

New Hampshire Volunteer River Assessment Program
2020 Pemigewasset River Watershed Data

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES



	Measurements not meeting New Hampshire surface water quality standards
	Measurements not meeting NHDES quality assurance/quality control standards

^A Specific conductance > 835 µS/cm indicates exceedance of chronic chloride standard of 230 mg/L

^B Chronic water quality standard

23-PMI: Pemigewasset River, Woodstock (Route 175 Bridge) - NHDES Trend Station

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA	230^B
06/15/2020	10:15	11.06	105.4	5.72	0.14	55.9	13.2	11
07/13/2020	10:15	8.89	97.6	6.10	0.15	38.1	19.3	6
08/10/2020	10:15	9.53	103.7	6.44	0.09	61.2	19.4	11

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO ₂) + Nitrate (NO ₃) (mg/L)	Total Nitrogen (mg/L) ^C
Standard	NA	Narrative	Narrative	Narrative	Narrative
6/15/2020	10:15	0.006	0.25	0.15	0.40 ^C
7/13/2020	10:15	0.012	ND	0.09	0.21 ^C
8/10/2020	10:15	0.073	ND	0.19	0.32 ^C

21-PMI: Pemigewasset River, Thornton (Memorial Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA	230^B
06/23/2020	9:30	6.84	88.0	5.95	0.40	70.0	22.4	
07/17/2020	9:15	8.41	88.4	5.76	0.34	40.2	17.0	9
07/28/2020	9:08	7.48	84.9	5.77	0.37	68.9	22.8	
08/11/2020	9:25	6.21	75.2	5.82	0.44	75.0	22.3	14
08/25/2020	9:15	7.62	85.3	6.04	0.72	81.9	21.5	19
09/08/2020	9:04	8.10	86.0	5.73	0.64	80.2	17.7	

03G-MAD: Mad River, Thornton (Route 49 Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA	230^B
06/23/2020	10:00	7.91	93.0	6.11	0.19	63.0	21.5	
07/17/2020	9:45	9.47	92.5	6.06	0.07	39.2	15.2	6
07/28/2020	10:08	7.61	86.2	5.97	0.18	48.8	20.7	
08/11/2020	9:45	8.63	93.1	6.19	0.12	73.6	20.8	
08/25/2020	9:35	9.16	98.2	6.25	0.11	62.4	19.3	
09/08/2020	9:47	9.50	99.0	6.19	0.25	58.3	15.8	

18-PMI: Pemigewasset River, Campton (Blair Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	230^B
06/23/2020	8:45	6.92	84.0	6.03	0.44	89.0	23.4	
07/17/2020	8:50	8.03	76.8	5.83	0.41	46.7	18.1	
07/28/2020	8:40	6.99	78.2	5.76	0.56	81.8	24.1	
08/11/2020	8:50	7.20	82.1	5.95	0.48	83.5	22.9	17
08/25/2020	8:40	7.61	86.0	5.98	0.73	107.5	21.5	23
09/08/2020	8:37	8.20	86.0	5.74	0.54	109.3	17.4	

15-PMI: Pemigewasset River, Plymouth (Holderness Road Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA
06/23/2020	8:05	7.31	84.0	6.28	0.49	95.8	23.2
07/17/2020	8:05	7.35	79.7	6.02	0.90	59.5	18.8
07/28/2020	8:05	7.22	87.4	6.33	0.73	88.2	24.4
08/11/2020	8:15	6.90	80.2	6.11	0.68	98.6	23.1
08/25/2020	8:10	6.52	74.7	6.28	0.68	115.6	22.1
09/08/2020	8:08	8.22	87.2	6.22	0.78	117.5	17.9

11A-PMI: Pemigewasset River, Bridgewater (Sahegenet Falls)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	230^B
06/24/2020	10:35	6.71	80.7	5.95	0.71	105.0	24.6	
07/15/2020	11:50	8.78	96.0	5.76	2.40	36.4	19.7	6
07/29/2020	11:00	7.61	91.2	6.22	1.01	99.5	24.4	
08/12/2020	11:10	7.63	94.2	6.26	0.87	111.3	26.1	21
08/25/2020	11:10	8.75	98.3	6.47	1.14	126.8	21.0	26
09/09/2020	10:50	8.60	101.6	6.51	0.94	131.0	22.8	

01-NFD: Newfound River, Bristol (Route 104 at Pleasant Street Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA
06/24/2020	8:52	8.16	92.1	5.97	0.32	61.1	21.3
07/15/2020	8:50	7.59	88.8	6.15	0.51	48.1	23.2
07/29/2020	8:45	7.34	86.0	6.09	0.48	56.4	23.3
08/12/2020	8:55	7.16	85.3	6.02	0.24	56.2	24.1
08/25/2020	8:50	7.84	84.9	5.98	0.21	59.5	19.2
09/09/2020	8:50	8.60	94.0	6.15	0.25	59.1	19.7

09A-PMI: Pemigewasset River, Bristol (Mooney-Clark)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA	230^B
06/24/2020	9:45	7.80	96.3	6.08	1.23	113.9	26.3	
07/15/2020	11:00	8.17	92.1	5.80	3.41	46.7	21.3	8
07/29/2020	10:25	7.75	98.3	6.33	0.99	84.5	27.6	
08/12/2020	10:30	7.75	98.4	6.27	1.17	94.4	27.7	18
08/25/2020	10:25	8.54	99.8	6.38	1.17	128.1	23.1	25
09/09/2020	10:15	8.40	99.5	6.60	1.40	127.0	23.7	

07-PMI: Pemigewasset River, Bristol (Old Bristol Road Bridge off Central Street)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA
06/24/2020	9:15	8.62	98.3	6.12	1.19	100.9	21.8
07/15/2020	9:14	7.55	89.4	6.11	1.61	71.7	23.8
07/29/2020	9:10	7.44	89.1	6.07	0.85	87.8	24.4
08/12/2020	9:20	7.73	91.1	6.11	1.05	93.9	23.6
08/25/2020	9:15	7.50	84.9	6.15	1.05	117.9	21.4
09/09/2020	9:15	8.09	90.0	6.25	1.01	126.5	20.5

00M-SMT: Smith River, Bristol (Bridge Downstream of Profile Falls)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA
06/24/2020	8:15	8.10	95.0	6.89	0.98	128.2	23.1
07/15/2020	8:15	7.85	87.1	6.78	1.50	104.2	20.4
07/29/2020	8:10	8.24	94.7	6.56	0.98	127.6	22.3
08/12/2020	8:15	7.96	93.7	6.53	0.58	140.8	23.5
08/25/2020	8:15	8.32	87.9	6.54	0.47	147.0	18.0
09/09/2020	8:13	8.90	94.0	6.70	0.45	129.7	18.3

