2.309	2.758	2.309
StDev	1.712	1.522	1.298 *	1.952	1.581	1.519	1.661	1.885
StError	0.021	0.019	0.022 *	0.024	0.019	0.019	0.020	0.009
90th Percentile (oC)	22.22	22.48	21.96 *	24.97	24.02	23.81	24.32	23.89
# of readings								
>20C	3448	4291	2174 *	5837	5811	5727	5893	31001
% time >=20C	52.0%	64.8%	61.6% *	88.1%	87.7%	86.4%	89.0%	78%
<= 20C	3177	2334	1354 *	788	814	898	732	8743
>=23.9C	35	4	5 *	1532	763	583	1003	3920
% time >=23.9C	0.5%	0.1%	0% *	23%	12%	8.8%	15%	10%
>32C	0	0	0 *	0	0	0	0	0
			*Vandalized dewatered after 7/20					*does not include Funkstown site

Beaver Creek Watershed

Site Description	Pondsville Run at 11310 Mapleville Rd, across from Poolsville Rd	Pondsville Run at 22423 ColdSpring Rd	Mt Aetna Creek 40' upstream of Mapleville Road Bridge	Mt Aetna Crk above Crystal F Rd
MD Stream Use Class	III	III	III	III
Logger SN#	21011012	21011015	21002867	21011011
Total # Readings	6624	6624	6624	6624
Average Temp oC	19.40	15.91173	16.73357	17.95
Median Temp oC	19.52	16	16.6	18.06
Max Temp oC	24.71	18.66	21.15	22.09
Min Temp oC	13.51	12.7	13.08	13.9
Var	4.21	1.531	1.819	2.77
StDev	2.05	1.237	1.349	1.67
StError	0.025	0.0152	0.0166	0.020
90th Percentile (oC)	22.01	17.46	18.57	20.12
# of readings				
>20C	2689	0	84	744
% time >=20C	41%	0	1%	11%
<= 20C	3935	6624	6540	5880
>=23.9C	22	0	0	0
% time >=23.9C	0.3%	0.0%	0.0%	0.0%
>32C	0	0	0	0

Site Description	Little Beaver Crk - Swope Rd (GSP)	Little Beaver Creek at 20612 Benevola Church Rd./MakiNaw Prop	Little Beaver Creek at Toms Road	Little Beaver Creek Mouth	All Little Beaver Creek Loggers Combined
MD Stream Use Class	III	III	III	III	III
Logger SN#	20394349	21002870	20893640	21364550	All 4
Total # Readings	6624	6624	6624	6624	26496
Average Temp oC	16.69	16.75	19.62	20.38	18.36
Median Temp oC	16.86	16.6	19.43	20.42	17.84
Max Temp oC	19.17	21.36	25.99	24.97	25.99
Min Temp oC	13.34	13.64	13.98	14.58	13.34
Var	1.264	1.688	5.435	3.784	5.800
StDev	1.124	1.299	2.331	1.945	2.408
StError	0.014	0.016	0.029	0.024	0.015
90th Percentile (oC)	18.02	18.62	22.86	22.91	21.96
# of readings					
>20C	0	37	2724	3795	6556
% time >=20C	0.0%	0.6%	41%	57%	25%
<= 20C	6624	6587	3900	2829	19940
>=23.9C	0	0	300	137	437
% time >=23.9C	0.0%	0.0%	4.5%	2.1%	1.6%
>32C	0	0	0	0	0

Site Description	Rush Run
MD Stream Use Class	IV
Logger SN#	20890332
Total # Readings	6625
Average Temp oC	21.85
Median Temp oC	21.92
Max Temp oC	27.84
Min Temp oC	14.5
Var	6.340
StDev	2.518
StError	0.031
90th Percentile (oC)	25.05

of readings

>20C	5016
% time >=20C	76%
<= 20C	1609
>=23.9C	1626
% time >=23.9C	25%
>32C	0