



Water-Data Report 2010

344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)

Northern Atlantic Coastal Plain aquifer system
Castle Hayne Limestone
Onslow County, NC

LOCATION.--Lat 34°40'35", long 77°25'39" referenced to North American Datum of 1983, Onslow County, NC, Hydrologic Unit 03030001, 30 ft north of Ragged Point Road, 0.9 mi northwest of Verona Loop Road, at U.S. Marine Corps base Camp Lejeune.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 180 ft, diameter 2 in., cased to 170 ft, screened interval from 170 ft to 180 ft.

DATUM.--Land-surface datum is 25.95 ft above North American Vertical Datum of 1988. Measuring point: top of 6-inch steel casing, 2.54 ft above land-surface datum, December 1, 2007 to present.

PERIOD OF RECORD.--July 1988 to October 2005, December 2007 to current year.

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

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project. Well redeveloped in August 2009.

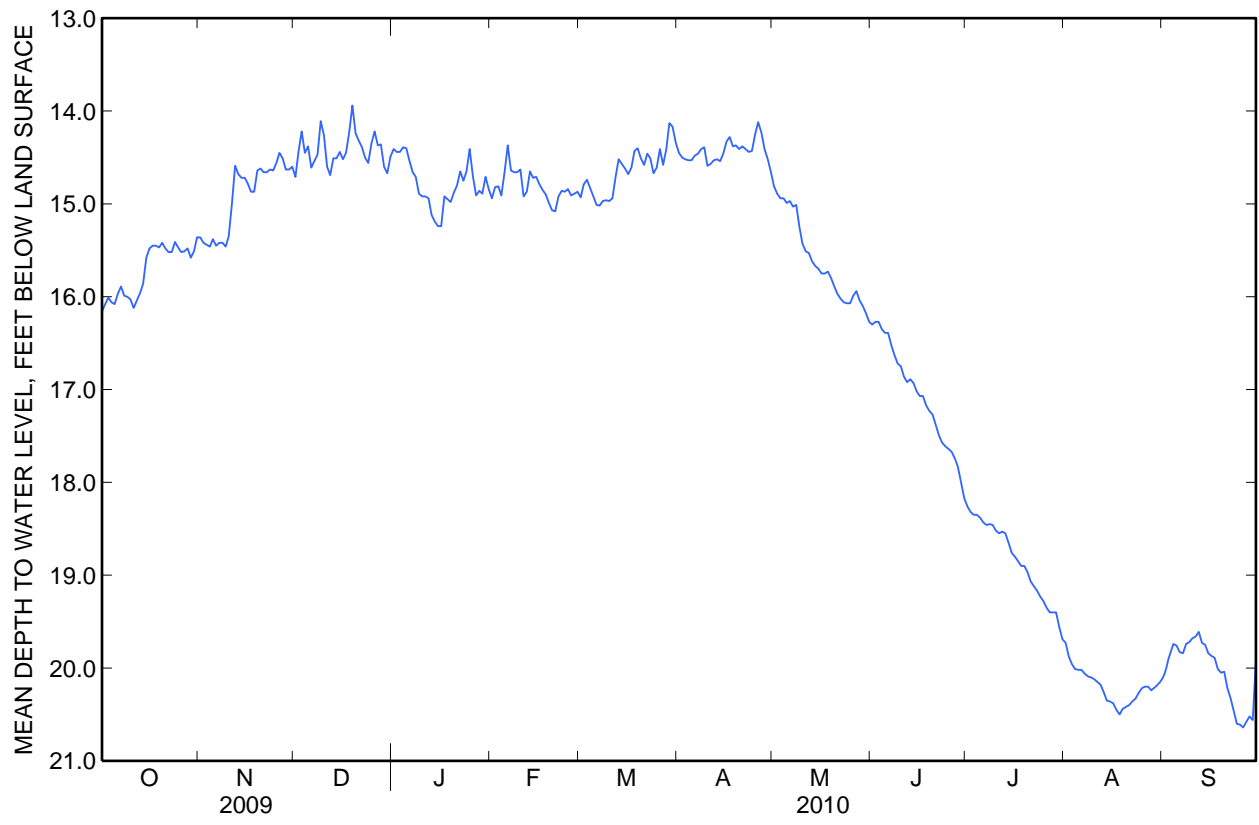
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 13.82 ft below land-surface datum, December 19, 2009; lowest water level recorded, 20.69 ft below land-surface datum, September 26, 2010.

344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)—Continued

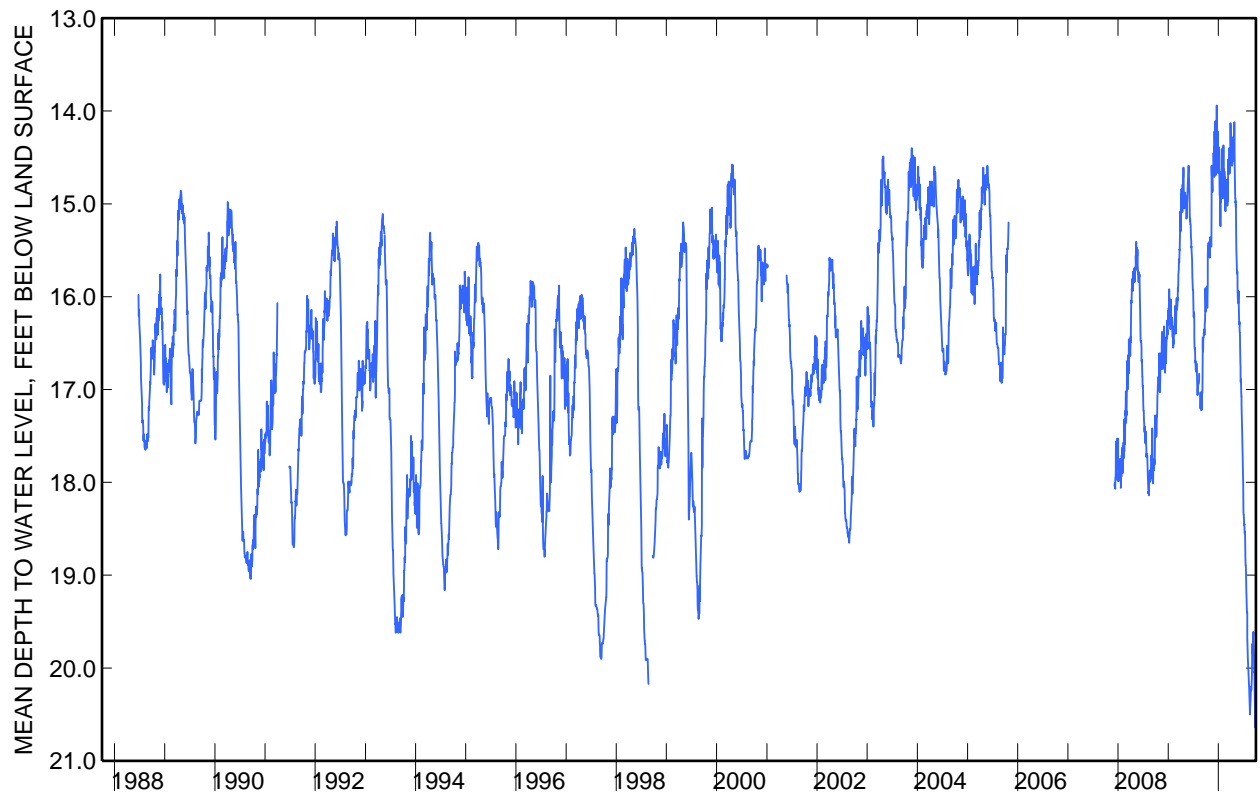
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1 | 16.16 | 15.36 | 14.71 | 14.41 | 14.94 | 14.93 | 14.45 | 14.81 | 16.30 | 18.26 | 19.73 | 20.08 |
| 2 | 16.08 | 15.42 | 14.44 | 14.44 | 14.82 | 14.79 | 14.50 | 14.89 | 16.27 | 18.32 | 19.88 | 19.96 |
| 3 | 16.01 | 15.44 | 14.22 | 14.44 | 14.81 | 14.74 | 14.52 | 14.94 | 16.27 | 18.35 | 19.96 | 19.84 |
| 4 | 16.06 | 15.46 | 14.45 | 14.39 | 14.91 | 14.83 | 14.53 | 14.94 | 16.35 | 18.35 | 20.01 | 19.74 |
| 5 | 16.08 | 15.38 | 14.38 | 14.40 | 14.66 | 14.92 | 14.53 | 14.99 | 16.39 | 18.38 | 20.02 | 19.76 |
| 6 | 15.97 | 15.45 | 14.61 | 14.54 | 14.37 | 15.01 | 14.48 | 14.97 | 16.39 | 18.43 | 20.02 | 19.83 |
| 7 | 15.89 | 15.42 | 14.54 | 14.66 | 14.64 | 15.02 | 14.46 | 15.03 | 16.52 | 18.46 | 20.06 | 19.84 |
| 8 | 15.99 | 15.42 | 14.47 | 14.71 | 14.66 | 14.97 | 14.41 | 15.01 | 16.63 | 18.45 | 20.09 | 19.74 |
| 9 | 16.00 | 15.46 | 14.11 | 14.89 | 14.66 | 14.96 | 14.39 | 15.25 | 16.72 | 18.46 | 20.10 | 19.72 |
| 10 | 16.03 | 15.35 | 14.26 | 14.92 | 14.63 | 14.97 | 14.59 | 15.43 | 16.75 | 18.52 | 20.12 | 19.68 |
| 11 | 16.12 | 15.00 | 14.60 | 14.92 | 14.92 | 14.94 | 14.57 | 15.51 | 16.86 | 18.55 | 20.15 | 19.66 |
| 12 | 16.04 | 14.59 | 14.69 | 14.94 | 14.87 | 14.71 | 14.53 | 15.53 | 16.92 | 18.53 | 20.18 | 19.61 |
| 13 | 15.96 | 14.68 | 14.51 | 15.12 | 14.65 | 14.52 | 14.52 | 15.62 | 16.89 | 18.55 | 20.26 | 19.73 |
| 14 | 15.86 | 14.72 | 14.51 | 15.19 | 14.72 | 14.57 | 14.54 | 15.67 | 16.93 | 18.65 | 20.35 | 19.75 |
| 15 | 15.58 | 14.72 | 14.44 | 15.24 | 14.71 | 14.62 | 14.46 | 15.70 | 17.02 | 18.76 | 20.36 | 19.84 |
| 16 | 15.48 | 14.78 | 14.52 | 15.24 | 14.79 | 14.68 | 14.33 | 15.75 | 17.07 | 18.80 | 20.38 | 19.87 |
| 17 | 15.45 | 14.87 | 14.45 | 14.92 | 14.85 | 14.61 | 14.28 | 15.75 | 17.07 | 18.85 | 20.45 | 19.89 |
| 18 | 15.45 | 14.87 | 14.23 | 14.95 | 14.90 | 14.43 | 14.38 | 15.73 | 17.17 | 18.90 | 20.50 | 20.01 |
| 19 | 15.47 | 14.64 | 13.94 | 14.98 | 14.99 | 14.40 | 14.37 | 15.80 | 17.23 | 18.90 | 20.44 | 20.05 |
| 20 | 15.42 | 14.62 | 14.24 | 14.88 | 15.07 | 14.51 | 14.41 | 15.89 | 17.27 | 18.97 | 20.42 | 20.04 |
| 21 | 15.48 | 14.66 | 14.32 | 14.80 | 15.08 | 14.58 | 14.38 | 15.97 | 17.38 | 19.07 | 20.40 | 20.21 |
| 22 | 15.52 | 14.66 | 14.39 | 14.65 | 14.92 | 14.46 | 14.41 | 16.02 | 17.49 | 19.12 | 20.36 | 20.32 |
| 23 | 15.52 | 14.63 | 14.50 | 14.75 | 14.86 | 14.51 | 14.44 | 16.06 | 17.57 | 19.17 | 20.33 | 20.46 |
| 24 | 15.41 | 14.64 | 14.56 | 14.65 | 14.87 | 14.67 | 14.43 | 16.07 | 17.61 | 19.23 | 20.27 | 20.60 |
| 25 | 15.47 | 14.56 | 14.35 | 14.41 | 14.84 | 14.61 | 14.26 | 16.07 | 17.64 | 19.28 | 20.22 | 20.61 |
| 26 | 15.52 | 14.45 | 14.22 | 14.70 | 14.91 | 14.41 | 14.12 | 15.99 | 17.67 | 19.35 | 20.20 | 20.64 |
| 27 | 15.51 | 14.51 | 14.37 | 14.91 | 14.89 | 14.58 | 14.23 | 15.94 | 17.74 | 19.40 | 20.20 | 20.58 |
| 28 | 15.48 | 14.63 | 14.36 | 14.86 | 14.87 | 14.41 | 14.41 | 16.04 | 17.83 | 19.40 | 20.24 | 20.52 |
| 29 | 15.58 | 14.63 | 14.60 | 14.89 | --- | 14.13 | 14.52 | 16.10 | 18.00 | 19.40 | 20.21 | 20.56 |
| 30 | 15.51 | 14.60 | 14.67 | 14.71 | --- | 14.17 | 14.65 | 16.18 | 18.17 | 19.56 | 20.18 | 19.92 |
| 31 | 15.36 | --- | 14.49 | 14.84 | --- | 14.34 | --- | 16.27 | --- | 19.69 | 20.14 | --- |
| Mean | 15.72 | 14.92 | 14.42 | 14.79 | 14.81 | 14.65 | 14.44 | 15.61 | 17.07 | 18.84 | 20.20 | 20.04 |
| Max | 16.16 | 15.46 | 14.71 | 15.24 | 15.08 | 15.02 | 14.65 | 16.27 | 18.17 | 19.69 | 20.50 | 20.64 |
| Min | 15.36 | 14.45 | 13.94 | 14.39 | 14.37 | 14.13 | 14.12 | 14.81 | 16.27 | 18.26 | 19.73 | 19.61 |

344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)—Continued



344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)—Continued



344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--December 2007 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2007 to current year.

WATER TEMPERATURE: December 2007 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry December 2007 to current year.

REMARKS.--Well was redeveloped August 2009.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 770 microsiemens, December 12, 13, 2008; minimum recorded, 454 microsiemens, April 29, 2010.

WATER TEMPERATURE: Maximum recorded, 18.2°C, June 19, 2008; minimum recorded, 18.0°C, on many days during the period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 503 microsiemens, October 8,9; minimum recorded, 454 microsiemens, April 29.

WATER TEMPERATURE: The recorded water temperature remained constant throughout the year at 18.0°C.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|---------|------|------|----------|------|------|----------|------|------|---------|------|------|
| | October | | | November | | | December | | | January | | |
| 1 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 2 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 3 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 4 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 5 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 6 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 7 | --- | --- | --- | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 8 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 9 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 10 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 11 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 12 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 13 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 14 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 15 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 16 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 17 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 18 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 19 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 20 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 21 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 22 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 23 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 24 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 25 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 26 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 27 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 28 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 29 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 30 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 31 | 18.0 | 18.0 | 18.0 | --- | --- | --- | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| Month | --- | --- | --- | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |

344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|-----------------|------------|-------------|--------------|------------|-------------|--------------|------------|-------------|------------|------------|-------------|
| | February | | | March | | | April | | | May | | |
| 1 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 2 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 3 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 4 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 5 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 6 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 7 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 8 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 9 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 10 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 11 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 12 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 13 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 14 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 15 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 16 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 17 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 18 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 19 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 20 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 21 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 22 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 23 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 24 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 25 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 26 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 27 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 28 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 29 | --- | --- | --- | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 30 | --- | --- | --- | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 31 | --- | --- | --- | 18.0 | 18.0 | 18.0 | --- | --- | --- | 18.0 | 18.0 | 18.0 |
| Month | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |

344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|-------------|------|------|-------------|------|------|---------------|------|------|------------------|------|------|
| | June | | | July | | | August | | | September | | |
| 1 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 2 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 3 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 4 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 5 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 6 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 7 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 8 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 9 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 10 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 11 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 12 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 13 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 14 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 15 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 16 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 17 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 18 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 19 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 20 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 21 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 22 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 23 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 24 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 25 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 26 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 27 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 28 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 29 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 30 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 31 | --- | --- | --- | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | --- | --- | --- |
| Month | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |

344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|----------------|------------|-------------|-----------------|------------|-------------|-----------------|------------|-------------|----------------|------------|-------------|
| | October | | | November | | | December | | | January | | |
| 1 | 502 | 501 | 501 | 497 | 496 | 497 | 499 | 498 | 498 | 498 | 496 | 497 |
| 2 | 502 | 501 | 501 | 497 | 496 | 497 | 499 | 498 | 498 | 498 | 497 | 497 |
| 3 | 502 | 501 | 502 | 497 | 496 | 497 | 498 | 497 | 498 | 498 | 497 | 497 |
| 4 | 502 | 502 | 502 | 497 | 496 | 497 | 497 | 496 | 496 | 498 | 497 | 497 |
| 5 | 502 | 501 | 502 | 497 | 497 | 497 | 497 | 495 | 496 | 498 | 497 | 498 |
| 6 | 502 | 501 | 502 | 498 | 497 | 497 | 497 | 496 | 497 | 499 | 497 | 498 |
| 7 | --- | --- | --- | 498 | 497 | 497 | 497 | 496 | 497 | 498 | 497 | 498 |
| 8 | 503 | 502 | 502 | 498 | 497 | 498 | 497 | 495 | 497 | 498 | 497 | 498 |
| 9 | 503 | 500 | 502 | 498 | 497 | 497 | 498 | 497 | 497 | 497 | 496 | 497 |
| 10 | 501 | 499 | 500 | 498 | 497 | 497 | 499 | 497 | 498 | 498 | 497 | 498 |
| 11 | 499 | 497 | 498 | 498 | 497 | 497 | 498 | 497 | 497 | 498 | 497 | 497 |
| 12 | 498 | 497 | 497 | 497 | 492 | 495 | 499 | 497 | 498 | 498 | 497 | 497 |
| 13 | 497 | 496 | 497 | 492 | 488 | 490 | 498 | 497 | 497 | 498 | 497 | 498 |
| 14 | 497 | 496 | 496 | 492 | 488 | 490 | 498 | 497 | 498 | 498 | 496 | 497 |
| 15 | 497 | 496 | 496 | 495 | 492 | 493 | 498 | 497 | 497 | 497 | 496 | 497 |
| 16 | 497 | 496 | 496 | 497 | 494 | 496 | 498 | 497 | 498 | 497 | 496 | 497 |
| 17 | 497 | 496 | 497 | 498 | 496 | 497 | 498 | 497 | 498 | 498 | 497 | 497 |
| 18 | 497 | 497 | 497 | 498 | 497 | 497 | 499 | 498 | 499 | 497 | 496 | 497 |
| 19 | 497 | 497 | 497 | 498 | 497 | 498 | 499 | 498 | 498 | 496 | 495 | 496 |
| 20 | 497 | 497 | 497 | 497 | 495 | 496 | 499 | 497 | 498 | 497 | 495 | 497 |
| 21 | 497 | 496 | 497 | 497 | 495 | 496 | 499 | 498 | 498 | 498 | 497 | 497 |
| 22 | 497 | 496 | 497 | 498 | 496 | 497 | 499 | 498 | 498 | 498 | 497 | 497 |
| 23 | 496 | 496 | 496 | 497 | 496 | 497 | 498 | 497 | 498 | 497 | 496 | 497 |
| 24 | 496 | 496 | 496 | 497 | 496 | 497 | 498 | 497 | 498 | 497 | 496 | 497 |
| 25 | 497 | 496 | 496 | 498 | 496 | 497 | 498 | 497 | 497 | 497 | 496 | 497 |
| 26 | 498 | 497 | 497 | 497 | 496 | 497 | 497 | 496 | 497 | 497 | 496 | 496 |
| 27 | 497 | 497 | 497 | 498 | 496 | 497 | 496 | 494 | 495 | 496 | 495 | 496 |
| 28 | 497 | 496 | 496 | 498 | 497 | 498 | 496 | 494 | 495 | 497 | 496 | 496 |
| 29 | 496 | 496 | 496 | 498 | 497 | 497 | 498 | 496 | 497 | 497 | 496 | 496 |
| 30 | 497 | 496 | 496 | 499 | 498 | 498 | 498 | 497 | 498 | 498 | 496 | 497 |
| 31 | 497 | 496 | 497 | --- | --- | --- | 498 | 497 | 497 | 497 | 496 | 497 |
| Month | --- | --- | --- | 499 | 488 | 496 | 499 | 494 | 497 | 499 | 495 | 497 |

344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|-----------------|------------|-------------|--------------|------------|-------------|--------------|------------|-------------|------------|------------|-------------|
| | February | | | March | | | April | | | May | | |
| 1 | 497 | 496 | 497 | 496 | 495 | 496 | 469 | 469 | 469 | 458 | 456 | 457 |
| 2 | 497 | 496 | 497 | 496 | 495 | 495 | 469 | 468 | 469 | 459 | 458 | 459 |
| 3 | 497 | 496 | 496 | 495 | 495 | 495 | 468 | 468 | 468 | 460 | 459 | 460 |
| 4 | 497 | 496 | 497 | 495 | 494 | 495 | 468 | 467 | 468 | 461 | 460 | 460 |
| 5 | 497 | 496 | 496 | 496 | 495 | 495 | 468 | 467 | 467 | 461 | 461 | 461 |
| 6 | 497 | 495 | 496 | 495 | 494 | 495 | 467 | 467 | 467 | 462 | 461 | 462 |
| 7 | 495 | 494 | 495 | 495 | 494 | 494 | 467 | 466 | 467 | 462 | 462 | 462 |
| 8 | 496 | 494 | 496 | 495 | 494 | 494 | 467 | 466 | 466 | 463 | 462 | 462 |
| 9 | 496 | 494 | 495 | 495 | 494 | 495 | 466 | 466 | 466 | 463 | 463 | 463 |
| 10 | 495 | 493 | 493 | 495 | 494 | 495 | 466 | 466 | 466 | 463 | 463 | 463 |
| 11 | 495 | 493 | 494 | 495 | 494 | 495 | 466 | 465 | 465 | 463 | 462 | 463 |
| 12 | 495 | 494 | 495 | 495 | 494 | 495 | 465 | 465 | 465 | 463 | 463 | 463 |
| 13 | 496 | 495 | 495 | 495 | 494 | 494 | 465 | 465 | 465 | 463 | 462 | 463 |
| 14 | 496 | 496 | 496 | 495 | 494 | 495 | 465 | 465 | 465 | 463 | 463 | 463 |
| 15 | 497 | 496 | 496 | 495 | 494 | 495 | 465 | 464 | 464 | 463 | 463 | 463 |
| 16 | 497 | 496 | 497 | 496 | 495 | 495 | 465 | 464 | 464 | 463 | 463 | 463 |
| 17 | 496 | 495 | 496 | 496 | 495 | 495 | 464 | 464 | 464 | 463 | 463 | 463 |
| 18 | 497 | 496 | 496 | 496 | 493 | 495 | 465 | 464 | 465 | 464 | 463 | 463 |
| 19 | 497 | 496 | 496 | 493 | 487 | 491 | 465 | 464 | 464 | 464 | 463 | 463 |
| 20 | 496 | 495 | 495 | 487 | 482 | 484 | 464 | 463 | 464 | 464 | 463 | 463 |
| 21 | 496 | 495 | 496 | 482 | 478 | 480 | 463 | 463 | 463 | 464 | 463 | 464 |
| 22 | 496 | 495 | 495 | 478 | 474 | 476 | 463 | 462 | 463 | 464 | 463 | 463 |
| 23 | 495 | 494 | 495 | 474 | 472 | 473 | 463 | 462 | 462 | 463 | 463 | 463 |
| 24 | 495 | 494 | 494 | 473 | 472 | 472 | 462 | 461 | 462 | 464 | 463 | 463 |
| 25 | 495 | 494 | 495 | 472 | 470 | 471 | 462 | 461 | 461 | 464 | 463 | 463 |
| 26 | 496 | 495 | 495 | 470 | 470 | 470 | 461 | 460 | 461 | 463 | 463 | 463 |
| 27 | 495 | 494 | 494 | 470 | 470 | 470 | 460 | 458 | 459 | 463 | 463 | 463 |
| 28 | 496 | 494 | 494 | 470 | 470 | 470 | 458 | 456 | 457 | 463 | 463 | 463 |
| 29 | --- | --- | --- | 470 | 468 | 469 | 456 | 454 | 455 | 463 | 463 | 463 |
| 30 | --- | --- | --- | 469 | 468 | 469 | 456 | 455 | 455 | 463 | 463 | 463 |
| 31 | --- | --- | --- | 469 | 469 | 469 | --- | --- | --- | 464 | 463 | 463 |
| Month | 497 | 493 | 495 | 496 | 468 | 486 | 469 | 454 | 464 | 464 | 456 | 462 |

344037077253901 Local number ON-291, NEAR RAGGED POINT, AT CAMP LEJEUNE, NC (CASTLE HAYNE)—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|-------------|------------|-------------|-------------|------------|-------------|---------------|------------|-------------|------------------|------------|-------------|
| | June | | | July | | | August | | | September | | |
| 1 | 464 | 463 | 463 | 467 | 466 | 466 | 473 | 469 | 470 | 487 | 486 | 487 |
| 2 | 464 | 463 | 463 | 466 | 466 | 466 | 476 | 473 | 474 | 487 | 486 | 486 |
| 3 | 464 | 463 | 463 | 466 | 466 | 466 | 479 | 476 | 478 | 487 | 486 | 486 |
| 4 | 464 | 463 | 463 | 466 | 466 | 466 | 480 | 478 | 480 | 487 | 486 | 487 |
| 5 | 464 | 463 | 464 | 466 | 466 | 466 | 482 | 480 | 481 | 487 | 486 | 487 |
| 6 | 464 | 463 | 463 | 466 | 466 | 466 | 485 | 481 | 483 | 486 | 486 | 486 |
| 7 | 464 | 463 | 464 | 466 | 466 | 466 | 488 | 485 | 487 | 486 | 486 | 486 |
| 8 | 464 | 463 | 464 | 467 | 466 | 466 | 489 | 488 | 488 | 486 | 485 | 486 |
| 9 | 464 | 464 | 464 | 467 | 466 | 467 | 489 | 489 | 489 | 486 | 485 | 486 |
| 10 | 465 | 464 | 464 | 467 | 466 | 466 | 489 | 489 | 489 | 486 | 485 | 486 |
| 11 | 465 | 464 | 464 | 467 | 466 | 467 | 489 | 489 | 489 | 486 | 485 | 486 |
| 12 | 465 | 465 | 465 | 467 | 467 | 467 | 489 | 488 | 488 | 486 | 486 | 486 |
| 13 | 465 | 465 | 465 | 467 | 467 | 467 | 489 | 488 | 488 | 486 | 486 | 486 |
| 14 | 465 | 464 | 465 | 467 | 466 | 467 | 488 | 488 | 488 | 486 | 486 | 486 |
| 15 | 465 | 464 | 464 | 466 | 466 | 466 | 488 | 487 | 488 | 486 | 485 | 486 |
| 16 | 465 | 464 | 465 | 466 | 466 | 466 | 488 | 488 | 488 | 486 | 485 | 485 |
| 17 | 465 | 464 | 465 | 466 | 466 | 466 | 488 | 488 | 488 | 486 | 485 | 485 |
| 18 | 465 | 464 | 465 | 466 | 466 | 466 | 488 | 487 | 488 | 486 | 485 | 485 |
| 19 | 465 | 464 | 465 | 466 | 466 | 466 | 488 | 487 | 487 | 485 | 485 | 485 |
| 20 | 466 | 465 | 465 | 466 | 466 | 466 | 488 | 487 | 487 | 485 | 485 | 485 |
| 21 | 466 | 465 | 465 | 466 | 466 | 466 | 488 | 488 | 488 | 485 | 485 | 485 |
| 22 | 465 | 465 | 465 | 466 | 466 | 466 | 488 | 488 | 488 | 485 | 485 | 485 |
| 23 | 465 | 465 | 465 | 466 | 466 | 466 | 488 | 487 | 488 | 485 | 485 | 485 |
| 24 | 466 | 465 | 466 | 467 | 466 | 467 | 488 | 487 | 487 | 485 | 484 | 484 |
| 25 | 466 | 466 | 466 | 467 | 467 | 467 | 488 | 487 | 487 | 485 | 485 | 485 |
| 26 | 466 | 466 | 466 | 467 | 467 | 467 | 488 | 487 | 487 | 485 | 485 | 485 |
| 27 | 467 | 466 | 466 | 467 | 467 | 467 | 487 | 486 | 487 | 486 | 485 | 485 |
| 28 | 467 | 466 | 467 | 468 | 467 | 467 | 487 | 486 | 487 | 486 | 485 | 485 |
| 29 | 467 | 466 | 466 | 468 | 467 | 468 | 487 | 486 | 487 | 485 | 484 | 484 |
| 30 | 467 | 466 | 466 | 468 | 466 | 467 | 487 | 486 | 486 | 485 | 483 | 484 |
| 31 | --- | --- | --- | 469 | 466 | 467 | 487 | 486 | 487 | --- | --- | --- |
| Month | 467 | 463 | 465 | 469 | 466 | 466 | 489 | 469 | 486 | 487 | 483 | 486 |