

Water-Data Report 2011

01410500 ABSECON CREEK AT ABSECON, NJ

ABSECON CREEK BASIN

LOCATION.--Lat 39°25'49", long 74°31'14" referenced to North American Datum of 1983, Absecon City, Atlantic County, NJ, Hydrologic Unit 02040302, on right bank 20 feet below dam on Doughty Pond, 100 feet upstream of Mill Road, 0.65 mi west of Absecon, and 3.4 mi upstream of mouth.

DRAINAGE AREA.--17.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous-record gaging station, water years 1923-29, 1933-38, 1946-84, and March 2008 to current year. Annual maximum tide only at upstream side of bridge, 100 ft downstream of current location, water years 1985 to 2007.

GAGE.--Water-stage recorders and crest-stage gages above and below weir. Datum of gage is 0.00 ft above NGVD of 1929.

REMARKS.--Records poor. High tides may cause slight negative flows over weir for short periods. Due to limitations of the recording equipment, periods of negative flow are treated as zero flow. Flow regulated by Atlantic City Reservoirs: Doughty Pond immediately upstream of gage (capacity 245,000,000 gal) for period of record, and since 1936, Kuehnle Reservoir 1.5 mi upstream of gage (capacity 250,000,000 gal). Diversion from Doughty Pond for municipal supply of Atlantic City. Several measurements of water temperature were made during the year. Satellite telemetry at station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 1 | 42 | 4.1 | 11 | 5.1 | 15 | 13 | 15 | 11 | 3.1 | 0.61 | 0.31 | 30 |
| 2 | 21 | 4.3 | 11 | 7.3 | 28 | 11 | 11 | 12 | 6.6 | 0.55 | 0.37 | 32 |
| 3 | 14 | 3.8 | 7.3 | 7.7 | 23 | 6.4 | 10 | 12 | 3.4 | 0.69 | 0.39 | 31 |
| 4 | 23 | 20 | 6.0 | 6.4 | 17 | 6.4 | 7.4 | 18 | 0.35 | 1.9 | 0.43 | 30 |
| 5 | 19 | 20 | 7.4 | 5.8 | 17 | 7.5 | 12 | 16 | 0.27 | 0.40 | 0.40 | 28 |
| 6 | 13 | 15 | 5.2 | 5.5 | 17 | 12 | 6.9 | 11 | 0.26 | 0.37 | 0.43 | 25 |
| 7 | 11 | 14 | 4.5 | 5.4 | 16 | 26 | 7.8 | 12 | 0.45 | 0.42 | 0.34 | 15 |
| 8 | 6.1 | 14 | 3.7 | 6.8 | 20 | 8.3 | 10 | 10 | 0.29 | 2.0 | 0.33 | 15 |
| 9 | 3.7 | 12 | 1.9 | 6.3 | 12 | 11 | 14 | 11 | 0.61 | 15 | 0.17 | 13 |
| 10 | 2.9 | 8.2 | 2.7 | 5.2 | 15 | 14 | 10 | 11 | 0.79 | 6.4 | 0.11 | 12 |
| 11 | 3.1 | 8.1 | 3.8 | 7.3 | 12 | 31 | 9.3 | 10 | 0.24 | 1.7 | 0.09 | 12 |
| 12 | 4.7 | 8.5 | 9.1 | 16 | 14 | 19 | 10 | 9.6 | 0.29 | 2.5 | 0.07 | 13 |
| 13 | 3.4 | 9.0 | 16 | 15 | 13 | 17 | 17 | 9.6 | 0.24 | 0.93 | 0.07 | 11 |
| 14 | 5.1 | 9.1 | 10 | 14 | 17 | 12 | 12 | 7.2 | 0.31 | 0.68 | 0.08 | 11 |
| 15 | 8.7 | 8.6 | 2.1 | 14 | 13 | 12 | 9.0 | 11 | 0.54 | 0.36 | 0.11 | 14 |
| 16 | 9.7 | 7.1 | 2.2 | 14 | 7.5 | 23 | 11 | 9.0 | 0.23 | 0.30 | 0.12 | 10 |
| 17 | 3.9 | 12 | 3.9 | 14 | 11 | 17 | 23 | 13 | 0.27 | 0.28 | 0.11 | 16 |
| 18 | 4.9 | 5.9 | 5.9 | 29 | 13 | 11 | 13 | 12 | 0.30 | 0.26 | 0.11 | 18 |
| 19 | 7.5 | 5.9 | 6.2 | 24 | 19 | 12 | 10 | 9.6 | 0.50 | 0.25 | 0.11 | 14 |
| 20 | 6.6 | 4.9 | 5.6 | 16 | 7.6 | 6.3 | 9.8 | 8.6 | 0.68 | 0.25 | 0.10 | 8.5 |
| 21 | 7.3 | 3.9 | 5.4 | 17 | 4.4 | 9.4 | 14 | 7.2 | 0.77 | 0.29 | 0.05 | 7.9 |
| 22 | 7.6 | 4.2 | 5.0 | 16 | 10 | 12 | 8.9 | 6.7 | 0.78 | 0.37 | 0.11 | 8.1 |
| 23 | 3.4 | 4.9 | 5.2 | 15 | 9.2 | 9.2 | 16 | 12 | 1.1 | 0.28 | 0.12 | 10 |
| 24 | 4.3 | 7.7 | 4.5 | 14 | 9.8 | 17 | 16 | 12 | 1.2 | 0.25 | 0.11 | 9.8 |
| 25 | 4.8 | 2.6 | 4.6 | 14 | 25 | 12 | 19 | 7.3 | 1.6 | 0.20 | 1.0 | 3.9 |
| 26 | 5.4 | 4.2 | 11 | 21 | 8.7 | 11 | 15 | 5.6 | 2.0 | 0.16 | 17 | 1.5 |
| 27 | 8.4 | 6.1 | 11 | 22 | 9.6 | 9.3 | 13 | 5.3 | 1.6 | 0.14 | 45 | 0.70 |
| 28 | 8.9 | 3.1 | 5.8 | 17 | 12 | 8.7 | 14 | 4.9 | 2.3 | 0.12 | e110 | 0.62 |
| 29 | 6.2 | 2.8 | 5.0 | 16 | --- | 8.6 | 16 | 4.9 | 6.5 | 0.23 | 61 | 3.6 |
| 30 | 2.3 | 3.5 | 4.9 | 15 | --- | 6.7 | 12 | 5.1 | 1.7 | 0.27 | 39 | 5.9 |
| 31 | 5.0 | --- | 4.7 | 14 | --- | 10 | --- | 4.3 | --- | 0.28 | 27 | --- |
| Total | 276.9 | 237.5 | 192.6 | 405.8 | 395.8 | 389.8 | 372.1 | 298.9 | 39.27 | 38.44 | 304.64 | 410.52 |
| Mean | 8.93 | 7.92 | 6.21 | 13.1 | 14.1 | 12.6 | 12.4 | 9.64 | 1.31 | 1.24 | 9.83 | 13.7 |
| Max | 42 | 20 | 16 | 29 | 28 | 31 | 23 | 18 | 6.6 | 15 | e110 | 32 |
| Min | 2.3 | 2.6 | 1.9 | 5.1 | 4.4 | 6.3 | 6.9 | 4.3 | 0.23 | 0.12 | 0.05 | 0.62 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2011, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 12.8 | 16.2 | 18.9 | 21.0 | 22.2 | 27.4 | 27.2 | 23.2 | 16.5 | 12.2 | 14.0 | 11.1 |
| Max | 47.2 | 48.2 | 59.2 | 47.0 | 62.6 | 73.4 | 60.2 | 55.8 | 40.5 | 38.3 | 62.3 | 36.7 |
| (WY) | (1959) | (1973) | (2010) | (2010) | (1949) | (2010) | (2010) | (1953) | (1984) | (1959) | (1967) | (1958) |
| Min | 0.37 | 0.26 | 1.55 | 7.29 | 5.46 | 7.22 | 5.30 | 0.66 | 0.85 | 0.00 | 0.65 | 0.75 |
| (WY) | (2009) | (2009) | (1947) | (1966) | (1947) | (1966) | (1947) | (1955) | (1954) | (1981) | (1954) | (1981) |

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SUMMARY STATISTICS

| | Calendar Year 2010 | Water Year 2011 | Water Years 1946 - 2011 | |
|---------------------------------|--------------------|--------------------------|-------------------------|--------------|
| Annual total | 9,939.48 | 3,362.27 | | |
| Annual mean | 27.2 | 9.21 | 18.7 | |
| Highest annual mean | | | 35.6 | 1973 |
| Lowest annual mean | | | 6.22 | 1947 |
| Highest daily mean | 150 Mar 30 | ^a 110 Aug 28 | 265 | Feb 26, 1979 |
| Lowest daily mean | 0.29 Sep 19 | 0.05 Aug 21 | 0.00 | Many days |
| Annual seven-day minimum | 0.33 Sep 16 | 0.09 Aug 10 | 0.00 | Many days |
| Maximum peak stage | | ^b 6.37 Aug 27 | ^b 7.77 | Mar 29, 1984 |
| 10 percent exceeds | 61 | 17 | 39 | |
| 50 percent exceeds | 15 | 7.7 | 14 | |
| 90 percent exceeds | 2.2 | 0.29 | 2.8 | |

^a Estimated due to backwater from tide.

^b Affected by backwater from tide.

