Water-Data Report 2012

# 02301719 ALAFIA RIVER NEAR GIBSONTON, FL.

Tampa Bay Basin
Alafia Subbasin

LOCATION.--Lat 27°51′24″, long 82°21′28″ referenced to North American Datum of 1927, in NE ¼ NW ¼ SE ¼ sec.24, T.30 S., R.19 E., Hillsborough County, FL, Hydrologic Unit 03100204, (Riverview quadrangle), on wooden private dock about 400 feet downstream from the Alafia River Marina on left bank, 0.8 mile west of I - 75 and 2.8 mile upstream from mouth.

DRAINAGE AREA.--419 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1999 to September 2003 (maximum and minimum residual discharge); October 2003 to current year (daily mean residual discharge).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 and 1.28 ft. below North American Vertical Datum of 1988.

COOPERATION.--This gage is monitored in cooperation with Southwest Florida Water Management District.

REMARKS.--Discharge records are poor. Streamflow at this site is significantly affected by astronomical tides. The residuals are not total freshwater flows but are a combination of freshwater flows and water storage caused by higher and lower mean water levels from the Gulf of Mexico and storm surges from tropical storm events. The residual discharge is used to estimate mean-daily and median discharge values. However, when the stage is very low, the velocity meter does not have enough depth to measure an index-velocity. Discharge records considered poor.By convention, the U.S. Geological Survey has established ebb (seaward) flows as positive flow and flood (landward) flows as negative flows.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.19 ft, Sept. 6, 2004; minimum, 2.30 ft below NGVD 29, Dec. 15, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.80 ft, June 25; minimum, 1.46 ft below NGVD 29, Dec. 8.

**02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued**

**RESIDUAL**
**DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 330 | 884 | 683 | 159 | 256 | 104 | 37 | 364 | 5.1 | 851 | --- | 1,300 |
| 2 | 366 | 744 | 833 | -18 | 218 | 38 | 71 | 232 | 148 | 670 | --- | 1,170 |
| 3 | 335 | 386 | 704 | 59 | 511 | 94 | 56 | 147 | 177 | 612 | --- | 1,060 |
| 4 | 352 | 345 | 461 | 108 | 373 | 227 | -118 | 43 | -19 | 568 | --- | 848 |
| 5 | 397 | 688 | 168 | -43 | 98 | 182 | -185 | -61 | 21 | 594 | --- | 718 |
| 6 | 382 | 799 | 94 | 15 | 148 | 582 | 26 | -113 | -37 | 553 | 979 | 875 |
| 7 | --- | 535 | 182 | 55 | 240 | 583 | 236 | -23 | 46 | 563 | --- | 898 |
| 8 | --- | 374 | 412 | 149 | 308 | 280 | 105 | -19 | 457 | 587 | --- | 866 |
| 9 | --- | 336 | 382 | 124 | 322 | 70 | -67 | 32 | 759 | 546 | --- | 954 |
| 10 | --- | 234 | 400 | 28 | 56 | 300 | -171 | 44 | 716 | 590 | --- | 1,170 |
| 11 | --- | 424 | 455 | -8.6 | 97 | 520 | -87 | 249 | 574 | 603 | 720 | 1,340 |
| 12 | --- | 450 | --- | 28 | 234 | 425 | -31 | 399 | 398 | 726 | 880 | 1,320 |
| 13 | --- | 278 | --- | 200 | 153 | 276 | 102 | 145 | 322 | 721 | 1,140 | 1,210 |
| 14 | --- | 152 | --- | 356 | 69 | 340 | 259 | 12 | 463 | 673 | 1,060 | 1,060 |
| 15 | --- | 111 | --- | 444 | 161 | 339 | 290 | 65 | 587 | 561 | 1,170 | 942 |
| 16 | --- | 165 | --- | 531 | 177 | 225 | 189 | 73 | 597 | 689 | 1,230 | 822 |
| 17 | --- | 494 | --- | 222 | 199 | 211 | 64 | 69 | 404 | 971 | 1,090 | --- |
| 18 | --- | 847 | 557 | 173 | 86 | 232 | -43 | 94 | 353 | 1,100 | 1,030 | --- |
| 19 | --- | 689 | 300 | 270 | 92 | 228 | -73 | 186 | 424 | 1,180 | 892 | --- |
| 20 | 404 | 629 | 27 | 238 | 386 | 159 | -85 | 134 | 286 | --- | 822 | --- |
| 21 | --- | 468 | 46 | 154 | 312 | 90 | -161 | -0.85 | 70 | --- | 1,010 | 1,150 |
| 22 | --- | 305 | 154 | 170 | 60 | 57 | 6.2 | 7.3 | 54 | --- | 1,660 | 1,130 |
| 23 | --- | 312 | 241 | 92 | 41 | -24 | 30 | 41 | 75 | --- | 2,060 | 1,120 |
| 24 | --- | 517 | 355 | 116 | 131 | -73 | 39 | 138 | 522 | 986 | 1,670 | 1,060 |
| 25 | --- | 406 | 200 | 211 | 549 | -31 | -0.45 | 214 | 2,670 | 964 | 1,490 | 949 |
| 26 | --- | 271 | 182 | 98 | 603 | 2.4 | 1.8 | 216 | 3,320 | 954 | 1,540 | 944 |
| 27 | 194 | 108 | -1.3 | 148 | 352 | 211 | 78 | 68 | 2,710 | 972 | 2,060 | 903 |
| 28 | 303 | -11 | 129 | 339 | 421 | 141 | 183 | 240 | 2,020 | 793 | 2,500 | 891 |
| 29 | 600 | 48 | 141 | 610 | 219 | -66 | 408 | 247 | 1,450 | 695 | 2,160 | 816 |
| 30 | 757 | 262 | 150 | 723 | --- | -59 | 537 | 245 | 1,050 | 656 | 1,860 | 653 |
| 31 | 688 | --- | 166 | 527 | --- | -42 | --- | 140 | --- | 538 | 1,550 | --- |
| Mean | 426 | 408 | 297 | 202 | 237 | 181 | 56.6 | 117 | 687 | 738 | 1,390 | 1,006 |
| Max | 757 | 884 | 833 | 723 | 603 | 583 | 537 | 399 | 3,320 | 1,180 | 2,500 | 1,340 |
| Min | 194 | -11 | -1.3 | -43 | 41 | -73 | -185 | -113 | -37 | 538 | 720 | 653 |
| Med | 374 | 380 | 200 | 154 | 218 | 182 | 34 | 94 | 414 | 673 | 1,200 | 951 |

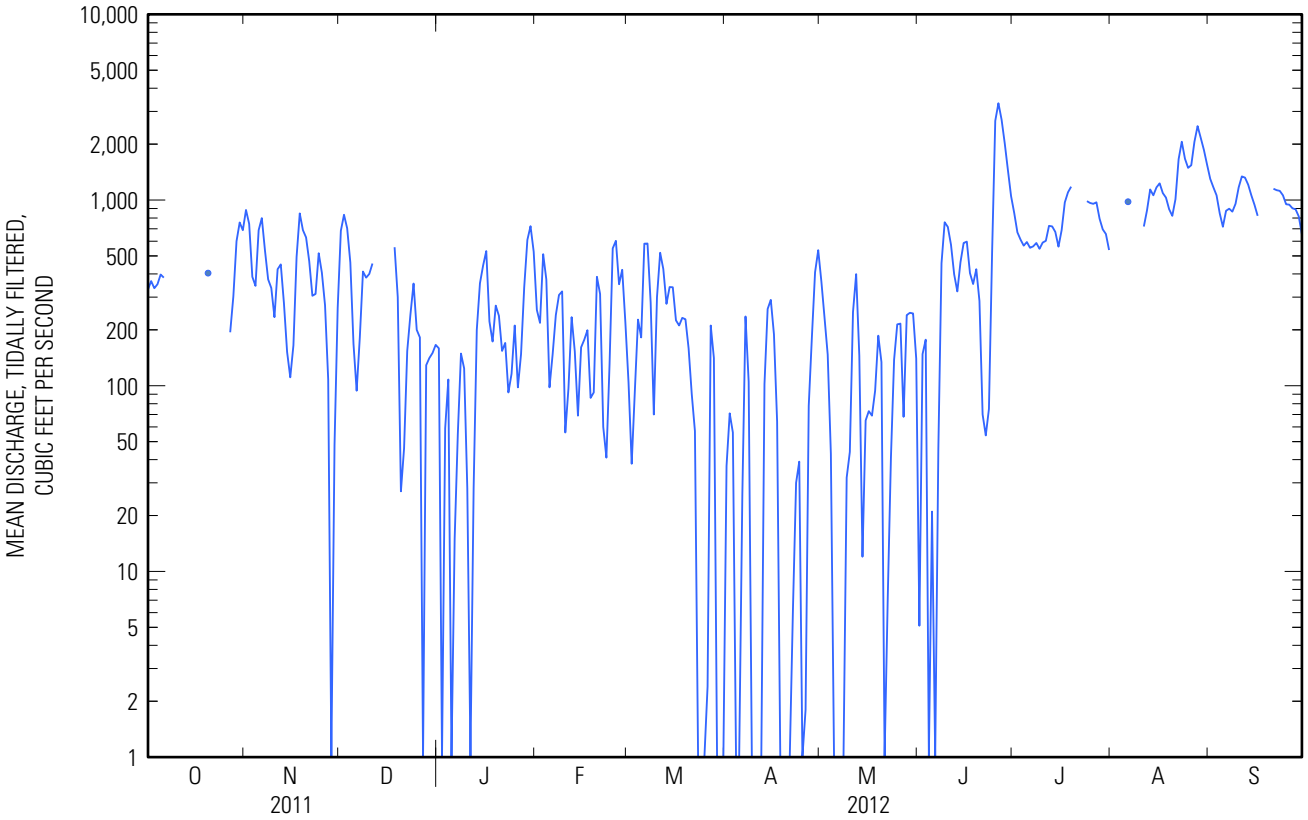
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2012, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 440 | 280 | 206 | 184 | 262 | 400 | 313 | 205 | 479 | 632 | 784 | 632 |
| Max | 742 | 408 | 533 | 425 | 478 | 783 | 618 | 385 | 1,292 | 1,272 | 1,390 | 1,006 |
| (WY) | (2005) | (2012) | (2003) | (2007) | (2007) | (2003) | (2010) | (2003) | (2003) | (2005) | (2012) | (2012) |
| Min | 174 | 121 | -104 | -343 | 48.7 | 140 | 56.6 | 18.5 | 21.6 | 191 | 420 | 361 |
| (WY) | (2011) | (2011) | (2005) | (2005) | (2005) | (2009) | (2012) | (2011) | (2011) | (2006) | (2007) | (2007) |

**02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2011 | | Water Year 2012 | | Water Years 2003 - 2012 | |
|---|---|---|---|---|---|---|
| **Annual mean** | 293 | | 451 | | 404 | |
| **Highest annual mean** | | | | | 701 | 2003 |
| **Lowest annual mean** | | | | | 240 | 2011 |
| **Highest daily mean** | 1,070 | Aug 25 | 3,320 | Jun 26 | 4,580 | Jun 23, 2003 |
| **Lowest daily mean** | -162 | Jun 15 | -185 | Apr 5 | -1,240 | Jan 20, 2005 |
| **Annual seven-day minimum** | -112 | Jun 12 | -41 | Apr 18 | -872 | Jan 1, 2005 |
| **10 percent exceeds** | 688 | | 1,060 | | 853 | |
| **50 percent exceeds** | 240 | | 302 | | 328 | |
| **90 percent exceeds** | -0.06 | | 5.6 | | 52 | |



**02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued**

**GAGE HEIGHT, FEET**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

| Day | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | October | | November | | December | | January | | February | | March | |
| 1 | 2.85 | -0.48 | 1.37 | -1.13 | 1.24 | -0.38 | 1.76 | 0.26 | 2.08 | -0.37 | 2.13 | -0.23 |
| 2 | 1.68 | -0.46 | 1.51 | -0.52 | 1.31 | -0.07 | 1.22 | 0.04 | 1.93 | -0.52 | 2.19 | -0.13 |
| 3 | 2.00 | -0.49 | 1.94 | 0.11 | 1.84 | -0.39 | 0.41 | -1.19 | 2.09 | -0.89 | 2.79 | 0.03 |
| 4 | 1.76 | -0.55 | 2.42 | 0.64 | 2.08 | -0.07 | 1.65 | -1.28 | 2.54 | -0.78 | 2.73 | -0.26 |
| 5 | 1.91 | -0.49 | 1.38 | -0.13 | 2.27 | -0.09 | 2.09 | -1.05 | 2.60 | -0.63 | 1.68 | -1.32 |
| 6 | 2.09 | -0.23 | 1.26 | -0.03 | 2.32 | -0.22 | 2.44 | -0.65 | 2.62 | -0.58 | 1.70 | -1.06 |
| 7 | 1.97 | -0.17 | 2.25 | -0.53 | 2.28 | -0.32 | 2.60 | -0.84 | 2.51 | -0.56 | 1.64 | -0.48 |
| 8 | 1.28 | --- | 2.55 | -0.19 | 1.89 | -1.46 | 2.63 | -0.65 | 2.25 | -0.65 | 2.31 | -0.09 |
| 9 | --- | --- | 2.84 | -0.08 | 1.87 | -0.77 | 2.39 | -0.84 | 1.84 | -0.88 | 2.47 | -0.07 |
| 10 | --- | --- | 2.84 | -0.09 | 1.87 | -0.94 | 2.67 | -0.62 | 2.20 | -0.15 | 2.18 | -0.67 |
| 11 | --- | --- | 2.68 | -1.16 | 1.94 | -1.20 | 2.74 | 0.19 | 2.14 | -0.47 | 2.17 | -0.65 |
| 12 | --- | --- | 2.38 | -0.69 | 2.16 | -0.62 | 2.86 | 0.00 | 0.83 | -1.10 | 2.59 | -0.69 |
| 13 | 2.95 | 0.38 | 2.76 | -0.20 | 2.00 | -1.04 | 2.52 | -0.37 | 2.02 | -1.13 | 2.66 | -0.31 |
| 14 | 3.11 | 0.04 | 3.18 | 0.11 | --- | --- | 1.14 | -0.85 | 2.94 | -0.36 | 2.39 | -0.42 |
| 15 | 2.47 | -0.38 | 2.93 | 0.14 | --- | --- | 1.41 | -0.43 | 2.25 | 0.17 | 1.97 | -0.54 |
| 16 | 2.54 | -0.27 | 2.96 | 0.25 | 2.15 | 0.20 | 1.87 | -0.53 | 2.20 | -0.32 | 2.01 | -0.57 |
| 17 | 2.72 | 0.08 | 2.82 | 0.17 | 2.19 | 0.16 | 2.23 | -0.59 | 2.42 | -0.58 | 2.13 | -0.40 |
| 18 | 3.42 | 0.99 | 1.33 | -0.40 | 1.63 | -0.34 | 2.44 | -0.59 | 2.81 | -0.46 | 2.13 | -0.42 |
| 19 | 4.39 | 1.58 | 1.98 | -0.04 | 2.63 | -0.51 | 2.14 | -1.02 | 2.81 | 0.07 | 2.00 | -0.36 |
| 20 | 2.38 | -0.40 | 2.14 | 0.40 | 2.88 | 0.00 | 2.54 | -1.00 | 2.38 | -0.87 | 2.15 | -0.19 |
| 21 | 1.72 | -0.29 | 2.47 | -0.21 | 2.85 | 0.00 | 2.69 | -0.82 | 1.97 | -0.63 | 2.49 | 0.15 |
| 22 | 1.51 | --- | 3.08 | -0.22 | 3.13 | -0.54 | 2.74 | -0.67 | 2.25 | -0.17 | 2.25 | 0.00 |
| 23 | --- | --- | 3.04 | -0.26 | 2.96 | -0.68 | 2.68 | -0.60 | 2.57 | 0.40 | 2.46 | -0.07 |
| 24 | --- | --- | 2.81 | -1.05 | 2.67 | -0.94 | 2.49 | -0.54 | 2.43 | 0.28 | 2.79 | 0.28 |
| 25 | --- | --- | 2.64 | -1.22 | 2.52 | -1.05 | 2.20 | -0.48 | 2.04 | -0.97 | 2.60 | 0.02 |
| 26 | 2.64 | -0.65 | 2.83 | -0.54 | 2.69 | -0.86 | 2.26 | -0.17 | 1.50 | -0.86 | 2.26 | -0.48 |
| 27 | 2.98 | -0.31 | 3.01 | -0.43 | 2.76 | 0.44 | 2.55 | 0.19 | 2.12 | -0.51 | 2.07 | -0.51 |
| 28 | 3.15 | -0.50 | 3.58 | 0.58 | 2.03 | -0.91 | 1.63 | -0.20 | 1.84 | -0.42 | 2.41 | -0.57 |
| 29 | 3.21 | -0.40 | 2.86 | 0.36 | 1.80 | -0.23 | 1.19 | -0.73 | 2.29 | -0.42 | 2.66 | -0.15 |
| 30 | 1.42 | -1.34 | 2.28 | -0.01 | 1.96 | 0.19 | 1.44 | -1.12 | --- | --- | 2.82 | 0.07 |
| 31 | 1.94 | -0.90 | --- | --- | 1.81 | 0.15 | 1.86 | -0.87 | --- | --- | 2.48 | 0.30 |
| Month | --- | --- | 3.58 | -1.22 | --- | --- | 2.86 | -1.28 | 2.94 | -1.13 | 2.82 | -1.32 |

**02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued**

**GAGE HEIGHT, FEET**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

| Day | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | April | | May | | June | | July | | August | | September | |
| 1 | 2.00 | 0.25 | 2.11 | -0.34 | 3.59 | -0.03 | 3.33 | -0.31 | 3.55 | 0.13 | 2.63 | 0.27 |
| 2 | 2.25 | -0.06 | 2.30 | 0.06 | 3.14 | -0.49 | 3.41 | -0.44 | --- | --- | 2.68 | 0.19 |
| 3 | 2.32 | -0.01 | 2.78 | 0.21 | 2.95 | -0.64 | 3.44 | -0.29 | 3.21 | 0.27 | 2.63 | 0.35 |
| 4 | 2.64 | 0.14 | 2.88 | -0.23 | 3.29 | -0.46 | 3.42 | -0.23 | 2.92 | 0.37 | 2.62 | 0.25 |
| 5 | 2.96 | 0.19 | 3.03 | -0.49 | 3.62 | -0.27 | 3.35 | -0.04 | 2.56 | 0.37 | 2.83 | 0.43 |
| 6 | 3.30 | -0.33 | 3.33 | -0.50 | 4.19 | -0.22 | 3.17 | -0.04 | 2.56 | 0.43 | 2.85 | 0.62 |
| 7 | 2.32 | -0.91 | 3.41 | -0.42 | 3.49 | 0.02 | 2.80 | 0.02 | 2.66 | 0.58 | 2.75 | 0.69 |
| 8 | 2.63 | -0.77 | 3.43 | -0.40 | 2.53 | 0.20 | 2.32 | 0.35 | 2.80 | 0.77 | 3.18 | 1.23 |
| 9 | 3.05 | -0.75 | 3.44 | -0.44 | 2.86 | -0.15 | 2.22 | 0.36 | 2.53 | 0.51 | 3.47 | 1.05 |
| 10 | 3.19 | -0.52 | 2.73 | 0.01 | 2.30 | 0.49 | 2.43 | 0.48 | 3.09 | 0.56 | 2.56 | 0.40 |
| 11 | 2.91 | -0.14 | 2.40 | -0.20 | 2.20 | 0.47 | 2.46 | 0.22 | 2.75 | 0.38 | 2.45 | -0.32 |
| 12 | 2.42 | -0.18 | 1.86 | -0.41 | 2.16 | 0.61 | 2.29 | 0.25 | 2.95 | 0.27 | 2.48 | -0.27 |
| 13 | 2.24 | -0.42 | 2.09 | -0.07 | 2.46 | 0.55 | 2.56 | 0.21 | 2.81 | 0.09 | 2.69 | -0.01 |
| 14 | 1.96 | -0.61 | 2.24 | 0.49 | 2.45 | 0.08 | 2.46 | -0.11 | 2.81 | -0.12 | 2.94 | 0.36 |
| 15 | 2.13 | -0.02 | 2.43 | 0.70 | 2.56 | -0.26 | 2.71 | -0.21 | 3.11 | 0.18 | 2.76 | 0.30 |
| 16 | 2.13 | 0.13 | 2.55 | 0.14 | 2.33 | -0.38 | 3.11 | -0.08 | 3.10 | 0.21 | 2.91 | 0.28 |
| 17 | 2.16 | 0.18 | 2.59 | 0.01 | 2.70 | -0.22 | 3.38 | 0.17 | 3.24 | 0.23 | 3.10 | 0.24 |
| 18 | 2.55 | 0.49 | 2.65 | -0.13 | 3.15 | -0.09 | 3.07 | -0.11 | 3.49 | 0.46 | 3.38 | 0.81 |
| 19 | 2.79 | 0.24 | 2.29 | -0.60 | 2.95 | -0.34 | 3.22 | 0.00 | 3.56 | 0.79 | 3.60 | 0.39 |
| 20 | 2.88 | 0.01 | 2.66 | -0.57 | 2.90 | 0.07 | 2.95 | 0.00 | 3.42 | 0.95 | 2.87 | -0.12 |
| 21 | 4.19 | 0.54 | 2.63 | -0.49 | 3.50 | 0.31 | 3.16 | 0.09 | 3.23 | 0.89 | 2.92 | 0.06 |
| 22 | 3.40 | -0.09 | 2.83 | -0.39 | 3.78 | 0.41 | 2.86 | 0.18 | 3.14 | 0.82 | 2.91 | -0.11 |
| 23 | 2.24 | -0.19 | 2.90 | -0.33 | 3.50 | 0.57 | 3.01 | 0.16 | 2.97 | 0.53 | 2.67 | -0.03 |
| 24 | 2.08 | -0.59 | 2.71 | -0.41 | 4.75 | 1.03 | 2.75 | 0.60 | 2.65 | 0.05 | 1.85 | -0.44 |
| 25 | 2.36 | -0.59 | 2.53 | -0.42 | 4.80 | 3.01 | 3.02 | 0.95 | 2.64 | -0.12 | 2.63 | 0.01 |
| 26 | 2.53 | -0.40 | 2.39 | -0.33 | 4.77 | 3.36 | 3.12 | 0.88 | 1.65 | -1.15 | 2.62 | 0.11 |
| 27 | 2.22 | -0.23 | 2.70 | -0.24 | 3.36 | 1.26 | 3.23 | 0.52 | 3.65 | -1.18 | 2.52 | 0.04 |
| 28 | 2.15 | -0.45 | 2.75 | 0.51 | 2.88 | 0.43 | 2.96 | 0.05 | 3.79 | 1.30 | 2.66 | 0.22 |
| 29 | 1.62 | -0.24 | 2.86 | 0.93 | 2.96 | 0.15 | 2.94 | -0.13 | 3.68 | 0.81 | 2.60 | -0.02 |
| 30 | 1.31 | -0.32 | 2.66 | 0.57 | 3.22 | -0.06 | 3.36 | -0.28 | 3.31 | 0.42 | 2.83 | 0.13 |
| 31 | --- | --- | 2.60 | 0.21 | --- | --- | 3.42 | -0.06 | 2.85 | 0.04 | --- | --- |
| Month | 4.19 | -0.91 | 3.44 | -0.60 | 4.80 | -0.64 | 3.44 | -0.44 | --- | --- | 3.60 | -0.44 |

**02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued**

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1999 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the bottom. Sensor records temperature and specific conductance at about an elevation of 2.0 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Temperature: Temperature data was rated excellent for the entire 2012 water year except for periods between December 04-07 and August 15 - October 16, which were rated good.

Specific Conductance: Specific Conductance data was rated excellent for the entire 2012 water year except periods from November 6 - December 7, May 11-18, May 30 - June 12, June 19 - July 5 and August 12 - September 4, which were rated good. Period between July 6 - 17 and September 5 - 21 was rated fair and period between July 18 - August 2 and September 22 - October 16 was rated poor.

Interruptions in record are due to extreme low tides.

COOPERATION.--This gage is monitored in cooperation with Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 49,400 microsiemens, June 19, 2001; minimum, 74 microsiemens, Dec. 15, 2004.
TEMPERATURE: Maximum, 34.8°C, June 22, 2011; minimum, 6.5°C, June 10, 2010.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 45,000 microsiemens, June 24; minimum, 215 microsiemens, Aug. 28.
TEMPERATURE: Maximum, 32.7°C, June 14, July 9; minimum, 11.2°C, Jan. 4.

**02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued**

**NEAR BOTTOM**
**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

| Day | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | October | | November | | December | | January | | February | | March | |
| 1 | 26,000 | --- | 22,600 | --- | 21,600 | 8,920 | 31,100 | 11,600 | 40,000 | 18,900 | 34,200 | 17,100 |
| 2 | 20,300 | --- | 24,300 | --- | 23,900 | 12,100 | 25,200 | 13,100 | 36,200 | 13,900 | 35,900 | 17,400 |
| 3 | 26,700 | 8,040 | 25,000 | 7,030 | 30,600 | 13,400 | 19,600 | --- | 37,900 | --- | 37,900 | 17,500 |
| 4 | 22,900 | 1,180 | 20,800 | 7,780 | 32,300 | 14,600 | 38,400 | --- | 39,900 | 23,100 | 38,000 | 20,400 |
| 5 | 30,800 | 16,200 | 17,500 | 5,520 | 35,800 | 14,200 | 37,900 | --- | 41,200 | --- | 36,900 | --- |
| 6 | 34,400 | 17,400 | 21,100 | 7,020 | 36,000 | 14,000 | 38,800 | --- | 39,400 | --- | 36,800 | --- |
| 7 | 32,900 | 18,000 | 31,600 | --- | 35,500 | 15,600 | 39,000 | --- | 38,900 | --- | 37,900 | 19,800 |
| 8 | 22,600 | --- | 34,600 | 13,100 | --- | --- | 38,600 | --- | 39,500 | --- | 39,500 | 23,400 |
| 9 | --- | --- | 34,700 | 14,300 | 32,600 | --- | 38,600 | --- | 38,300 | --- | 38,000 | 23,300 |
| 10 | --- | --- | 34,400 | 13,500 | 30,600 | --- | 39,100 | --- | 39,200 | 20,100 | 35,800 | --- |
| 11 | --- | --- | 31,800 | --- | 36,000 | --- | 39,100 | 21,100 | 36,400 | 17,500 | 36,100 | 22,600 |
| 12 | --- | --- | 35,000 | --- | 38,000 | --- | 37,200 | 18,000 | 30,900 | --- | 38,600 | --- |
| 13 | 5,080 | 430 | 35,500 | 13,800 | --- | --- | 33,200 | 14,800 | 38,100 | --- | 39,900 | 22,700 |
| 14 | 8,230 | --- | 37,300 | 15,900 | --- | --- | 30,000 | --- | 38,200 | 13,200 | 39,600 | 21,500 |
| 15 | 12,500 | --- | 35,900 | 15,300 | --- | --- | 33,400 | 12,400 | 34,500 | 12,100 | 39,500 | --- |
| 16 | 19,800 | 5,500 | 34,300 | 14,400 | --- | --- | 36,200 | 12,700 | 37,000 | 11,200 | 38,300 | 23,900 |
| 17 | 30,500 | 7,600 | 31,500 | 11,100 | 31,400 | 17,000 | 36,500 | --- | 38,300 | --- | 38,600 | 25,000 |
| 18 | 36,100 | 11,400 | 23,400 | --- | 29,800 | 15,100 | 37,900 | --- | 40,300 | 16,900 | 38,700 | 25,900 |
| 19 | 36,900 | 8,420 | 33,000 | 17,000 | 36,600 | --- | 39,000 | --- | 40,600 | 19,500 | 38,500 | 26,700 |
| 20 | 11,200 | --- | 34,500 | 17,900 | 39,400 | --- | 40,300 | --- | 32,500 | --- | 39,100 | 27,000 |
| 21 | --- | --- | 34,600 | 15,300 | 38,400 | --- | 39,100 | 19,600 | 36,100 | --- | 38,600 | 26,100 |
| 22 | --- | --- | 36,000 | 16,400 | 39,900 | --- | 39,000 | --- | 37,000 | 19,400 | 36,700 | 26,300 |
| 23 | --- | --- | 35,200 | 16,000 | 38,400 | --- | 38,600 | --- | 36,100 | 18,800 | 37,000 | 25,800 |
| 24 | --- | --- | 31,800 | --- | 38,100 | --- | 37,600 | --- | 33,800 | 16,600 | 37,500 | 27,000 |
| 25 | 31,800 | --- | 33,700 | --- | 39,100 | --- | 37,100 | 19,000 | 29,700 | --- | 36,900 | 22,400 |
| 26 | 34,000 | --- | 36,500 | 16,700 | 40,000 | --- | 37,000 | 19,300 | 32,400 | 15,500 | 34,700 | 17,600 |
| 27 | 34,600 | 12,000 | 37,900 | 17,800 | 40,200 | 22,000 | 37,200 | 14,900 | 37,400 | 17,000 | 38,000 | 17,600 |
| 28 | 33,700 | 12,000 | 37,500 | 19,100 | 33,100 | --- | 29,300 | 12,400 | 39,100 | 16,900 | 39,200 | --- |
| 29 | 35,200 | --- | 32,200 | 14,800 | 34,900 | 16,000 | 28,800 | 12,800 | 38,900 | 21,400 | 37,200 | 22,400 |
| 30 | 24,200 | --- | 28,500 | 9,290 | 36,300 | 16,200 | 36,800 | --- | --- | --- | 38,500 | 21,200 |
| 31 | 30,800 | --- | --- | --- | 30,300 | 11,900 | 39,100 | --- | --- | --- | 34,800 | 21,500 |
| Month | --- | --- | 37,900 | --- | --- | --- | 40,300 | --- | 41,200 | --- | 39,900 | --- |

**02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued**

**NEAR BOTTOM**
**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

| Day | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | April | | May | | June | | July | | August | | September | |
| 1 | 32,700 | 21,900 | 41,300 | 26,400 | 42,000 | 23,200 | 9,840 | 661 | 29,000 | 3,740 | 10,900 | 369 |
| 2 | 34,700 | 21,100 | 42,200 | 28,700 | 41,400 | 20,800 | 30,300 | 1,560 | --- | --- | 14,000 | 447 |
| 3 | 35,600 | 22,000 | 43,600 | 31,400 | 39,000 | --- | 34,900 | 3,620 | --- | 2,650 | 17,000 | 906 |
| 4 | 35,800 | 22,800 | 42,900 | 31,000 | 42,400 | 15,800 | 32,800 | 5,530 | --- | 3,190 | 16,800 | 1,390 |
| 5 | 36,700 | 22,900 | 42,600 | --- | 40,800 | 16,200 | 34,000 | 5,700 | --- | 2,130 | 18,000 | 1,280 |
| 6 | 37,600 | 20,800 | 43,100 | --- | 43,900 | 16,300 | 31,600 | 6,330 | --- | 1,650 | 16,100 | 1,220 |
| 7 | 36,300 | 21,400 | 43,500 | --- | 43,100 | 18,700 | 32,400 | 6,220 | --- | 2,980 | 17,800 | 1,910 |
| 8 | 37,000 | 22,200 | 44,300 | 26,300 | 40,100 | 16,700 | 31,600 | 8,100 | --- | 1,990 | 18,000 | 1,900 |
| 9 | 38,400 | 19,500 | 43,700 | 26,400 | 29,900 | 6,490 | 29,500 | 8,090 | --- | --- | 8,600 | 845 |
| 10 | 38,100 | 19,800 | 42,000 | 27,500 | 24,500 | 5,970 | 26,000 | 5,990 | --- | 3,130 | 1,710 | 457 |
| 11 | 39,600 | 18,200 | 40,200 | 24,500 | 31,700 | 5,990 | 31,500 | 6,990 | 28,500 | 3,570 | 8,120 | 468 |
| 12 | 37,400 | 20,000 | 40,100 | 26,200 | 28,500 | 8,070 | 37,700 | 8,730 | 23,300 | 3,900 | 19,000 | 447 |
| 13 | 38,700 | 19,100 | 40,900 | 27,600 | 22,400 | 6,490 | 36,800 | 9,990 | 15,400 | 1,720 | 19,900 | 1,190 |
| 14 | 37,900 | --- | 42,300 | 30,200 | 16,100 | 6,230 | 38,700 | 13,000 | 12,800 | 1,520 | 27,800 | 2,060 |
| 15 | 38,900 | 26,000 | 41,600 | 29,800 | 37,300 | 11,600 | 36,400 | 10,900 | 17,000 | 904 | 29,200 | 3,090 |
| 16 | 40,100 | 26,100 | 41,300 | 25,900 | 36,300 | 16,600 | 37,600 | 5,880 | 13,200 | 521 | 28,400 | 2,870 |
| 17 | 40,900 | 30,600 | 42,200 | 27,700 | 40,700 | 18,200 | 28,000 | 3,770 | 13,000 | 502 | 29,200 | 3,920 |
| 18 | 40,600 | 32,800 | 40,300 | 28,200 | 44,200 | 23,300 | 17,000 | 712 | 19,800 | 889 | 28,300 | 1,920 |
| 19 | 41,000 | 29,200 | 39,900 | --- | 44,400 | 24,500 | 8,140 | 635 | 15,100 | 704 | 17,000 | 479 |
| 20 | 41,000 | 29,700 | 43,100 | --- | 42,800 | 24,000 | 13,400 | 567 | 13,300 | 589 | 10,800 | 445 |
| 21 | 43,100 | 32,000 | 42,600 | --- | 44,200 | 27,000 | 22,500 | 626 | 8,040 | 496 | 17,200 | 584 |
| 22 | 40,700 | 25,400 | 42,600 | 19,000 | 44,200 | 24,000 | 21,600 | 662 | 11,200 | 328 | 13,400 | 804 |
| 23 | 39,000 | 23,700 | 42,600 | 25,500 | 43,200 | 24,000 | 21,500 | 2,200 | 382 | 223 | 15,100 | 897 |
| 24 | 36,500 | --- | 43,000 | 24,900 | 45,000 | 24,400 | 26,200 | 2,280 | 351 | 255 | 5,110 | 519 |
| 25 | 37,700 | --- | 42,800 | 13,700 | 38,700 | 786 | 14,300 | 994 | 5,160 | 320 | 16,200 | 867 |
| 26 | 38,100 | 16,500 | 42,700 | 27,500 | 891 | 263 | 11,500 | 533 | --- | --- | 18,900 | 2,250 |
| 27 | 37,800 | 17,300 | 43,500 | 29,000 | 601 | 295 | 14,200 | 568 | --- | --- | 21,200 | 1,300 |
| 28 | 37,500 | --- | 43,700 | 32,300 | 752 | 381 | 13,300 | 535 | 5,920 | 215 | 23,900 | 1,780 |
| 29 | 36,900 | 20,500 | 43,400 | 32,000 | 923 | 403 | 16,900 | 1,360 | 335 | 226 | 21,900 | 2,120 |
| 30 | 37,200 | 22,200 | 40,300 | 25,700 | 926 | 522 | 18,100 | 1,320 | 584 | 281 | 22,600 | 2,580 |
| 31 | --- | --- | 40,400 | 23,000 | --- | --- | 29,100 | 2,330 | 5,180 | 314 | --- | --- |
| Month | 43,100 | --- | 44,300 | --- | 45,000 | --- | 38,700 | 533 | --- | --- | 29,200 | 369 |

**02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued**

**NEAR BOTTOM**
**TEMPERATURE, WATER, DEGREES CELSIUS**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

| Day | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | October | | November | | December | | January | | February | | March | |
| 1 | 30.3 | 26.9 | 24.1 | 20.4 | 20.9 | 16.7 | 21.8 | 19.2 | 21.5 | 17.8 | 25.0 | 22.2 |
| 2 | 30.4 | 24.9 | 24.7 | 20.4 | 20.7 | 17.3 | 20.7 | 17.1 | 22.7 | 18.6 | 25.9 | 23.3 |
| 3 | 29.4 | 24.1 | 24.2 | 21.3 | 20.4 | 17.6 | 17.4 | --- | 21.5 | --- | 25.7 | 23.5 |
| 4 | 29.7 | 26.1 | 23.5 | 21.1 | 20.8 | 18.0 | 16.5 | --- | 21.3 | 19.3 | 25.0 | 20.8 |
| 5 | 28.6 | 26.2 | 21.9 | 18.8 | 21.5 | 18.3 | 17.0 | --- | 22.1 | 19.8 | 23.0 | --- |
| 6 | 27.8 | 25.1 | 21.9 | 18.5 | 21.5 | 18.3 | 18.1 | --- | 22.7 | 20.5 | 22.5 | --- |
| 7 | 26.8 | 24.4 | 22.4 | --- | 21.9 | 18.4 | 18.4 | --- | 21.7 | 21.0 | 22.4 | 18.7 |
| 8 | 25.6 | --- | 22.6 | 20.0 | 19.6 | --- | 19.0 | --- | 22.4 | --- | 23.4 | 20.0 |
| 9 | --- | --- | 22.8 | 19.8 | 21.0 | --- | 19.7 | --- | 21.1 | --- | 24.0 | 21.6 |
| 10 | --- | --- | 23.2 | 20.0 | 21.4 | --- | 19.8 | 17.2 | 21.8 | 19.0 | 24.1 | 22.3 |
| 11 | --- | --- | 22.4 | --- | 20.9 | --- | 19.3 | 18.3 | 21.6 | 17.6 | 23.6 | 21.9 |
| 12 | 25.5 | --- | 21.4 | 17.4 | 21.9 | --- | 20.0 | 17.5 | 18.2 | --- | 23.6 | 21.5 |
| 13 | 26.3 | 24.0 | 21.8 | 18.6 | --- | --- | 19.8 | 17.1 | 17.3 | --- | 23.9 | 21.9 |
| 14 | 27.6 | 24.2 | 22.4 | 19.6 | --- | --- | 19.0 | 14.8 | 18.7 | 15.3 | 24.5 | 22.0 |
| 15 | 26.0 | 23.8 | 23.3 | 20.8 | --- | --- | 18.3 | 14.9 | 21.6 | 17.7 | 25.1 | 22.2 |
| 16 | 26.3 | 23.7 | 24.1 | 21.7 | --- | --- | 18.4 | 13.7 | 22.1 | 19.0 | 25.7 | 21.5 |
| 17 | 25.8 | 24.3 | 24.9 | 22.4 | 22.6 | 19.6 | 19.3 | --- | 21.3 | 19.8 | 25.7 | 21.5 |
| 18 | 25.7 | 24.6 | 23.1 | 20.1 | 21.1 | 17.7 | 18.8 | --- | 22.0 | 20.0 | 25.9 | 21.7 |
| 19 | 25.6 | 23.0 | 23.6 | 20.7 | 20.2 | 17.5 | 19.0 | --- | 21.9 | 20.4 | 25.7 | 22.1 |
| 20 | 23.6 | 21.5 | 23.6 | 21.3 | 20.8 | --- | 19.3 | 15.7 | 21.8 | --- | 25.3 | 21.8 |
| 21 | 24.3 | 21.2 | 24.2 | 21.5 | 21.5 | 18.9 | 19.7 | --- | 22.8 | 16.8 | 25.6 | 22.4 |
| 22 | --- | 19.9 | 24.0 | 22.2 | 21.7 | --- | 20.2 | --- | 22.1 | 20.1 | 25.6 | 23.5 |
| 23 | --- | --- | 23.5 | 21.4 | 22.6 | --- | 20.9 | 17.8 | 23.1 | 21.4 | 26.5 | 23.8 |
| 24 | --- | --- | 23.0 | --- | 23.0 | --- | 21.6 | 18.7 | 24.1 | 21.8 | 26.7 | 24.5 |
| 25 | 23.7 | --- | 22.7 | --- | 22.9 | --- | 21.9 | 19.6 | 23.8 | --- | 26.7 | 24.7 |
| 26 | 24.2 | --- | 22.6 | 20.0 | 22.6 | 21.2 | 21.8 | 19.8 | 21.0 | 18.1 | 26.4 | 23.0 |
| 27 | 25.5 | --- | 22.7 | 20.3 | 21.9 | 20.4 | 21.4 | 19.8 | 23.1 | 20.0 | 26.0 | 23.1 |
| 28 | 24.1 | --- | 22.4 | 21.0 | 20.7 | --- | 21.3 | 18.2 | 23.1 | 21.2 | 25.8 | --- |
| 29 | 24.8 | 22.6 | 21.9 | 19.9 | 20.5 | 17.0 | 21.7 | 18.0 | 24.3 | 21.3 | 26.8 | 23.5 |
| 30 | 24.2 | 20.1 | 21.3 | 19.2 | 20.3 | 17.3 | 20.7 | --- | --- | --- | 27.7 | 24.2 |
| 31 | 24.2 | 21.9 | --- | --- | 21.8 | 18.6 | 20.4 | 17.3 | --- | --- | 26.5 | 24.7 |
| Month | --- | --- | 24.9 | --- | --- | --- | 21.9 | --- | 24.3 | --- | 27.7 | --- |

**02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued**

**NEAR BOTTOM**
**TEMPERATURE, WATER, DEGREES CELSIUS**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

| Day | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | April | | May | | June | | July | | August | | September | |
| 1 | 27.1 | 23.8 | 27.8 | 24.2 | 29.8 | 27.7 | 28.9 | 26.4 | 30.3 | 28.1 | 29.6 | 26.6 |
| 2 | 28.4 | 24.3 | 28.4 | 24.7 | 29.8 | 27.5 | 30.6 | 27.0 | --- | 27.9 | 29.4 | 26.8 |
| 3 | 28.9 | 24.9 | 28.7 | 24.6 | 30.7 | 27.0 | 31.4 | 27.7 | --- | 28.2 | 29.9 | 27.1 |
| 4 | 28.5 | 24.9 | 28.5 | 25.6 | 30.5 | 28.0 | 30.9 | 27.8 | --- | 27.8 | 31.1 | 27.5 |
| 5 | 28.5 | 25.9 | 29.0 | 25.8 | 29.3 | 27.2 | 30.3 | 27.7 | --- | 28.4 | 30.6 | 28.0 |
| 6 | 27.6 | 25.6 | 29.2 | 26.9 | 28.7 | 27.1 | 31.7 | 27.7 | --- | 27.8 | 29.8 | 27.5 |
| 7 | 26.2 | 23.1 | 29.4 | 27.2 | 28.0 | 26.6 | 31.5 | 28.4 | --- | 27.6 | 29.6 | 27.2 |
| 8 | 26.3 | 22.1 | 29.7 | 27.4 | 28.4 | 26.2 | 32.3 | 29.0 | --- | 27.7 | 30.0 | 28.1 |
| 9 | 26.8 | 23.4 | 29.8 | 27.5 | 29.5 | 26.0 | 32.7 | 29.4 | --- | 28.5 | 29.6 | 27.0 |
| 10 | 26.9 | 23.8 | 29.9 | 27.3 | 29.9 | 26.5 | 32.5 | 29.1 | --- | 28.7 | 28.5 | 26.6 |
| 11 | 27.0 | 23.7 | 29.5 | 26.3 | 30.9 | 26.8 | 31.6 | 28.9 | 31.1 | 27.8 | 27.5 | 26.0 |
| 12 | 26.9 | 23.6 | 28.9 | 25.3 | 32.0 | 27.5 | 30.1 | 28.5 | 30.9 | 28.5 | 27.7 | 25.2 |
| 13 | 26.5 | 23.5 | 27.7 | 25.3 | 32.4 | 29.1 | 30.7 | 28.6 | 29.8 | 27.3 | 27.9 | 25.4 |
| 14 | 26.0 | 22.4 | 28.7 | 26.1 | 32.7 | 29.0 | 30.5 | 28.0 | 30.3 | 27.2 | 28.2 | 25.4 |
| 15 | 26.1 | 23.0 | 30.1 | 26.6 | 30.6 | 28.1 | 30.7 | 28.2 | 29.3 | 26.7 | 28.6 | 25.8 |
| 16 | 25.9 | 22.6 | 28.8 | 27.0 | 30.5 | 27.1 | 30.0 | 27.2 | 29.3 | 26.8 | 28.4 | 26.2 |
| 17 | 26.9 | 22.7 | 30.0 | 27.0 | 30.3 | 28.0 | 29.3 | 26.5 | 28.7 | 27.0 | 28.9 | 26.1 |
| 18 | 26.6 | 24.1 | 30.7 | 26.8 | 30.1 | 27.6 | 28.5 | 26.2 | 29.0 | 26.8 | 28.8 | 26.3 |
| 19 | 26.0 | 24.6 | 30.6 | 27.1 | 28.8 | 26.0 | 29.2 | 26.0 | 30.0 | 26.4 | 28.3 | 25.8 |
| 20 | 27.1 | 24.5 | 29.8 | 26.6 | 28.2 | 26.5 | 29.1 | 26.3 | 29.4 | 27.1 | 28.9 | 26.2 |
| 21 | 26.3 | 25.0 | 29.5 | 26.2 | 28.6 | 27.0 | 30.6 | 26.8 | 29.4 | 27.5 | 28.8 | 26.3 |
| 22 | 25.6 | 23.6 | 30.0 | 26.6 | 29.0 | 27.5 | 29.7 | 27.2 | 28.7 | 26.3 | 30.1 | 26.4 |
| 23 | 24.0 | 20.8 | 30.7 | 27.7 | 28.3 | 27.0 | 29.0 | 27.0 | 28.9 | 25.6 | 30.3 | 26.9 |
| 24 | 23.9 | 19.5 | 30.3 | 27.7 | 27.8 | 26.2 | 30.5 | 27.0 | 30.2 | 25.4 | 28.1 | 25.4 |
| 25 | 24.5 | 21.4 | 30.4 | 27.9 | 27.1 | 25.3 | 30.4 | 27.9 | 29.4 | 25.8 | 27.3 | 25.1 |
| 26 | 25.8 | 22.1 | 30.4 | 27.5 | 26.1 | 25.0 | 30.7 | 28.1 | 27.3 | 24.0 | 27.9 | 25.0 |
| 27 | 27.6 | 23.2 | 30.6 | 28.3 | 28.0 | 24.9 | 31.5 | 28.2 | 27.5 | 23.7 | 28.2 | 25.0 |
| 28 | 27.7 | 23.8 | 30.8 | 28.9 | 29.3 | 25.1 | 31.9 | 28.3 | 27.5 | 25.7 | 29.1 | 25.3 |
| 29 | 28.3 | 25.0 | 29.9 | 28.6 | 29.4 | 25.3 | 30.7 | 29.0 | 27.7 | 26.0 | 28.9 | 25.7 |
| 30 | 28.0 | 24.1 | 30.5 | 27.4 | 29.2 | 25.9 | 31.3 | 28.8 | 28.6 | 26.2 | 28.8 | 26.3 |
| 31 | --- | --- | 30.8 | 28.0 | --- | --- | 31.2 | 28.3 | 29.5 | 26.5 | --- | --- |
| Month | 28.9 | 19.5 | 30.8 | 24.2 | 32.7 | 24.9 | 32.7 | 26.0 | --- | 23.7 | 31.1 | 25.0 |