# 02436500 TOWN CREEK NEAR NETTLETON, MS

Black Warrior-Tombigbee Basin
Town Subbasin

LOCATION.--Lat 34°03′33″, long 88°37′41″ referenced to North American Datum of 1983, in NW ¼ NW ¼ sec.12, T.12 S., R.6 E., Monroe County, MS, Hydrologic Unit 03160102, Chickasaw Meridian, near right bank on downstream side of downstream bridge on U.S. Highway 45, 1.5 mi downstream from Chiwapa Creek, 2.1 mi south of Nettleton, and 9.2 mi upstream from mouth.

DRAINAGE AREA.--620 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October and November 1939, published in WSP 1304. Prior to October 1970, published as West Fork Tombigbee River near Nettleton.

REVISED RECORDS.--WSP 1504: 1948. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 194.01 ft above NGVD of 1929 (levels by U. S. Army Corps of Engineers). Prior to Oct. 1, 1947, at datum 10.00 ft higher.

REMARKS.--Estimated daily discharges: Jul. 10. Discharges for stages between 11.0 and 26.0 feet (gage datum) are adjusted for changing stage using the Boyer Method. Records good, except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1892, that of Mar. 22, 1955. Flood of Dec. 24, 1926, reached a stage of 32.5 ft, present datum, from floodmark.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Dec 31 | 0615 | 16,500 | 22.12 |
| Jan 05 | 0800 | *20,600 | *24.30 |
| No other peak greater than base discharge | | | |

**02436500 TOWN CREEK NEAR NETTLETON, MS—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**
**DAILY MEAN VALUES**
[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 23 | 1,090 | 180 | 2,430 | 348 | 3,530 | 127 | 71 | 40 | 40 | 29 | 14 |
| 2 | 21 | 409 | 150 | 1,260 | 380 | 4,080 | 136 | 69 | 43 | 43 | 34 | 13 |
| 3 | 24 | 199 | 129 | 851 | 318 | 1,550 | 116 | 69 | 95 | 38 | 29 | 12 |
| 4 | 26 | 154 | 121 | 2,300 | 269 | 960 | 197 | 70 | 49 | 36 | 22 | 11 |
| 5 | 19 | 138 | 118 | 14,700 | 240 | 715 | 165 | 78 | 43 | 32 | 21 | 12 |
| 6 | 18 | 425 | 119 | 3,750 | 232 | 575 | 121 | 69 | 36 | 33 | 20 | 10 |
| 7 | 17 | 1,770 | 118 | 3,480 | 227 | 482 | 104 | 64 | 34 | 42 | 19 | 12 |
| 8 | 17 | 552 | 111 | 2,640 | 213 | 413 | 100 | 61 | 34 | 44 | 19 | 26 |
| 9 | 16 | 298 | 112 | 1,430 | 208 | 349 | 97 | 59 | 34 | 43 | 17 | 47 |
| 10 | 16 | 224 | 117 | 1,030 | 206 | 307 | 104 | 74 | 33 | e755 | 18 | 123 |
| 11 | 17 | 463 | 113 | 791 | 195 | 279 | 118 | 206 | 31 | 1,750 | 16 | 35 |
| 12 | 19 | 294 | 330 | 653 | 191 | 249 | 130 | 96 | 29 | 256 | 15 | 22 |
| 13 | 21 | 223 | 785 | 557 | 2,900 | 235 | 117 | 88 | 27 | 271 | 13 | 18 |
| 14 | 21 | 199 | 338 | 482 | 1,470 | 223 | 481 | 76 | 25 | 86 | 13 | 1,260 |
| 15 | 20 | 3,350 | 234 | 550 | 626 | 217 | 681 | 92 | 27 | 54 | 13 | 192 |
| 16 | 36 | 1,820 | 193 | 952 | 442 | 203 | 269 | 112 | 26 | 42 | 13 | 54 |
| 17 | 4,540 | 716 | 169 | 583 | 369 | 179 | 188 | 107 | 27 | 36 | 13 | 36 |
| 18 | 905 | 430 | 153 | 478 | 323 | 175 | 158 | 80 | 27 | 43 | 20 | 28 |
| 19 | 860 | 321 | 144 | 444 | 284 | 170 | 138 | 54 | 667 | 161 | 15 | 24 |
| 20 | 877 | 262 | 139 | 398 | 271 | 176 | 122 | 49 | 653 | 541 | 13 | 22 |
| 21 | 287 | 232 | 138 | 1,780 | 286 | 169 | 110 | 46 | 123 | 528 | 13 | 21 |
| 22 | 197 | 209 | 257 | 1,780 | 275 | 155 | 103 | 43 | 69 | 77 | 11 | 19 |
| 23 | 156 | 205 | 401 | 799 | 238 | 146 | 97 | 42 | 54 | 46 | 10 | 19 |
| 24 | 136 | 195 | 224 | 587 | 243 | 139 | 93 | 41 | 45 | 38 | 10 | 18 |
| 25 | 124 | 178 | 925 | 474 | 2,320 | 137 | 95 | 40 | 40 | 33 | 15 | 18 |
| 26 | 124 | 166 | 1,230 | 403 | 851 | 131 | 94 | 40 | 278 | 31 | 65 | 18 |
| 27 | 647 | 159 | 613 | 365 | 535 | 129 | 90 | 39 | 407 | 28 | 28 | 18 |
| 28 | 524 | 157 | 404 | 364 | 407 | 149 | 84 | 37 | 64 | 27 | 18 | 21 |
| 29 | 200 | 138 | 306 | 324 | --- | 146 | 78 | 36 | 49 | 36 | 14 | 17 |
| 30 | 146 | 142 | 1,890 | 292 | --- | 128 | 74 | 36 | 42 | 62 | 14 | 16 |
| 31 | 194 | --- | 9,470 | 270 | --- | 117 | --- | 40 | --- | 35 | 18 | --- |
| Total | 10,248 | 15,118 | 19,731 | 47,197 | 14,867 | 16,613 | 4,587 | 2,084 | 3,151 | 5,287 | 588 | 2,156 |
| Mean | 331 | 504 | 636 | 1,522 | 531 | 536 | 153 | 67.2 | 105 | 171 | 19.0 | 71.9 |
| Max | 4,540 | 3,350 | 9,470 | 14,700 | 2,900 | 4,080 | 681 | 206 | 667 | 1,750 | 65 | 1,260 |
| Min | 16 | 138 | 111 | 270 | 191 | 117 | 74 | 36 | 25 | 27 | 10 | 10 |
| Med | 36 | 228 | 180 | 653 | 285 | 203 | 117 | 64 | 41 | 43 | 16 | 19 |
| Cfsm | 0.53 | 0.81 | 1.03 | 2.46 | 0.86 | 0.86 | 0.25 | 0.11 | 0.17 | 0.28 | 0.03 | 0.12 |
| In. | 0.61 | 0.91 | 1.18 | 2.83 | 0.89 | 1.00 | 0.28 | 0.13 | 0.19 | 0.32 | 0.04 | 0.13 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2007, BY WATER YEAR (WY)**

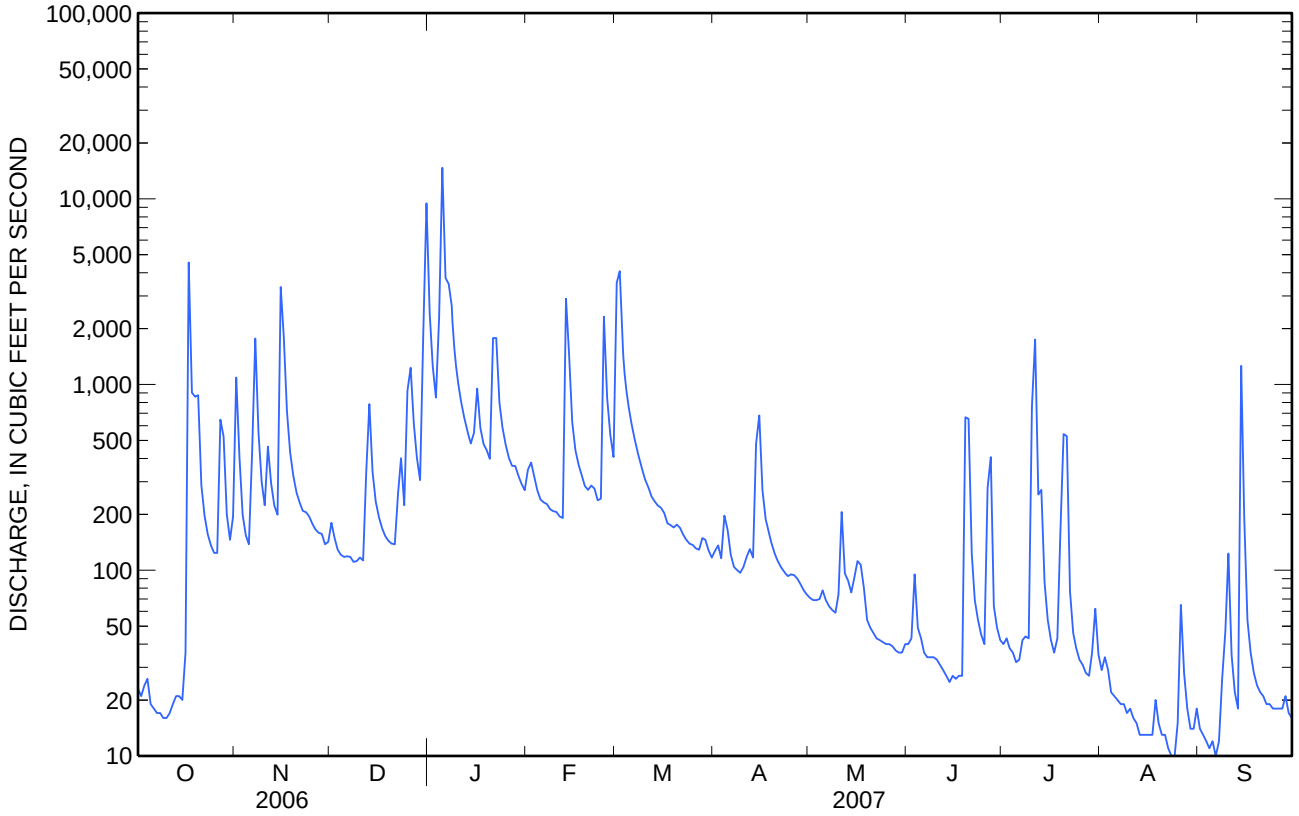
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 199 | 719 | 1,436 | 1,687 | 1,933 | 2,062 | 1,512 | 1,018 | 521 | 361 | 194 | 227 |
| Max | 1,390 | 6,074 | 8,062 | 6,105 | 5,740 | 6,215 | 5,434 | 8,377 | 3,924 | 2,512 | 1,381 | 2,208 |
| (WY) | (2002) | (1958) | (1983) | (1949) | (1948) | (1975) | (1991) | (1991) | (1997) | (1940) | (1967) | (1958) |
| Min | 3.97 | 14.7 | 40.3 | 66.6 | 294 | 240 | 105 | 63.6 | 19.0 | 22.4 | 7.12 | 5.39 |
| (WY) | (1944) | (1954) | (1966) | (1956) | (2000) | (1954) | (1986) | (1943) | (1988) | (1942) | (1954) | (1954) |

**02436500 TOWN CREEK NEAR NETTLETON, MS—Continued**

**SUMMARY STATISTICS**

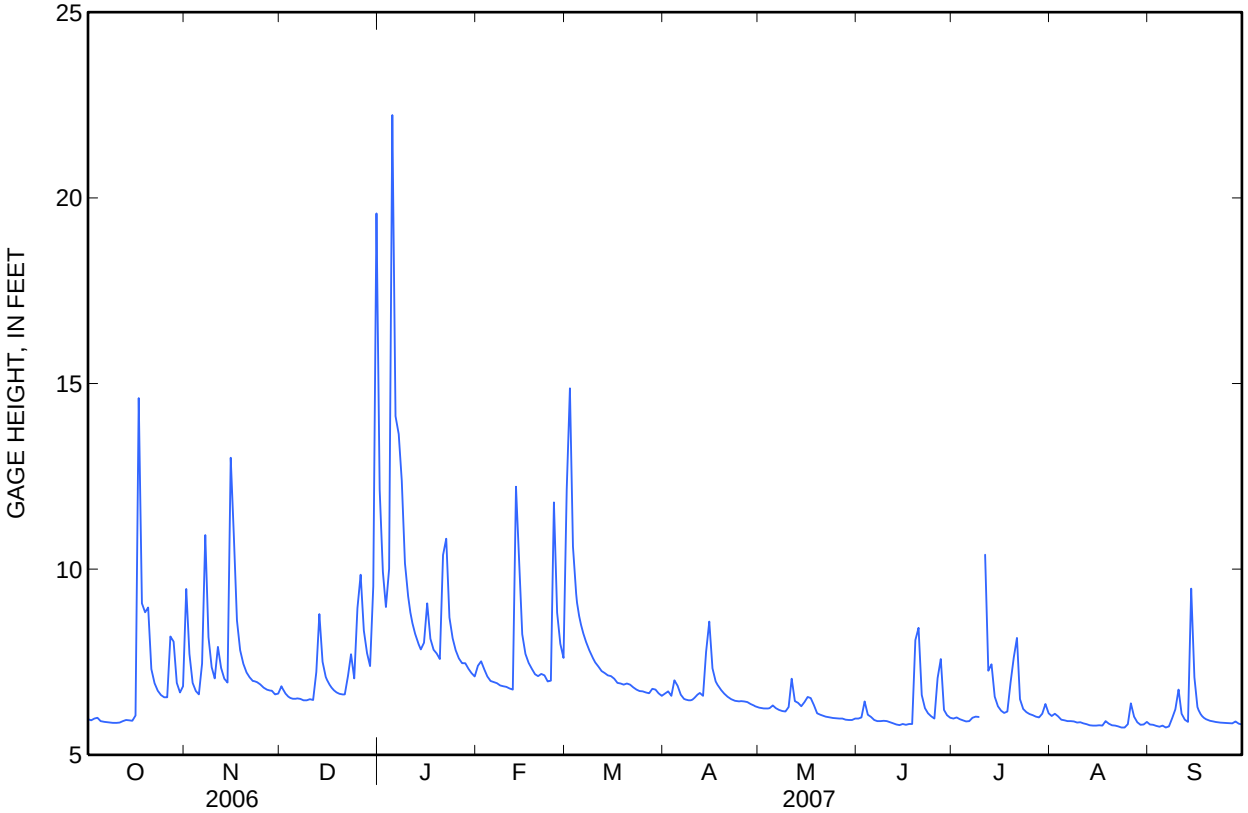
| | Calendar Year 2006 | | Water Year 2007 | | Water Years 1940 - 2007 | |
|---|---|---|---|---|---|---|
| **Annual total** | 240,408 | | 141,627 | | | |
| **Annual mean** | 659 | | 388 | | 985 | |
| **Highest annual mean** | | | | | 2,342 | 1991 |
| **Lowest annual mean** | | | | | 306 | 1954 |
| **Highest daily mean** | 12,500 | Jan 17 | 14,700 | Jan 5 | 95,300 | Mar 22, 1955 |
| **Lowest daily mean** | 12 | Sep 10 | 10 | Aug 23 [b] | 1.0 | Sep 14, 1942 |
| **Annual seven-day minimum** | 13 | Sep 5 | 12 | Sep 1 | 1.6 | Oct 8, 1942 |
| **Maximum peak flow** | | | 20,600 | Jan 5 | 151,000 | Mar 22, 1955 |
| **Maximum peak stage** | | | 24.30 | Jan 5 | [a]33.88 | Mar 22, 1955 |
| **Annual runoff (cfsm)** | 1.06 | | 0.626 | | 1.59 | |
| **Annual runoff (inches)** | 14.42 | | 8.50 | | 21.58 | |
| **10 percent exceeds** | 1,510 | | 794 | | 2,160 | |
| **50 percent exceeds** | 195 | | 123 | | 210 | |
| **90 percent exceeds** | 19 | | 18 | | 22 | |

[a] To present datum.
[b] Also August 24, September 10..



**02436500 TOWN CREEK NEAR NETTLETON, MS—Continued**

**GAGE HEIGHT, FEET**
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.96 | 9.47 | 6.85 | 12.14 | 7.40 | 12.15 | 6.65 | 6.27 | 5.98 | 5.98 | 6.05 | 5.82 |
| 2 | 5.93 | 7.72 | 6.70 | 9.93 | 7.52 | 14.87 | 6.71 | 6.25 | 6.01 | 6.01 | 6.11 | 5.81 |
| 3 | 5.98 | 6.94 | 6.58 | 8.98 | 7.30 | 10.61 | 6.59 | 6.25 | 6.44 | 5.96 | 6.04 | 5.78 |
| 4 | 6.00 | 6.72 | 6.53 | 10.01 | 7.11 | 9.34 | 7.01 | 6.26 | 6.08 | 5.93 | 5.95 | 5.76 |
| 5 | 5.91 | 6.63 | 6.51 | 22.23 | 6.99 | 8.71 | 6.86 | 6.33 | 6.02 | 5.90 | 5.93 | 5.79 |
| 6 | 5.89 | 7.46 | 6.52 | 14.12 | 6.96 | 8.34 | 6.62 | 6.26 | 5.94 | 5.91 | 5.91 | 5.74 |
| 7 | 5.88 | 10.92 | 6.51 | 13.64 | 6.93 | 8.07 | 6.51 | 6.21 | 5.91 | 6.00 | 5.91 | 5.77 |
| 8 | 5.87 | 8.17 | 6.47 | 12.39 | 6.87 | 7.86 | 6.48 | 6.18 | 5.91 | 6.03 | 5.90 | 5.99 |
| 9 | 5.86 | 7.36 | 6.47 | 10.16 | 6.85 | 7.64 | 6.47 | 6.17 | 5.92 | 6.02 | 5.87 | 6.23 |
| 10 | 5.86 | 7.06 | 6.50 | 9.28 | 6.83 | 7.49 | 6.51 | 6.29 | 5.91 | --- | 5.88 | 6.76 |
| 11 | 5.87 | 7.91 | 6.48 | 8.69 | 6.79 | 7.38 | 6.60 | 7.05 | 5.88 | 10.39 | 5.85 | 6.11 |
| 12 | 5.91 | 7.34 | 7.23 | 8.32 | 6.76 | 7.26 | 6.67 | 6.45 | 5.85 | 7.27 | 5.83 | 5.95 |
| 13 | 5.94 | 7.05 | 8.79 | 8.06 | 12.22 | 7.20 | 6.59 | 6.40 | 5.82 | 7.44 | 5.80 | 5.89 |
| 14 | 5.93 | 6.95 | 7.51 | 7.84 | 10.18 | 7.14 | 7.77 | 6.31 | 5.80 | 6.57 | 5.79 | 9.48 |
| 15 | 5.92 | 13.00 | 7.10 | 8.02 | 8.25 | 7.12 | 8.59 | 6.42 | 5.83 | 6.31 | 5.79 | 7.09 |
| 16 | 6.06 | 10.96 | 6.92 | 9.08 | 7.72 | 7.05 | 7.33 | 6.56 | 5.81 | 6.19 | 5.80 | 6.29 |
| 17 | 14.61 | 8.62 | 6.79 | 8.13 | 7.48 | 6.94 | 6.98 | 6.53 | 5.83 | 6.13 | 5.79 | 6.10 |
| 18 | 9.08 | 7.82 | 6.71 | 7.83 | 7.32 | 6.92 | 6.83 | 6.34 | 5.83 | 6.17 | 5.91 | 6.00 |
| 19 | 8.84 | 7.45 | 6.66 | 7.73 | 7.17 | 6.89 | 6.72 | 6.12 | 8.09 | 6.95 | 5.84 | 5.95 |
| 20 | 8.97 | 7.22 | 6.63 | 7.58 | 7.12 | 6.92 | 6.62 | 6.08 | 8.42 | 7.62 | 5.80 | 5.92 |
| 21 | 7.31 | 7.09 | 6.63 | 10.38 | 7.18 | 6.89 | 6.55 | 6.05 | 6.61 | 8.15 | 5.79 | 5.90 |
| 22 | 6.93 | 6.99 | 7.13 | 10.82 | 7.14 | 6.82 | 6.50 | 6.02 | 6.26 | 6.50 | 5.77 | 5.88 |
| 23 | 6.73 | 6.97 | 7.71 | 8.70 | 6.98 | 6.76 | 6.46 | 6.01 | 6.12 | 6.24 | 5.74 | 5.88 |
| 24 | 6.61 | 6.92 | 7.06 | 8.14 | 7.00 | 6.72 | 6.44 | 5.99 | 6.04 | 6.15 | 5.74 | 5.86 |
| 25 | 6.55 | 6.84 | 8.95 | 7.82 | 11.80 | 6.71 | 6.45 | 5.99 | 5.98 | 6.10 | 5.83 | 5.86 |
| 26 | 6.55 | 6.78 | 9.85 | 7.60 | 8.83 | 6.68 | 6.44 | 5.98 | 7.07 | 6.07 | 6.39 | 5.86 |
| 27 | 8.19 | 6.74 | 8.35 | 7.47 | 7.99 | 6.66 | 6.42 | 5.98 | 7.58 | 6.03 | 6.03 | 5.85 |
| 28 | 8.05 | 6.73 | 7.74 | 7.47 | 7.61 | 6.78 | 6.37 | 5.95 | 6.21 | 6.01 | 5.88 | 5.90 |
| 29 | 6.94 | 6.63 | 7.39 | 7.32 | --- | 6.76 | 6.33 | 5.94 | 6.07 | 6.11 | 5.81 | 5.84 |
| 30 | 6.68 | 6.65 | 9.54 | 7.20 | --- | 6.66 | 6.29 | 5.94 | 6.00 | 6.37 | 5.82 | 5.82 |
| 31 | 6.85 | --- | 19.58 | 7.11 | --- | 6.59 | --- | 5.98 | --- | 6.12 | 5.89 | --- |
| Mean | 6.89 | 7.70 | 7.63 | 9.49 | 7.72 | 7.74 | 6.71 | 6.21 | 6.24 | --- | 5.89 | 6.10 |
| Max | 14.61 | 13.00 | 19.58 | 22.23 | 12.22 | 14.87 | 8.59 | 7.05 | 8.42 | --- | 6.39 | 9.48 |
| Min | 5.86 | 6.63 | 6.47 | 7.11 | 6.76 | 6.59 | 6.29 | 5.94 | 5.80 | --- | 5.74 | 5.74 |

**02436500 TOWN CREEK NEAR NETTLETON, MS—Continued**