

Water-Data Report 2008

02153550 NINETYNINE ISLAND RESERVOIR BELOW CHEROKEE FALLS, SC

Santee Basin
Upper Broad Subbasin

LOCATION.--Lat 35°01'54", long 81°29'37" referenced to North American Datum of 1927, Cherokee County, SC, Hydrologic Unit 03050105, attached to the rail on the face of the dam directly in front of the stairs, 5.0 mi southwest of Blacksburg and 5.0 mi east of Gaffney.

DRAINAGE AREA.--1,550 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Data collection platform. Datum of gage is 411.46 ft above NGVD of 1929 (from Duke Power Company benchmark).

REMARKS.--Lake is formed by concrete dam with earth embankments at each end. Lake capacity is unknown.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 107.29 ft Sep. 8, 2004; minimum elevation, 96.12 ft, July 30, 2008.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 101.99 ft, Aug. 27; minimum elevation, 96.12 ft, July 30.

02153550 NINETY-NINE ISLAND RESERVOIR BELOW CHEROKEE FALLS, SC—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|----------------|------------|-------------|-----------------|------------|-------------|-----------------|------------|-------------|----------------|------------|-------------|
| | October | | | November | | | December | | | January | | |
| 1 | 99.48 | 99.20 | 99.32 | 99.47 | 99.23 | 99.35 | 99.71 | 99.12 | 99.41 | 100.09 | 99.31 | 99.69 |
| 2 | 99.58 | 99.05 | 99.34 | 99.80 | 99.19 | 99.48 | 99.70 | 99.16 | 99.38 | 99.73 | 99.13 | 99.47 |
| 3 | 99.51 | 99.24 | 99.34 | 99.51 | 99.09 | 99.34 | 99.50 | 99.09 | 99.30 | 99.46 | 99.13 | 99.33 |
| 4 | 99.43 | 99.21 | 99.32 | 99.45 | 99.16 | 99.35 | 99.58 | 98.80 | 99.32 | 99.53 | 99.20 | 99.41 |
| 5 | 99.57 | 99.16 | 99.33 | 99.50 | 99.20 | 99.35 | 100.02 | 99.25 | 99.66 | 99.75 | 99.38 | 99.48 |
| 6 | 99.53 | 99.20 | 99.43 | 99.47 | 99.18 | 99.36 | 100.17 | 99.17 | 99.86 | 99.55 | 99.15 | 99.30 |
| 7 | 99.50 | 99.22 | 99.35 | 99.72 | 99.16 | 99.40 | 99.34 | 99.12 | 99.25 | 99.72 | 99.14 | 99.30 |
| 8 | 99.47 | 99.23 | 99.35 | 99.48 | 99.20 | 99.35 | 99.82 | 99.13 | 99.47 | 99.72 | 99.09 | 99.42 |
| 9 | 99.88 | 99.16 | 99.37 | 99.48 | 99.18 | 99.37 | 99.72 | 99.24 | 99.42 | 99.73 | 99.10 | 99.40 |
| 10 | 99.53 | 99.16 | 99.35 | 99.43 | 99.21 | 99.37 | 99.84 | 99.10 | 99.50 | 99.90 | 99.15 | 99.47 |
| 11 | 99.46 | 99.20 | 99.30 | 99.49 | 99.18 | 99.35 | 99.59 | 99.25 | 99.37 | 99.71 | 98.62 | 99.01 |
| 12 | 99.46 | 99.20 | 99.30 | 99.49 | 99.21 | 99.33 | 99.49 | 99.09 | 99.30 | 99.75 | 98.75 | 99.27 |
| 13 | 99.48 | 99.16 | 99.30 | 99.50 | 99.24 | 99.36 | 99.72 | 99.17 | 99.36 | 99.79 | 98.55 | 99.34 |
| 14 | 99.45 | 99.17 | 99.30 | 99.44 | 99.24 | 99.35 | 99.71 | 99.08 | 99.34 | 99.63 | 98.25 | 98.97 |
| 15 | 99.47 | 99.17 | 99.29 | 99.67 | 99.06 | 99.34 | 99.70 | 99.17 | 99.41 | 99.67 | 99.16 | 99.45 |
| 16 | 99.45 | 99.23 | 99.33 | 99.70 | 99.07 | 99.31 | 99.71 | 99.10 | 99.37 | 99.68 | 99.16 | 99.48 |
| 17 | 99.51 | 99.18 | 99.33 | 99.69 | 99.09 | 99.34 | 99.71 | 99.11 | 99.40 | 99.68 | 99.33 | 99.45 |
| 18 | 99.50 | 99.18 | 99.34 | 99.47 | 99.21 | 99.36 | 99.57 | 99.19 | 99.29 | 99.57 | 99.18 | 99.45 |
| 19 | 99.50 | 99.18 | 99.34 | 99.49 | 99.23 | 99.37 | 99.58 | 99.05 | 99.29 | 99.57 | 99.23 | 99.41 |
| 20 | 99.48 | 99.18 | 99.31 | 99.48 | 99.19 | 99.35 | 99.56 | 99.23 | 99.44 | 99.59 | 99.16 | 99.34 |
| 21 | 99.47 | 99.19 | 99.30 | 99.56 | 99.20 | 99.38 | 99.80 | 99.11 | 99.42 | 99.62 | 98.45 | 99.10 |
| 22 | 99.48 | 99.19 | 99.30 | 99.64 | 99.19 | 99.38 | 99.83 | 99.27 | 99.46 | 99.67 | 99.25 | 99.46 |
| 23 | 99.48 | 99.21 | 99.32 | 99.83 | 99.10 | 99.41 | 99.91 | 99.37 | 99.60 | 99.48 | 99.25 | 99.36 |
| 24 | 99.64 | 99.17 | 99.36 | 99.48 | 99.10 | 99.37 | 99.81 | 99.14 | 99.44 | 99.61 | 99.26 | 99.39 |
| 25 | 99.68 | 99.06 | 99.33 | 99.42 | 99.34 | 99.38 | 99.72 | 99.11 | 99.46 | 99.57 | 99.34 | 99.43 |
| 26 | 99.64 | 99.39 | 99.52 | 99.90 | 99.34 | 99.51 | 99.59 | 98.64 | 99.02 | 99.58 | 99.23 | 99.38 |
| 27 | 99.52 | 99.41 | 99.44 | 99.48 | 99.09 | 99.30 | 99.57 | 98.70 | 99.28 | 99.49 | 99.26 | 99.39 |
| 28 | 99.41 | 99.16 | 99.34 | 99.70 | 99.14 | 99.37 | 99.56 | 98.99 | 99.27 | 99.48 | 99.26 | 99.36 |
| 29 | 99.55 | 99.15 | 99.36 | 99.49 | 99.10 | 99.30 | 100.18 | 99.05 | 99.53 | 99.55 | 99.26 | 99.42 |
| 30 | 99.44 | 99.21 | 99.37 | 99.71 | 99.10 | 99.42 | 100.04 | 99.36 | 99.72 | 99.56 | 99.26 | 99.40 |
| 31 | 99.53 | 99.21 | 99.41 | --- | --- | --- | 100.50 | 99.71 | 100.12 | 99.48 | 99.26 | 99.33 |
| Month | 99.88 | 99.05 | 99.34 | 99.90 | 99.06 | 99.37 | 100.50 | 98.64 | 99.43 | 100.09 | 98.25 | 99.37 |

02153550 NINETYNINE ISLAND RESERVOIR BELOW CHEROKEE FALLS, SC—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| | February | | | March | | | April | | | May | | |
| 1 | 100.10 | 99.33 | 99.49 | 99.48 | 99.26 | 99.40 | 99.57 | 99.31 | 99.43 | 99.51 | 99.29 | 99.40 |
| 2 | 100.21 | 99.33 | 99.95 | 99.66 | 99.30 | 99.43 | --- | --- | --- | 99.47 | 99.28 | 99.34 |
| 3 | 99.92 | 99.14 | 99.51 | 99.48 | 99.24 | 99.39 | --- | --- | --- | 99.51 | 99.27 | 99.37 |
| 4 | 99.78 | 99.12 | 99.43 | 99.68 | 99.24 | 99.46 | --- | --- | --- | 99.38 | 99.30 | 99.33 |
| 5 | 99.74 | 99.24 | 99.46 | 101.08 | 99.32 | 100.14 | --- | --- | --- | 99.43 | 99.28 | 99.33 |
| 6 | 99.60 | 99.18 | 99.42 | 101.00 | 100.44 | 100.68 | --- | --- | --- | 99.54 | 99.29 | 99.37 |
| 7 | 99.66 | 99.37 | 99.48 | 100.66 | 100.21 | 100.39 | --- | --- | --- | 99.50 | 99.28 | 99.35 |
| 8 | 99.60 | 99.24 | 99.46 | 100.91 | 100.62 | 100.75 | --- | --- | --- | 99.50 | 99.30 | 99.35 |
| 9 | 99.66 | 99.21 | 99.41 | 100.85 | 100.52 | 100.70 | --- | --- | --- | 99.52 | 99.05 | 99.33 |
| 10 | 99.58 | 99.35 | 99.46 | 100.94 | 99.34 | 100.29 | 99.68 | 99.23 | 99.46 | 99.51 | 99.29 | 99.38 |
| 11 | 99.58 | 99.20 | 99.45 | 99.68 | 99.27 | 99.46 | --- | --- | --- | 99.39 | 99.29 | 99.34 |
| 12 | 99.57 | 99.26 | 99.38 | 99.70 | 99.11 | 99.42 | --- | --- | --- | 99.49 | 99.15 | 99.33 |
| 13 | 99.57 | 97.86 | 98.85 | 99.67 | 99.14 | 99.47 | --- | --- | --- | 99.50 | 99.14 | 99.36 |
| 14 | 100.12 | 98.51 | 99.42 | 99.66 | 99.25 | 99.48 | --- | --- | --- | 99.51 | 99.21 | 99.34 |
| 15 | 99.59 | 99.14 | 99.43 | 99.81 | 99.33 | 99.49 | 99.51 | 99.20 | 99.38 | 99.51 | 99.16 | 99.36 |
| 16 | 99.59 | 99.25 | 99.44 | 99.67 | 99.18 | 99.50 | 99.53 | 99.18 | 99.37 | 99.53 | 99.08 | 99.32 |
| 17 | 99.58 | 99.22 | 99.40 | 99.60 | 99.09 | 99.44 | 99.49 | 99.26 | 99.37 | 99.52 | 99.13 | 99.35 |
| 18 | 99.58 | 99.21 | 99.41 | 99.59 | 99.28 | 99.40 | 99.48 | 99.28 | 99.36 | 99.51 | 99.14 | 99.32 |
| 19 | 99.66 | 99.25 | 99.46 | 99.72 | 99.23 | 99.45 | 99.59 | 99.13 | 99.35 | 99.50 | 99.10 | 99.34 |
| 20 | 99.63 | 99.36 | 99.43 | 99.85 | 99.20 | 99.52 | 99.50 | 99.19 | 99.34 | 99.96 | 99.12 | 99.46 |
| 21 | 99.69 | 99.18 | 99.46 | 99.89 | 99.23 | 99.55 | 99.51 | 99.27 | 99.37 | 99.95 | 99.35 | 99.64 |
| 22 | 99.67 | 99.23 | 99.46 | 99.72 | 99.39 | 99.55 | 99.48 | 99.30 | 99.39 | 99.68 | 99.33 | 99.52 |
| 23 | 99.66 | 99.22 | 99.47 | 99.54 | 99.23 | 99.41 | 99.50 | 99.07 | 99.32 | 99.66 | 99.29 | 99.53 |
| 24 | 99.68 | 99.25 | 99.47 | 99.60 | 99.33 | 99.42 | 99.51 | 99.14 | 99.35 | 99.67 | 99.30 | 99.54 |
| 25 | 99.58 | 99.36 | 99.46 | 99.59 | 99.24 | 99.44 | 99.48 | 99.11 | 99.32 | 99.67 | 99.41 | 99.54 |
| 26 | 99.70 | 99.18 | 99.47 | 99.65 | 99.20 | 99.45 | 99.51 | 99.08 | 99.35 | 99.69 | 99.42 | 99.55 |
| 27 | 99.69 | 99.26 | 99.48 | 99.60 | 99.34 | 99.46 | 99.49 | 99.30 | 99.37 | 99.70 | 99.29 | 99.47 |
| 28 | 99.79 | 99.21 | 99.57 | 99.58 | 99.27 | 99.46 | 99.50 | 99.30 | 99.39 | 99.71 | 99.32 | 99.50 |
| 29 | 99.68 | 99.25 | 99.46 | 99.58 | 99.34 | 99.44 | 99.57 | 99.17 | 99.37 | 99.67 | 99.40 | 99.53 |
| 30 | --- | --- | --- | 99.58 | 99.34 | 99.47 | 99.58 | 99.28 | 99.42 | 99.68 | 99.31 | 99.51 |
| 31 | --- | --- | --- | 99.57 | 99.32 | 99.49 | --- | --- | --- | 99.66 | 99.26 | 99.47 |
| Month | 100.21 | 97.86 | 99.45 | 101.08 | 99.09 | 99.66 | --- | --- | --- | 99.96 | 99.05 | 99.42 |

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|-------------|------------|-------------|-------------|------------|-------------|---------------|------------|-------------|------------------|------------|-------------|
| | June | | | July | | | August | | | September | | |
| 1 | 99.67 | 99.26 | 99.53 | 99.90 | 99.36 | 99.54 | 99.71 | 99.32 | 99.44 | 99.94 | 99.18 | 99.53 |
| 2 | 99.66 | 99.09 | 99.39 | 99.61 | 99.29 | 99.43 | 99.68 | 99.25 | 99.43 | 99.69 | 98.86 | 99.35 |
| 3 | 99.62 | 99.21 | 99.45 | 99.57 | 99.32 | 99.43 | 99.62 | 99.25 | 99.44 | 100.02 | 99.24 | 99.55 |
| 4 | 99.69 | 99.42 | 99.53 | 99.63 | 99.32 | 99.44 | 99.65 | 99.27 | 99.43 | 99.76 | 99.26 | 99.47 |
| 5 | 100.12 | 99.18 | 99.71 | 99.62 | 99.27 | 99.46 | 99.65 | 99.33 | 99.44 | 99.71 | 99.29 | 99.49 |
| 6 | 99.66 | 99.25 | 99.49 | 99.60 | 99.30 | 99.43 | 99.56 | 99.32 | 99.42 | 99.68 | 99.46 | 99.55 |
| 7 | 99.63 | 99.20 | 99.43 | 99.70 | 99.33 | 99.49 | 99.56 | 99.30 | 99.42 | 99.68 | 99.46 | 99.52 |
| 8 | 99.56 | 99.25 | 99.44 | 100.00 | 99.14 | 99.46 | 99.67 | 99.36 | 99.43 | 99.67 | 99.33 | 99.44 |
| 9 | 99.54 | 99.28 | 99.43 | 99.73 | 99.36 | 99.52 | 99.58 | 99.31 | 99.39 | 99.76 | 99.37 | 99.53 |
| 10 | 99.74 | 99.28 | 99.48 | 99.67 | 99.33 | 99.52 | 99.57 | 99.33 | 99.42 | 99.69 | 99.33 | 99.44 |
| 11 | 99.98 | 99.23 | 99.50 | 99.69 | 99.33 | 99.57 | 99.54 | 99.33 | 99.43 | 100.47 | 99.34 | 99.82 |
| 12 | 99.85 | 99.31 | 99.50 | 99.68 | 99.40 | 99.61 | 99.56 | 99.35 | 99.45 | 99.69 | 99.22 | 99.54 |
| 13 | 99.58 | 99.31 | 99.44 | 99.70 | 99.35 | 99.50 | 99.54 | 99.32 | 99.43 | 99.69 | 99.39 | 99.55 |
| 14 | 99.66 | 99.31 | 99.47 | 99.67 | 99.34 | 99.44 | 99.58 | 99.37 | 99.45 | 99.69 | 99.33 | 99.54 |
| 15 | 99.60 | 99.34 | 99.46 | 99.71 | 99.36 | 99.47 | 99.68 | 99.26 | 99.41 | 99.73 | 99.32 | 99.54 |
| 16 | 99.64 | 99.31 | 99.45 | 99.66 | 99.35 | 99.50 | 99.62 | 99.34 | 99.49 | 99.72 | 99.34 | 99.52 |
| 17 | 99.58 | 99.31 | 99.44 | 99.66 | 99.33 | 99.42 | 99.68 | 99.34 | 99.48 | 99.78 | 99.33 | 99.56 |
| 18 | 99.77 | 99.32 | 99.47 | 99.54 | 99.35 | 99.43 | 99.85 | 99.03 | 99.47 | 99.77 | 99.32 | 99.51 |
| 19 | 99.72 | 99.31 | 99.48 | 99.68 | 99.38 | 99.54 | 99.68 | 99.13 | 99.39 | 99.71 | 99.33 | 99.52 |
| 20 | 99.68 | 99.31 | 99.46 | 99.54 | 99.31 | 99.43 | 99.86 | 99.03 | 99.39 | 99.70 | 99.45 | 99.58 |
| 21 | 99.67 | 99.36 | 99.47 | 99.56 | 99.29 | 99.42 | 99.66 | 99.30 | 99.43 | 99.70 | 99.38 | 99.56 |
| 22 | 99.55 | 99.36 | 99.42 | 99.73 | 99.19 | 99.49 | 99.67 | 97.83 | 99.00 | 99.70 | 99.38 | 99.55 |
| 23 | 99.55 | 99.32 | 99.41 | 99.64 | 99.32 | 99.46 | 99.24 | 98.30 | 98.81 | 99.68 | 99.36 | 99.49 |
| 24 | 99.66 | 99.37 | 99.48 | 99.56 | 99.26 | 99.43 | 99.55 | 99.24 | 99.42 | 99.69 | 99.32 | 99.46 |
| 25 | 99.75 | 99.31 | 99.47 | 99.67 | 99.30 | 99.43 | 99.54 | 99.26 | 99.42 | 99.73 | 99.33 | 99.47 |
| 26 | 99.55 | 99.34 | 99.45 | 99.65 | 99.36 | 99.48 | 99.93 | 99.39 | 99.53 | 99.76 | 99.37 | 99.50 |
| 27 | 99.67 | 99.34 | 99.49 | 99.58 | 99.35 | 99.43 | 101.99 | 99.93 | 101.66 | 99.69 | 99.37 | 99.51 |
| 28 | 99.58 | 99.35 | 99.42 | 99.66 | 99.33 | 99.45 | 101.50 | 99.75 | 100.70 | 99.68 | 99.35 | 99.48 |
| 29 | 99.56 | 99.36 | 99.43 | 99.71 | 99.31 | 99.48 | 99.75 | 99.27 | 99.46 | 99.70 | 99.42 | 99.52 |
| 30 | 99.61 | 99.35 | 99.43 | 99.39 | 96.12 | 97.77 | 99.78 | 99.28 | 99.49 | 99.83 | 97.78 | 99.06 |
| 31 | --- | --- | --- | 99.64 | 98.33 | 99.09 | 99.83 | 99.28 | 99.49 | --- | --- | --- |
| Month | 100.12 | 99.09 | 99.47 | 100.00 | 96.12 | 99.41 | 101.99 | 97.83 | 99.52 | 100.47 | 97.78 | 99.50 |