Water-Data Report 2013

02153051 GASTON SHOALS RESERVOIR ABOVE BLACKSBURG, SC

Santee Basin
Upper Broad Subbasin

LOCATION.--Lat 35°08′15″, long 81°35′53″ referenced to North American Datum of 1927, Cherokee County, SC, Hydrologic Unit 03050105, attached to the rail on the face of the dam, approximately 100 ft left of the stairs, 5.0 mi northwest of Blacksburg and 5.0 mi northeast of Gaffney.

DRAINAGE AREA.--1,280 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Data collection platform. Datum of gage is 505.20 ft above NGVD of 1929 (from Duke Power Company).

REMARKS.--Lake is formed by concrete dam with earth embankments at each end; dam completed 1908. Lake capacity is unknown. Prior to October 2005, midnight readings were published.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 103.94 ft Sep. 9, 2004; minimum elevation since normal reservoir levels were first reached, 89.17 ft, July 24, 2010.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 103.07 ft, May 6; minimum gage height, 92.33 ft, June 23.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 02153051, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/02153051.2013.pdf

02153051 GASTON SHOALS RESERVOIR ABOVE BLACKSBURG, SC—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	99.65	98.83	99.30	99.98	98.49	98.87	99.94	99.21	99.61	96.34	95.58	96.05
2	100.18	99.05	99.63	99.10	98.59	98.85	99.79	98.51	99.01	99.83	94.94	96.84
3	100.30	99.73	100.15	99.61	99.09	99.39	98.83	98.70	98.75	100.14	99.83	100.03
4	99.90	99.19	99.63	99.65	98.54	99.33	99.69	98.83	99.21	100.01	99.58	99.87
5	100.12	99.49	99.81	99.16	98.52	98.89	99.53	98.52	98.90	99.58	98.52	98.93
6	99.59	98.50	98.94	99.70	99.16	99.48	99.45	98.83	99.12	99.14	98.35	98.65
7	99.67	98.52	99.18	99.26	98.49	98.78	99.68	99.45	99.57	99.69	98.82	99.20
8	99.66	98.54	99.10	99.65	98.88	99.30	99.74	98.51	99.19	100.30	99.14	99.83
9	99.67	98.54	99.05	99.31	98.48	98.78	99.80	98.94	99.51	99.62	98.51	99.00
10	99.67	98.51	99.08	98.94	98.63	98.81	99.88	98.46	99.15	99.67	98.47	99.23
11	99.49	98.98	99.23	99.10	98.94	99.04	99.58	98.49	98.95	99.45	98.06	98.60
12	99.66	98.51	99.18	99.89	99.03	99.32	99.79	99.26	99.57	99.69	99.18	99.41
13	99.65	98.46	99.06	99.90	98.52	98.84	99.71	98.51	98.95	99.48	98.52	99.05
14	99.65	98.51	99.12	99.14	98.46	98.73	98.85	98.60	98.70	99.66	99.16	99.47
15	99.53	98.50	98.97	99.63	98.76	99.29	99.66	98.85	99.18	100.21	99.36	99.75
16	99.67	98.52	99.11	99.03	98.48	98.76	99.54	98.48	98.89	100.47	99.45	100.07
17	99.66	98.35	99.08	99.63	99.03	99.33	99.79	98.70	99.10	102.05	100.47	100.94
18	99.68	98.08	99.03	99.14	98.46	98.74	100.04	98.52	99.47	102.21	100.49	101.70
19	99.94	99.13	99.52	99.24	98.81	99.01	98.55	98.22	98.39	100.49	98.31	99.09
20	99.66	98.53	99.04	99.92	99.24	99.57	99.32	98.23	98.54	98.31	97.62	97.92
21	99.24	98.58	98.83	99.51	98.51	98.79	99.85	98.82	99.25	97.62	97.14	97.37
22	99.58	98.73	99.24	99.24	98.80	99.10	99.65	98.50	99.17	97.16	96.92	97.07
23	99.65	98.50	99.17	99.57	99.24	99.36	99.67	98.51	99.04	96.96	96.64	96.84
24	99.43	98.50	98.93	99.67	98.50	99.19	98.57	98.32	98.39	96.70	96.52	96.61
25	99.71	98.51	99.04	98.82	98.57	98.75	99.68	98.30	98.88	96.69	96.43	96.56
26	99.38	98.77	99.27	98.76	98.46	98.68	101.19	99.19	100.30	96.57	96.37	96.46
27	99.29	98.91	99.12	98.87	98.43	98.59	101.19	99.73	100.57	96.37	96.27	96.31
28	98.91	98.32	98.67	99.68	98.87	99.29	99.73	98.54	99.11	96.28	96.25	96.27
29	98.51	98.11	98.30	99.40	98.49	98.79	98.82	98.12	98.55	96.45	96.22	96.34
30	98.80	98.49	98.69	99.21	98.83	99.07	98.84	97.44	98.20	97.43	96.13	96.52
31	99.98	98.80	99.32	---	---	---	98.08	96.34	97.17	98.32	97.43	98.10
Month	100.30	98.08	99.15	99.98	98.43	99.02	101.19	96.34	99.04	102.21	94.94	98.33

02153051 GASTON SHOALS RESERVOIR ABOVE BLACKSBURG, SC—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	97.79	97.08	97.36	98.81	98.06	98.52	99.75	99.31	99.58	98.53	97.76	98.21
2	97.08	96.47	96.80	98.09	97.56	97.92	100.12	99.10	99.55	97.80	97.36	97.68
3	96.48	96.12	96.30	97.56	97.10	97.28	100.18	99.13	99.89	97.60	97.16	97.42
4	96.24	96.03	96.13	99.78	95.21	97.17	100.08	98.68	99.17	97.36	97.11	97.27
5	97.00	96.21	96.67	100.34	99.78	100.13	99.38	98.60	99.06	102.50	97.36	99.20
6	96.95	96.26	96.62	100.40	99.76	100.13	99.32	98.90	99.15	103.07	102.41	102.80
7	96.71	96.38	96.57	100.27	99.86	100.09	98.90	97.70	98.36	102.43	97.29	99.74
8	96.90	96.61	96.74	100.10	99.59	99.87	97.70	95.62	96.89	97.30	96.56	96.97
9	96.80	96.56	96.70	100.12	99.78	99.95	99.68	95.36	97.46	96.56	96.24	96.41
10	96.56	96.39	96.44	99.78	99.31	99.52	100.16	99.29	99.79	96.41	96.20	96.30
11	96.73	96.39	96.55	99.71	99.33	99.50	100.11	99.29	99.77	96.21	96.05	96.12
12	96.73	96.54	96.62	100.44	99.47	100.03	100.33	99.74	100.13	96.11	95.96	96.04
13	96.55	95.49	96.06	100.44	99.52	100.15	100.31	99.64	100.02	95.97	95.60	95.83
14	97.50	92.51	94.75	100.25	99.30	99.93	99.64	97.95	98.83	95.77	95.59	95.71
15	100.05	97.50	99.16	100.10	99.47	99.93	97.95	96.96	97.54	95.71	95.37	95.56
16	98.96	98.60	98.77	100.24	99.32	99.94	98.12	96.03	97.58	95.55	95.37	95.44
17	98.60	97.43	98.01	100.05	99.77	99.91	99.67	95.09	97.59	95.58	95.39	95.52
18	97.77	95.71	96.91	99.79	99.50	99.61	100.08	99.29	99.68	95.55	95.30	95.43
19	99.94	97.77	99.28	100.28	99.79	100.14	100.06	99.32	99.68	95.88	95.32	95.62
20	99.90	99.56	99.72	100.22	99.60	99.91	100.15	99.61	99.93	96.10	95.12	95.54
21	99.99	99.09	99.64	99.93	99.49	99.72	100.07	99.32	99.68	95.27	95.03	95.14
22	99.82	98.82	99.33	99.81	99.56	99.69	100.25	100.06	100.16	95.21	94.47	94.79
23	100.29	98.64	99.59	99.73	99.30	99.60	100.29	99.28	100.05	96.73	94.86	96.43
24	98.64	98.02	98.39	100.21	99.26	99.72	99.84	99.05	99.53	96.67	95.55	95.99
25	99.12	95.45	97.59	100.02	99.49	99.70	99.68	99.29	99.49	95.55	95.21	95.42
26	100.72	99.12	100.29	100.06	99.32	99.75	99.68	99.29	99.48	95.21	95.08	95.13
27	100.82	100.12	100.56	99.67	99.30	99.50	99.93	99.43	99.69	95.15	95.05	95.10
28	100.12	98.81	99.54	100.05	99.12	99.71	100.90	99.82	100.19	95.08	94.29	94.63
29	---	---	---	100.01	99.30	99.82	101.22	100.32	100.87	94.86	94.32	94.48
30	---	---	---	100.02	99.35	99.75	100.32	98.53	99.39	94.32	92.94	93.61
31	---	---	---	100.31	99.75	99.95	---	---	---	94.91	92.55	93.86
Month	100.82	92.51	97.75	100.44	95.21	99.57	101.22	95.09	99.27	103.07	92.55	96.24

02153051 GASTON SHOALS RESERVOIR ABOVE BLACKSBURG, SC—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	95.09	94.68	94.92	95.49	94.45	94.94	96.12	95.70	95.91	96.32	95.85	96.04
2	95.07	94.63	94.86	97.11	94.96	95.97	95.98	95.56	95.77	96.57	96.05	96.30
3	94.76	94.10	94.54	97.62	96.50	97.18	95.56	95.49	95.52	96.21	95.60	95.91
4	94.61	93.84	94.33	98.70	96.46	97.99	95.51	95.26	95.36	95.91	95.33	95.66
5	94.39	92.96	93.38	101.42	98.65	100.49	95.26	95.02	95.14	95.40	95.21	95.34
6	96.08	93.30	94.97	100.94	97.95	99.33	95.75	95.02	95.47	95.42	94.97	95.26
7	96.17	95.75	95.98	98.72	97.91	98.46	95.70	95.17	95.41	95.45	94.91	95.27
8	95.99	95.33	95.64	98.62	97.26	97.85	96.25	95.17	95.84	95.39	95.36	95.37
9	95.33	94.48	94.79	97.68	97.05	97.30	96.24	95.69	95.92	95.37	92.69	94.08
10	97.54	94.52	96.62	97.66	96.96	97.25	95.98	95.67	95.85	95.03	92.56	93.73
11	97.82	96.39	97.23	97.65	96.76	97.25	96.37	95.83	96.16	95.98	92.73	94.57
12	96.39	95.35	95.83	97.06	96.72	96.94	96.21	95.63	95.83	97.12	95.98	96.50
13	95.35	94.35	94.87	99.65	96.72	98.25	95.88	95.59	95.75	97.49	96.94	97.16
14	94.77	94.21	94.52	98.85	97.16	97.51	96.09	95.63	95.85	97.15	96.74	97.00
15	94.75	94.07	94.44	98.49	97.42	98.06	95.81	95.10	95.45	96.74	96.68	96.70
16	94.37	93.24	93.90	97.42	96.74	97.04	95.50	95.08	95.36	96.96	96.26	96.69
17	94.77	92.76	93.99	96.86	96.57	96.68	95.50	95.21	95.29	97.30	96.22	96.87
18	94.73	94.34	94.53	96.93	96.58	96.80	95.33	95.21	95.25	97.20	97.09	97.16
19	94.95	94.35	94.72	96.80	95.84	96.22	96.53	95.32	95.77	97.44	96.95	97.18
20	94.43	93.86	94.17	96.10	95.71	95.81	96.72	96.10	96.37	97.17	96.90	97.08
21	94.43	94.31	94.38	97.14	96.10	96.87	96.36	95.55	95.88	97.98	97.13	97.35
22	94.32	92.36	93.96	97.77	96.71	97.19	95.86	95.05	95.50	98.39	97.78	98.05
23	94.00	92.33	93.41	97.06	96.56	96.85	95.40	94.98	95.18	97.78	97.10	97.46
24	94.94	94.00	94.56	96.56	96.34	96.43	95.96	94.99	95.65	97.66	97.01	97.27
25	96.01	94.54	95.11	96.52	95.62	96.16	95.60	94.41	94.83	97.46	97.00	97.25
26	95.59	94.61	95.12	95.86	95.45	95.64	95.15	93.91	94.54	97.82	97.15	97.61
27	94.89	94.37	94.65	100.01	95.43	97.04	95.53	93.87	94.84	97.57	97.23	97.43
28	94.48	93.61	94.22	100.12	97.31	98.86	95.96	93.52	95.03	97.52	97.01	97.28
29	94.91	93.02	94.20	97.32	96.48	96.90	95.53	95.05	95.30	97.19	96.93	97.06
30	94.70	94.51	94.60	96.48	96.06	96.31	95.72	94.99	95.43	97.19	97.14	97.17
31	---	---	---	96.60	96.03	96.18	96.32	95.53	96.02	---	---	---
Month	97.82	92.33	94.75	101.42	94.45	97.15	96.72	93.52	95.53	98.39	92.56	96.46

	Max	Min	Mean
Year	103.07	92.33	97.69