



Water-Data Report 2009

**354302081433201 Local number BK-126, GLEN ALPINE RESEARCH STATION NEAR MORGANTON, NC
(BEDROCK)**

Piedmont and Blue Ridge crystalline-rock aquifers
Bedrock Undifferentiated

Burke County, NC

LOCATION.--Lat 35°43'02", long 81°43'32" referenced to North American Datum of 1983, Burke County, NC, Hydrologic Unit 03050101, 2.2mi southwest of Morganton. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, drilled to 228 ft, diameter 6 in., cased to 55 ft, open borehole interval (in bedrock) from 55 to 228 ft.

DATUM.--Land surface datum is 1.038 ft above National Geodetic Vertical Datum of 1929. Measuring point: floor of instrument shelter on top of casing, 1.77 ft above land-surface datum, January 2000 to present.

PERIOD OF RECORD.--January 2000 to current year. Records for January 2000 to August 4, 2008 furnished by NCDENR, Division of Water Resources.

GAGE.--Water-level recorder collecting data at 60 minute intervals. Satellite telemetry at site.

REMARKS.--Well is part of the Catawba-Wateree Drought Monitoring Network.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 5.18 ft below land-surface datum, April 11, 2003; lowest water level recorded 10.91 ft below land-surface datum, August 25, 2008.

354302081433201 Local number BK-126, GLEN ALPINE RESEARCH STATION NEAR MORGANTON, NC (BEDROCK)—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	8.08	7.99	7.78	7.47	8.29	9.07	9.61	9.96
2	---	---	---	---	8.10	8.01	7.78	7.52	8.32	9.10	9.62	9.79
3	---	---	---	---	8.07	8.03	7.48	7.53	8.35	9.13	9.62	9.61
4	---	---	---	---	8.09	8.04	7.33	7.55	8.37	9.17	9.62	9.55
5	---	---	---	---	8.13	8.07	7.39	7.59	8.36	9.20	9.63	9.16
6	---	---	---	---	8.13	8.09	7.43	7.62	8.38	9.22	9.66	9.01
7	---	---	---	---	8.13	8.10	7.48	7.65	8.42	9.25	9.67	9.00
8	---	---	---	---	8.16	8.10	7.51	7.69	8.45	9.29	9.68	9.01
9	---	---	---	---	8.15	8.11	7.57	7.72	8.48	9.32	9.70	9.02
10	---	---	---	---	8.15	8.13	7.60	7.75	8.51	9.36	9.72	9.04
11	---	---	---	---	8.16	8.12	7.63	7.80	8.54	9.39	9.74	9.05
12	---	---	---	---	8.09	8.12	7.67	7.83	8.57	9.40	9.77	9.07
13	---	---	---	7.98	7.91	8.14	7.71	7.87	8.61	9.37	9.79	9.09
14	---	---	---	8.04	7.69	8.14	7.70	7.92	8.64	9.36	9.82	9.10
15	---	---	---	8.05	7.67	8.15	7.62	7.95	8.67	9.38	9.84	9.12
16	---	---	---	8.06	7.69	8.11	7.27	7.98	8.70	9.41	9.86	9.16
17	---	---	---	8.09	7.75	7.99	7.31	8.01	8.73	9.44	9.89	9.18
18	---	---	---	8.09	7.76	8.00	7.36	8.04	8.76	9.47	9.91	9.18
19	---	---	---	8.11	7.78	7.99	7.41	8.08	8.79	9.49	9.92	9.17
20	---	---	---	8.07	7.84	7.47	7.45	8.11	8.80	9.52	9.94	9.19
21	---	---	---	8.06	7.86	7.23	7.47	8.10	8.81	9.55	9.93	9.20
22	---	---	---	8.06	7.88	7.36	7.52	8.09	8.84	9.58	9.94	9.21
23	---	---	---	8.06	7.90	7.44	7.56	8.11	8.87	9.58	9.96	9.09
24	---	---	---	8.07	7.92	7.48	7.58	8.12	8.90	9.55	9.98	9.00
25	---	---	---	8.07	7.93	7.53	7.58	8.10	8.94	9.54	9.99	8.99
26	---	---	---	8.11	7.95	7.55	7.58	8.13	8.97	9.53	9.96	9.00
27	---	---	---	8.14	7.96	7.57	7.58	8.15	8.99	9.56	9.96	9.01
28	---	---	---	8.16	7.98	7.61	7.51	8.17	9.01	9.56	9.96	9.01
29	---	---	---	8.16	7.99	7.69	7.39	8.21	9.01	9.58	9.97	9.03
30	---	---	---	8.15	---	7.71	7.44	8.24	9.04	9.60	9.97	9.03
31	---	---	---	8.09	---	7.75	---	8.27	---	9.60	9.97	---
Mean	---	---	---	8.09	7.96	7.87	7.52	7.92	8.67	9.41	9.83	9.17
Max	---	---	---	8.16	8.16	8.15	7.78	8.27	9.04	9.60	9.99	9.96
Min	---	---	---	7.98	7.67	7.23	7.27	7.47	8.29	9.07	9.61	8.99

Water Year 2000	
Mean	8.51
High	7.23
Low	9.99

354302081433201 Local number BK-126, GLEN ALPINE RESEARCH STATION NEAR MORGANTON, NC (BEDROCK)—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.03	9.20	---	8.62	8.34	8.07	7.14	8.06	8.79	9.11	7.82	---
2	9.04	9.20	---	8.64	8.35	8.08	7.23	8.08	8.79	9.13	7.86	---
3	9.06	9.20	---	8.65	8.38	8.11	7.27	8.12	8.84	8.99	7.89	---
4	9.07	9.20	---	8.65	8.38	8.10	7.32	8.15	8.87	8.83	7.93	---
5	9.08	9.19	---	8.67	8.39	8.10	7.36	8.17	8.89	8.37	---	---
6	9.09	9.19	---	8.70	8.41	8.09	7.38	8.22	8.91	8.42	---	---
7	9.11	9.19	8.94	8.71	8.43	8.11	7.42	8.25	8.93	8.49	8.06	---
8	9.13	9.18	8.96	8.72	8.45	8.12	7.45	8.27	8.94	8.50	8.11	---
9	9.14	9.13	8.97	8.75	8.44	8.13	7.48	8.28	8.95	8.52	8.15	---
10	9.14	9.05	8.97	8.77	8.46	8.16	7.51	8.32	8.98	8.54	---	---
11	9.16	9.03	8.97	8.77	8.49	8.17	7.55	8.34	9.00	8.58	---	---
12	9.17	9.02	8.99	8.78	8.49	8.17	7.58	8.37	9.03	8.63	---	---
13	9.17	9.02	9.00	8.80	8.48	8.14	7.59	8.41	9.06	8.63	---	---
14	9.18	9.01	8.98	8.80	8.46	8.16	7.61	8.44	9.08	8.63	---	---
15	9.19	9.02	9.00	8.80	8.44	8.02	7.62	8.47	9.05	8.67	---	---
16	9.19	9.02	8.93	8.81	8.44	7.83	7.66	8.50	9.06	8.72	---	---
17	9.21	9.01	8.36	8.82	8.37	7.85	7.70	8.52	9.10	8.74	---	---
18	9.21	9.02	8.33	8.82	8.30	7.89	7.74	8.52	9.13	8.77	---	---
19	9.22	9.02	8.34	8.56	8.28	7.91	7.77	8.56	9.16	8.79	---	---
20	9.21	9.02	8.40	8.09	8.28	7.86	7.79	8.59	9.18	8.80	---	---
21	9.21	9.03	8.41	8.13	8.29	7.21	7.82	8.61	9.18	8.82	---	---
22	9.22	9.03	8.44	8.16	8.30	7.25	7.84	8.64	9.19	8.85	---	---
23	9.22	9.03	8.47	8.17	8.31	7.37	7.86	8.67	9.20	8.88	---	---
24	9.20	9.03	8.48	8.20	8.33	7.44	7.88	8.70	9.22	8.90	---	---
25	9.20	8.98	8.51	8.24	8.19	7.50	7.90	8.69	9.24	8.82	---	---
26	9.20	8.85	8.52	8.25	8.05	7.55	7.94	8.69	9.16	8.47	---	---
27	9.19	8.83	8.51	8.27	8.05	7.59	7.96	8.72	9.04	7.77	---	---
28	9.20	8.83	8.53	8.31	8.05	7.63	7.98	8.74	9.04	7.79	---	---
29	9.20	8.83	8.55	8.32	---	7.47	8.03	8.75	9.06	7.75	---	---
30	9.20	8.84	8.57	8.29	---	6.86	8.04	8.78	9.09	7.67	---	---
31	9.20	---	8.61	8.31	---	7.03	---	8.81	---	7.76	---	---
Mean	9.16	9.04	8.67	8.53	8.34	7.81	7.65	8.47	9.04	8.56	7.97	---
Max	9.22	9.20	9.00	8.82	8.49	8.17	8.04	8.81	9.24	9.13	8.15	---
Min	9.03	8.83	8.33	8.09	8.05	6.86	7.14	8.06	8.79	7.67	7.82	---

Water Year 2001	
Mean	8.51
High	6.86
Low	9.24

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	9.95
18	---	---	---	---	---	---	---	---	---	---	---	9.93
19	---	---	---	---	---	---	---	---	---	---	---	9.91
20	---	---	---	---	---	---	---	---	---	---	---	9.90
21	---	---	---	---	---	---	---	---	---	---	---	9.89
22	---	---	---	---	---	---	---	---	---	---	---	9.83
23	---	---	---	---	---	---	---	---	---	---	---	9.71
24	---	---	---	---	---	---	---	---	---	---	---	9.69
25	---	---	---	---	---	---	---	---	---	---	---	9.67
26	---	---	---	---	---	---	---	---	---	---	---	9.47
27	---	---	---	---	---	---	---	---	---	---	---	9.02
28	---	---	---	---	---	---	---	---	---	---	---	8.90
29	---	---	---	---	---	---	---	---	---	---	---	8.92
30	---	---	---	---	---	---	---	---	---	---	---	8.93
31	---	---	---	---	---	---	---	---	---	---	---	---
Mean	---	---	---	---	---	---	---	---	---	---	---	9.55
Max	---	---	---	---	---	---	---	---	---	---	---	9.95
Min	---	---	---	---	---	---	---	---	---	---	---	8.90

Water Year 2002	
Mean	9.55
High	8.90
Low	9.95

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.95	8.10	7.68	6.88	7.44	6.80	6.52	6.48	6.51	6.98	7.31	7.62
2	8.97	8.12	7.68	6.91	7.48	6.80	6.57	6.50	6.57	6.60	7.32	7.64
3	8.98	8.14	7.72	6.90	7.50	6.88	6.62	6.55	6.55	6.49	7.27	7.66
4	8.99	8.17	7.74	6.92	7.49	6.92	6.66	6.60	6.35	6.64	6.85	7.65
5	9.01	8.18	7.58	6.93	7.52	6.93	6.69	6.58	6.41	6.72	6.92	7.67
6	9.03	8.06	7.45	6.98	7.52	6.71	6.75	6.14	6.49	6.79	7.00	7.70
7	9.04	8.07	7.42	7.02	7.49	6.65	6.49	5.92	6.18	6.84	7.02	7.72
8	9.07	8.07	7.42	7.00	7.50	6.70	6.36	6.04	5.76	6.90	6.75	7.74
9	9.08	8.08	7.45	7.04	7.49	6.73	6.14	6.17	5.94	6.95	6.80	7.76
10	9.09	8.07	7.43	7.11	7.46	6.80	5.69	6.26	6.11	6.98	6.82	7.79
11	8.93	7.96	7.05	7.17	7.49	6.85	5.29	6.33	6.21	7.03	6.86	7.81
12	8.80	7.73	7.02	7.21	7.51	6.89	5.61	6.40	6.29	7.08	6.92	7.83
13	8.79	7.63	6.83	7.21	7.54	6.92	5.86	6.48	6.36	7.10	6.99	7.85
14	8.79	7.66	6.62	7.24	7.55	6.98	6.01	6.54	6.42	7.08	7.04	7.88
15	8.74	7.69	6.79	7.29	7.44	7.00	6.09	6.54	6.47	7.11	7.07	7.89
16	8.20	7.45	6.89	7.29	7.41	6.81	6.15	6.39	6.46	7.15	7.09	7.92
17	8.16	7.04	6.99	7.31	7.36	6.72	6.22	6.46	6.44	7.18	7.12	7.94
18	8.23	7.21	7.05	7.35	7.31	6.74	5.76	6.32	6.44	7.21	7.18	7.95
19	8.26	7.28	7.06	7.37	7.22	6.72	5.67	6.32	6.48	7.23	7.24	7.99
20	8.29	7.33	6.77	7.38	7.22	5.93	5.83	6.37	6.55	7.27	7.27	8.02
21	8.32	7.34	6.76	7.42	7.21	5.94	5.90	6.41	6.61	7.28	7.30	8.04
22	8.32	7.38	6.84	7.45	6.79	6.18	6.00	6.22	6.66	7.29	7.33	8.03
23	8.32	7.45	6.92	7.47	6.51	6.31	6.10	5.86	6.71	7.24	7.36	7.81
24	8.33	7.48	6.66	7.51	6.66	6.40	6.18	5.92	6.77	7.29	7.41	7.83
25	8.33	7.50	6.38	7.52	6.75	6.47	6.20	6.04	6.81	7.34	7.45	7.85
26	8.32	7.53	6.60	7.53	6.81	6.52	6.24	6.13	6.84	7.38	7.48	7.88
27	8.33	7.56	6.66	7.57	6.80	6.60	6.33	6.22	6.88	7.39	7.51	7.89
28	8.31	7.59	6.73	7.57	6.77	6.65	6.38	6.29	6.92	7.42	7.55	7.91
29	8.21	7.59	6.79	7.57	---	6.67	6.41	6.32	6.95	7.45	7.57	7.97
30	8.10	7.61	6.85	7.52	---	6.53	6.46	6.39	6.98	7.44	7.59	7.99
31	8.10	---	6.88	7.44	---	6.46	---	6.42	---	7.39	7.61	---
Mean	8.59	7.70	7.06	7.26	7.26	6.65	6.17	6.31	6.50	7.10	7.19	7.84
Max	9.09	8.18	7.74	7.57	7.55	7.00	6.75	6.60	6.98	7.45	7.61	8.04
Min	8.10	7.04	6.38	6.88	6.51	5.93	5.29	5.86	5.76	6.49	6.75	7.62

Water Year 2003	
Mean	7.14
High	5.29
Low	9.09

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.99	7.43	7.11	6.95	7.27	6.90	7.04	6.98	7.57	7.72	7.81	8.54
2	8.01	7.42	7.16	6.95	7.28	6.91	7.06	6.97	7.61	7.63	7.86	8.56
3	8.03	7.43	7.20	6.96	6.97	6.94	7.07	7.01	7.66	7.31	7.91	8.56
4	8.02	7.44	7.19	6.97	6.94	6.94	7.08	7.05	7.65	7.07	7.97	8.58
5	8.06	7.43	7.08	6.98	6.99	6.95	7.11	7.06	7.65	6.88	8.01	8.60
6	8.07	7.37	7.10	7.02	6.44	6.93	7.11	7.10	7.69	7.04	8.05	8.61
7	8.08	7.30	7.12	7.04	6.24	6.93	7.09	7.13	7.72	7.12	8.10	8.47
8	8.08	7.31	7.13	7.04	6.51	6.97	7.08	7.15	7.73	7.20	8.14	6.56
9	8.03	7.33	7.15	7.02	6.58	6.99	7.11	7.16	7.72	7.27	8.17	6.72
10	8.01	7.32	6.99	7.06	6.61	7.03	7.12	7.17	7.74	7.33	8.20	7.11
11	7.98	7.31	6.74	7.08	6.67	7.03	7.12	7.20	7.76	7.38	8.23	7.26
12	7.92	7.31	6.83	7.06	6.68	7.04	6.99	7.22	7.80	7.40	8.22	7.38
13	7.86	7.34	6.87	7.10	6.66	7.08	6.55	7.24	7.80	7.43	8.22	7.47
14	7.76	7.39	6.68	7.11	6.66	7.09	6.47	7.23	7.78	7.48	8.26	7.53
15	7.73	7.40	6.63	7.12	6.69	7.08	6.62	7.26	7.75	7.56	8.29	7.59
16	7.70	7.41	6.68	7.16	6.71	7.04	6.68	7.29	7.70	7.64	8.31	7.62
17	7.65	7.41	6.66	7.17	6.70	7.06	6.72	7.30	7.71	7.69	8.34	7.38
18	7.62	7.41	6.66	7.11	6.71	7.06	6.75	7.26	7.75	7.67	8.36	7.21
19	7.60	7.07	6.69	7.15	6.72	7.03	6.77	7.29	7.80	7.69	8.38	7.35
20	7.59	6.99	6.75	7.19	6.72	7.03	6.78	7.33	7.86	7.75	8.41	7.44
21	7.55	7.03	6.78	7.19	6.76	7.01	6.80	7.36	7.84	7.80	8.43	7.49
22	7.54	7.05	6.78	7.18	6.80	7.07	6.84	7.38	7.55	7.84	8.40	7.55
23	7.54	7.07	6.77	7.20	6.81	7.10	6.86	7.41	7.59	7.88	8.39	7.60
24	7.56	7.07	6.78	7.20	6.81	7.13	6.89	7.43	7.64	7.95	8.42	7.65
25	7.56	7.11	6.83	7.25	6.84	7.14	6.91	7.46	7.67	7.99	8.42	7.69
26	7.52	7.12	6.86	7.23	6.86	7.14	6.91	7.49	7.58	8.01	8.45	7.73
27	7.42	7.14	6.87	7.23	6.87	7.14	6.91	7.50	7.58	8.03	8.48	7.73
28	7.41	7.10	6.89	7.26	6.88	7.13	6.96	7.53	7.60	7.67	8.48	7.01
29	7.40	7.08	6.89	7.27	6.89	7.13	7.00	7.57	7.65	7.69	8.46	7.08
30	7.44	7.08	6.90	7.22	---	7.10	7.00	7.57	7.69	7.71	8.49	7.21
31	7.44	---	6.94	7.24	---	7.05	---	7.54	---	7.75	8.53	---
Mean	7.75	7.26	6.89	7.12	6.77	7.04	6.91	7.28	7.69	7.57	8.26	7.64
Max	8.08	7.44	7.20	7.27	7.28	7.14	7.12	7.57	7.86	8.03	8.53	8.61
Min	7.40	6.99	6.63	6.95	6.24	6.90	6.47	6.97	7.55	6.88	7.81	6.56

Water Year 2004	
Mean	7.35
High	6.24
Low	8.61

354302081433201 Local number BK-126, GLEN ALPINE RESEARCH STATION NEAR MORGANTON, NC (BEDROCK)—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.30	8.06	7.31	7.44	7.75	7.50	7.18	7.88	---	---	---	7.69
2	7.35	8.06	7.32	7.48	7.77	7.49	7.21	7.92	---	---	---	7.74
3	7.39	8.07	7.34	7.50	7.74	7.50	7.29	7.95	---	---	---	7.79
4	7.44	7.64	7.38	7.51	7.70	7.52	7.35	7.99	---	---	---	7.84
5	7.49	7.47	7.43	7.53	7.72	7.55	7.40	8.01	---	---	---	7.89
6	7.55	7.54	7.46	7.55	7.75	7.59	7.43	8.02	---	---	---	7.94
7	7.58	7.59	7.46	7.60	7.75	7.59	7.44	8.04	---	---	---	7.96
8	7.61	7.66	7.52	7.61	7.75	7.61	7.46	8.07	---	---	---	7.99
9	7.65	7.72	7.39	7.64	7.76	7.67	7.49	8.10	---	---	---	8.04
10	7.68	7.76	6.91	7.64	7.79	7.68	7.51	8.13	---	---	---	8.08
11	7.71	7.77	7.00	7.67	7.83	7.71	7.54	8.15	---	---	---	8.13
12	7.73	7.51	7.08	7.69	7.83	7.75	7.55	8.19	---	---	7.66	8.16
13	7.70	7.32	7.14	7.69	7.86	7.80	7.50	8.21	---	---	7.70	8.20
14	7.74	7.41	7.22	7.39	7.87	7.84	7.16	8.22	---	---	7.76	8.23
15	7.77	7.45	7.27	7.39	7.88	7.86	7.23	8.21	---	---	7.83	8.28
16	7.81	7.49	7.30	7.40	7.88	7.86	7.33	8.23	---	---	7.88	8.31
17	7.84	7.53	7.33	7.46	7.90	7.85	7.38	8.27	---	---	7.91	8.34
18	7.87	7.56	7.34	7.50	7.92	7.81	7.44	8.30	---	---	7.30	8.37
19	7.88	7.59	7.38	7.51	7.94	7.82	7.50	8.32	---	---	7.27	8.41
20	7.89	7.63	7.44	7.53	7.95	7.83	7.55	8.30	---	---	7.38	8.44
21	7.91	7.68	7.48	7.58	7.86	7.85	7.59	8.34	---	---	7.40	8.47
22	7.93	7.69	7.50	7.59	7.77	7.87	7.61	8.36	---	---	7.43	8.50
23	7.94	7.63	7.23	7.65	7.78	7.66	7.62	8.37	---	---	7.04	8.53
24	7.94	7.31	7.06	7.67	7.78	7.61	7.67	8.40	---	---	7.19	8.57
25	7.97	7.00	7.14	7.67	7.80	7.62	7.72	---	---	---	7.31	8.59
26	7.99	7.15	7.19	7.69	7.82	7.65	7.75	---	---	---	7.38	8.60
27	8.00	7.20	7.28	7.76	7.83	7.65	7.78	---	---	---	7.44	8.63
28	8.01	7.24	7.32	7.80	7.69	6.85	7.82	---	---	---	7.50	8.65
29	8.01	7.30	7.33	7.79	---	6.91	7.83	---	---	---	7.55	8.67
30	8.01	7.33	7.38	7.76	---	7.05	7.85	---	---	---	7.57	8.71
31	8.04	---	7.41	7.75	---	7.14	---	---	---	---	7.62	---
Mean	7.77	7.55	7.30	7.59	7.81	7.60	7.51	8.17	---	---	7.51	8.26
Max	8.04	8.07	7.52	7.80	7.95	7.87	7.85	8.40	---	---	7.91	8.71
Min	7.30	7.00	6.91	7.39	7.69	6.85	7.16	7.88	---	---	7.04	7.69

Water Year 2005	
Mean	7.70
High	6.85
Low	8.71

354302081433201 Local number BK-126, GLEN ALPINE RESEARCH STATION NEAR MORGANTON, NC (BEDROCK)—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.73	8.33	8.24	8.02	7.94	8.19	8.42	8.40	8.92	9.19	9.55	9.09
2	8.76	8.34	8.26	7.99	7.94	8.19	8.44	8.43	8.92	9.21	9.57	9.12
3	8.77	8.35	8.27	7.90	7.93	8.23	8.40	8.45	8.93	9.24	9.59	9.14
4	8.79	8.35	8.27	7.90	7.92	8.25	8.41	8.47	8.95	9.27	9.61	8.90
5	8.81	8.36	8.21	7.91	7.93	8.25	8.41	8.46	8.97	9.28	9.63	8.18
6	8.76	8.38	8.15	7.94	7.94	8.24	8.43	8.48	8.98	9.29	9.65	8.15
7	8.35	8.38	8.17	7.96	7.95	8.28	8.42	8.51	9.00	9.31	9.66	8.26
8	7.21	8.38	8.17	7.96	7.96	8.28	8.43	8.51	9.02	9.32	9.68	8.31
9	7.49	8.39	8.10	7.98	7.98	8.28	8.47	8.52	9.04	9.33	9.69	8.36
10	7.61	8.40	8.07	7.99	---	8.30	8.48	8.53	9.06	9.35	9.69	8.40
11	7.69	8.41	8.08	7.97	7.97	8.33	8.49	8.53	9.08	9.37	9.52	8.41
12	7.76	8.42	8.10	7.97	7.98	8.33	8.49	8.56	9.09	9.38	9.08	8.43
13	7.81	8.42	8.12	7.92	7.99	8.32	8.49	8.58	9.11	9.40	8.90	8.26
14	7.86	8.43	8.13	7.80	8.00	8.34	8.49	8.59	9.12	9.40	8.95	7.85
15	7.91	8.43	8.05	7.84	8.01	8.38	8.50	8.61	9.15	9.42	8.96	7.98
16	7.97	8.42	7.95	7.86	8.01	8.37	8.52	8.63	9.17	9.44	8.51	8.06
17	8.01	8.43	7.95	7.85	8.03	8.39	8.53	8.64	9.20	9.46	8.57	8.10
18	8.04	8.44	7.95	7.83	8.05	8.41	8.56	8.65	9.21	9.47	8.63	8.15
19	8.08	8.45	7.96	7.84	8.07	8.42	8.53	8.68	9.23	9.50	8.68	8.18
20	8.11	8.45	7.98	7.85	8.06	8.41	8.50	8.69	9.25	9.50	8.72	8.24
21	8.13	8.41	7.99	7.85	8.08	8.30	8.52	8.71	9.28	9.51	8.77	8.29
22	8.16	8.31	8.00	7.85	8.09	8.32	8.48	8.73	9.29	9.39	8.80	8.32
23	8.21	8.31	8.01	7.84	8.11	8.34	8.47	8.74	9.28	9.38	8.83	8.34
24	8.23	8.32	8.02	7.84	8.14	8.34	8.48	8.76	9.23	9.39	8.87	8.34
25	8.26	8.35	8.01	7.87	8.14	8.36	8.50	8.78	9.24	9.40	8.91	8.33
26	8.28	8.36	8.03	7.88	8.16	8.39	8.47	8.79	9.20	9.43	8.94	8.36
27	8.29	8.36	8.04	7.89	8.16	8.40	8.34	8.82	9.09	9.46	8.98	8.39
28	8.30	8.37	8.03	7.89	8.17	8.40	8.33	8.85	9.09	---	9.01	8.34
29	8.31	8.30	7.99	7.88	---	8.42	8.37	8.87	9.12	9.49	9.04	8.07
30	8.32	8.24	7.99	7.90	---	8.43	8.39	8.88	9.16	9.50	9.08	8.11
31	8.32	---	8.00	7.92	---	8.43	---	8.90	---	9.53	9.10	---
Mean	8.17	8.38	8.07	7.90	8.03	8.33	8.46	8.64	9.11	9.39	9.13	8.35
Max	8.81	8.45	8.27	8.02	8.17	8.43	8.56	8.90	9.29	9.53	9.69	9.14
Min	7.21	8.24	7.95	7.80	7.92	8.19	8.33	8.40	8.92	9.19	8.51	7.85

Water Year 2006	
Mean	8.50
High	7.21
Low	9.69

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.15	8.14	---	---	---	7.81	7.64	7.92	8.62	9.17	9.67	9.89
2	8.19	---	---	---	---	7.02	7.66	7.94	8.63	9.20	9.69	9.91
3	8.22	---	---	---	---	7.16	7.68	7.96	8.60	9.21	9.71	9.92
4	8.25	---	---	---	---	7.27	7.69	7.95	8.61	9.23	9.72	9.94
5	8.28	---	---	---	---	7.33	7.71	7.95	8.67	9.26	9.75	9.97
6	8.32	---	---	---	---	7.39	7.71	8.02	8.75	9.28	9.77	10.00
7	8.35	---	---	---	---	7.39	7.73	8.48	8.80	9.30	9.78	10.01
8	8.37	---	---	---	---	7.43	7.76	8.46	8.84	9.31	9.80	10.02
9	8.38	---	---	---	---	7.48	7.77	8.59	8.85	9.34	9.82	10.04
10	8.40	---	---	---	---	7.50	7.79	8.61	8.88	9.36	9.84	10.07
11	8.42	---	---	---	---	7.54	7.79	8.55	8.93	9.38	9.86	10.08
12	8.45	---	---	---	---	7.55	7.81	8.50	8.96	9.41	9.87	10.11
13	8.49	---	---	---	---	7.57	7.85	8.57	8.97	9.41	9.87	10.12
14	8.51	---	---	---	---	7.60	7.84	8.59	8.99	9.43	9.89	9.98
15	8.54	---	---	---	---	7.62	7.71	8.57	8.92	9.47	9.91	9.82
16	8.56	---	---	---	---	7.30	7.69	8.57	8.93	9.49	9.92	9.81
17	8.39	---	---	---	---	7.14	7.72	8.51	8.96	9.50	---	9.81
18	8.12	---	---	---	---	7.24	7.74	8.41	8.99	9.51	---	9.82
19	8.14	---	---	---	---	7.30	7.76	8.50	9.00	9.53	9.90	9.82
20	8.12	---	---	---	---	7.35	7.77	8.53	9.02	9.53	9.92	9.83
21	8.15	---	---	---	---	7.39	7.78	8.50	9.03	9.53	9.94	9.84
22	8.16	---	---	---	---	7.40	7.80	8.48	9.03	9.56	9.95	9.84
23	8.19	---	---	---	8.09	7.43	7.81	8.49	9.07	9.57	9.95	9.85
24	8.22	---	---	---	8.08	7.46	7.83	8.52	9.10	9.58	9.89	9.86
25	8.25	---	---	---	7.98	7.50	7.84	8.51	9.13	9.60	9.89	9.87
26	8.27	---	---	---	7.88	7.53	7.85	8.51	9.17	9.59	9.89	9.87
27	8.26	---	---	---	7.91	7.54	7.86	8.54	9.21	9.61	9.88	9.88
28	8.05	---	---	---	7.93	7.57	7.88	8.57	9.22	9.61	9.87	9.89
29	8.08	---	---	---	---	7.59	7.89	8.60	9.23	9.62	9.87	9.91
30	8.11	---	---	---	---	7.61	7.90	8.60	9.15	9.63	9.88	9.92
31	8.12	---	---	---	---	7.61	---	8.60	---	9.65	9.88	---
Mean	8.27	8.14	---	---	7.98	7.44	7.78	8.42	8.94	9.45	9.85	9.92
Max	8.56	8.14	---	---	8.09	7.81	7.90	8.61	9.23	9.65	9.95	10.12
Min	8.05	8.14	---	---	7.88	7.02	7.64	7.92	8.60	9.17	9.67	9.81

Water Year 2007

Mean	8.73
High	7.02
Low	10.12

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.92	9.87	9.71	8.98	8.68	8.63	8.45	8.57	9.10	9.89	10.47	10.59
2	9.93	9.85	9.71	9.00	8.49	8.64	8.49	8.61	9.12	9.92	10.48	10.58
3	9.95	9.84	9.71	9.03	8.54	8.65	8.49	8.63	9.14	9.95	10.50	10.58
4	9.97	9.84	9.71	9.05	8.54	8.63	8.43	8.66	9.17	9.98	---	10.59
5	9.96	9.84	9.71	9.07	8.48	8.52	8.22	8.69	9.20	10.00	---	10.60
6	9.96	9.85	9.73	9.11	8.47	8.50	8.01	8.71	9.23	10.01	---	10.62
7	9.97	9.83	9.73	9.14	8.48	8.35	8.00	8.70	9.26	10.03	---	10.64
8	9.99	9.82	9.74	9.15	8.47	8.17	8.04	8.65	9.29	10.05	10.73	10.65
9	10.0	9.82	9.75	9.18	8.49	8.21	8.08	8.65	9.32	10.04	10.75	10.64
10	10.01	9.83	9.75	9.16	8.53	8.22	8.10	8.68	9.34	10.01	10.77	10.62
11	10.02	9.84	9.76	9.09	8.56	8.23	8.14	8.66	9.37	10.02	10.79	10.57
12	10.04	9.85	9.76	9.05	8.56	8.27	8.16	8.71	9.40	10.04	10.81	10.55
13	10.05	9.84	9.76	9.05	8.55	8.30	8.20	8.74	9.43	10.06	10.81	10.54
14	10.07	9.76	9.75	9.06	8.61	8.32	8.22	8.75	9.45	10.07	10.82	10.55
15	10.09	9.73	9.75	9.06	8.62	8.33	8.26	8.76	9.47	10.09	10.83	10.57
16	10.10	9.72	9.73	9.08	8.65	8.32	8.28	8.77	9.50	10.12	10.84	10.54
17	10.10	9.71	9.73	9.07	8.63	8.33	8.30	8.80	9.54	10.14	10.81	10.49
18	10.10	9.73	9.72	9.05	8.61	8.32	8.33	8.80	9.56	10.16	10.82	10.48
19	10.10	9.74	9.74	8.98	8.61	8.30	8.35	8.84	9.60	10.18	10.83	10.48
20	10.11	9.74	9.74	8.97	8.62	8.26	8.38	8.85	9.63	10.20	10.84	10.48
21	10.11	9.74	9.74	8.98	8.63	8.23	8.41	8.90	9.66	10.23	10.85	10.48
22	10.10	9.74	9.73	8.97	8.62	8.24	8.45	8.93	9.66	10.26	10.86	10.49
23	10.09	9.73	9.56	8.99	8.66	8.27	8.48	8.96	9.67	10.28	10.87	10.51
24	10.06	9.73	9.44	9.01	8.67	8.29	8.50	8.98	9.70	10.30	10.87	---
25	9.99	9.73	9.44	9.03	8.68	8.31	8.53	9.01	9.73	10.32	10.88	10.49
26	9.95	9.72	9.45	9.03	8.64	8.34	8.55	9.03	9.76	10.33	10.83	10.47
27	9.93	9.72	9.47	9.05	8.60	8.37	8.52	9.05	9.79	10.35	10.67	10.41
28	9.91	9.70	9.41	9.07	8.61	8.40	8.50	9.02	9.81	10.38	10.62	10.38
29	9.89	9.69	9.13	9.09	8.62	8.42	8.51	9.00	9.84	10.40	10.58	10.38
30	9.87	9.70	9.08	9.10	---	8.43	8.54	9.04	9.86	10.42	10.59	10.37
31	9.87	---	8.97	9.08	---	8.43	---	9.07	---	10.45	10.59	---
Mean	10.01	9.78	9.62	9.06	8.58	8.36	8.33	8.81	9.49	10.15	10.74	10.53
Max	10.11	9.87	9.76	9.18	8.68	8.65	8.55	9.07	9.86	10.45	10.88	10.65
Min	9.87	9.69	8.97	8.97	8.47	8.17	8.00	8.57	9.10	9.89	10.47	10.37

Water Year 2008	
Mean	9.44
High	8.00
Low	10.88

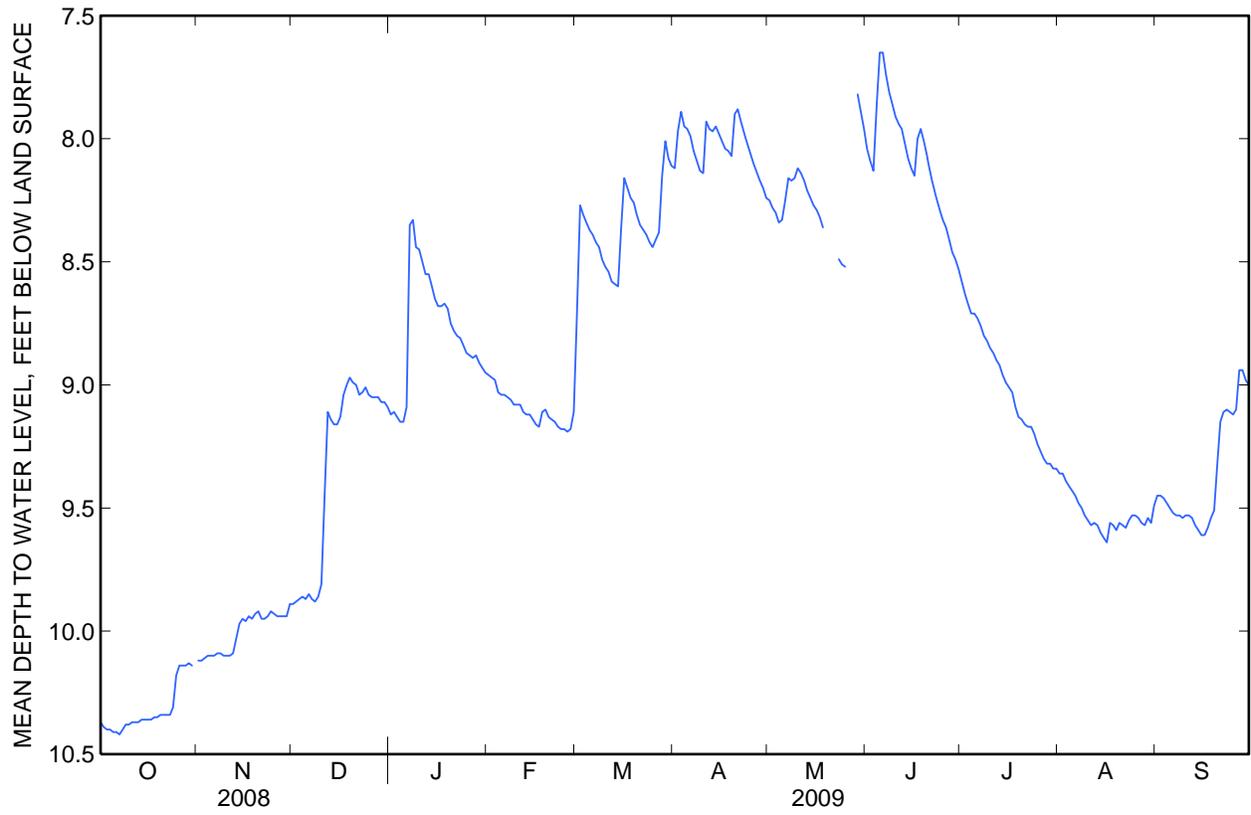
354302081433201 Local number BK-126, GLEN ALPINE RESEARCH STATION NEAR MORGANTON, NC (BEDROCK)—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.37	10.12	9.89	9.12	8.96	8.71	8.12	8.25	8.04	8.58	9.36	9.45
2	10.39	10.12	9.88	9.11	8.97	8.27	7.97	8.28	8.09	8.63	9.36	9.45
3	10.40	10.11	9.87	9.13	8.98	8.31	7.89	8.30	8.13	8.67	9.39	9.46
4	10.40	10.10	9.86	9.15	9.03	8.34	7.95	8.34	7.87	8.71	9.41	9.48
5	10.41	10.10	9.87	9.15	9.04	8.37	7.96	8.33	7.65	8.71	9.43	9.50
6	10.41	10.10	9.85	9.09	9.04	8.39	7.99	8.25	7.65	8.73	9.45	9.52
7	10.42	10.09	9.87	8.35	9.05	8.42	8.05	8.16	7.74	8.76	9.48	9.53
8	10.40	10.09	9.88	8.33	9.06	8.44	8.09	8.17	7.81	8.80	9.50	9.53
9	10.38	10.10	9.86	8.44	9.08	8.49	8.13	8.16	7.86	8.82	9.53	9.54
10	10.38	10.10	9.81	8.45	9.08	8.52	8.14	8.12	7.91	8.85	9.55	9.53
11	10.37	10.10	9.45	8.50	9.08	8.54	7.93	8.14	7.94	8.87	9.57	9.53
12	10.37	10.09	9.11	8.55	9.11	8.58	7.96	8.17	7.96	8.90	9.56	9.54
13	10.37	10.03	9.14	8.55	9.12	8.59	7.97	8.21	8.02	8.92	9.57	9.57
14	10.36	9.97	9.16	8.60	9.12	8.60	7.95	8.24	8.08	8.96	9.60	9.59
15	10.36	9.95	9.16	8.65	9.14	8.37	7.98	8.27	8.12	8.99	9.62	9.61
16	10.36	9.96	9.13	8.68	9.16	8.16	8.01	8.29	8.15	9.01	9.64	9.61
17	10.36	9.94	9.04	8.68	9.17	8.20	8.04	8.32	8.00	9.03	9.56	9.58
18	10.35	9.95	9.00	8.67	9.11	8.24	8.05	8.36	7.96	9.09	9.57	9.54
19	10.35	9.93	8.97	8.69	9.10	8.26	8.07	---	8.01	9.13	9.59	9.51
20	10.34	9.92	8.99	8.75	9.13	8.31	7.90	---	8.07	9.14	9.56	9.32
21	10.34	9.95	9.00	8.78	9.14	8.35	7.88	---	8.14	9.16	9.57	9.15
22	10.34	9.95	9.04	8.80	9.15	8.37	7.93	---	8.19	9.17	9.58	9.11
23	10.34	9.94	9.03	8.81	9.17	8.39	7.98	8.49	8.24	9.17	9.55	9.10
24	10.31	9.92	9.01	8.84	9.18	8.42	8.02	8.51	8.29	9.20	9.53	9.11
25	10.18	9.93	9.04	8.87	9.18	8.44	8.06	8.52	8.33	9.24	9.53	9.12
26	10.14	9.94	9.05	8.88	9.19	8.41	8.10	---	8.36	9.27	9.54	9.10
27	10.14	9.94	9.05	8.89	9.18	8.38	8.14	---	8.41	9.30	9.56	8.94
28	10.14	9.94	9.05	8.88	9.11	8.15	8.17	---	8.46	9.32	9.57	8.94
29	10.13	9.94	9.07	8.91	---	8.01	8.20	7.82	8.49	9.32	9.54	8.98
30	10.14	9.89	9.07	8.93	---	8.08	8.24	7.89	8.53	9.34	9.56	9.00
31	---	---	9.09	8.95	---	8.11	---	7.96	---	9.34	9.49	---
Mean	10.32	10.01	9.33	8.78	9.10	8.36	8.03	8.23	8.08	9.00	9.53	9.36
Max	10.42	10.12	9.89	9.15	9.19	8.71	8.24	8.52	8.53	9.34	9.64	9.61
Min	10.13	9.89	8.97	8.33	8.96	8.01	7.88	7.82	7.65	8.58	9.36	8.94

Water Year 2009	
Mean	9.02
High	7.65
Low	10.42

354302081433201 Local number BK-126, GLEN ALPINE RESEARCH STATION NEAR MORGANTON, NC (BEDROCK)—Continued



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