

Water-Data Report 2007

**06923250 NIANGUA RIVER AT WINDYVILLE, MO**

Osage Basin  
Niangua Subbasin

LOCATION.--Lat 37°41'03", long 92°55'27" referenced to North American Datum of 1927, in NW ¼ SE ¼ NE ¼ sec.8, T.34 N., R.18 W., Dallas County, MO, Hydrologic Unit 10290110, at bridge on Highway K, 1.75 mi south of Windyville, and 0.4 mi above Fourmile Creek.

DRAINAGE AREA.--377 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1991 to September 1996, Feb. 26, 2007 to current year.

GAGE.--Water-stage recorder. Elevation of gage 900 ft, from topographic map.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR CURRENT YEAR.--For period Feb 26 to Sep 30, maximum discharge, 7,990 ft<sup>3</sup>/s, Jul 2, gage height, 11.81 ft; minimum discharge, 9.5 ft<sup>3</sup>/s, Aug 16, 17, gage height, 1.03 ft.

## 06923250 NIANGUA RIVER AT WINDYVILLE, MO—Continued

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

| Day  | Oct | Nov | Dec | Jan | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|
| 1    | --- | --- | --- | --- | --- | 205 | 213   | 304   | 206   | 3,020 | 41    | 52    |
| 2    | --- | --- | --- | --- | --- | 226 | 196   | 326   | 4,410 | 5,750 | 39    | 44    |
| 3    | --- | --- | --- | --- | --- | 232 | 171   | 362   | 2,020 | 1,160 | 36    | 38    |
| 4    | --- | --- | --- | --- | --- | 199 | 150   | 318   | 816   | 732   | 33    | 32    |
| 5    | --- | --- | --- | --- | --- | 178 | 134   | 270   | 558   | 588   | 28    | 29    |
| 6    | --- | --- | --- | --- | --- | 164 | 121   | 235   | 424   | 516   | 26    | 31    |
| 7    | --- | --- | --- | --- | --- | 154 | 111   | 208   | 344   | 422   | 23    | 45    |
| 8    | --- | --- | --- | --- | --- | 146 | 103   | 186   | 381   | 361   | 21    | 308   |
| 9    | --- | --- | --- | --- | --- | 138 | 96    | 172   | 280   | 314   | 19    | 352   |
| 10   | --- | --- | --- | --- | --- | 136 | 92    | 171   | 786   | 276   | 17    | 570   |
| 11   | --- | --- | --- | --- | --- | 128 | 101   | 296   | 950   | 250   | 16    | 1,280 |
| 12   | --- | --- | --- | --- | --- | 119 | 102   | 246   | 1,460 | 227   | 14    | 430   |
| 13   | --- | --- | --- | --- | --- | 113 | 116   | 208   | 997   | 203   | 13    | 297   |
| 14   | --- | --- | --- | --- | --- | 108 | 3,260 | 179   | 548   | 185   | 12    | 229   |
| 15   | --- | --- | --- | --- | --- | 105 | 2,500 | 166   | 402   | 168   | 11    | 184   |
| 16   | --- | --- | --- | --- | --- | 99  | 949   | 201   | 331   | 152   | 10    | 154   |
| 17   | --- | --- | --- | --- | --- | 92  | 625   | 177   | 275   | 138   | 11    | 133   |
| 18   | --- | --- | --- | --- | --- | 86  | 488   | 145   | 237   | 127   | 14    | 118   |
| 19   | --- | --- | --- | --- | --- | 83  | 399   | 123   | 287   | 113   | 19    | 106   |
| 20   | --- | --- | --- | --- | --- | 91  | 334   | 106   | 234   | 102   | 2,100 | 96    |
| 21   | --- | --- | --- | --- | --- | 175 | 285   | 93    | 185   | 103   | 1,320 | 86    |
| 22   | --- | --- | --- | --- | --- | 271 | 250   | 82    | 149   | 95    | 426   | 78    |
| 23   | --- | --- | --- | --- | --- | 222 | 224   | 73    | 138   | 83    | 256   | 71    |
| 24   | --- | --- | --- | --- | --- | 286 | 208   | 66    | 291   | 75    | 177   | 64    |
| 25   | --- | --- | --- | --- | --- | 278 | 1,330 | 65    | 222   | 69    | 133   | 62    |
| 26   | --- | --- | --- | --- | 259 | 239 | 1,470 | 529   | 141   | 63    | 217   | 59    |
| 27   | --- | --- | --- | --- | 236 | 211 | 780   | 1,770 | 113   | 58    | 169   | 62    |
| 28   | --- | --- | --- | --- | 212 | 192 | 551   | 673   | 117   | 53    | 117   | 58    |
| 29   | --- | --- | --- | --- | --- | 175 | 439   | 398   | 191   | 49    | 91    | 55    |
| 30   | --- | --- | --- | --- | --- | 164 | 353   | 296   | 368   | 47    | 74    | 50    |
| 31   | --- | --- | --- | --- | --- | 163 | ---   | 240   | ---   | 43    | 62    | ---   |
| Mean | --- | --- | --- | --- | --- | 167 | 538   | 280   | 595   | 501   | 179   | 172   |
| Max  | --- | --- | --- | --- | --- | 286 | 3,260 | 1,770 | 4,410 | 5,750 | 2,100 | 1,280 |
| Min  | --- | --- | --- | --- | --- | 83  | 92    | 65    | 113   | 43    | 10    | 29    |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2007 <sup>a</sup>, BY WATER YEAR (WY)**

|      | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 106    | 656    | 344    | 357    | 318    | 299    | 772    | 718    | 440    | 178    | 83.4   | 517    |
| Max  | 230    | 1,351  | 559    | 730    | 507    | 569    | 1,865  | 1,456  | 920    | 501    | 179    | 2,758  |
| (WY) | (1994) | (1997) | (1993) | (1995) | (1997) | (1994) | (1994) | (1995) | (1995) | (2007) | (2007) | (1993) |
| Min  | 22.5   | 31.0   | 54.8   | 175    | 75.5   | 68.7   | 184    | 117    | 127    | 54.6   | 24.3   | 35.3   |
| (WY) | (1993) | (1996) | (1996) | (1992) | (1996) | (1996) | (1992) | (1992) | (1996) | (1996) | (1991) | (1995) |

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SUMMARY STATISTICS

| Water Years 1991 - 2007 <sup>a</sup> |        |                           |
|--------------------------------------|--------|---------------------------|
| Annual mean                          | 404    |                           |
| Highest annual mean                  | 583    | 1993                      |
| Lowest annual mean                   | 206    | 1992                      |
| Highest daily mean                   | 31,000 | Sep 25, 1993              |
| Lowest daily mean                    | 10     | Aug 16, 2007              |
| Annual seven-day minimum             | 12     | Aug 12, 2007              |
| Maximum peak flow                    | 44,700 | Sep 25, 1993              |
| Maximum peak stage                   | 24.36  | Sep 25, 1993              |
| Instantaneous low flow               | 9.5    | Aug 16, 2007 <sup>b</sup> |
| 10 percent exceeds                   | 787    |                           |
| 50 percent exceeds                   | 164    |                           |
| 90 percent exceeds                   | 32     |                           |

<sup>a</sup> For Period of Record

<sup>b</sup> Also Aug 17, 2007

