

Water-Data Report 2008

**07077380 CACHE RIVER AT EGYPT, AR**

White Basin  
Cache Subbasin

LOCATION.--Lat 35°51'28", long 90°56'00" referenced to North American Datum of 1983, in NW ¼ SE ¼ sec.12, T.14 N., R.1 E., Craighead County, AR, Hydrologic Unit 08020302, on left upstream abutment of bridge on State Hwy 91, 50 ft downstream from junction of East Cache River Ditch (Cache River channel separation), 1.0 mi southeast of Egypt, 2.2 mi northwest of Winesburg, and at mile 143.

DRAINAGE AREA.--701 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Oct 1964 to current year. Daily stages and results of discharge measurements for Jul 1937 to Dec 1940, and Dec 1944 to date are published in reports of U.S. Army Corps of Engineers.

REVISED RECORDS.--WDR Arkansas 1972: 1966. WDR Arkansas 1973: Drainage area. WDR Arkansas 2000: 1998-99.

GAGE.--Water-stage recorder. Datum of gage is 222.99 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Water-discharge records fair except estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,500 ft<sup>3</sup>/s, Apr 6, gage height, 20.04 ft; minimum discharge, 0.00 ft<sup>3</sup>/s, on several days, gage height, 3.98 ft.

## 07077380 CACHE RIVER AT EGYPT, AR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

| Day          | Oct       | Nov       | Dec     | Jan    | Feb    | Mar     | Apr     | May    | Jun      | Jul    | Aug    | Sep    |
|--------------|-----------|-----------|---------|--------|--------|---------|---------|--------|----------|--------|--------|--------|
| 1            | 57        | 91        | 179     | 247    | 331    | 188     | 4,380   | 130    | 54       | 188    | 93     | 293    |
| 2            | 28        | 58        | 99      | 151    | 241    | 179     | 4,430   | 824    | 37       | 74     | 118    | 244    |
| 3            | 13        | 39        | 76      | 82     | 215    | 1,230   | 4,580   | 2,770  | 33       | 44     | 139    | 361    |
| 4            | 3.8       | 22        | 554     | 57     | 228    | 4,280   | 5,100   | 1,320  | 45       | 159    | 140    | 1,450  |
| 5            | 0.46      | 16        | 440     | 76     | 275    | 4,580   | 5,360   | 436    | 38       | 356    | 98     | 2,230  |
| 6            | 0.00      | 11        | 140     | 67     | 768    | 4,570   | 5,460   | 165    | 29       | 308    | 70     | 2,160  |
| 7            | 0.00      | 6.4       | 61      | 64     | 1,670  | 4,470   | 5,460   | 93     | 35       | 218    | 99     | 1,580  |
| 8            | 2.0       | 10        | 36      | 75     | 1,560  | 4,320   | 5,330   | 79     | 42       | 136    | 704    | 995    |
| 9            | 820       | 4.2       | 27      | 412    | 785    | 4,170   | 5,150   | 77     | 39       | 74     | 828    | 737    |
| 10           | 598       | 0.00      | 727     | 1,140  | 358    | 3,970   | 5,010   | 108    | 45       | 77     | 646    | 619    |
| 11           | 211       | 0.00      | 1,610   | 934    | 237    | 3,710   | 5,030   | 349    | 50       | 213    | 412    | 524    |
| 12           | 86        | 0.00      | 2,080   | 515    | 1,700  | 2,990   | 4,950   | 121    | 44       | 302    | 209    | 446    |
| 13           | 43        | 0.00      | 2,200   | 306    | 3,520  | 1,510   | 4,830   | 139    | 28       | 335    | 116    | 416    |
| 14           | 17        | 4.9       | 1,870   | 211    | 3,490  | 1,120   | 4,690   | 915    | 30       | 1,100  | 95     | 346    |
| 15           | 8.3       | 115       | 2,700   | 165    | 3,310  | 1,720   | 4,500   | 423    | 89       | 1,200  | 310    | 277    |
| 16           | 70        | 67        | 3,780   | 140    | 3,140  | 1,770   | 4,290   | 213    | 71       | 703    | 1,260  | 241    |
| 17           | 268       | 30        | 3,760   | 113    | 3,080  | 915     | 3,850   | 161    | 13       | 277    | 1,110  | 200    |
| 18           | 3,250     | 23        | 3,570   | 96     | 3,000  | 814     | 2,800   | 112    | 0.00     | 116    | 765    | 168    |
| 19           | 3,910     | 18        | 3,340   | 85     | 2,620  | 4,500   | 1,930   | 70     | 0.00     | 43     | 392    | 157    |
| 20           | 3,820     | 11        | 3,310   | 71     | 1,460  | 5,030   | 1,240   | 45     | 27       | 36     | 244    | 215    |
| 21           | 3,470     | 620       | 3,460   | 49     | 763    | 5,120   | 755     | 31     | 57       | 65     | 480    | 778    |
| 22           | 2,360     | 1,260     | 3,300   | 60     | 987    | 5,190   | 526     | 23     | 45       | 63     | 1,330  | 1,130  |
| 23           | 1,250     | 850       | 3,230   | 65     | 1,150  | 5,160   | 351     | 22     | 89       | 108    | 1,490  | 825    |
| 24           | 1,910     | 400       | 3,060   | 59     | 978    | 5,050   | 343     | 18     | 110      | 232    | 1,350  | 522    |
| 25           | 2,240     | 748       | 2,810   | 44     | 651    | 4,870   | 303     | 22     | 68       | 208    | 974    | 316    |
| 26           | 2,220     | 2,920     | 2,240   | 45     | 499    | 4,680   | 1,710   | 75     | 41       | 182    | 860    | 228    |
| 27           | 1,620     | 3,080     | 1,530   | 52     | 358    | 4,480   | 1,570   | 92     | 29       | 165    | 775    | 170    |
| 28           | 867       | 2,270     | 1,260   | 66     | 276    | 4,310   | 802     | 145    | 86       | 173    | 535    | 146    |
| 29           | 431       | 1,040     | 1,060   | 109    | 215    | 4,150   | 331     | 341    | 272      | 136    | 462    | 106    |
| 30           | 225       | 400       | 727     | 282    | ---    | 4,040   | 190     | 193    | 280      | 96     | 444    | 75     |
| 31           | 141       | ---       | 416     | 510    | ---    | 4,020   | ---     | 111    | ---      | 81     | 390    | ---    |
| <b>Total</b> | 29,939.56 | 14,114.50 | 53,652  | 6,348  | 37,865 | 107,106 | 95,251  | 9,623  | 1,826.00 | 7,468  | 16,938 | 17,955 |
| <b>Mean</b>  | 966       | 470       | 1,731   | 205    | 1,306  | 3,455   | 3,175   | 310    | 60.9     | 241    | 546    | 598    |
| <b>Max</b>   | 3,910     | 3,080     | 3,780   | 1,140  | 3,520  | 5,190   | 5,460   | 2,770  | 280      | 1,200  | 1,490  | 2,230  |
| <b>Min</b>   | 0.00      | 0.00      | 27      | 44     | 215    | 179     | 190     | 18     | 0.00     | 36     | 70     | 75     |
| <b>Ac-ft</b> | 59,390    | 28,000    | 106,400 | 12,590 | 75,110 | 212,400 | 188,900 | 19,090 | 3,620    | 14,810 | 33,600 | 35,610 |
| <b>Cfsm</b>  | 1.38      | 0.67      | 2.47    | 0.29   | 1.86   | 4.93    | 4.53    | 0.44   | 0.09     | 0.34   | 0.78   | 0.85   |
| <b>In.</b>   | 1.59      | 0.75      | 2.85    | 0.34   | 2.01   | 5.68    | 5.05    | 0.51   | 0.10     | 0.40   | 0.90   | 0.95   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2008, BY WATER YEAR (WY)

|             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Mean</b> | 412    | 775    | 1,309  | 1,300  | 1,244  | 1,215  | 1,199  | 1,024  | 450    | 441    | 447    | 483    |
| <b>Max</b>  | 2,437  | 2,942  | 4,729  | 4,249  | 3,552  | 3,543  | 4,759  | 4,256  | 1,655  | 1,528  | 2,117  | 1,637  |
| <b>(WY)</b> | (1985) | (1997) | (2002) | (1991) | (1989) | (1997) | (1979) | (1973) | (2000) | (1976) | (1998) | (1965) |
| <b>Min</b>  | 12.5   | 0.47   | 6.02   | 11.8   | 87.4   | 137    | 75.2   | 84.9   | 29.2   | 102    | 85.8   | 61.9   |
| <b>(WY)</b> | (1995) | (2006) | (2006) | (1981) | (1996) | (2007) | (1981) | (1987) | (1988) | (1968) | (1968) | (2004) |

07077380 CACHE RIVER AT EGYPT, AR—Continued

SUMMARY STATISTICS

|                          | Calendar Year 2007 |        | Water Year 2008 |                    | Water Years 1965 - 2008 |                          |
|--------------------------|--------------------|--------|-----------------|--------------------|-------------------------|--------------------------|
| Annual total             | 285,160.70         |        | 398,086.06      |                    |                         |                          |
| Annual mean              | 781                |        | 1,088           |                    | 857                     |                          |
| Highest annual mean      |                    |        |                 |                    | 1,762                   | 1973                     |
| Lowest annual mean       |                    |        |                 |                    | 299                     | 1972                     |
| Highest daily mean       | 5,100              | Jan 17 | 5,460           | Apr 6 <sup>a</sup> | 7,940                   | Apr 25, 1973             |
| Lowest daily mean        | 0.00               | May 24 | 0.00            | Oct 6 <sup>a</sup> | 0.00                    | Nov 6, 1982 <sup>a</sup> |
| Annual seven-day minimum | 2.7                | Nov 8  | 2.7             | Nov 8              | 0.00                    | Oct 14, 1991             |
| Maximum peak flow        |                    |        | 5,500           | Apr 6              | 8,490                   | Jan 6, 1966              |
| Maximum peak stage       |                    |        | 20.04           | Apr 6              | 21.88                   | Jan 6, 1966              |
| Instantaneous low flow   |                    |        | 0.00            | Oct 5 <sup>a</sup> | 0.00                    | Jan 1, 1965 <sup>a</sup> |
| Annual runoff (ac-ft)    | 565,600            |        | 789,600         |                    | 620,600                 |                          |
| Annual runoff (cfs)      | 1.11               |        | 1.55            |                    | 1.22                    |                          |
| Annual runoff (inches)   | 15.13              |        | 21.13           |                    | 16.60                   |                          |
| 10 percent exceeds       | 2,820              |        | 3,930           |                    | 2,790                   |                          |
| 50 percent exceeds       | 207                |        | 307             |                    | 290                     |                          |
| 90 percent exceeds       | 17                 |        | 30              |                    | 35                      |                          |

<sup>a</sup> Occurred on several days

