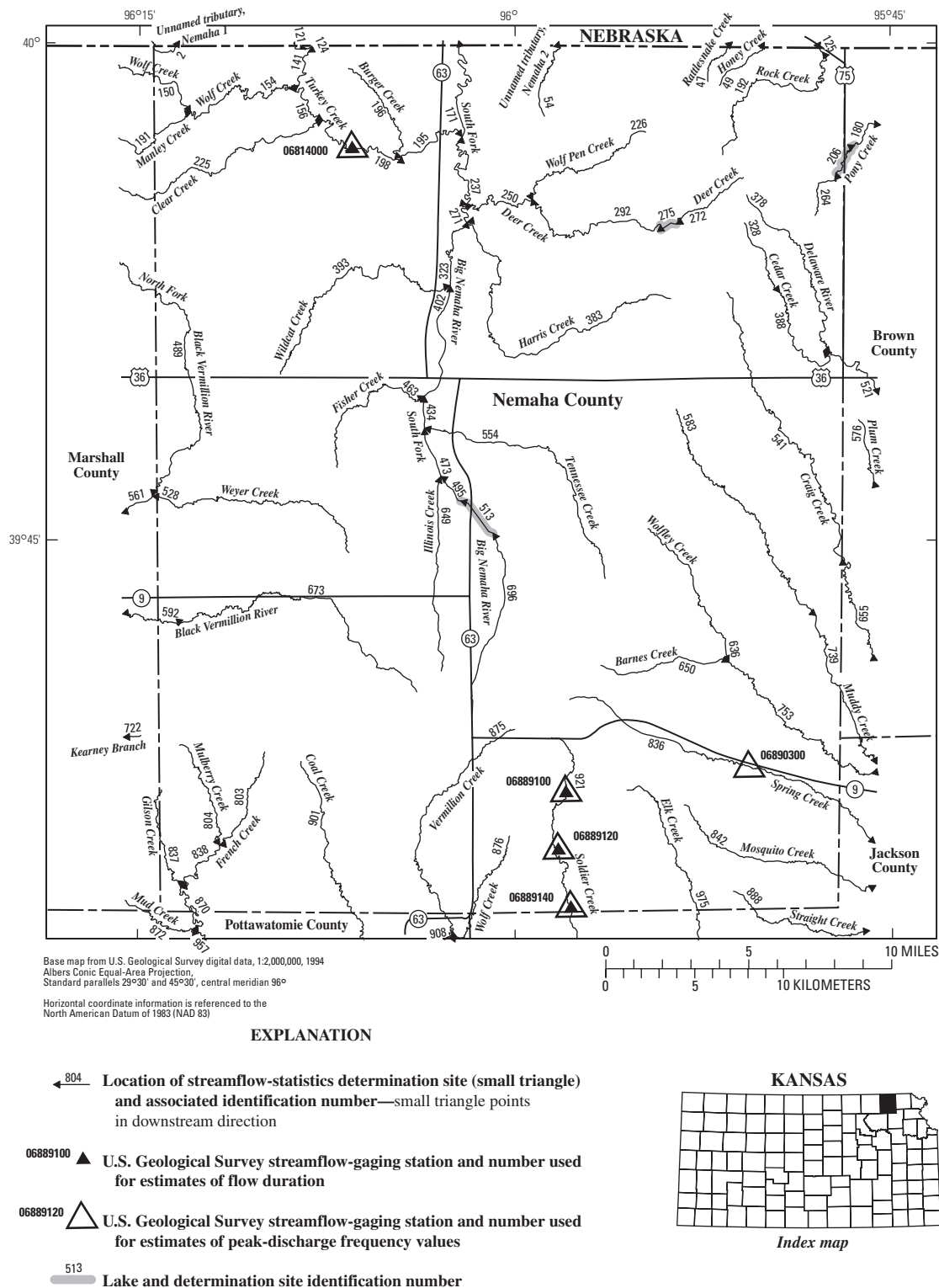




**Figure 76.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Nemaha County.

**Table 72.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Nemaha County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 76) | KSWR CUSEGA number | Stream segment by county (table 111) |     |     |                             | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-----------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                         |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 2                                                  | 1024000722         | NM                                   | MS  |     | Unnamed tributary, Nemaha 1 | 10.0                                          | 0                                                                                                             | 0          | 0.36       | 1.50       | 5.20       |
| 47                                                 | 1024000727         | NM                                   |     |     | Rattlesnake Creek           | 9.02                                          | 0                                                                                                             | 0          | .82        | 2.27       | 6.29       |
| 49                                                 | 1024000726         | NM                                   |     |     | Honey Creek                 | 2.36                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 54                                                 | 10240007212        | NM                                   |     |     | Unnamed tributary, Nemaha 2 | 12.1                                          | 0                                                                                                             | .01        | .85        | 2.62       | 7.61       |
| 121                                                | 102400075          | NM                                   |     |     | Turkey Creek                | 209                                           | .90                                                                                                           | 4.56       | 14.8       | 46.6       | 136        |
| 124                                                | 102400075          | NM                                   |     |     | Turkey Creek                | 209                                           | .90                                                                                                           | 4.58       | 14.8       | 46.8       | 137        |
| 125                                                | 1024000720         | NM                                   |     |     | Rock Creek                  | 17.2                                          | .01                                                                                                           | .01        | .81        | 3.44       | 11.3       |
| 141                                                | 102400075          | NM                                   |     |     | Turkey Creek                | 211                                           | .92                                                                                                           | 4.65       | 15.0       | 47.3       | 138        |
| 154                                                | 1024000712         | NM                                   |     |     | Wolf Creek                  | 35.8                                          | .03                                                                                                           | .05        | 2.20       | 7.63       | 22.5       |
| 156                                                | 102400074          | NM                                   |     |     | Turkey Creek                | 248                                           | 1.39                                                                                                          | 5.86       | 18.1       | 57.1       | 167        |
| 171                                                | 102400073          | NM                                   |     |     | South Fork Big Nemaha River | 536                                           | 13.4                                                                                                          | 29.0       | 74.7       | 212        | 621        |
| 192                                                | 1024000720         | NM                                   |     |     | Rock Creek                  | 16.4                                          | .01                                                                                                           | .01        | .76        | 3.25       | 10.8       |
| 195                                                | 102400074          | NM                                   |     |     | Turkey Creek                | 303                                           | 2.71                                                                                                          | 8.58       | 24.8       | 76.4       | 224        |
| 196                                                | 1024000724         | NM                                   |     |     | Burger Creek                | 9.83                                          | 0                                                                                                             | 0          | .60        | 1.78       | 5.38       |
| 198                                                | 102400074          | NM                                   |     |     | Turkey Creek                | 290                                           | 2.10                                                                                                          | 7.40       | 22.0       | 69.0       | 203        |
| 226                                                | 1024000725         | NM                                   |     |     | Wolf Pen Creek              | 17.1                                          | .01                                                                                                           | .01        | .60        | 2.91       | 10.1       |
| 237                                                | 1024000715         | NM                                   |     |     | South Fork Big Nemaha River | 224                                           | 1.19                                                                                                          | 5.01       | 18.2       | 59.7       | 184        |
| 250                                                | 1024000718         | NM                                   |     |     | Deer Creek                  | 42.0                                          | .04                                                                                                           | .07        | 2.46       | 9.22       | 28.7       |
| 264                                                | 1024000838         | NM                                   |     |     | Pony Creek                  | 7.37                                          | 0                                                                                                             | 0          | .03        | .88        | 4.18       |
| 271                                                | 1024000716         | NM                                   |     |     | South Fork Big Nemaha River | 178                                           | .75                                                                                                           | 3.54       | 13.9       | 46.2       | 142        |
| 272                                                | 1024000718         | NM                                   |     |     | Deer Creek                  | 7.67                                          | 0                                                                                                             | 0          | .01        | .67        | 3.72       |
| 275                                                | HYDRO              | NM                                   |     |     | HYDRO                       | 8.87                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 292                                                | 1024000718         | NM                                   |     |     | Deer Creek                  | 21.7                                          | .01                                                                                                           | .02        | 1.20       | 4.78       | 15.2       |
| 323                                                | 1024000716         | NM                                   |     |     | South Fork Big Nemaha River | 142                                           | .48                                                                                                           | 2.47       | 10.5       | 35.7       | 109        |
| 328                                                | 1027010337         | NM                                   |     |     | Cedar Creek                 | 4.98                                          | 0                                                                                                             | 0          | 0          | 0          | 1.28       |
| 378                                                | 1027010323         | NM                                   |     |     | Delaware River              | 14.1                                          | 0                                                                                                             | .01        | .48        | 2.58       | 9.30       |
| 383                                                | 10240007166        | NM                                   |     |     | Harris Creek                | 35.0                                          | .03                                                                                                           | .05        | 2.42       | 8.71       | 26.2       |
| 388                                                | 1027010337         | NM                                   |     |     | Cedar Creek                 | 11.0                                          | 0                                                                                                             | .01        | .31        | 1.89       | 7.10       |
| 393                                                | 1024000723         | NM                                   |     |     | Wildcat Creek               | 34.6                                          | .03                                                                                                           | .05        | 1.35       | 5.58       | 18.5       |
| 402                                                | 1024000716         | NM                                   |     |     | South Fork Big Nemaha River | 103                                           | .25                                                                                                           | 1.64       | 8.03       | 27.6       | 83.4       |
| 434                                                | 1024000716         | NM                                   |     |     | South Fork Big Nemaha River | 77.7                                          | .14                                                                                                           | 1.13       | 6.39       | 22.1       | 65.9       |
| 463                                                | 1024000728         | NM                                   |     |     | Fisher Creek                | 17.1                                          | .01                                                                                                           | .01        | .48        | 2.58       | 9.41       |
| 473                                                | 1024000716         | NM                                   |     |     | South Fork Big Nemaha River | 44.4                                          | .05                                                                                                           | .35        | 3.61       | 12.7       | 37.5       |
| 495                                                | 1024000716         | NM                                   |     |     | South Fork Big Nemaha River | 24.4                                          | .01                                                                                                           | .02        | 1.94       | 6.95       | 20.6       |
| 513                                                | HYDRO              | NM                                   |     |     | HYDRO                       | 23.2                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 554                                                | 1024000729         | NM                                   |     |     | Tennessee Creek             | 32.3                                          | .02                                                                                                           | .06        | 2.58       | 9.14       | 27.0       |
| 583                                                | 1027010326         | NM                                   |     |     | Muddy Creek                 | 31.7                                          | .02                                                                                                           | .05        | 2.33       | 8.57       | 26.0       |
| 636                                                | 1027010327         | NM                                   |     |     | Wolfley Creek               | 17.3                                          | .01                                                                                                           | .01        | 1.35       | 4.97       | 14.9       |

**Table 72.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Nemaha County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 76) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 2                                                  | 4.94                                     | 888                                                                                  | 2,040  | 3,070   | 4,660   | 6,000   | 7,550    |
| 47                                                 | 5.31                                     | 925                                                                                  | 2,070  | 3,070   | 4,620   | 5,910   | 7,400    |
| 49                                                 | .83                                      | 431                                                                                  | 934    | 1,370   | 2,020   | 2,570   | 3,180    |
| 54                                                 | 6.52                                     | 1,060                                                                                | 2,400  | 3,590   | 5,430   | 6,990   | 8,770    |
| 121                                                | 90.5                                     | 5,090                                                                                | 11,000 | 16,300  | 24,600  | 32,000  | 40,200   |
| 124                                                | 90.8                                     | 5,070                                                                                | 11,000 | 16,300  | 24,600  | 31,900  | 40,200   |
| 125                                                | 9.82                                     | 1,390                                                                                | 3,130  | 4,660   | 7,040   | 9,030   | 11,300   |
| 141                                                | 91.5                                     | 4,960                                                                                | 10,800 | 16,000  | 24,200  | 31,500  | 39,700   |
| 154                                                | 17.5                                     | 2,760                                                                                | 6,080  | 9,070   | 13,600  | 17,700  | 22,100   |
| 156                                                | 109                                      | 5,490                                                                                | 11,800 | 17,500  | 26,300  | 34,200  | 43,100   |
| 171                                                | 379                                      | 9,040                                                                                | 18,700 | 27,300  | 40,700  | 52,500  | 65,800   |
| 192                                                | 9.38                                     | 1,350                                                                                | 3,040  | 4,530   | 6,830   | 8,760   | 11,000   |
| 195                                                | 142                                      | 5,900                                                                                | 12,700 | 18,700  | 28,100  | 36,500  | 45,900   |
| 196                                                | 4.91                                     | 898                                                                                  | 2,050  | 3,070   | 4,660   | 6,000   | 7,540    |
| 198                                                | 129                                      | 5,820                                                                                | 12,500 | 18,400  | 27,700  | 36,000  | 45,300   |
| 226                                                | 9.17                                     | 1,350                                                                                | 3,050  | 4,570   | 6,910   | 8,880   | 11,100   |
| 237                                                | 125                                      | 6,900                                                                                | 14,400 | 21,200  | 31,600  | 40,800  | 51,000   |
| 250                                                | 22.8                                     | 3,350                                                                                | 7,240  | 10,700  | 16,000  | 20,700  | 25,800   |
| 264                                                | 4.39                                     | 892                                                                                  | 1,950  | 2,860   | 4,260   | 5,420   | 6,750    |
| 271                                                | 98.3                                     | 6,470                                                                                | 13,500 | 19,800  | 29,300  | 37,700  | 47,000   |
| 272                                                | 4.18                                     | 889                                                                                  | 1,950  | 2,880   | 4,300   | 5,490   | 6,840    |
| 275                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 292                                                | 12.6                                     | 1,600                                                                                | 3,610  | 5,390   | 8,150   | 10,500  | 13,100   |
| 323                                                | 77.4                                     | 5,770                                                                                | 12,100 | 17,800  | 26,400  | 34,000  | 42,400   |
| 328                                                | 2.40                                     | 711                                                                                  | 1,540  | 2,250   | 3,340   | 4,240   | 5,260    |
| 378                                                | 8.51                                     | 1,330                                                                                | 2,920  | 4,320   | 6,450   | 8,230   | 10,300   |
| 383                                                | 20.4                                     | 2,900                                                                                | 6,300  | 9,350   | 14,000  | 18,000  | 22,500   |
| 388                                                | 6.70                                     | 1,140                                                                                | 2,500  | 3,680   | 5,490   | 7,010   | 8,740    |
| 393                                                | 16.1                                     | 2,470                                                                                | 5,630  | 8,550   | 13,100  | 17,100  | 21,600   |
| 402                                                | 59.5                                     | 5,220                                                                                | 10,900 | 15,900  | 23,500  | 30,200  | 37,400   |
| 434                                                | 47.2                                     | 4,840                                                                                | 10,000 | 14,600  | 21,500  | 27,400  | 33,900   |
| 463                                                | 8.87                                     | 1,370                                                                                | 3,090  | 4,610   | 6,970   | 8,950   | 11,200   |
| 473                                                | 27.8                                     | 3,490                                                                                | 7,400  | 10,900  | 16,100  | 20,700  | 25,700   |
| 495                                                | 15.9                                     | 1,800                                                                                | 4,020  | 5,990   | 9,020   | 11,600  | 14,500   |
| 513                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 554                                                | 20.5                                     | 3,300                                                                                | 6,930  | 10,100  | 14,900  | 19,000  | 23,500   |
| 583                                                | 20.2                                     | 2,720                                                                                | 5,920  | 8,790   | 13,200  | 17,000  | 21,200   |
| 636                                                | 11.8                                     | 1,530                                                                                | 3,350  | 4,940   | 7,380   | 9,430   | 11,800   |

**Table 72.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Nemaha County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

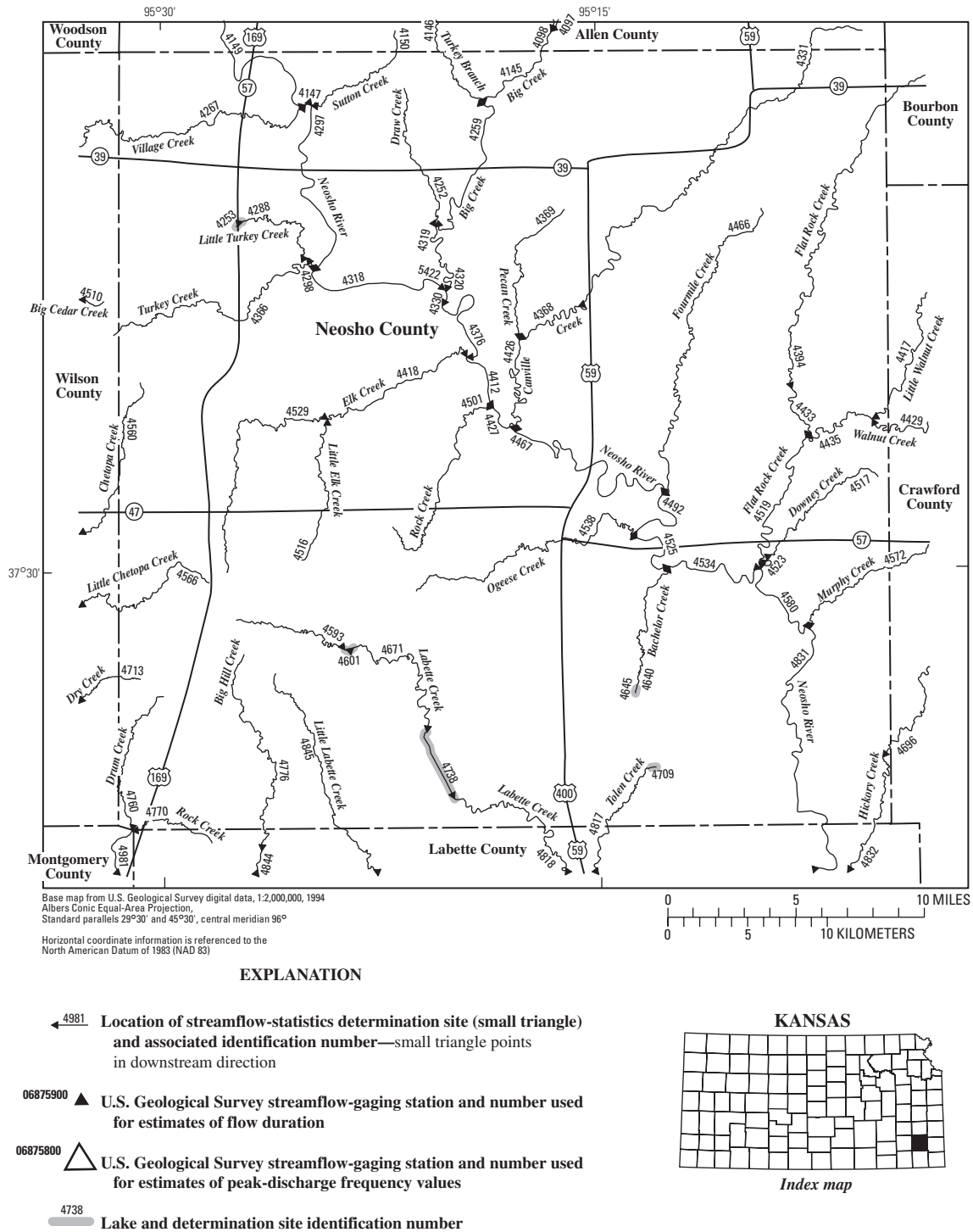
| Determination site identification number (fig. 76) | KSWR CUSEGA number | Stream segment by county (table 111) |     |     |     | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-----|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 649                                                | 1024000730         | NM                                   |     |     |     | 16.4                                          | 0.01                                                                                                          | 0.01       | 1.26       | 4.60       | 13.8       |
| 650                                                | 1027010339         | NM                                   |     |     |     | 13.3                                          | 0                                                                                                             | .01        | 1.09       | 4.00       | 12.0       |
| 673                                                | 1027020514         | NM                                   |     |     |     | 41.1                                          | .04                                                                                                           | .10        | 2.68       | 9.66       | 29.5       |
| 696                                                | 1024000716         | NM                                   |     |     |     | 19.3                                          | .01                                                                                                           | .02        | 1.55       | 5.59       | 16.6       |
| 803                                                | 1027010219         | NM                                   |     |     |     | 13.4                                          | 0                                                                                                             | 0          | .80        | 3.13       | 9.79       |
| 804                                                | 1027010242         | NM                                   |     |     |     | 10.6                                          | 0                                                                                                             | 0          | .44        | 1.99       | 6.83       |
| 838                                                | 1027010219         | NM                                   |     |     |     | 27.9                                          | 0                                                                                                             | 0          | 1.83       | 6.70       | 20.1       |
| 870                                                | 1027010219         | NM                                   | PT  |     |     | 40.3                                          | 0                                                                                                             | 0          | 2.61       | 9.48       | 28.3       |
| 875                                                | 1027010218         | NM                                   | PT  |     |     | 25.8                                          | 0                                                                                                             | 0          | 1.94       | 7.04       | 20.8       |
| 901                                                | 1027010246         | NM                                   | PT  |     |     | 28.5                                          | 0                                                                                                             | 0          | 2.13       | 7.66       | 22.5       |

**Table 72.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Nemaha County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 76) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 649                                                | 11.0                                     | 1,430                                                                                | 3,160  | 4,690   | 7,030   | 9,000   | 11,300   |
| 650                                                | 9.56                                     | 1,320                                                                                | 2,880  | 4,240   | 6,320   | 8,060   | 10,000   |
| 673                                                | 23.3                                     | 2,630                                                                                | 5,880  | 8,860   | 13,500  | 17,500  | 22,100   |
| 696                                                | 12.9                                     | 1,580                                                                                | 3,500  | 5,200   | 7,800   | 9,990   | 12,500   |
| 803                                                | 8.29                                     | 1,260                                                                                | 2,770  | 4,110   | 6,150   | 7,860   | 9,820    |
| 804                                                | 6.26                                     | 1,080                                                                                | 2,390  | 3,540   | 5,290   | 6,760   | 8,440    |
| 838                                                | 16.0                                     | 1,910                                                                                | 4,290  | 6,390   | 9,650   | 12,400  | 15,500   |
| 870                                                | 22.1                                     | 3,040                                                                                | 6,590  | 9,780   | 14,600  | 18,900  | 23,500   |
| 875                                                | 16.2                                     | 1,890                                                                                | 4,210  | 6,250   | 9,390   | 12,000  | 15,000   |
| 901                                                | 17.4                                     | 1,980                                                                                | 4,430  | 6,590   | 9,920   | 12,700  | 15,900   |





**Figure 77.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Neosho County.

**Table 73.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Neosho County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 77) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                      | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|----------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                  |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 4147                                               | 110702043          | NO                                   |     |     | Neosho River         | 4,140                                         | 46.4                                                                                                          | 142        | 679        | 2,830      | 8,190      |
| 4252                                               | 1107020434         | NO                                   |     |     | Draw Creek           | 10.5                                          | 0                                                                                                             | .17        | 1.89       | 6.01       | 15.8       |
| 4253                                               | HYDRO              | NO                                   |     |     | HYDRO                | 5.28                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 4259                                               | 110702042          | NO                                   |     |     | Big Creek            | 114                                           | 0                                                                                                             | 2.12       | 11.0       | 41.3       | 127        |
| 4267                                               | 1107020433         | NO                                   | WL  |     | Village Creek        | 49.2                                          | 0                                                                                                             | .32        | 4.09       | 16.7       | 52.9       |
| 4288                                               | 11070204397        | NO                                   |     |     | Little Turkey Creek  | 9.54                                          | 0                                                                                                             | 0          | .56        | 3.13       | 10.7       |
| 4297                                               | 110702043          | NO                                   |     |     | Neosho River         | 4,160                                         | 46.6                                                                                                          | 143        | 685        | 2,850      | 8,250      |
| 4298                                               | 1107020432         | NO                                   |     |     | Turkey Creek         | 30.4                                          | 0                                                                                                             | 0          | 2.62       | 11.3       | 35.7       |
| 4318                                               | 110702043          | NO                                   |     |     | Neosho River         | 4,200                                         | 47.1                                                                                                          | 146        | 696        | 2,900      | 8,350      |
| 4319                                               | 110702042          | NO                                   |     |     | Big Creek            | 128                                           | .05                                                                                                           | 2.52       | 12.7       | 47.3       | 146        |
| 4320                                               | 110702041          | NO                                   |     |     | Neosho River         | 4,200                                         | 47.1                                                                                                          | 146        | 696        | 2,900      | 8,350      |
| 4330                                               | 110702041          | NO                                   |     |     | Neosho River         | 4,330                                         | 48.6                                                                                                          | 154        | 731        | 3,050      | 8,660      |
| 4366                                               | 1107020432         | NO                                   | WL  |     | Turkey Creek         | 20.8                                          | 0                                                                                                             | 0          | 1.89       | 8.14       | 25.5       |
| 4368                                               | 1107020516         | NO                                   |     |     | Canville Creek       | 55.4                                          | 0                                                                                                             | .71        | 5.54       | 21.6       | 66.0       |
| 4369                                               | 1107020545         | NO                                   |     |     | Pecan Creek          | 13.4                                          | 0                                                                                                             | .06        | 2.07       | 7.24       | 20.0       |
| 4376                                               | 1107020517         | NO                                   |     |     | Neosho River         | 4,330                                         | 48.7                                                                                                          | 154        | 732        | 3,050      | 8,670      |
| 4412                                               | 1107020517         | NO                                   |     |     | Neosho River         | 4,380                                         | 49.3                                                                                                          | 157        | 745        | 3,110      | 8,790      |
| 4418                                               | 1107020519         | NO                                   |     |     | Elk Creek            | 47.8                                          | 0                                                                                                             | .92        | 5.77       | 20.9       | 60.7       |
| 4426                                               | 1107020516         | NO                                   |     |     | Canville Creek       | 73.7                                          | 0                                                                                                             | 1.20       | 7.56       | 29.0       | 88.6       |
| 4427                                               | 1107020517         | NO                                   |     |     | Neosho River         | 4,400                                         | 49.5                                                                                                          | 158        | 750        | 3,130      | 8,840      |
| 4433                                               | 1107020514         | NO                                   |     |     | Flat Rock Creek      | 45.2                                          | 0                                                                                                             | .58        | 4.58       | 17.4       | 52.4       |
| 4435                                               | 1107020513         | NO                                   |     |     | Walnut Creek         | 75.4                                          | 0                                                                                                             | .80        | 6.13       | 25.1       | 80.4       |
| 4466                                               | 1107020549         | NO                                   |     |     | Fourmile Creek       | 31.2                                          | 0                                                                                                             | .03        | 2.62       | 10.7       | 33.2       |
| 4467                                               | 1107020515         | NO                                   |     |     | Neosho River         | 4,490                                         | 50.5                                                                                                          | 164        | 774        | 3,230      | 9,050      |
| 4492                                               | 1107020515         | NO                                   |     |     | Neosho River         | 4,520                                         | 51.0                                                                                                          | 166        | 783        | 3,270      | 9,130      |
| 4501                                               | 1107020548         | NO                                   |     |     | Rock Creek           | 16.7                                          | 0                                                                                                             | .15        | 2.37       | 8.31       | 23.1       |
| 4516                                               | 1107020547         | NO                                   |     |     | Little Elk Creek     | 13.6                                          | 0                                                                                                             | .22        | 2.21       | 7.23       | 19.3       |
| 4517                                               | 11070205731        | NO                                   |     |     | Downey Creek         | 9.78                                          | 0                                                                                                             | 0          | .91        | 3.70       | 11.3       |
| 4519                                               | 1107020512         | NO                                   |     |     | Flat Rock Creek      | 129                                           | 0                                                                                                             | 1.93       | 10.8       | 43.0       | 138        |
| 4523                                               | 1107020512         | NO                                   |     |     | Flat Rock Creek      | 139                                           | 0                                                                                                             | 2.13       | 11.7       | 46.2       | 149        |
| 4525                                               | 1107020515         | NO                                   |     |     | Neosho River         | 4,550                                         | 51.3                                                                                                          | 168        | 790        | 3,300      | 9,200      |
| 4529                                               | 1107020519         | NO                                   |     |     | Elk Creek            | 21.4                                          | 0                                                                                                             | .10        | 2.49       | 9.25       | 26.9       |
| 4534                                               | 1107020515         | NO                                   |     |     | Neosho River         | 4,580                                         | 51.6                                                                                                          | 169        | 798        | 3,330      | 9,270      |
| 4538                                               | 1107020538         | NO                                   |     |     | Ogeese Creek         | 25.7                                          | 0                                                                                                             | .44        | 3.68       | 13.0       | 36.4       |
| 4560                                               | 1107010122         | NO                                   | WL  |     | Chetopa Creek        | 28.8                                          | 0                                                                                                             | 0          | 2.00       | 9.00       | 29.5       |
| 4566                                               | 11070101471        | NO                                   | WL  |     | Little Chetopa Creek | 16.0                                          | 0                                                                                                             | .25        | 2.57       | 8.58       | 23.2       |
| 4580                                               | 1107020511         | NO                                   |     |     | Neosho River         | 4,720                                         | 53.3                                                                                                          | 179        | 837        | 3,500      | 9,620      |
| 4593                                               | 1107020522         | NO                                   |     |     | Labette Creek        | 8.73                                          | 0                                                                                                             | .01        | 1.39       | 4.52       | 12.2       |



**Table 73.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Neosho County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 77) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 4147                                               | 2,540                                    | 24,700                                                                               | 35,200 | 39,800  | 59,700  | 86,000  | 122,000  |
| 4252                                               | 11.6                                     | 1,790                                                                                | 3,500  | 4,910   | 6,990   | 8,680   | 10,600   |
| 4253                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 4259                                               | 90.9                                     | 7,380                                                                                | 13,500 | 18,600  | 26,000  | 32,200  | 38,800   |
| 4267                                               | 41.4                                     | 4,060                                                                                | 8,020  | 11,400  | 16,400  | 20,600  | 25,200   |
| 4288                                               | 9.44                                     | 1,740                                                                                | 3,360  | 4,700   | 6,670   | 8,270   | 10,100   |
| 4297                                               | 2,560                                    | 24,800                                                                               | 35,500 | 40,200  | 59,700  | 86,000  | 122,000  |
| 4298                                               | 28.3                                     | 3,930                                                                                | 7,600  | 10,700  | 15,200  | 19,000  | 23,000   |
| 4318                                               | 2,600                                    | 25,100                                                                               | 35,900 | 40,900  | 59,700  | 86,000  | 122,000  |
| 4319                                               | 102                                      | 7,630                                                                                | 14,000 | 19,300  | 26,900  | 33,200  | 40,100   |
| 4320                                               | 2,600                                    | 25,100                                                                               | 35,900 | 40,900  | 59,700  | 86,000  | 122,000  |
| 4330                                               | 2,720                                    | 26,100                                                                               | 37,300 | 43,000  | 59,800  | 86,000  | 122,000  |
| 4366                                               | 20.3                                     | 2,710                                                                                | 5,340  | 7,530   | 10,800  | 13,400  | 16,500   |
| 4368                                               | 49.1                                     | 5,220                                                                                | 9,790  | 13,600  | 19,100  | 23,700  | 28,600   |
| 4369                                               | 14.7                                     | 2,070                                                                                | 4,050  | 5,690   | 8,130   | 10,100  | 12,300   |
| 4376                                               | 2,720                                    | 26,100                                                                               | 37,300 | 43,100  | 59,800  | 86,000  | 122,000  |
| 4412                                               | 2,760                                    | 26,500                                                                               | 37,900 | 43,900  | 59,800  | 86,000  | 122,000  |
| 4418                                               | 43.9                                     | 4,840                                                                                | 8,970  | 12,400  | 17,300  | 21,300  | 25,600   |
| 4426                                               | 64.3                                     | 5,510                                                                                | 10,400 | 14,500  | 20,500  | 25,500  | 30,800   |
| 4427                                               | 2,780                                    | 26,600                                                                               | 38,000 | 44,200  | 59,800  | 86,000  | 121,000  |
| 4433                                               | 39.9                                     | 5,550                                                                                | 10,000 | 13,600  | 18,700  | 22,900  | 27,400   |
| 4435                                               | 62.0                                     | 4,790                                                                                | 9,340  | 13,200  | 19,000  | 23,800  | 29,100   |
| 4466                                               | 26.9                                     | 4,320                                                                                | 8,040  | 11,100  | 15,500  | 19,100  | 23,000   |
| 4467                                               | 2,860                                    | 27,300                                                                               | 39,000 | 45,600  | 59,900  | 86,000  | 121,000  |
| 4492                                               | 2,890                                    | 27,500                                                                               | 39,400 | 46,200  | 59,900  | 86,000  | 121,000  |
| 4501                                               | 17.2                                     | 2,340                                                                                | 4,610  | 6,500   | 9,310   | 11,600  | 14,200   |
| 4516                                               | 14.3                                     | 2,060                                                                                | 4,050  | 5,700   | 8,150   | 10,100  | 12,400   |
| 4517                                               | 9.61                                     | 1,790                                                                                | 3,450  | 4,820   | 6,830   | 8,470   | 10,300   |
| 4519                                               | 102                                      | 9,530                                                                                | 16,800 | 22,700  | 31,100  | 38,100  | 45,500   |
| 4523                                               | 109                                      | 9,790                                                                                | 17,200 | 23,300  | 32,000  | 39,100  | 46,800   |
| 4525                                               | 2,910                                    | 27,700                                                                               | 39,600 | 46,600  | 59,900  | 86,000  | 121,000  |
| 4529                                               | 20.6                                     | 2,700                                                                                | 5,340  | 7,560   | 10,900  | 13,500  | 16,600   |
| 4534                                               | 2,940                                    | 27,900                                                                               | 39,900 | 47,100  | 59,900  | 86,000  | 121,000  |
| 4538                                               | 26.2                                     | 2,990                                                                                | 5,940  | 8,430   | 12,100  | 15,200  | 18,600   |
| 4560                                               | 24.5                                     | 3,130                                                                                | 6,270  | 8,920   | 12,900  | 16,100  | 19,800   |
| 4566                                               | 16.8                                     | 2,210                                                                                | 4,380  | 6,200   | 8,900   | 11,100  | 13,600   |
| 4580                                               | 3,070                                    | 29,000                                                                               | 41,500 | 49,500  | 60,000  | 86,000  | 121,000  |
| 4593                                               | 9.32                                     | 1,580                                                                                | 3,080  | 4,320   | 6,150   | 7,630   | 9,310    |

**Table 73.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Neosho County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

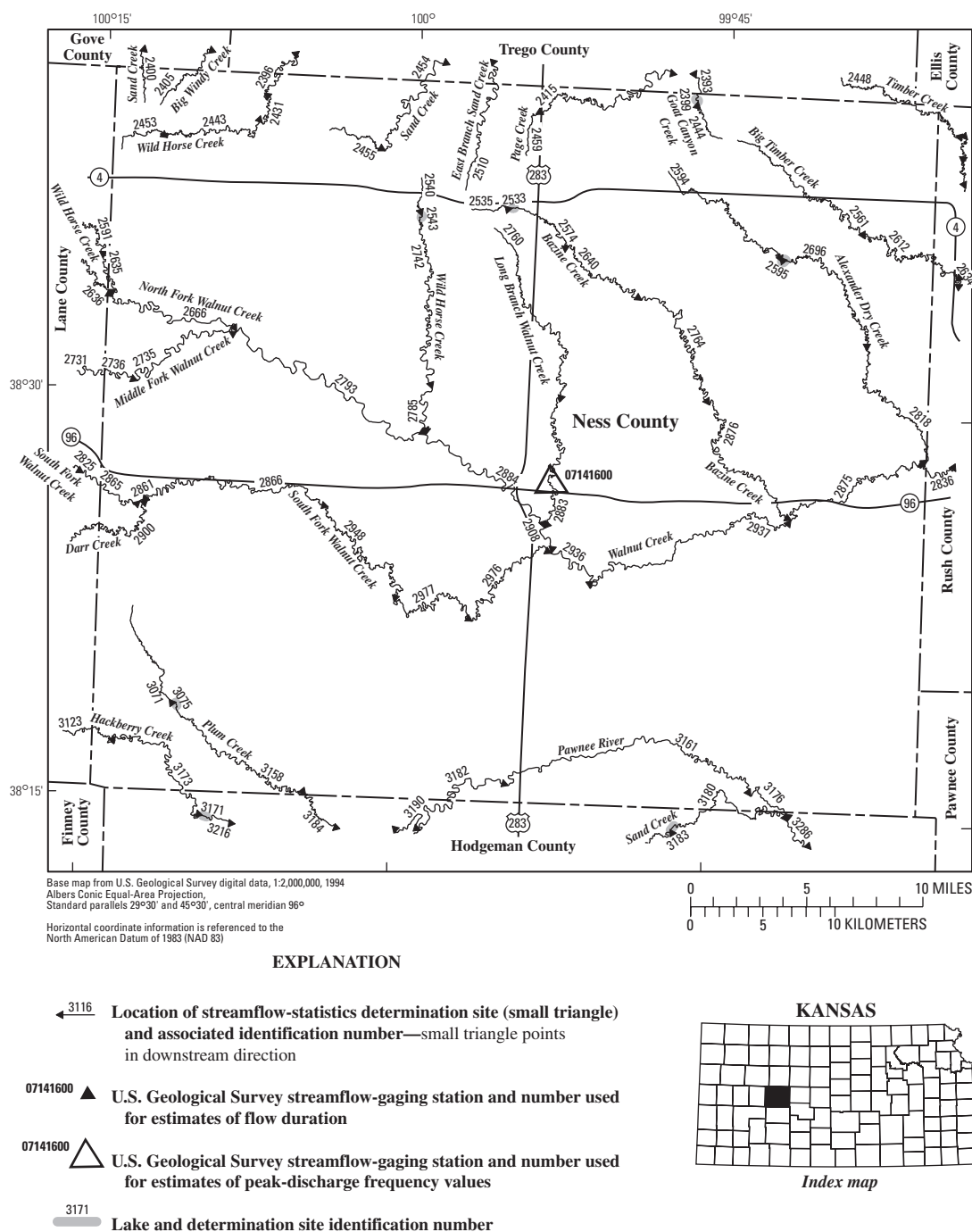
| Determination site identification number (fig. 77) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |     | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-----|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 4601                                               | HYDRO              | NO                                   |     |     |     | 9.53                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 4640                                               | 1107020540         | NO                                   |     |     |     | 21.9                                          | 0                                                                                                             | 0.19       | 2.61       | 9.33       | 26.7       |
| 4645                                               | HYDRO              | NO                                   |     |     |     | 8.11                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 4671                                               | 1107020522         | NO                                   |     |     |     | 26.2                                          | 0                                                                                                             | .48        | 3.58       | 12.4       | 34.6       |
| 4709                                               | HYDRO              | NO                                   |     |     |     | 6.10                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 4713                                               | 1107010337         | NO                                   | WL  |     |     | 24.1                                          | 0                                                                                                             | .76        | 4.01       | 12.8       | 33.7       |
| 4738                                               | HYDRO              | NO                                   |     |     |     | 34.0                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 4760                                               | 1107010334         | NO                                   | WL  |     |     | 12.1                                          | 0                                                                                                             | .33        | 2.35       | 7.23       | 18.6       |
| 5422                                               | 110702041          | NO                                   |     |     |     | 4,330                                         | 48.6                                                                                                          | 154        | 731        | 3,050      | 8,660      |

**Table 73.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Neosho County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 77) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 4601                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 4640                                               | 20.5                                     | 2,710                                                                                | 5,390  | 7,620   | 11,000  | 13,700  | 16,800   |
| 4645                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 4671                                               | 25.3                                     | 2,970                                                                                | 5,900  | 8,370   | 12,000  | 15,000  | 18,500   |
| 4709                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 4713                                               | 23.8                                     | 2,760                                                                                | 5,540  | 7,890   | 11,400  | 14,300  | 17,500   |
| 4738                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 4760                                               | 13.2                                     | 1,880                                                                                | 3,710  | 5,230   | 7,490   | 9,320   | 11,400   |
| 5422                                               | 2,720                                    | 26,100                                                                               | 37,300 | 43,000  | 59,800  | 86,000  | 122,000  |





**Figure 78.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Ness County.

**Table 74.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Ness County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 78) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                          | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|--------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                      |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 2396                                               | 1026000328         | NS                                   | TR  |     | Wild Horse Creek         | 66.1                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2399                                               | HYDRO              | NS                                   | TR  |     | HYDRO                    | 7.00                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2415                                               | 1026000331         | NS                                   | TR  |     | Page Creek               | 41.6                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2431                                               | 1026000328         | NS                                   |     |     | Wild Horse Creek         | 42.5                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2443                                               | 1026000328         | NS                                   |     |     | Wild Horse Creek         | 38.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2444                                               | 1026000341         | NS                                   |     |     | Goat Canyon Creek        | 6.22                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2453                                               | 1026000328         | NS                                   |     |     | Wild Horse Creek         | 13.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2454                                               | 1026000329         | NS                                   | TR  |     | Sand Creek               | 47.1                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2455                                               | 1026000329         | NS                                   |     |     | Sand Creek               | 19.4                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2459                                               | 1026000331         | NS                                   |     |     | Page Creek               | 9.01                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2510                                               | 1026000340         | NS                                   | TR  |     | East Branch Sand Creek   | 19.8                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2533                                               | HYDRO              | NS                                   |     |     | HYDRO                    | 4.41                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2535                                               | 110300089          | NS                                   |     |     | Bazine Creek             | 4.32                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2540                                               | 110300074          | NS                                   |     |     | Wild Horse Creek         | 8.13                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2543                                               | HYDRO              | NS                                   |     |     | HYDRO                    | 8.26                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2561                                               | 1026000627         | NS                                   |     |     | Big Timber Creek         | 28.2                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2574                                               | 110300089          | NS                                   |     |     | Bazine Creek             | 14.3                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2594                                               | 110300087          | NS                                   |     |     | Alexander Dry Creek      | 34.1                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2595                                               | HYDRO              | NS                                   |     |     | HYDRO                    | 34.3                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2612                                               | 1026000627         | NS                                   | RH  |     | Big Timber Creek         | 45.5                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2640                                               | 110300089          | NS                                   |     |     | Bazine Creek             | 31.2                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2666                                               | 110300076          | NS                                   |     |     | North Fork Walnut Creek  | 105                                           | 0                                                                                                             | 0          | 0          | 0          | .59        |
| 2696                                               | 110300087          | NS                                   |     |     | Alexander Dry Creek      | 55.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2735                                               | 110300077          | NS                                   |     |     | Middle Fork Walnut Creek | 241                                           | 0                                                                                                             | 0          | 0          | 0          | 1.21       |
| 2742                                               | 110300074          | NS                                   |     |     | Wild Horse Creek         | 47.3                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2760                                               | 110300072          | NS                                   |     |     | Long Branch Walnut Creek | 34.4                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2764                                               | 110300089          | NS                                   |     |     | Bazine Creek             | 62.4                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2785                                               | 110300074          | NS                                   |     |     | Wild Horse Creek         | 52.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2793                                               | 110300075          | NS                                   |     |     | North Fork Walnut Creek  | 395                                           | 0                                                                                                             | 0          | .15        | 2.13       | 6.89       |
| 2818                                               | 110300087          | NS                                   | RH  |     | Alexander Dry Creek      | 84.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2836                                               | 110300086          | NS                                   | RH  |     | Walnut Creek             | 1,340                                         | 0                                                                                                             | 0          | .73        | 10.9       | 25.6       |
| 2861                                               | 1103000710         | NS                                   |     |     | South Fork Walnut Creek  | 327                                           | 0                                                                                                             | 0          | 0          | 0          | 1.75       |
| 2866                                               | 1103000710         | NS                                   |     |     | South Fork Walnut Creek  | 373                                           | 0                                                                                                             | 0          | 0          | .77        | 3.56       |
| 2875                                               | 110300088          | NS                                   |     |     | Walnut Creek             | 1,210                                         | 0                                                                                                             | 0          | .62        | 9.25       | 22.1       |
| 2876                                               | 110300089          | NS                                   |     |     | Bazine Creek             | 91.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2883                                               | 110300072          | NS                                   |     |     | Long Branch Walnut Creek | 58.6                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 2884                                               | 110300073          | NS                                   |     |     | North Fork Walnut Creek  | 471                                           | 0                                                                                                             | 0          | .35        | 3.02       | 8.98       |
| 2908                                               | 110300071          | NS                                   |     |     | North Fork Walnut Creek  | 531                                           | 0                                                                                                             | 0          | .48        | 3.67       | 10.5       |

**Table 74.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Ness County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 78) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 2396                                               | 1.71                                     | 446                                                                                  | 1,380  | 2,410   | 4,220   | 5,970   | 8,050    |
| 2399                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2415                                               | .26                                      | 302                                                                                  | 983    | 1,750   | 3,120   | 4,460   | 6,060    |
| 2431                                               | .63                                      | 334                                                                                  | 1,060  | 1,880   | 3,330   | 4,730   | 6,410    |
| 2443                                               | .45                                      | 328                                                                                  | 1,040  | 1,840   | 3,250   | 4,620   | 6,250    |
| 2444                                               | 0                                        | 198                                                                                  | 605    | 1,030   | 1,750   | 2,410   | 3,190    |
| 2453                                               | 0                                        | 341                                                                                  | 1,040  | 1,760   | 3,000   | 4,130   | 5,480    |
| 2454                                               | .63                                      | 384                                                                                  | 1,200  | 2,090   | 3,660   | 5,170   | 6,960    |
| 2455                                               | 0                                        | 395                                                                                  | 1,230  | 2,110   | 3,620   | 5,000   | 6,670    |
| 2459                                               | 0                                        | 237                                                                                  | 738    | 1,260   | 2,160   | 2,990   | 3,980    |
| 2510                                               | 0                                        | 378                                                                                  | 1,190  | 2,060   | 3,550   | 4,920   | 6,580    |
| 2533                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2535                                               | 0                                        | 153                                                                                  | 470    | 799     | 1,360   | 1,870   | 2,480    |
| 2540                                               | 0                                        | 228                                                                                  | 705    | 1,200   | 2,050   | 2,830   | 3,760    |
| 2543                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2561                                               | .04                                      | 503                                                                                  | 1,570  | 2,690   | 4,630   | 6,410   | 8,550    |
| 2574                                               | 0                                        | 308                                                                                  | 969    | 1,670   | 2,870   | 3,980   | 5,310    |
| 2594                                               | .11                                      | 251                                                                                  | 836    | 1,510   | 2,720   | 3,910   | 5,350    |
| 2595                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2612                                               | .79                                      | 315                                                                                  | 1,020  | 1,810   | 3,220   | 4,590   | 6,240    |
| 2640                                               | 0                                        | 252                                                                                  | 839    | 1,510   | 2,710   | 3,890   | 5,320    |
| 2666                                               | 3.04                                     | 539                                                                                  | 1,660  | 2,900   | 5,070   | 7,170   | 9,690    |
| 2696                                               | 1.04                                     | 367                                                                                  | 1,180  | 2,080   | 3,700   | 5,280   | 7,170    |
| 2735                                               | 4.41                                     | 603                                                                                  | 1,930  | 3,450   | 6,180   | 8,890   | 12,200   |
| 2742                                               | .46                                      | 297                                                                                  | 977    | 1,750   | 3,140   | 4,500   | 6,140    |
| 2760                                               | 0                                        | 185                                                                                  | 672    | 1,280   | 2,460   | 3,700   | 5,270    |
| 2764                                               | .89                                      | 364                                                                                  | 1,180  | 2,110   | 3,760   | 5,390   | 7,350    |
| 2785                                               | .64                                      | 304                                                                                  | 1,000  | 1,800   | 3,230   | 4,640   | 6,350    |
| 2793                                               | 9.37                                     | 885                                                                                  | 2,680  | 4,660   | 8,160   | 11,600  | 15,700   |
| 2818                                               | 2.22                                     | 462                                                                                  | 1,450  | 2,560   | 4,530   | 6,450   | 8,750    |
| 2836                                               | 22.5                                     | 993                                                                                  | 2,430  | 3,820   | 6,100   | 8,190   | 10,600   |
| 2861                                               | 5.10                                     | 747                                                                                  | 2,300  | 4,030   | 7,100   | 10,100  | 13,800   |
| 2866                                               | 6.65                                     | 820                                                                                  | 2,490  | 4,340   | 7,610   | 10,800  | 14,700   |
| 2875                                               | 20.5                                     | 952                                                                                  | 2,390  | 3,820   | 6,210   | 8,450   | 11,100   |
| 2876                                               | 1.94                                     | 426                                                                                  | 1,370  | 2,450   | 4,370   | 6,270   | 8,560    |
| 2883                                               | .71                                      | 75                                                                                   | 433    | 1,000   | 2,310   | 3,840   | 5,950    |
| 2884                                               | 11.2                                     | 973                                                                                  | 2,900  | 5,010   | 8,730   | 12,300  | 16,700   |
| 2908                                               | 12.4                                     | 679                                                                                  | 1,970  | 3,420   | 6,100   | 8,820   | 12,200   |

**Table 74.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Ness County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 78) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |     | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-----|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 2936                                               | 1103000810         | NS                                   |     |     |     | 1,000                                         | 0                                                                                                             | 0          | 0.50       | 7.00       | 17.3       |
| 2937                                               | 1103000810         | NS                                   |     |     |     | 1,070                                         | 0                                                                                                             | 0          | .57        | 7.80       | 19.1       |
| 2948                                               | 1103000710         | NS                                   |     |     |     | 405                                           | 0                                                                                                             | 0          | 0          | 1.14       | 4.42       |
| 2976                                               | 1103000710         | NS                                   |     |     |     | 461                                           | 0                                                                                                             | 0          | 0          | 1.71       | 5.73       |
| 2977                                               | 1103000710         | NS                                   |     |     |     | 439                                           | 0                                                                                                             | 0          | 0          | 1.50       | 5.25       |
| 3071                                               | 110300057          | NS                                   |     |     |     | 37.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 3075                                               | HYDRO              | NS                                   |     |     |     | 38.8                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 3158                                               | 110300057          | NS                                   |     |     |     | 76.6                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 3161                                               | 110300053          | NS                                   |     |     |     | 1,110                                         | 0                                                                                                             | 0          | 0          | 1.80       | 8.08       |

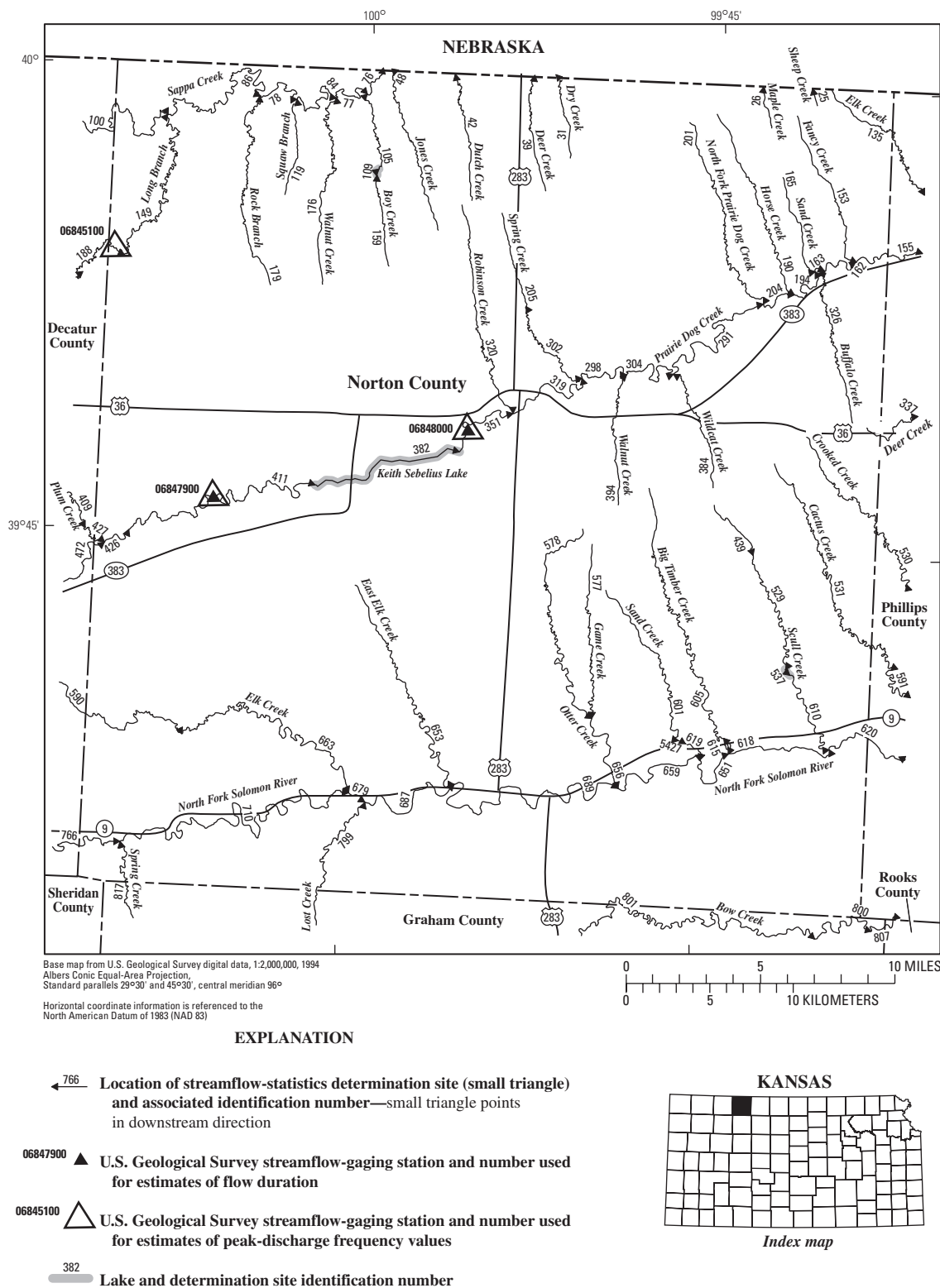


**Table 74.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Ness County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 78) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 2936                                               | 17.6                                     | 929                                                                                  | 2,410  | 3,930   | 6,540   | 9,050   | 12,100   |
| 2937                                               | 18.7                                     | 923                                                                                  | 2,370  | 3,840   | 6,350   | 8,740   | 11,600   |
| 2948                                               | 7.44                                     | 842                                                                                  | 2,550  | 4,450   | 7,790   | 11,000  | 15,000   |
| 2976                                               | 8.65                                     | 859                                                                                  | 2,600  | 4,530   | 7,940   | 11,300  | 15,300   |
| 2977                                               | 8.20                                     | 861                                                                                  | 2,600  | 4,530   | 7,940   | 11,300  | 15,300   |
| 3071                                               | .13                                      | 406                                                                                  | 1,240  | 2,130   | 3,680   | 5,170   | 6,910    |
| 3075                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 3158                                               | 1.31                                     | 457                                                                                  | 1,430  | 2,510   | 4,410   | 6,260   | 8,460    |
| 3161                                               | 10.2                                     | 565                                                                                  | 1,770  | 3,090   | 5,480   | 7,820   | 10,700   |





**Figure 79.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Norton County.

**Table 75.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Norton County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 79) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                              | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                          |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 25                                                 | 1025001119         | NT                                   |     |     | Sheep Creek                  | 1.36                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 26                                                 | 1025001118         | NT                                   |     |     | Maple Creek                  | 3.86                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 31                                                 | 1025001118         | NT                                   |     |     | Dry Creek                    | 14.8                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 39                                                 | 1025001117         | NT                                   |     |     | Deer Creek                   | 15.1                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 42                                                 | 1025001116         | NT                                   |     |     | Dutch Creek                  | 10.8                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 48                                                 | 1025001117         | NT                                   |     |     | Jones Creek                  | 11.8                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 76                                                 | 1025001113         | NT                                   |     |     | Sappa Creek                  | 1,490                                         | 0                                                                                                             | 3.55       | 11.3       | 34.1       | 101        |
| 77                                                 | 1025001113         | NT                                   |     |     | Sappa Creek                  | 1,480                                         | 0                                                                                                             | 3.35       | 10.7       | 32.5       | 96.6       |
| 78                                                 | 1025001113         | NT                                   |     |     | Sappa Creek                  | 1,440                                         | 0                                                                                                             | 2.98       | 9.56       | 29.5       | 88.1       |
| 84                                                 | 1025001113         | NT                                   |     |     | Sappa Creek                  | 1,450                                         | 0                                                                                                             | 3.09       | 9.89       | 30.4       | 90.6       |
| 86                                                 | 1025001113         | NT                                   |     |     | Sappa Creek                  | 1,410                                         | 0                                                                                                             | 2.61       | 8.46       | 26.5       | 79.5       |
| 105                                                | 1025001113         | NT                                   |     |     | Boy Creek                    | 17.6                                          | 0                                                                                                             | 0          | 0          | 0          | .01        |
| 109                                                | HYDRO              | NT                                   |     |     | HYDRO                        | 14.0                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 119                                                | 1025001112         | NT                                   |     |     | Squaw Branch                 | 6.02                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 135                                                | 102500153          | NT                                   | PL  |     | Elk Creek                    | 32.2                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 149                                                | 1025001115         | NT                                   |     |     | Long Branch                  | 77.8                                          | 0                                                                                                             | 0          | .01        | .11        | 1.53       |
| 153                                                | 1025001519         | NT                                   |     |     | Fancy Creek                  | 11.2                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 155                                                | 102500152          | NT                                   | PL  |     | Prairie Dog Creek            | 850                                           | 0                                                                                                             | .01        | 1.45       | 5.47       | 12.3       |
| 159                                                | 1025001113         | NT                                   |     |     | Boy Creek                    | 13.6                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 162                                                | 102500152          | NT                                   |     |     | Prairie Dog Creek            | 824                                           | 0                                                                                                             | .01        | 1.27       | 4.81       | 11.1       |
| 163                                                | 102500152          | NT                                   |     |     | Prairie Dog Creek            | 805                                           | 0                                                                                                             | .01        | 1.14       | 4.33       | 10.2       |
| 165                                                | 1025001520         | NT                                   |     |     | Sand Creek                   | 5.58                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 176                                                | 1025001111         | NT                                   |     |     | Walnut Creek                 | 22.1                                          | 0                                                                                                             | 0          | 0          | 0          | .01        |
| 179                                                | 1025001110         | NT                                   |     |     | Rock Branch                  | 32.9                                          | 0                                                                                                             | 0          | 0          | .01        | .03        |
| 190                                                | 1025001518         | NT                                   |     |     | Horse Creek                  | 12.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 194                                                | 102500154          | NT                                   |     |     | Prairie Dog Creek            | 799                                           | 0                                                                                                             | .01        | 1.10       | 4.18       | 9.90       |
| 201                                                | 1025001517         | NT                                   |     |     | North Fork Prairie Dog Creek | 30.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 204                                                | 102500154          | NT                                   |     |     | Prairie Dog Creek            | 786                                           | 0                                                                                                             | .01        | 1.01       | 3.85       | 9.29       |
| 205                                                | 1025001515         | NT                                   |     |     | Spring Creek                 | 14.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 291                                                | 102500154          | NT                                   |     |     | Prairie Dog Creek            | 753                                           | 0                                                                                                             | .01        | .79        | 3.01       | 7.76       |
| 298                                                | 102500154          | NT                                   |     |     | Prairie Dog Creek            | 708                                           | 0                                                                                                             | .02        | .48        | 1.87       | 5.66       |
| 302                                                | 1025001515         | NT                                   |     |     | Spring Creek                 | 21.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 304                                                | 102500154          | NT                                   |     |     | Prairie Dog Creek            | 726                                           | 0                                                                                                             | .01        | .60        | 2.32       | 6.50       |
| 319                                                | 102500154          | NT                                   |     |     | Prairie Dog Creek            | 681                                           | 0                                                                                                             | .02        | .29        | 1.18       | 4.40       |
| 320                                                | 1025001516         | NT                                   |     |     | Robinson Creek               | 20.2                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 326                                                | 1025001521         | NT                                   |     |     | Buffalo Creek                | 17.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 337                                                | 1026001231         | NT                                   | PL  |     | Deer Creek                   | 6.62                                          | 0                                                                                                             | 0          | .01        | .01        | .02        |
| 351                                                | 102500154          | NT                                   |     |     | Prairie Dog Creek            | 653                                           | 0                                                                                                             | .02        | .10        | .47        | 3.10       |

**Table 75.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Norton County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 79) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 25                                                 | 0                                        | 106                                                                                  | 294    | 479     | 782     | 1,050   | 1,360    |
| 26                                                 | 0                                        | 193                                                                                  | 550    | 906     | 1,500   | 2,020   | 2,640    |
| 31                                                 | .11                                      | 415                                                                                  | 1,220  | 2,040   | 3,430   | 4,680   | 6,160    |
| 39                                                 | .09                                      | 417                                                                                  | 1,230  | 2,060   | 3,460   | 4,720   | 6,220    |
| 42                                                 | 0                                        | 344                                                                                  | 1,010  | 1,680   | 2,810   | 3,830   | 5,040    |
| 48                                                 | 0                                        | 363                                                                                  | 1,060  | 1,780   | 2,970   | 4,060   | 5,340    |
| 76                                                 | 73.8                                     | 1,200                                                                                | 3,510  | 6,090   | 10,800  | 15,600  | 21,500   |
| 77                                                 | 70.7                                     | 1,170                                                                                | 3,450  | 6,000   | 10,700  | 15,400  | 21,200   |
| 78                                                 | 64.9                                     | 1,140                                                                                | 3,370  | 5,860   | 10,400  | 15,100  | 20,800   |
| 84                                                 | 66.6                                     | 1,140                                                                                | 3,380  | 5,890   | 10,500  | 15,100  | 20,900   |
| 86                                                 | 59.0                                     | 1,090                                                                                | 3,250  | 5,680   | 10,100  | 14,700  | 20,300   |
| 105                                                | .32                                      | 454                                                                                  | 1,340  | 2,250   | 3,790   | 5,180   | 6,840    |
| 109                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 119                                                | 0                                        | 239                                                                                  | 696    | 1,160   | 1,930   | 2,620   | 3,440    |
| 135                                                | 1.54                                     | 415                                                                                  | 1,230  | 2,090   | 3,560   | 4,950   | 6,570    |
| 149                                                | 3.44                                     | 331                                                                                  | 808    | 1,270   | 2,050   | 2,760   | 3,600    |
| 153                                                | 0                                        | 357                                                                                  | 1,040  | 1,740   | 2,900   | 3,950   | 5,200    |
| 155                                                | 9.48                                     | 488                                                                                  | 1,190  | 1,710   | 2,350   | 2,780   | 3,170    |
| 159                                                | 0                                        | 391                                                                                  | 1,150  | 1,920   | 3,230   | 4,410   | 5,810    |
| 162                                                | 8.95                                     | 435                                                                                  | 1,050  | 1,510   | 2,060   | 2,440   | 2,780    |
| 163                                                | 8.57                                     | 396                                                                                  | 953    | 1,360   | 1,850   | 2,190   | 2,490    |
| 165                                                | 0                                        | 236                                                                                  | 679    | 1,130   | 1,870   | 2,530   | 3,320    |
| 176                                                | .66                                      | 514                                                                                  | 1,530  | 2,580   | 4,360   | 5,970   | 7,890    |
| 179                                                | 1.15                                     | 431                                                                                  | 1,270  | 2,160   | 3,680   | 5,110   | 6,780    |
| 190                                                | 0                                        | 367                                                                                  | 1,070  | 1,790   | 3,000   | 4,100   | 5,390    |
| 194                                                | 8.45                                     | 383                                                                                  | 922    | 1,310   | 1,790   | 2,110   | 2,400    |
| 201                                                | 1.24                                     | 619                                                                                  | 1,850  | 3,130   | 5,290   | 7,260   | 9,610    |
| 204                                                | 8.18                                     | 357                                                                                  | 854    | 1,210   | 1,650   | 1,940   | 2,210    |
| 205                                                | 0                                        | 398                                                                                  | 1,170  | 1,970   | 3,300   | 4,500   | 5,940    |
| 291                                                | 7.52                                     | 289                                                                                  | 680    | 956     | 1,290   | 1,510   | 1,710    |
| 298                                                | 6.61                                     | 197                                                                                  | 444    | 607     | 795     | 920     | 1,030    |
| 302                                                | .49                                      | 503                                                                                  | 1,490  | 2,510   | 4,240   | 5,800   | 7,660    |
| 304                                                | 6.97                                     | 234                                                                                  | 538    | 747     | 991     | 1,160   | 1,300    |
| 319                                                | 6.07                                     | 141                                                                                  | 302    | 397     | 500     | 566     | 623      |
| 320                                                | .38                                      | 498                                                                                  | 1,470  | 2,480   | 4,170   | 5,700   | 7,520    |
| 326                                                | .25                                      | 439                                                                                  | 1,300  | 2,190   | 3,690   | 5,040   | 6,660    |
| 337                                                | .02                                      | 259                                                                                  | 754    | 1,260   | 2,100   | 2,860   | 3,760    |
| 351                                                | 5.50                                     | 84                                                                                   | 155    | 180     | 194     | 199     | 201      |

**Table 75.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Norton County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 79) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                          | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|--------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                      |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 382                                                | HYDRO              | NT                                   |     |     | HYDRO                    | 640                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 384                                                | 1025001526         | NT                                   |     |     | Wildcat Creek            | 12.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 394                                                | 1025001525         | NT                                   |     |     | Walnut Creek             | 12.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 411                                                | 102500158          | NT                                   |     |     | Prairie Dog Creek        | 610                                           | 0                                                                                                             | .16        | 2.10       | 5.80       | 11.0       |
| 426                                                | 102500158          | NT                                   |     |     | Prairie Dog Creek        | 556                                           | 0                                                                                                             | 0          | 1.56       | 4.56       | 8.83       |
| 439                                                | 1026001121         | NT                                   |     |     | Scull Creek              | 7.34                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 529                                                | 1026001121         | NT                                   |     |     | Scull Creek              | 20.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 530                                                | 102600116          | NT                                   | PL  |     | Crooked Creek            | 23.4                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 531                                                | 1026001128         | NT                                   | PL  |     | Cactus Creek             | 23.5                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 537                                                | HYDRO              | NT                                   |     |     | HYDRO                    | 21.1                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 577                                                | 1026001127         | NT                                   |     |     | Game Creek               | 10.3                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 578                                                | 1026001110         | NT                                   |     |     | Game Creek               | 35.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 601                                                | 1026001126         | NT                                   |     |     | Sand Creek               | 12.1                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 605                                                | 102600118          | NT                                   |     |     | Big Timber Creek         | 25.1                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 610                                                | 1026001121         | NT                                   |     |     | Scull Creek              | 27.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 615                                                | 102600118          | NT                                   |     |     | Big Timber Creek         | 25.6                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 618                                                | 102600117          | NT                                   |     |     | North Fork Solomon River | 711                                           | 0                                                                                                             | 0          | 4.22       | 11.8       | 26.6       |
| 619                                                | 1026001126         | NT                                   |     |     | Sand Creek               | 13.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 620                                                | 102600117          | NT                                   | PL  |     | North Fork Solomon River | 756                                           | 0                                                                                                             | 0          | 4.83       | 13.4       | 29.8       |
| 651                                                | 102600119          | NT                                   |     |     | North Fork Solomon River | 671                                           | 0                                                                                                             | 0          | 3.71       | 10.6       | 24.0       |
| 653                                                | 1026001125         | NT                                   |     |     | East Elk Creek           | 50.0                                          | 0                                                                                                             | 0          | 0          | 0          | .06        |
| 656                                                | 1026001110         | NT                                   |     |     | Otter Creek              | 51.4                                          | 0                                                                                                             | 0          | 0          | 0          | .14        |
| 659                                                | 102600119          | NT                                   |     |     | North Fork Solomon River | 648                                           | 0                                                                                                             | 0          | 3.42       | 9.84       | 22.4       |
| 663                                                | 1026001112         | NT                                   |     |     | Elk Creek                | 77.4                                          | 0                                                                                                             | 0          | 0          | 0          | .38        |
| 679                                                | 1026001111         | NT                                   |     |     | North Fork Solomon River | 473                                           | 0                                                                                                             | 0          | 1.43       | 4.74       | 11.6       |
| 687                                                | 1026001111         | NT                                   |     |     | North Fork Solomon River | 508                                           | 0                                                                                                             | 0          | 1.77       | 5.63       | 13.5       |
| 689                                                | 1026001111         | NT                                   |     |     | North Fork Solomon River | 588                                           | 0                                                                                                             | 0          | 2.70       | 8.01       | 18.5       |
| 710                                                | 1026001113         | NT                                   |     |     | North Fork Solomon River | 395                                           | 0                                                                                                             | 0          | .78        | 3.02       | 7.90       |
| 5427                                               | 1026001126         | NT                                   |     |     | Sand Creek               | 12.3                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |

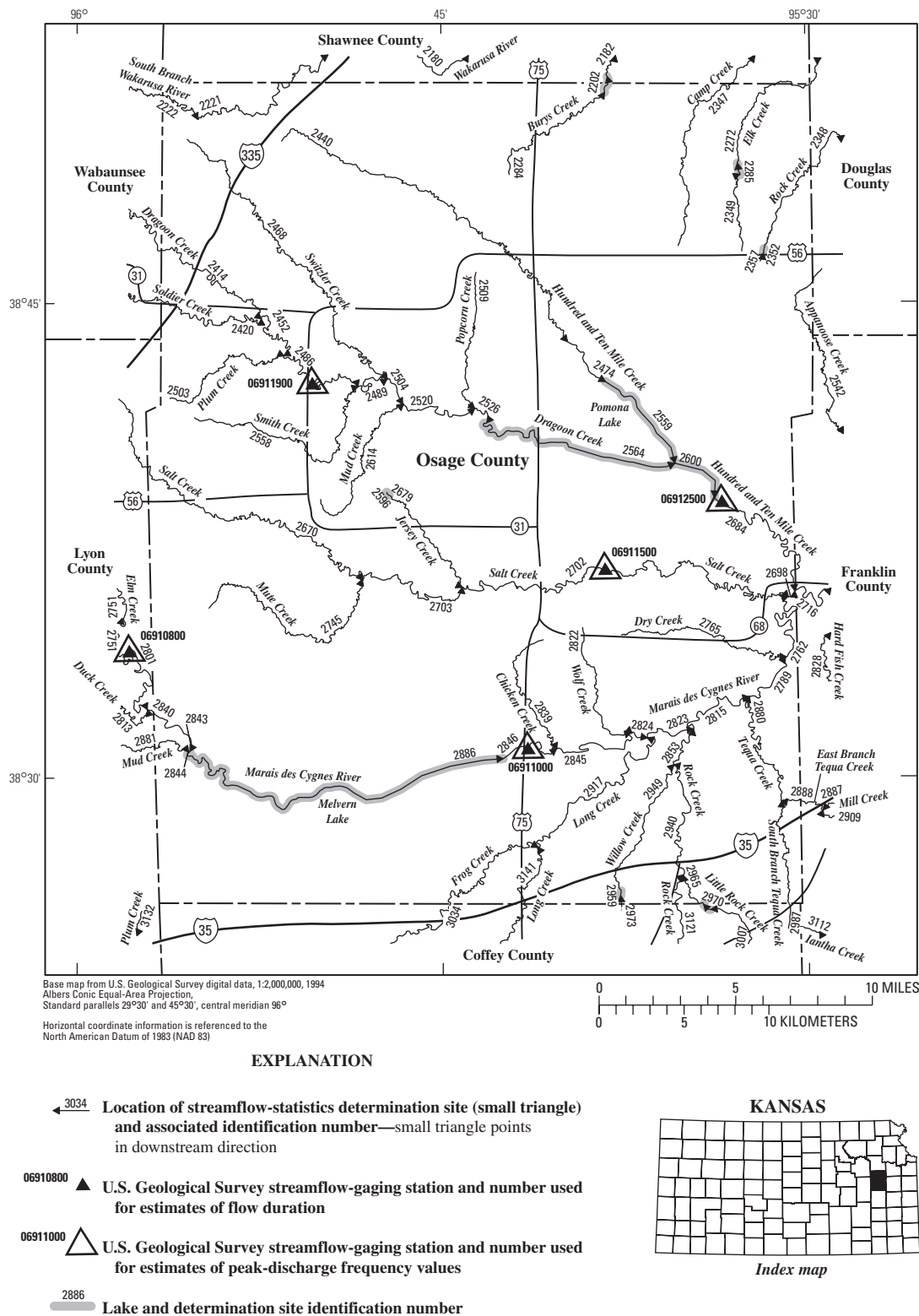
**Table 75.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Norton County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 79) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 382                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 384                                                | 0                                        | 362                                                                                  | 1,080  | 1,810   | 3,050   | 4,170   | 5,500    |
| 394                                                | 0                                        | 364                                                                                  | 1,080  | 1,810   | 3,040   | 4,160   | 5,490    |
| 411                                                | 9.05                                     | 599                                                                                  | 1,680  | 2,820   | 4,820   | 6,760   | 9,100    |
| 426                                                | 8.04                                     | 610                                                                                  | 1,760  | 3,000   | 5,190   | 7,320   | 9,900    |
| 439                                                | 0                                        | 254                                                                                  | 752    | 1,260   | 2,110   | 2,890   | 3,800    |
| 529                                                | .23                                      | 445                                                                                  | 1,350  | 2,290   | 3,900   | 5,360   | 7,110    |
| 530                                                | .53                                      | 505                                                                                  | 1,530  | 2,580   | 4,390   | 6,030   | 7,990    |
| 531                                                | .53                                      | 496                                                                                  | 1,510  | 2,560   | 4,350   | 5,980   | 7,940    |
| 537                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 577                                                | 0                                        | 298                                                                                  | 896    | 1,510   | 2,560   | 3,510   | 4,640    |
| 578                                                | 1.23                                     | 399                                                                                  | 1,200  | 2,070   | 3,560   | 4,980   | 6,650    |
| 601                                                | 0                                        | 320                                                                                  | 970    | 1,640   | 2,790   | 3,840   | 5,080    |
| 605                                                | .48                                      | 500                                                                                  | 1,530  | 2,610   | 4,460   | 6,140   | 8,160    |
| 610                                                | .71                                      | 532                                                                                  | 1,630  | 2,780   | 4,760   | 6,560   | 8,720    |
| 615                                                | .52                                      | 506                                                                                  | 1,550  | 2,640   | 4,520   | 6,220   | 8,270    |
| 618                                                | 18.5                                     | 1,270                                                                                | 3,890  | 6,800   | 12,000  | 17,200  | 23,500   |
| 619                                                | 0                                        | 333                                                                                  | 1,010  | 1,720   | 2,920   | 4,010   | 5,320    |
| 620                                                | 20.0                                     | 1,320                                                                                | 4,050  | 7,070   | 12,500  | 17,800  | 24,400   |
| 651                                                | 17.2                                     | 1,230                                                                                | 3,770  | 6,580   | 11,600  | 16,600  | 22,700   |
| 653                                                | 2.03                                     | 510                                                                                  | 1,500  | 2,560   | 4,360   | 6,060   | 8,060    |
| 656                                                | 2.11                                     | 492                                                                                  | 1,460  | 2,500   | 4,270   | 5,970   | 7,950    |
| 659                                                | 16.5                                     | 1,200                                                                                | 3,690  | 6,450   | 11,400  | 16,300  | 22,300   |
| 663                                                | 2.53                                     | 514                                                                                  | 1,560  | 2,710   | 4,700   | 6,610   | 8,880    |
| 679                                                | 10.6                                     | 945                                                                                  | 2,960  | 5,230   | 9,290   | 13,300  | 18,200   |
| 687                                                | 11.6                                     | 993                                                                                  | 3,100  | 5,460   | 9,700   | 13,900  | 19,000   |
| 689                                                | 14.5                                     | 1,120                                                                                | 3,460  | 6,070   | 10,700  | 15,300  | 21,000   |
| 710                                                | 8.28                                     | 825                                                                                  | 2,620  | 4,640   | 8,270   | 11,900  | 16,300   |
| 5427                                               | 0                                        | 323                                                                                  | 980    | 1,660   | 2,820   | 3,870   | 5,130    |







**Figure 80.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Osage County.

**Table 76.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Osage County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 80) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                             | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-----------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                         |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 2202                                               | HYDRO              | OS                                   | SN  |     | HYDRO                       | 25.7                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2221                                               | 1027010463         | OS                                   | SN  |     | South Branch Wakarusa River | 32.7                                          | 0                                                                                                             | 0.21       | 2.94       | 10.2       | 29.7       |
| 2222                                               | 1027010463         | OS                                   | WB  |     | South Branch Wakarusa River | 17.9                                          | 0                                                                                                             | 0          | 1.06       | 4.35       | 14.0       |
| 2284                                               | 1027010432         | OS                                   |     |     | Burys Creek                 | 24.3                                          | 0                                                                                                             | 0          | 1.48       | 5.77       | 18.2       |
| 2285                                               | HYDRO              | OS                                   |     |     | HYDRO                       | 8.06                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2347                                               | 1027010466         | OS                                   | SN  |     | Camp Creek                  | 34.3                                          | 0                                                                                                             | .25        | 2.93       | 10.2       | 30.0       |
| 2349                                               | 1027010468         | OS                                   |     |     | Elk Creek                   | 7.14                                          | 0                                                                                                             | 0          | .09        | .88        | 4.00       |
| 2352                                               | HYDRO              | OS                                   |     |     | HYDRO                       | 3.46                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2357                                               | 1027010435         | OS                                   |     |     | Rock Creek                  | 3.05                                          | 0                                                                                                             | 0          | 0          | 0          | .41        |
| 2414                                               | 1029010127         | OS                                   | WB  |     | Dragoon Creek               | 53.6                                          | 0                                                                                                             | .51        | 4.73       | 17.7       | 51.1       |
| 2420                                               | 102901011083       | OS                                   | WB  |     | Soldier Creek               | 25.3                                          | 0                                                                                                             | 0          | 1.93       | 7.44       | 22.3       |
| 2440                                               | 1029010125         | OS                                   |     |     | Hundred and Ten Mile Creek  | 53.0                                          | 0                                                                                                             | .33        | 3.63       | 13.5       | 41.7       |
| 2452                                               | 1029010127         | OS                                   |     |     | Dragoon Creek               | 81.8                                          | 0                                                                                                             | .83        | 6.82       | 26.7       | 77.6       |
| 2468                                               | 1029010180         | OS                                   |     |     | Switzler Creek              | 38.4                                          | 0                                                                                                             | .04        | 2.69       | 10.2       | 31.6       |
| 2474                                               | 1029010125         | OS                                   |     |     | Hundred and Ten Mile Creek  | 61.2                                          | 0                                                                                                             | .55        | 4.44       | 16.2       | 49.5       |
| 2486                                               | 1029010127         | OS                                   |     |     | Dragoon Creek               | 97.2                                          | 0                                                                                                             | 1.00       | 8.00       | 32.0       | 93.0       |
| 2489                                               | 1029010127         | OS                                   |     |     | Dragoon Creek               | 115                                           | 0                                                                                                             | 1.24       | 9.11       | 36.3       | 108        |
| 2503                                               | 1029010179         | OS                                   |     |     | Plum Creek                  | 10.4                                          | 0                                                                                                             | 0          | .57        | 2.58       | 8.59       |
| 2504                                               | 1029010127         | OS                                   |     |     | Dragoon Creek               | 156                                           | 0                                                                                                             | 1.87       | 11.8       | 46.2       | 140        |
| 2509                                               | 1029010187         | OS                                   |     |     | Popcorn Creek               | 16.9                                          | 0                                                                                                             | 0          | .82        | 3.69       | 12.4       |
| 2520                                               | 1029010127         | OS                                   |     |     | Dragoon Creek               | 171                                           | 0                                                                                                             | 2.14       | 13.0       | 50.4       | 154        |
| 2526                                               | 1029010127         | OS                                   |     |     | Dragoon Creek               | 190                                           | 0                                                                                                             | 2.42       | 14.1       | 54.7       | 169        |
| 2558                                               | 1029010177         | OS                                   |     |     | Smith Creek                 | 17.2                                          | 0                                                                                                             | 0          | .92        | 4.12       | 13.7       |
| 2559                                               | HYDRO              | OS                                   |     |     | HYDRO                       | 78.3                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2564                                               | HYDRO              | OS                                   |     |     | HYDRO                       | 217                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2596                                               | HYDRO              | OS                                   |     |     | HYDRO                       | 1.39                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2600                                               | HYDRO              | OS                                   |     |     | HYDRO                       | 303                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2614                                               | 1029010178         | OS                                   |     |     | Mud Creek                   | 10.0                                          | 0                                                                                                             | 0          | .26        | 1.81       | 7.06       |
| 2679                                               | 1029010176         | OS                                   |     |     | Jersey Creek                | 14.3                                          | 0                                                                                                             | 0          | .77        | 3.38       | 11.2       |
| 2698                                               | 1029010128         | OS                                   |     |     | Marais des Cygnes River     | 695                                           | 21.3                                                                                                          | 32.0       | 71.6       | 423        | 1,420      |
| 2702                                               | 1029010129         | OS                                   |     |     | Salt Creek                  | 143                                           | 0                                                                                                             | .54        | 5.10       | 24.0       | 82.0       |
| 2703                                               | 1029010129         | OS                                   |     |     | Salt Creek                  | 93.2                                          | 0                                                                                                             | .30        | 4.04       | 17.9       | 59.7       |
| 2745                                               | 1029010192         | OS                                   |     |     | Mute Creek                  | 37.1                                          | 0                                                                                                             | 0          | 2.00       | 8.64       | 28.2       |
| 2765                                               | 1029010195         | OS                                   |     |     | Dry Creek                   | 14.0                                          | 0                                                                                                             | 0          | 1.11       | 3.91       | 11.8       |
| 2789                                               | 1029010130         | OS                                   |     |     | Marais des Cygnes River     | 535                                           | 13.6                                                                                                          | 24.7       | 55.9       | 291        | 999        |
| 2815                                               | 1029010131         | OS                                   |     |     | Marais des Cygnes River     | 499                                           | 11.9                                                                                                          | 23.0       | 52.4       | 262        | 904        |
| 2822                                               | 1029010196         | OS                                   |     |     | Wolf Creek                  | 10.4                                          | 0                                                                                                             | 0          | .86        | 3.04       | 9.17       |
| 2823                                               | 1029010132         | OS                                   |     |     | Marais des Cygnes River     | 435                                           | 8.85                                                                                                          | 20.1       | 46.1       | 209        | 734        |

**Table 76.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Osage County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 80) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 2202                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2221                                               | 22.3                                     | 3,190                                                                                | 6,620  | 9,620   | 14,100  | 17,900  | 22,100   |
| 2222                                               | 11.8                                     | 1,640                                                                                | 3,560  | 5,240   | 7,800   | 9,930   | 12,400   |
| 2284                                               | 15.4                                     | 2,040                                                                                | 4,420  | 6,490   | 9,660   | 12,300  | 15,300   |
| 2285                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2347                                               | 23.1                                     | 4,510                                                                                | 8,660  | 12,100  | 17,100  | 21,300  | 25,800   |
| 2349                                               | 4.44                                     | 1,030                                                                                | 2,160  | 3,120   | 4,570   | 5,760   | 7,120    |
| 2352                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2357                                               | 1.54                                     | 625                                                                                  | 1,290  | 1,850   | 2,680   | 3,370   | 4,140    |
| 2414                                               | 37.8                                     | 3,800                                                                                | 7,560  | 10,800  | 15,500  | 19,500  | 23,900   |
| 2420                                               | 17.7                                     | 2,030                                                                                | 4,350  | 6,360   | 9,420   | 12,000  | 14,900   |
| 2440                                               | 32.6                                     | 3,560                                                                                | 7,510  | 11,000  | 16,300  | 20,900  | 26,000   |
| 2452                                               | 57.3                                     | 4,800                                                                                | 9,020  | 12,500  | 17,500  | 21,700  | 26,300   |
| 2468                                               | 24.9                                     | 2,890                                                                                | 6,250  | 9,280   | 13,900  | 17,900  | 22,300   |
| 2474                                               | 37.8                                     | 3,900                                                                                | 8,140  | 11,900  | 17,600  | 22,500  | 27,800   |
| 2486                                               | 68.4                                     | 4,780                                                                                | 8,780  | 12,000  | 16,600  | 20,500  | 24,700   |
| 2489                                               | 78.6                                     | 5,180                                                                                | 9,590  | 13,200  | 18,400  | 22,800  | 27,600   |
| 2503                                               | 7.55                                     | 1,250                                                                                | 2,640  | 3,830   | 5,640   | 7,130   | 8,830    |
| 2504                                               | 101                                      | 6,170                                                                                | 11,500 | 15,900  | 22,300  | 27,700  | 33,700   |
| 2509                                               | 11.1                                     | 1,670                                                                                | 3,580  | 5,230   | 7,740   | 9,830   | 12,200   |
| 2520                                               | 110                                      | 6,130                                                                                | 11,500 | 16,000  | 22,500  | 28,200  | 34,300   |
| 2526                                               | 119                                      | 6,510                                                                                | 12,200 | 17,000  | 24,000  | 30,100  | 36,700   |
| 2558                                               | 11.8                                     | 1,700                                                                                | 3,640  | 5,320   | 7,870   | 9,990   | 12,400   |
| 2559                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2564                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2596                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2600                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2614                                               | 6.83                                     | 1,260                                                                                | 2,650  | 3,840   | 5,650   | 7,140   | 8,840    |
| 2679                                               | 9.84                                     | 1,540                                                                                | 3,270  | 4,760   | 7,020   | 8,890   | 11,000   |
| 2698                                               | 488                                      | 8,980                                                                                | 17,600 | 25,000  | 36,200  | 45,900  | 57,000   |
| 2702                                               | 66.0                                     | 4,270                                                                                | 9,170  | 13,400  | 19,800  | 25,200  | 31,200   |
| 2703                                               | 48.5                                     | 4,330                                                                                | 9,140  | 13,300  | 19,700  | 25,200  | 31,200   |
| 2745                                               | 23.4                                     | 3,920                                                                                | 8,010  | 11,600  | 16,800  | 21,300  | 26,200   |
| 2765                                               | 9.82                                     | 1,510                                                                                | 3,220  | 4,690   | 6,920   | 8,770   | 10,900   |
| 2789                                               | 374                                      | 8,190                                                                                | 17,500 | 25,900  | 39,300  | 51,300  | 65,100   |
| 2815                                               | 348                                      | 8,020                                                                                | 17,400 | 26,100  | 40,000  | 52,500  | 66,900   |
| 2822                                               | 7.73                                     | 1,290                                                                                | 2,720  | 3,950   | 5,810   | 7,340   | 9,090    |
| 2823                                               | 303                                      | 7,700                                                                                | 17,400 | 26,500  | 41,200  | 54,600  | 70,200   |

**Table 76.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Osage County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

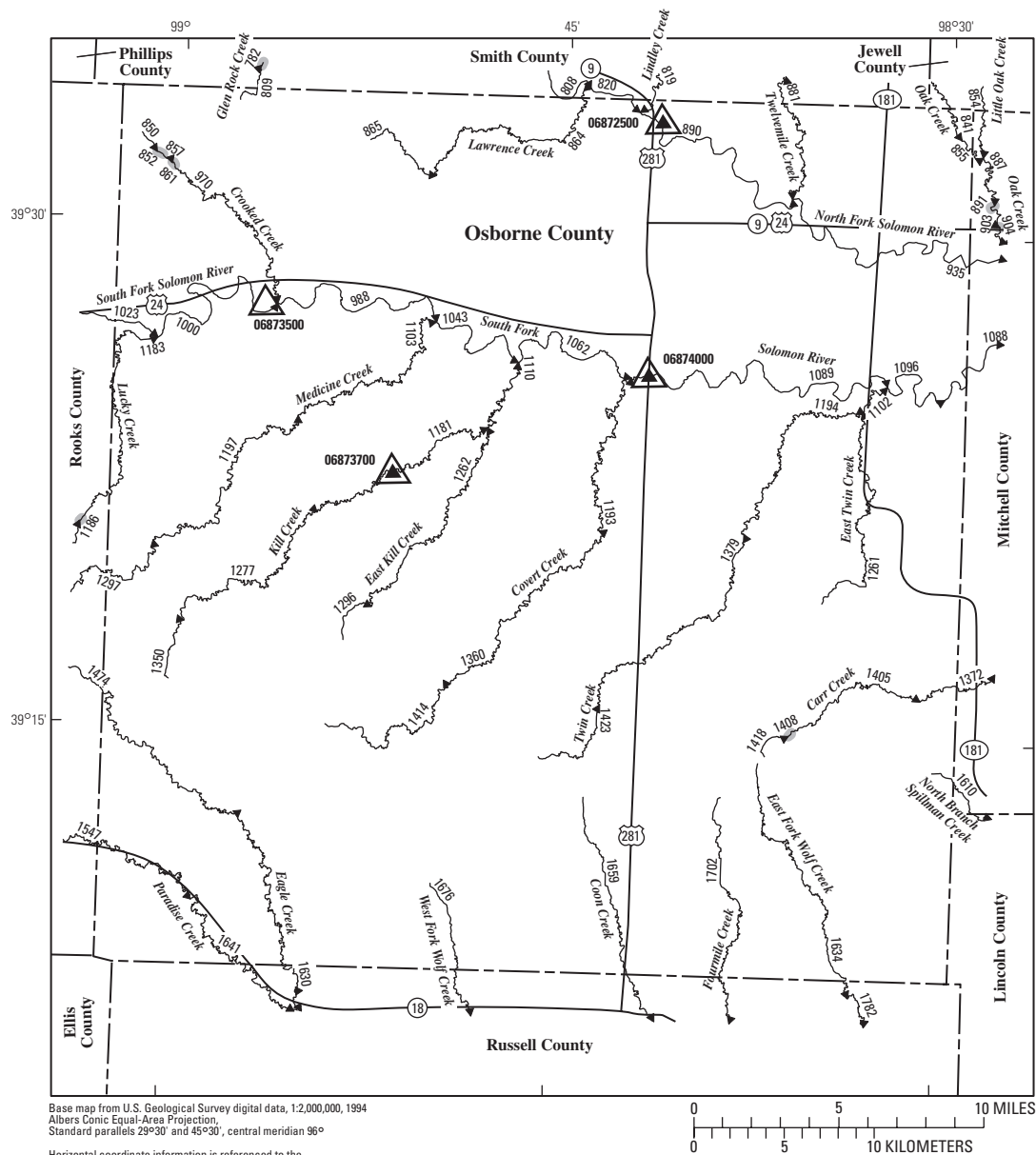
| Determination site identification number (fig. 80) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                         | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                     |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 2824                                               | 1029010133         | OS                                   |     |     | Marais des Cygnes River | 331                                           | 3.89                                                                                                          | 15.3       | 35.9       | 123        | 459        |
| 2839                                               | 1029010193         | OS                                   |     |     | Chicken Creek           | 15.0                                          | 0                                                                                                             | 0          | 1.32       | 4.64       | 13.7       |
| 2843                                               | HYDRO              | OS                                   |     |     | HYDRO                   | 212                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2844                                               | HYDRO              | OS                                   |     |     | HYDRO                   | 20.2                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2845                                               | 1029010133         | OS                                   |     |     | Marais des Cygnes River | 320                                           | 3.36                                                                                                          | 14.8       | 34.8       | 114        | 430        |
| 2846                                               | 1029010133         | OS                                   |     |     | Marais des Cygnes River | 302                                           | 2.50                                                                                                          | 14.0       | 33.0       | 99.0       | 382        |
| 2853                                               | 1029010143         | OS                                   |     |     | Rock Creek              | 58.5                                          | 0                                                                                                             | .51        | 4.04       | 14.8       | 45.5       |
| 2880                                               | 1029010144         | OS                                   |     |     | Tequa Creek             | 31.7                                          | 0                                                                                                             | .20        | 2.84       | 10.0       | 29.5       |
| 2886                                               | HYDRO              | OS                                   |     |     | HYDRO                   | 298                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2917                                               | 102901011531       | OS                                   |     |     | Long Creek              | 101                                           | 0                                                                                                             | 1.26       | 7.12       | 26.2       | 82.2       |
| 2940                                               | 1029010143         | OS                                   |     |     | Rock Creek              | 41.0                                          | 0                                                                                                             | .16        | 2.74       | 10.1       | 31.3       |
| 2949                                               | 1029010194         | OS                                   |     |     | Willow Creek            | 15.4                                          | 0                                                                                                             | 0          | .97        | 3.84       | 12.2       |
| 2959                                               | HYDRO              | OS                                   |     |     | HYDRO                   | 5.67                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 2965                                               | 1029010173         | OS                                   |     |     | Little Rock Creek       | 11.1                                          | 0                                                                                                             | 0          | .37        | 1.92       | 7.08       |
| 2970                                               | HYDRO              | OS                                   |     |     | HYDRO                   | 9.35                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |

**Table 76.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Osage County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 80) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 2824                                               | 228                                      | 7,190                                                                                | 17,300 | 27,100  | 43,200  | 58,000  | 75,400   |
| 2839                                               | 11.1                                     | 1,600                                                                                | 3,400  | 4,940   | 7,290   | 9,240   | 11,500   |
| 2843                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2844                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2845                                               | 220                                      | 7,140                                                                                | 17,300 | 27,200  | 43,500  | 58,400  | 76,000   |
| 2846                                               | 208                                      | 7,050                                                                                | 17,300 | 27,300  | 43,800  | 59,000  | 76,900   |
| 2853                                               | 35.8                                     | 5,270                                                                                | 10,200 | 14,400  | 20,500  | 25,700  | 31,300   |
| 2880                                               | 22.6                                     | 3,520                                                                                | 7,060  | 10,100  | 14,500  | 18,300  | 22,400   |
| 2886                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2917                                               | 62.0                                     | 5,600                                                                                | 11,200 | 16,000  | 23,200  | 29,400  | 36,100   |
| 2940                                               | 25.4                                     | 4,360                                                                                | 8,550  | 12,100  | 17,300  | 21,700  | 26,400   |
| 2949                                               | 10.6                                     | 1,650                                                                                | 3,490  | 5,080   | 7,480   | 9,480   | 11,800   |
| 2959                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 2965                                               | 7.02                                     | 1,360                                                                                | 2,860  | 4,140   | 6,090   | 7,700   | 9,530    |
| 2970                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |





**Figure 81.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Osborne County.

**Table 77.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Osborne County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 81) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                          | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|--------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                      |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 809                                                | 1026001241         | OB                                   | SM  |     | Glen Rock Creek          | 12.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 819                                                | 1026001245         | OB                                   | SM  |     | Lindley Creek            | 20.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 820                                                | 102600127          | OB                                   | SM  |     | North Fork Solomon River | 2,480                                         | 11.8                                                                                                          | 19.6       | 33.3       | 73.5       | 159        |
| 850                                                | 1026001427         | OB                                   |     |     | Crooked Creek            | 13.1                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 852                                                | HYDRO              | OB                                   |     |     | HYDRO                    | 14.8                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 857                                                | 1026001427         | OB                                   |     |     | Crooked Creek            | 15.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 861                                                | HYDRO              | OB                                   |     |     | HYDRO                    | 16.4                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 864                                                | 1026001244         | OB                                   | SM  |     | Lawrence Creek           | 52.4                                          | 0                                                                                                             | 0          | .42        | 1.30       | 3.97       |
| 865                                                | 1026001244         | OB                                   |     |     | Lawrence Creek           | 21.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 881                                                | 102600126          | OB                                   | SM  |     | Twelvemile Creek         | 55.0                                          | 0                                                                                                             | 0          | .66        | 1.84       | 5.19       |
| 890                                                | 102600127          | OB                                   |     |     | North Fork Solomon River | 2,530                                         | 12.0                                                                                                          | 20.0       | 34.0       | 75.0       | 162        |
| 970                                                | 1026001427         | OB                                   |     |     | Crooked Creek            | 38.4                                          | 0                                                                                                             | 0          | 0          | 0          | 1.11       |
| 988                                                | 102600146          | OB                                   |     |     | South Fork Solomon River | 1,680                                         | 1.94                                                                                                          | 3.92       | 10.4       | 36.9       | 119        |
| 1000                                               | 102600146          | OB                                   |     |     | South Fork Solomon River | 1,620                                         | 1.12                                                                                                          | 2.49       | 8.29       | 32.6       | 108        |
| 1023                                               | 102600146          | OB                                   | RO  |     | South Fork Solomon River | 1,570                                         | .43                                                                                                           | 1.30       | 6.50       | 29.0       | 99.0       |
| 1043                                               | 102600145          | OB                                   |     |     | South Fork Solomon River | 1,750                                         | 2.82                                                                                                          | 5.47       | 12.7       | 41.5       | 131        |
| 1062                                               | 102600144          | OB                                   |     |     | South Fork Solomon River | 1,860                                         | 4.35                                                                                                          | 8.12       | 16.7       | 49.4       | 151        |
| 1089                                               | 102600143          | OB                                   |     |     | South Fork Solomon River | 1,990                                         | 6.00                                                                                                          | 11.0       | 21.0       | 58.0       | 174        |
| 1096                                               | 102600142          | OB                                   |     |     | South Fork Solomon River | 2,100                                         | 6.28                                                                                                          | 11.4       | 22.2       | 62.5       | 192        |
| 1102                                               | 1026001420         | OB                                   |     |     | Twin Creek               | 109                                           | 0                                                                                                             | .45        | 2.41       | 6.13       | 14.9       |
| 1103                                               | 1026001417         | OB                                   |     |     | Medicine Creek           | 56.4                                          | 0                                                                                                             | 0          | .39        | 1.27       | 4.04       |
| 1110                                               | 1026001418         | OB                                   |     |     | Kill Creek               | 90.9                                          | 0                                                                                                             | .13        | 1.14       | 2.86       | 8.34       |
| 1181                                               | 1026001418         | OB                                   |     |     | Kill Creek               | 49.4                                          | 0                                                                                                             | 0          | 0          | 0          | 1.80       |
| 1183                                               | 1026001426         | OB                                   | RO  |     | Lucky Creek              | 31.5                                          | 0                                                                                                             | 0          | 0          | .01        | .94        |
| 1193                                               | 1026001419         | OB                                   |     |     | Covert Creek             | 87.0                                          | 0                                                                                                             | .10        | 1.62       | 4.17       | 10.2       |
| 1194                                               | 1026001420         | OB                                   |     |     | Twin Creek               | 74.0                                          | 0                                                                                                             | .01        | 1.35       | 3.46       | 8.65       |
| 1197                                               | 1026001417         | OB                                   |     |     | Medicine Creek           | 39.8                                          | 0                                                                                                             | 0          | 0          | .03        | 1.29       |
| 1261                                               | 1026001429         | OB                                   |     |     | East Twin Creek          | 33.7                                          | 0                                                                                                             | 0          | .39        | 1.07       | 3.24       |
| 1262                                               | 1026001428         | OB                                   |     |     | East Kill Creek          | 34.7                                          | 0                                                                                                             | 0          | .22        | .68        | 2.37       |
| 1277                                               | 1026001418         | OB                                   |     |     | Kill Creek               | 32.5                                          | 0                                                                                                             | 0          | 0          | 0          | .20        |
| 1296                                               | 1026001428         | OB                                   |     |     | East Kill Creek          | 9.89                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 1297                                               | 1026001417         | OB                                   | RO  |     | Medicine Creek           | 15.1                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 1350                                               | 1026001418         | OB                                   |     |     | Kill Creek               | 11.5                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 1360                                               | 1026001419         | OB                                   |     |     | Covert Creek             | 67.0                                          | 0                                                                                                             | 0          | 1.06       | 2.79       | 7.08       |
| 1379                                               | 1026001420         | OB                                   |     |     | Twin Creek               | 54.6                                          | 0                                                                                                             | 0          | .89        | 2.31       | 5.93       |
| 1405                                               | 1026001421         | OB                                   |     |     | Carr Creek               | 27.7                                          | 0                                                                                                             | 0          | .30        | .75        | 2.39       |
| 1408                                               | HYDRO              | OB                                   |     |     | HYDRO                    | 7.75                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1414                                               | 1026001419         | OB                                   |     |     | Covert Creek             | 35.1                                          | 0                                                                                                             | 0          | .06        | .35        | 1.76       |



**Table 77.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Osborne County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 81) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 809                                                | 0.18                                     | 444                                                                                  | 1,260  | 2,070   | 3,410   | 4,620   | 6,040    |
| 819                                                | 1.33                                     | 578                                                                                  | 1,660  | 2,750   | 4,570   | 6,210   | 8,150    |
| 820                                                | 96.3                                     | 2,800                                                                                | 6,250  | 9,420   | 14,500  | 19,100  | 24,400   |
| 850                                                | .05                                      | 431                                                                                  | 1,230  | 2,040   | 3,370   | 4,570   | 5,990    |
| 852                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 857                                                | .35                                      | 485                                                                                  | 1,390  | 2,300   | 3,820   | 5,190   | 6,800    |
| 861                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 864                                                | 4.97                                     | 815                                                                                  | 2,200  | 3,590   | 5,890   | 8,020   | 10,500   |
| 865                                                | 1.44                                     | 621                                                                                  | 1,760  | 2,910   | 4,810   | 6,520   | 8,540    |
| 881                                                | 5.90                                     | 743                                                                                  | 2,040  | 3,360   | 5,570   | 7,610   | 9,980    |
| 890                                                | 98.4                                     | 2,860                                                                                | 6,380  | 9,620   | 14,800  | 19,500  | 24,900   |
| 970                                                | 2.85                                     | 610                                                                                  | 1,700  | 2,810   | 4,670   | 6,400   | 8,390    |
| 988                                                | 62.3                                     | 3,230                                                                                | 11,000 | 21,000  | 41,700  | 64,900  | 96,500   |
| 1000                                               | 56.4                                     | 3,600                                                                                | 12,300 | 23,400  | 46,300  | 72,000  | 107,000  |
| 1023                                               | 51.5                                     | 554                                                                                  | 2,000  | 3,610   | 6,370   | 8,900   | 11,800   |
| 1043                                               | 68.6                                     | 2,830                                                                                | 9,690  | 18,500  | 36,600  | 57,100  | 85,100   |
| 1062                                               | 79.4                                     | 2,150                                                                                | 7,370  | 14,100  | 28,100  | 43,900  | 65,500   |
| 1089                                               | 91.2                                     | 1,400                                                                                | 4,850  | 9,310   | 18,700  | 29,500  | 44,300   |
| 1096                                               | 96.9                                     | 1,410                                                                                | 4,810  | 9,170   | 18,300  | 28,800  | 43,100   |
| 1102                                               | 12.9                                     | 1,060                                                                                | 2,850  | 4,660   | 7,650   | 10,400  | 13,600   |
| 1103                                               | 5.22                                     | 736                                                                                  | 2,030  | 3,360   | 5,580   | 7,660   | 10,000   |
| 1110                                               | 7.02                                     | 458                                                                                  | 1,850  | 4,020   | 9,300   | 16,100  | 26,300   |
| 1181                                               | 2.09                                     | 182                                                                                  | 1,150  | 2,890   | 7,480   | 13,600  | 23,100   |
| 1183                                               | 2.46                                     | 566                                                                                  | 1,580  | 2,610   | 4,340   | 5,940   | 7,770    |
| 1193                                               | 9.53                                     | 890                                                                                  | 2,420  | 4,000   | 6,610   | 9,050   | 11,900   |
| 1194                                               | 8.36                                     | 826                                                                                  | 2,250  | 3,720   | 6,140   | 8,400   | 11,000   |
| 1197                                               | 3.07                                     | 580                                                                                  | 1,640  | 2,740   | 4,590   | 6,320   | 8,330    |
| 1261                                               | 4.10                                     | 832                                                                                  | 2,160  | 3,470   | 5,590   | 7,530   | 9,700    |
| 1262                                               | 3.51                                     | 709                                                                                  | 1,900  | 3,100   | 5,050   | 6,850   | 8,900    |
| 1277                                               | 1.47                                     | 361                                                                                  | 1,300  | 2,600   | 5,520   | 9,080   | 14,300   |
| 1296                                               | 0                                        | 395                                                                                  | 1,100  | 1,800   | 2,960   | 3,980   | 5,190    |
| 1297                                               | .36                                      | 483                                                                                  | 1,370  | 2,270   | 3,750   | 5,080   | 6,650    |
| 1350                                               | 0                                        | 396                                                                                  | 1,150  | 1,950   | 3,360   | 4,750   | 6,520    |
| 1360                                               | 7.14                                     | 856                                                                                  | 2,310  | 3,790   | 6,230   | 8,490   | 11,100   |
| 1379                                               | 6.18                                     | 873                                                                                  | 2,310  | 3,750   | 6,110   | 8,270   | 10,700   |
| 1405                                               | 3.33                                     | 782                                                                                  | 2,180  | 3,580   | 5,890   | 7,950   | 10,400   |
| 1408                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1414                                               | 3.14                                     | 688                                                                                  | 1,860  | 3,050   | 4,990   | 6,790   | 8,840    |

**Table 77.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Osborne County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

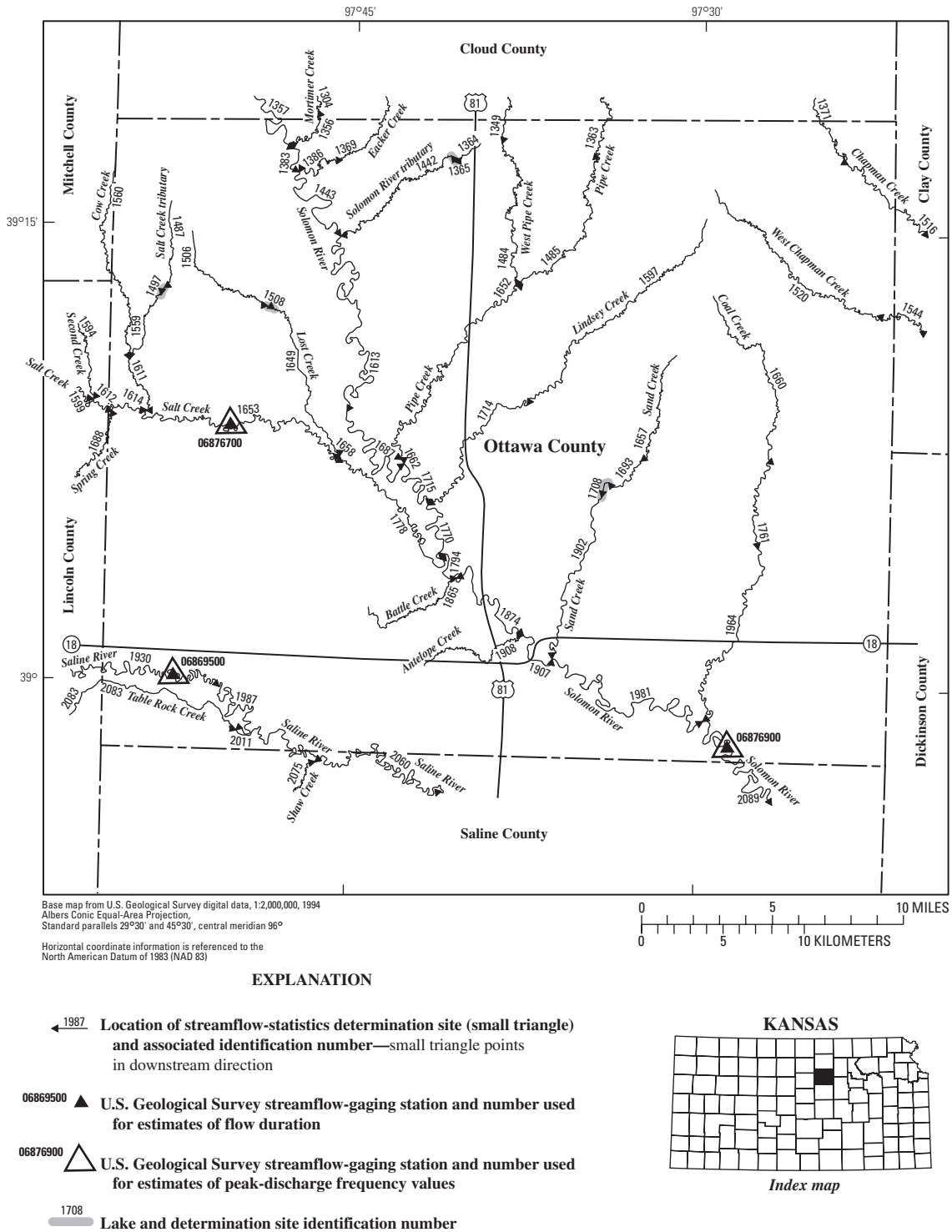
| Determination site identification number (fig. 81) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |     | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-----|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 1418                                               | 1026001421         | OB                                   |     |     |     | 7.64                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 1423                                               | 1026001420         | OB                                   |     |     |     | 18.8                                          | 0                                                                                                             | 0          | 0          | 0          | .14        |
| 1474                                               | 102600096          | OB                                   | RO  |     |     | 36.7                                          | 0                                                                                                             | 0          | 0          | .08        | 1.54       |
| 1547                                               | 102600097          | OB                                   | RO  |     |     | 122                                           | 0                                                                                                             | 0          | .37        | 2.14       | 9.85       |
| 1630                                               | 102600096          | OB                                   | RS  |     |     | 63.1                                          | 0                                                                                                             | 0          | .47        | 1.59       | 5.46       |
| 1634                                               | 1026001011         | OB                                   | RS  |     |     | 37.3                                          | 0                                                                                                             | 0          | .36        | 1.04       | 3.31       |
| 1641                                               | 102600097          | OB                                   | RS  |     |     | 148                                           | 0                                                                                                             | 0          | .49        | 2.84       | 13.3       |
| 1659                                               | 1026001031         | OB                                   | RS  |     |     | 34.7                                          | 0                                                                                                             | 0          | 0          | .19        | 1.49       |
| 1676                                               | 1026001012         | OB                                   | RS  |     |     | 58.3                                          | 0                                                                                                             | 0          | .46        | 1.49       | 4.45       |
| 1702                                               | 1026001030         | OB                                   | RS  |     |     | 33.5                                          | 0                                                                                                             | 0          | .22        | .69        | 2.44       |

**Table 77.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Osborne County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 81) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 1418                                               | 0.20                                     | 366                                                                                  | 997    | 1,610   | 2,620   | 3,510   | 4,560    |
| 1423                                               | 1.62                                     | 582                                                                                  | 1,640  | 2,700   | 4,450   | 6,020   | 7,870    |
| 1474                                               | 2.98                                     | 546                                                                                  | 1,560  | 2,620   | 4,410   | 6,090   | 8,050    |
| 1547                                               | 9.23                                     | 735                                                                                  | 2,240  | 3,920   | 6,920   | 9,850   | 13,400   |
| 1630                                               | 5.89                                     | 732                                                                                  | 2,060  | 3,440   | 5,780   | 7,990   | 10,600   |
| 1634                                               | 4.32                                     | 829                                                                                  | 2,170  | 3,500   | 5,650   | 7,620   | 9,850    |
| 1641                                               | 11.6                                     | 809                                                                                  | 2,500  | 4,390   | 7,810   | 11,200  | 15,400   |
| 1659                                               | 3.06                                     | 690                                                                                  | 1,850  | 3,010   | 4,910   | 6,670   | 8,670    |
| 1676                                               | 5.47                                     | 1,010                                                                                | 2,590  | 4,130   | 6,630   | 8,910   | 11,500   |
| 1702                                               | 3.59                                     | 733                                                                                  | 1,930  | 3,130   | 5,070   | 6,850   | 8,870    |





**Figure 82.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Ottawa County.

**Table 78.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Ottawa County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 82) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                         | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                     |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 1364                                               | 1026001552         | OT                                   |     |     | Solomon River tributary | 4.01                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 1365                                               | HYDRO              | OT                                   |     |     | HYDRO                   | 4.32                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1383                                               | 1026001512         | OT                                   |     |     | Solomon River           | 5,850                                         | 32.5                                                                                                          | 65.1       | 186        | 524        | 1,890      |
| 1386                                               | 1026001550         | OT                                   |     |     | Eacker Creek            | 32.6                                          | 0                                                                                                             | 0          | 1.12       | 3.04       | 8.32       |
| 1442                                               | 1026001552         | OT                                   |     |     | Solomon River tributary | 20.4                                          | 0                                                                                                             | 0          | 0          | .29        | 2.22       |
| 1443                                               | 1026001512         | OT                                   |     |     | Solomon River           | 5,900                                         | 33.5                                                                                                          | 65.9       | 185        | 521        | 1,870      |
| 1484                                               | 1026001511         | OT                                   |     |     | West Pipe Creek         | 49.2                                          | 0                                                                                                             | .28        | 2.05       | 5.60       | 14.8       |
| 1485                                               | 1026001510         | OT                                   |     |     | Pipe Creek              | 60.0                                          | 0                                                                                                             | .91        | 3.56       | 9.30       | 23.4       |
| 1487                                               | 1026001555         | OT                                   |     |     | Salt Creek tributary    | 11.7                                          | 0                                                                                                             | 0          | .51        | .86        | 2.18       |
| 1497                                               | HYDRO              | OT                                   |     |     | HYDRO                   | 12.0                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1506                                               | 1026001556         | OT                                   |     |     | Lost Creek              | 16.6                                          | 0                                                                                                             | 0          | .73        | 1.51       | 3.79       |
| 1508                                               | HYDRO              | OT                                   |     |     | HYDRO                   | 17.8                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1520                                               | 102600085          | OT                                   |     |     | West Chapman Creek      | 40.7                                          | .10                                                                                                           | .81        | 2.90       | 7.06       | 17.3       |
| 1559                                               | 1026001555         | OT                                   |     |     | Salt Creek tributary    | 18.2                                          | 0                                                                                                             | 0          | .71        | 1.52       | 3.95       |
| 1597                                               | 102600157          | OT                                   |     |     | Lindsey Creek           | 34.3                                          | 0                                                                                                             | .21        | 1.58       | 4.00       | 10.3       |
| 1611                                               | 1026001528         | OT                                   |     |     | Cow Creek               | 38.4                                          | 0                                                                                                             | .20        | 1.62       | 3.91       | 9.74       |
| 1613                                               | 1026001512         | OT                                   |     |     | Solomon River           | 5,940                                         | 34.5                                                                                                          | 66.7       | 185        | 519        | 1,850      |
| 1614                                               | 1026001529         | OT                                   |     |     | Salt Creek              | 345                                           | .93                                                                                                           | 3.32       | 9.98       | 25.1       | 82.4       |
| 1649                                               | 1026001556         | OT                                   |     |     | Lost Creek              | 29.2                                          | 0                                                                                                             | 0          | 1.03       | 2.58       | 6.74       |
| 1652                                               | 102600159          | OT                                   |     |     | Pipe Creek              | 134                                           | 0                                                                                                             | 1.88       | 6.37       | 17.2       | 45.0       |
| 1653                                               | 1026001527         | OT                                   |     |     | Salt Creek              | 424                                           | 1.60                                                                                                          | 4.00       | 12.0       | 30.0       | 106        |
| 1657                                               | 102600154          | OT                                   |     |     | Sand Creek              | 20.0                                          | 0                                                                                                             | .47        | 1.50       | 2.97       | 6.74       |
| 1658                                               | 1026001527         | OT                                   |     |     | Salt Creek              | 424                                           | 1.60                                                                                                          | 4.01       | 12.0       | 30.1       | 106        |
| 1660                                               | 102600152          | OT                                   |     |     | Coal Creek              | 31.8                                          | 0                                                                                                             | .77        | 2.64       | 6.04       | 14.0       |
| 1662                                               | 102600159          | OT                                   |     |     | Pipe Creek              | 134                                           | 0                                                                                                             | 1.88       | 6.37       | 17.3       | 45.0       |
| 1687                                               | 1026001512         | OT                                   |     |     | Solomon River           | 5,940                                         | 34.6                                                                                                          | 66.8       | 185        | 518        | 1,850      |
| 1693                                               | 102600154          | OT                                   |     |     | Sand Creek              | 27.2                                          | 0                                                                                                             | .69        | 2.05       | 4.31       | 9.72       |
| 1708                                               | HYDRO              | OT                                   |     |     | HYDRO                   | 31.2                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1714                                               | 102600157          | OT                                   |     |     | Lindsey Creek           | 52.2                                          | 0                                                                                                             | .31        | 1.98       | 5.34       | 14.2       |
| 1715                                               | 102600158          | OT                                   |     |     | Solomon River           | 6,080                                         | 37.8                                                                                                          | 69.4       | 183        | 510        | 1,780      |
| 1761                                               | 102600152          | OT                                   |     |     | Coal Creek              | 51.2                                          | 0                                                                                                             | 1.29       | 4.10       | 9.78       | 22.9       |
| 1770                                               | 102600156          | OT                                   |     |     | Solomon River           | 6,130                                         | 39.1                                                                                                          | 70.5       | 183        | 506        | 1,760      |
| 1778                                               | 1026001527         | OT                                   |     |     | Salt Creek              | 468                                           | 1.92                                                                                                          | 4.82       | 14.3       | 35.8       | 121        |
| 1794                                               | 102600155          | OT                                   |     |     | Solomon River           | 6,600                                         | 50.2                                                                                                          | 79.4       | 177        | 476        | 1,540      |
| 1865                                               | 1026001557         | OT                                   |     |     | Battle Creek            | 25.3                                          | 0                                                                                                             | .11        | 1.12       | 2.53       | 6.38       |
| 1874                                               | 102600155          | OT                                   |     |     | Solomon River           | 6,640                                         | 51.0                                                                                                          | 80.1       | 177        | 473        | 1,520      |
| 1902                                               | 102600154          | OT                                   |     |     | Sand Creek              | 57.8                                          | 0                                                                                                             | 1.47       | 3.80       | 8.42       | 19.3       |
| 1907                                               | 102600155          | OT                                   |     |     | Solomon River           | 6,660                                         | 51.5                                                                                                          | 80.5       | 177        | 472        | 1,510      |

**Table 78.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Ottawa County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 82) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 1364                                               | 0.03                                     | 374                                                                                  | 914    | 1,410   | 2,190   | 2,860   | 3,630    |
| 1365                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1383                                               | 561                                      | 3,300                                                                                | 6,470  | 8,970   | 12,000  | 14,300  | 16,600   |
| 1386                                               | 7.84                                     | 1,100                                                                                | 2,730  | 4,300   | 6,800   | 9,050   | 11,600   |
| 1442                                               | 3.68                                     | 928                                                                                  | 2,360  | 3,720   | 5,910   | 7,810   | 10,000   |
| 1443                                               | 561                                      | 3,370                                                                                | 6,630  | 9,340   | 12,600  | 15,300  | 18,000   |
| 1484                                               | 12.6                                     | 1,410                                                                                | 3,430  | 5,380   | 8,470   | 11,200  | 14,400   |
| 1485                                               | 18.0                                     | 478                                                                                  | 1,270  | 2,090   | 3,530   | 4,910   | 6,600    |
| 1487                                               | 2.59                                     | 621                                                                                  | 1,600  | 2,520   | 4,000   | 5,300   | 6,800    |
| 1497                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1506                                               | 3.86                                     | 775                                                                                  | 1,990  | 3,150   | 5,020   | 6,650   | 8,550    |
| 1508                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1520                                               | 13.7                                     | 1,450                                                                                | 3,390  | 5,220   | 8,070   | 10,600  | 13,400   |
| 1559                                               | 4.05                                     | 801                                                                                  | 2,080  | 3,300   | 5,260   | 6,980   | 8,990    |
| 1597                                               | 9.08                                     | 993                                                                                  | 2,500  | 3,960   | 6,310   | 8,420   | 10,800   |
| 1611                                               | 8.36                                     | 1,090                                                                                | 2,710  | 4,260   | 6,740   | 8,980   | 11,500   |
| 1613                                               | 561                                      | 3,450                                                                                | 6,800  | 9,730   | 13,300  | 16,300  | 19,400   |
| 1614                                               | 56.4                                     | 1,640                                                                                | 4,400  | 7,240   | 12,100  | 16,800  | 22,500   |
| 1649                                               | 6.42                                     | 1,080                                                                                | 2,810  | 4,470   | 7,150   | 9,500   | 12,300   |
| 1652                                               | 33.7                                     | 890                                                                                  | 2,330  | 3,840   | 6,410   | 8,860   | 11,800   |
| 1653                                               | 70.4                                     | 1,430                                                                                | 4,030  | 6,800   | 11,700  | 16,600  | 22,500   |
| 1657                                               | 5.86                                     | 1,010                                                                                | 2,510  | 3,910   | 6,150   | 8,080   | 10,300   |
| 1658                                               | 70.6                                     | 1,430                                                                                | 4,030  | 6,810   | 11,700  | 16,600  | 22,500   |
| 1660                                               | 10.7                                     | 1,470                                                                                | 3,340  | 5,060   | 7,680   | 9,980   | 12,500   |
| 1662                                               | 33.8                                     | 885                                                                                  | 2,320  | 3,820   | 6,390   | 8,840   | 11,800   |
| 1687                                               | 561                                      | 3,460                                                                                | 6,810  | 9,770   | 13,300  | 16,400  | 19,500   |
| 1693                                               | 7.96                                     | 1,190                                                                                | 3,000  | 4,690   | 7,410   | 9,760   | 12,500   |
| 1708                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1714                                               | 12.4                                     | 1,160                                                                                | 2,930  | 4,670   | 7,480   | 10,000  | 12,900   |
| 1715                                               | 561                                      | 3,710                                                                                | 7,340  | 11,000  | 15,400  | 19,600  | 24,000   |
| 1761                                               | 16.7                                     | 1,680                                                                                | 3,850  | 5,860   | 8,960   | 11,700  | 14,700   |
| 1770                                               | 561                                      | 3,810                                                                                | 7,560  | 11,500  | 16,300  | 20,900  | 25,800   |
| 1778                                               | 79.4                                     | 1,390                                                                                | 3,980  | 6,780   | 11,800  | 16,700  | 22,800   |
| 1794                                               | 562                                      | 4,660                                                                                | 9,370  | 15,700  | 23,500  | 31,800  | 41,200   |
| 1865                                               | 6.05                                     | 1,060                                                                                | 2,700  | 4,260   | 6,770   | 8,950   | 11,500   |
| 1874                                               | 562                                      | 4,730                                                                                | 9,510  | 16,000  | 24,100  | 32,700  | 42,400   |
| 1902                                               | 15.0                                     | 1,310                                                                                | 3,110  | 4,810   | 7,460   | 9,810   | 12,400   |
| 1907                                               | 562                                      | 4,760                                                                                | 9,590  | 16,200  | 24,400  | 33,100  | 43,000   |

**Table 78.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Ottawa County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 82) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |     | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-----|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 1908                                               | 1026001558         | OT                                   |     |     |     | 16.4                                          | 0                                                                                                             | 0          | 0.74       | 1.59       | 4.15       |
| 1964                                               | 102600152          | OT                                   |     |     |     | 97.7                                          | .21                                                                                                           | 2.68       | 7.35       | 17.4       | 40.7       |
| 1981                                               | 102600153          | OT                                   |     |     |     | 6,750                                         | 53.6                                                                                                          | 82.2       | 176        | 466        | 1,470      |
| 1987                                               | 102600103          | OT                                   |     |     |     | 2,850                                         | 15.1                                                                                                          | 24.1       | 45.2       | 126        | 491        |
| 2011                                               | 102600102          | OT                                   | SA  |     |     | 2,910                                         | 15.4                                                                                                          | 24.7       | 46.3       | 129        | 500        |
| 2060                                               | 102600102          | OT                                   | SA  |     |     | 2,950                                         | 15.7                                                                                                          | 25.1       | 47.2       | 131        | 506        |
| 2089                                               | 102600151          | OT                                   | SA  |     |     | 6,890                                         | 57.0                                                                                                          | 85.0       | 174        | 457        | 1,400      |

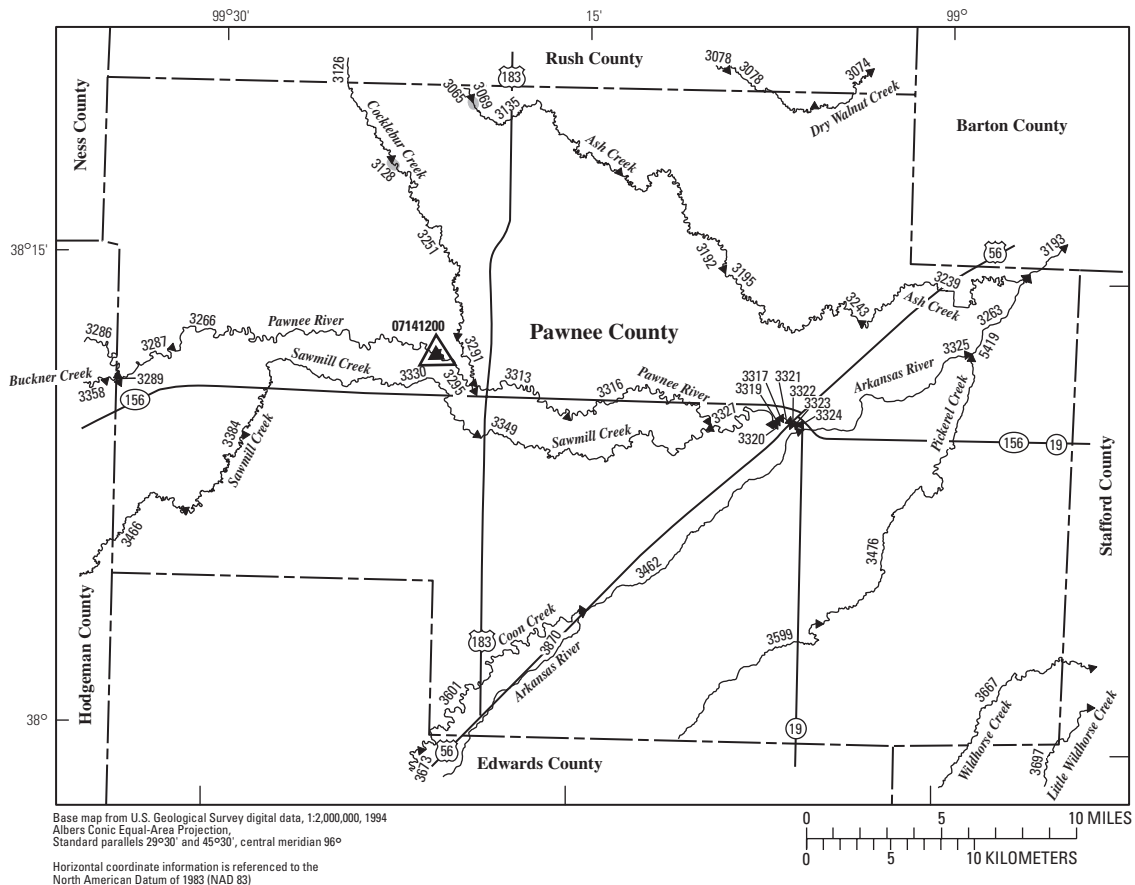


**Table 78.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Ottawa County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

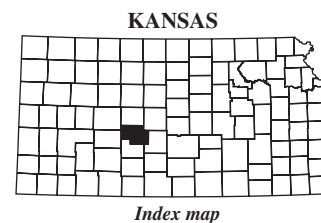
| Determination site identification number (fig. 82) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 1908                                               | 4.23                                     | 840                                                                                  | 2,120  | 3,320   | 5,240   | 6,900   | 8,840    |
| 1964                                               | 28.7                                     | 1,820                                                                                | 4,250  | 6,530   | 10,100  | 13,300  | 16,800   |
| 1981                                               | 562                                      | 4,930                                                                                | 9,940  | 17,000  | 25,800  | 35,200  | 46,000   |
| 1987                                               | 212                                      | 2,530                                                                                | 5,040  | 6,800   | 8,990   | 10,500  | 12,000   |
| 2011                                               | 215                                      | 2,560                                                                                | 5,080  | 6,850   | 9,080   | 10,700  | 12,200   |
| 2060                                               | 218                                      | 2,570                                                                                | 5,110  | 6,900   | 9,150   | 10,800  | 12,400   |
| 2089                                               | 562                                      | 5,190                                                                                | 10,500 | 18,300  | 28,000  | 38,600  | 50,700   |





## EXPLANATION

- ← 3601 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 07141200 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 07141200 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 3069 Lake and determination site identification number



**Figure 83.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Pawnee County.

**Table 79.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pawnee County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

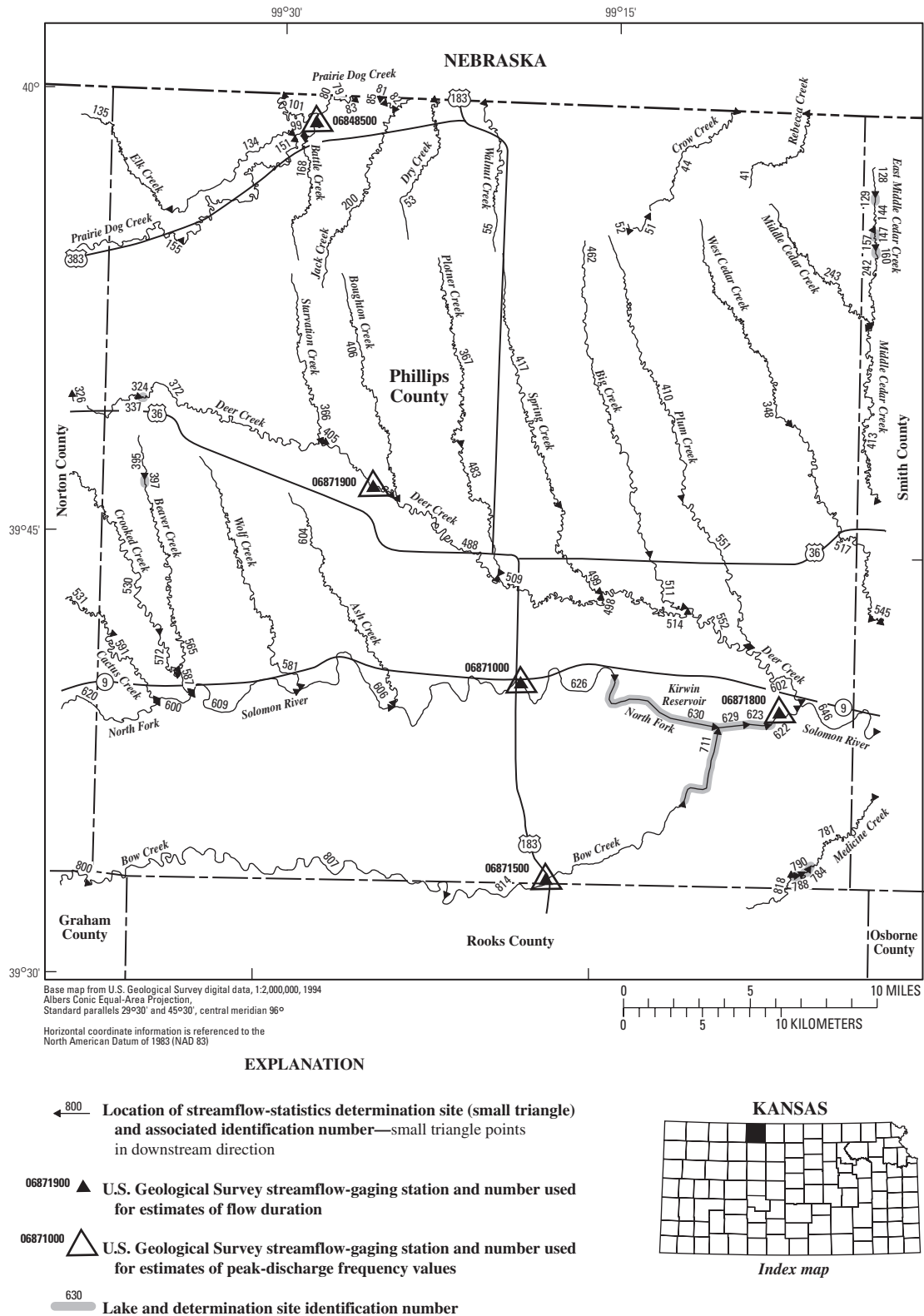
| Determination site identification number (fig. 83) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                         | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                     |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 3065                                               | 110300043          | PN                                   | RH  |     | Ash Creek               | 5.58                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 3069                                               | HYDRO              | PN                                   |     |     | HYDRO                   | 5.74                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 3078                                               | 110300049013       | PN                                   | RH  |     | Dry Walnut Creek        | 49.3                                          | 0                                                                                                             | 0          | 0          | 0          | .69        |
| 3126                                               | 1103000512         | PN                                   | RH  |     | Cocklebur Creek         | 23.4                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 3128                                               | HYDRO              | PN                                   |     |     | HYDRO                   | 23.4                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 3135                                               | 110300043          | PN                                   |     |     | Ash Creek               | 36.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 3192                                               | 110300043          | PN                                   |     |     | Ash Creek               | 75.4                                          | 0                                                                                                             | 0          | 0          | 0          | 1.27       |
| 3195                                               | 110300043          | PN                                   |     |     | Ash Creek               | 77.3                                          | 0                                                                                                             | 0          | 0          | 0          | 1.40       |
| 3243                                               | 110300043          | PN                                   |     |     | Ash Creek               | 104                                           | 0                                                                                                             | 0          | .03        | .60        | 3.10       |
| 3251                                               | 1103000512         | PN                                   |     |     | Cocklebur Creek         | 62.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 3266                                               | 110300052          | PN                                   |     |     | Pawnee River            | 2,100                                         | 0                                                                                                             | 0          | 3.70       | 15.0       | 59.0       |
| 3287                                               | 110300052          | PN                                   |     |     | Pawnee River            | 2,040                                         | 0                                                                                                             | 0          | 3.43       | 14.1       | 55.5       |
| 3291                                               | 1103000512         | PN                                   |     |     | Cocklebur Creek         | 64.4                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 3295                                               | 110300052          | PN                                   |     |     | Pawnee River            | 2,100                                         | 0                                                                                                             | 0          | 3.71       | 15.0       | 59.1       |
| 3313                                               | 110300052          | PN                                   |     |     | Pawnee River            | 2,180                                         | .23                                                                                                           | .41        | 4.53       | 17.1       | 64.4       |
| 3316                                               | 110300052          | PN                                   |     |     | Pawnee River            | 2,200                                         | .30                                                                                                           | .54        | 4.79       | 17.7       | 66.1       |
| 3317                                               | 110300051          | PN                                   |     |     | Pawnee River            | 2,410                                         | .93                                                                                                           | 1.67       | 7.01       | 23.0       | 80.3       |
| 3319                                               | 110300051          | PN                                   |     |     | Pawnee River            | 2,410                                         | .93                                                                                                           | 1.67       | 7.01       | 23.0       | 80.3       |
| 3320                                               | 110300051          | PN                                   |     |     | Pawnee River            | 2,410                                         | .93                                                                                                           | 1.67       | 7.01       | 23.0       | 80.3       |
| 3321                                               | 110300051          | PN                                   |     |     | Pawnee River            | 2,410                                         | .95                                                                                                           | 1.69       | 7.05       | 23.1       | 80.5       |
| 3322                                               | 110300051          | PN                                   |     |     | Pawnee River            | 2,410                                         | .95                                                                                                           | 1.69       | 7.05       | 23.1       | 80.5       |
| 3323                                               | 110300051          | PN                                   |     |     | Pawnee River            | 2,410                                         | .95                                                                                                           | 1.69       | 7.05       | 23.1       | 80.5       |
| 3324                                               | 110300051          | PN                                   |     |     | Pawnee River            | 2,410                                         | .95                                                                                                           | 1.69       | 7.05       | 23.1       | 80.5       |
| 3325                                               | 110300045          | PN                                   |     |     | Arkansas River          | 31,100                                        | 2.28                                                                                                          | 6.16       | 39.5       | 142        | 329        |
| 3327                                               | 110300051          | PN                                   |     |     | Pawnee River            | 2,410                                         | .93                                                                                                           | 1.67       | 7.01       | 23.0       | 80.3       |
| 3330                                               | 110300056          | PN                                   |     |     | Sawmill Creek           | 164                                           | 0                                                                                                             | 0          | .14        | 1.14       | 4.70       |
| 3349                                               | 110300056          | PN                                   |     |     | Sawmill Creek           | 195                                           | 0                                                                                                             | 0          | .41        | 1.82       | 6.43       |
| 3384                                               | 110300056          | PN                                   |     |     | Sawmill Creek           | 115                                           | 0                                                                                                             | 0          | 0          | .49        | 2.87       |
| 3462                                               | 110300046          | PN                                   |     |     | Arkansas River          | 28,600                                        | .97                                                                                                           | 3.19       | 33.2       | 110        | 223        |
| 3476                                               | 1103000413         | PN                                   |     |     | Pickerel Creek          | 167                                           | .15                                                                                                           | .88        | 1.64       | 3.21       | 7.75       |
| 3599                                               | 1103000413         | PN                                   |     |     | Pickerel Creek          | 88.4                                          | 0                                                                                                             | .10        | .47        | .74        | 2.32       |
| 3667                                               | 110300092          | PN                                   | SF  |     | Wildhorse Creek         | 125                                           | .05                                                                                                           | .85        | 1.62       | 2.90       | 6.27       |
| 3697                                               | 110300096          | PN                                   | SF  |     | Little Wild Horse Creek | 35.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 5419                                               | 1103000413         | PN                                   |     |     | Pickerel Creek          | 167                                           | .15                                                                                                           | .88        | 1.64       | 3.21       | 7.75       |

**Table 79.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pawnee County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 83) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 3065                                               | 0                                        | 231                                                                                  | 669    | 1,110   | 1,850   | 2,510   | 3,290    |
| 3069                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 3078                                               | 2.81                                     | 580                                                                                  | 1,680  | 2,830   | 4,790   | 6,650   | 8,810    |
| 3126                                               | .03                                      | 501                                                                                  | 1,510  | 2,570   | 4,360   | 6,000   | 7,950    |
| 3128                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 3135                                               | 1.24                                     | 344                                                                                  | 1,080  | 1,900   | 3,330   | 4,710   | 6,370    |
| 3192                                               | 3.70                                     | 503                                                                                  | 1,540  | 2,690   | 4,680   | 6,610   | 8,920    |
| 3195                                               | 3.82                                     | 514                                                                                  | 1,570  | 2,730   | 4,760   | 6,720   | 9,060    |
| 3243                                               | 5.41                                     | 532                                                                                  | 1,630  | 2,840   | 4,970   | 7,030   | 9,500    |
| 3251                                               | 2.25                                     | 411                                                                                  | 1,300  | 2,290   | 4,030   | 5,730   | 7,770    |
| 3266                                               | 63.2                                     | 2,250                                                                                | 4,530  | 6,530   | 9,620   | 12,300  | 15,400   |
| 3287                                               | 59.5                                     | 2,190                                                                                | 4,480  | 6,500   | 9,640   | 12,400  | 15,500   |
| 3291                                               | 2.38                                     | 413                                                                                  | 1,310  | 2,300   | 4,070   | 5,780   | 7,850    |
| 3295                                               | 63.2                                     | 2,240                                                                                | 4,500  | 6,480   | 9,550   | 12,200  | 15,300   |
| 3313                                               | 66.9                                     | 2,290                                                                                | 4,640  | 6,710   | 9,940   | 12,700  | 16,000   |
| 3316                                               | 68.1                                     | 2,270                                                                                | 4,590  | 6,640   | 9,840   | 12,600  | 15,900   |
| 3317                                               | 77.6                                     | 2,430                                                                                | 5,020  | 7,340   | 11,000  | 14,200  | 18,000   |
| 3319                                               | 77.6                                     | 2,430                                                                                | 5,020  | 7,340   | 11,000  | 14,200  | 18,000   |
| 3320                                               | 77.6                                     | 2,430                                                                                | 5,020  | 7,340   | 11,000  | 14,200  | 18,000   |
| 3321                                               | 77.7                                     | 2,430                                                                                | 5,020  | 7,340   | 11,000  | 14,200  | 17,900   |
| 3322                                               | 77.7                                     | 2,430                                                                                | 5,020  | 7,340   | 11,000  | 14,200  | 17,900   |
| 3323                                               | 77.7                                     | 2,430                                                                                | 5,020  | 7,340   | 11,000  | 14,200  | 17,900   |
| 3324                                               | 77.7                                     | 2,430                                                                                | 5,020  | 7,340   | 11,000  | 14,200  | 17,900   |
| 3325                                               | 160                                      | 2,560                                                                                | 6,800  | 13,900  | 21,400  | 28,800  | 37,300   |
| 3327                                               | 77.6                                     | 2,430                                                                                | 5,020  | 7,340   | 11,000  | 14,200  | 18,000   |
| 3330                                               | 7.10                                     | 666                                                                                  | 2,050  | 3,590   | 6,300   | 8,950   | 12,100   |
| 3349                                               | 8.72                                     | 637                                                                                  | 1,990  | 3,520   | 6,240   | 8,910   | 12,200   |
| 3384                                               | 5.16                                     | 662                                                                                  | 1,990  | 3,430   | 5,930   | 8,350   | 11,200   |
| 3462                                               | 110                                      | 927                                                                                  | 3,700  | 9,390   | 16,900  | 26,000  | 38,700   |
| 3476                                               | 9.22                                     | 660                                                                                  | 1,830  | 3,050   | 5,080   | 6,980   | 9,190    |
| 3599                                               | 4.44                                     | 508                                                                                  | 1,410  | 2,340   | 3,880   | 5,310   | 6,970    |
| 3667                                               | 7.50                                     | 626                                                                                  | 1,700  | 2,790   | 4,600   | 6,260   | 8,200    |
| 3697                                               | 1.37                                     | 330                                                                                  | 953    | 1,610   | 2,710   | 3,730   | 4,920    |
| 5419                                               | 9.22                                     | 661                                                                                  | 1,830  | 3,050   | 5,090   | 6,980   | 9,200    |





**Figure 84.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Phillips County.

**Table 80.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Phillips County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 84) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                    | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|--------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 41                                                 | 1025001639         | PL                                   |     |     | Rebecca Creek      | 14.4                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 44                                                 | 1025001652         | PL                                   |     |     | Crow Creek         | 28.0                                          | 0                                                                                                             | 0          | 0          | 0          | .44        |
| 51                                                 | 1025001652         | PL                                   |     |     | Crow Creek         | 5.49                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 52                                                 | 1025001652         | PL                                   |     |     | Crow Creek         | 3.12                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 53                                                 | 1025001523         | PL                                   |     |     | Dry Creek          | 15.5                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 55                                                 | 1025001513         | PL                                   |     |     | Walnut Creek       | 22.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 79                                                 | 102500152          | PL                                   |     |     | Prairie Dog Creek  | 949                                           | 0                                                                                                             | 2.57       | 7.44       | 19.0       | 42.5       |
| 80                                                 | 102500152          | PL                                   |     |     | Prairie Dog Creek  | 949                                           | 0                                                                                                             | 2.57       | 7.44       | 19.0       | 42.5       |
| 81                                                 | 102500152          | PL                                   |     |     | Prairie Dog Creek  | 957                                           | 0                                                                                                             | 2.63       | 7.57       | 19.3       | 43.3       |
| 82                                                 | 102500152          | PL                                   |     |     | Prairie Dog Creek  | 957                                           | 0                                                                                                             | 2.63       | 7.57       | 19.3       | 43.3       |
| 83                                                 | 102500152          | PL                                   |     |     | Prairie Dog Creek  | 951                                           | 0                                                                                                             | 2.58       | 7.47       | 19.0       | 42.7       |
| 85                                                 | 102500152          | PL                                   |     |     | Prairie Dog Creek  | 15.2                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 99                                                 | 102500152          | PL                                   |     |     | Prairie Dog Creek  | 910                                           | 0                                                                                                             | 0          | 1.86       | 6.99       | 15.1       |
| 101                                                | 102500152          | PL                                   |     |     | Prairie Dog Creek  | 930                                           | 0                                                                                                             | 0          | 2.00       | 7.50       | 16.0       |
| 134                                                | 102500153          | PL                                   |     |     | Elk Creek          | 44.8                                          | 0                                                                                                             | 0          | 0          | 0          | .72        |
| 151                                                | 102500152          | PL                                   |     |     | Prairie Dog Creek  | 865                                           | 0                                                                                                             | 0          | 1.55       | 5.85       | 13.0       |
| 168                                                | 1025001524         | PL                                   |     |     | Battle Creek       | 9.22                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 200                                                | 1025001522         | PL                                   |     |     | Jack Creek         | 14.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 243                                                | 1026001219         | PL                                   | SM  |     | Middle Cedar Creek | 19.5                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 324                                                | HYDRO              | PL                                   |     |     | HYDRO              | 6.67                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 348                                                | 1026001220         | PL                                   |     |     | West Cedar Creek   | 35.8                                          | 0                                                                                                             | 0          | 0          | .04        | 1.03       |
| 366                                                | 1026001238         | PL                                   |     |     | Starvation Creek   | 21.8                                          | 0                                                                                                             | 0          | .06        | .08        | .16        |
| 367                                                | 1026001230         | PL                                   |     |     | Plotner Creek      | 23.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 372                                                | 1026001231         | PL                                   |     |     | Deer Creek         | 34.0                                          | 0                                                                                                             | 0          | .14        | .20        | .40        |
| 395                                                | 1026001123         | PL                                   |     |     | Beaver Creek       | 5.31                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 397                                                | HYDRO              | PL                                   |     |     | HYDRO              | 5.41                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 405                                                | 1026001231         | PL                                   |     |     | Deer Creek         | 62.9                                          | 0                                                                                                             | 0          | .69        | 1.50       | 2.70       |
| 406                                                | 1026001234         | PL                                   |     |     | Boughton Creek     | 23.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 410                                                | 1026001224         | PL                                   |     |     | Plum Creek         | 30.8                                          | 0                                                                                                             | 0          | 0          | 0          | .45        |
| 417                                                | 1026001228         | PL                                   |     |     | Spring Creek       | 29.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 462                                                | 1026001226         | PL                                   |     |     | Big Creek          | 36.1                                          | 0                                                                                                             | 0          | 0          | 0          | .73        |
| 483                                                | 1026001230         | PL                                   |     |     | Plotner Creek      | 35.6                                          | 0                                                                                                             | 0          | 0          | 0          | .28        |
| 488                                                | 1026001231         | PL                                   |     |     | Deer Creek         | 105                                           | 0                                                                                                             | 0          | 1.46       | 3.44       | 7.07       |
| 498                                                | 1026001229         | PL                                   |     |     | Spring Creek       | 152                                           | 0                                                                                                             | .11        | 2.26       | 5.47       | 11.8       |
| 499                                                | 1026001228         | PL                                   |     |     | Spring Creek       | 37.9                                          | 0                                                                                                             | 0          | 0          | 0          | .76        |
| 509                                                | 1026001229         | PL                                   |     |     | Deer Creek         | 152                                           | 0                                                                                                             | .11        | 2.26       | 5.47       | 11.8       |
| 511                                                | 1026001226         | PL                                   |     |     | Big Creek          | 40.4                                          | 0                                                                                                             | 0          | 0          | .09        | 1.18       |
| 514                                                | 1026001227         | PL                                   |     |     | Deer Creek         | 197                                           | 0                                                                                                             | .47        | 3.08       | 7.54       | 16.7       |



**Table 80.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Phillips County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 84) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 41                                                 | 0.59                                     | 460                                                                                  | 1,310  | 2,170   | 3,600   | 4,880   | 6,390    |
| 44                                                 | 1.99                                     | 657                                                                                  | 1,920  | 3,200   | 5,360   | 7,310   | 9,630    |
| 51                                                 | 0                                        | 253                                                                                  | 714    | 1,170   | 1,930   | 2,610   | 3,410    |
| 52                                                 | 0                                        | 181                                                                                  | 506    | 826     | 1,350   | 1,820   | 2,370    |
| 53                                                 | .46                                      | 443                                                                                  | 1,290  | 2,150   | 3,600   | 4,910   | 6,450    |
| 55                                                 | 1.27                                     | 562                                                                                  | 1,650  | 2,760   | 4,630   | 6,310   | 8,320    |
| 79                                                 | 30.7                                     | 1,110                                                                                | 2,980  | 4,920   | 8,260   | 11,400  | 15,300   |
| 80                                                 | 30.7                                     | 1,110                                                                                | 2,980  | 4,920   | 8,260   | 11,400  | 15,300   |
| 81                                                 | 31.2                                     | 1,110                                                                                | 3,000  | 4,950   | 8,310   | 11,500  | 15,400   |
| 82                                                 | 31.2                                     | 1,110                                                                                | 2,990  | 4,950   | 8,300   | 11,500  | 15,300   |
| 83                                                 | 30.8                                     | 1,110                                                                                | 2,980  | 4,920   | 8,260   | 11,400  | 15,300   |
| 85                                                 | .37                                      | 436                                                                                  | 1,270  | 2,120   | 3,550   | 4,840   | 6,370    |
| 99                                                 | 10.7                                     | 611                                                                                  | 1,500  | 2,170   | 3,000   | 3,570   | 4,080    |
| 101                                                | 11.1                                     | 652                                                                                  | 1,610  | 2,330   | 3,220   | 3,830   | 4,380    |
| 134                                                | 2.54                                     | 417                                                                                  | 1,250  | 2,160   | 3,720   | 5,200   | 6,950    |
| 151                                                | 9.78                                     | 519                                                                                  | 1,270  | 1,830   | 2,510   | 2,980   | 3,400    |
| 168                                                | 0                                        | 327                                                                                  | 943    | 1,570   | 2,600   | 3,540   | 4,640    |
| 200                                                | .34                                      | 431                                                                                  | 1,260  | 2,100   | 3,510   | 4,790   | 6,300    |
| 243                                                | 1.08                                     | 543                                                                                  | 1,540  | 2,540   | 4,210   | 5,710   | 7,490    |
| 324                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 348                                                | 2.59                                     | 511                                                                                  | 1,460  | 2,460   | 4,130   | 5,710   | 7,530    |
| 366                                                | .83                                      | 601                                                                                  | 1,760  | 2,960   | 4,990   | 6,830   | 9,060    |
| 367                                                | 1.12                                     | 570                                                                                  | 1,680  | 2,810   | 4,710   | 6,440   | 8,490    |
| 372                                                | 1.65                                     | 606                                                                                  | 1,760  | 2,970   | 5,060   | 7,030   | 9,400    |
| 395                                                | 0                                        | 218                                                                                  | 635    | 1,060   | 1,760   | 2,400   | 3,150    |
| 397                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 405                                                | 4.04                                     | 1,210                                                                                | 3,430  | 5,760   | 9,790   | 13,600  | 18,300   |
| 406                                                | 1.09                                     | 564                                                                                  | 1,660  | 2,790   | 4,690   | 6,400   | 8,450    |
| 410                                                | 2.08                                     | 493                                                                                  | 1,410  | 2,360   | 3,960   | 5,460   | 7,190    |
| 417                                                | 1.71                                     | 650                                                                                  | 1,910  | 3,210   | 5,390   | 7,360   | 9,710    |
| 462                                                | 2.41                                     | 528                                                                                  | 1,500  | 2,520   | 4,230   | 5,840   | 7,690    |
| 483                                                | 2.11                                     | 439                                                                                  | 1,290  | 2,200   | 3,750   | 5,220   | 6,930    |
| 488                                                | 7.48                                     | 1,360                                                                                | 3,830  | 6,440   | 10,900  | 15,200  | 20,400   |
| 498                                                | 11.2                                     | 1,490                                                                                | 4,210  | 7,060   | 12,000  | 16,700  | 22,400   |
| 499                                                | 2.46                                     | 474                                                                                  | 1,380  | 2,340   | 3,970   | 5,500   | 7,290    |
| 509                                                | 11.2                                     | 1,490                                                                                | 4,210  | 7,060   | 12,000  | 16,700  | 22,400   |
| 511                                                | 2.78                                     | 534                                                                                  | 1,530  | 2,570   | 4,330   | 5,980   | 7,890    |
| 514                                                | 14.8                                     | 1,610                                                                                | 4,520  | 7,580   | 12,900  | 17,900  | 24,000   |

**Table 80.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Phillips County.—Continued[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

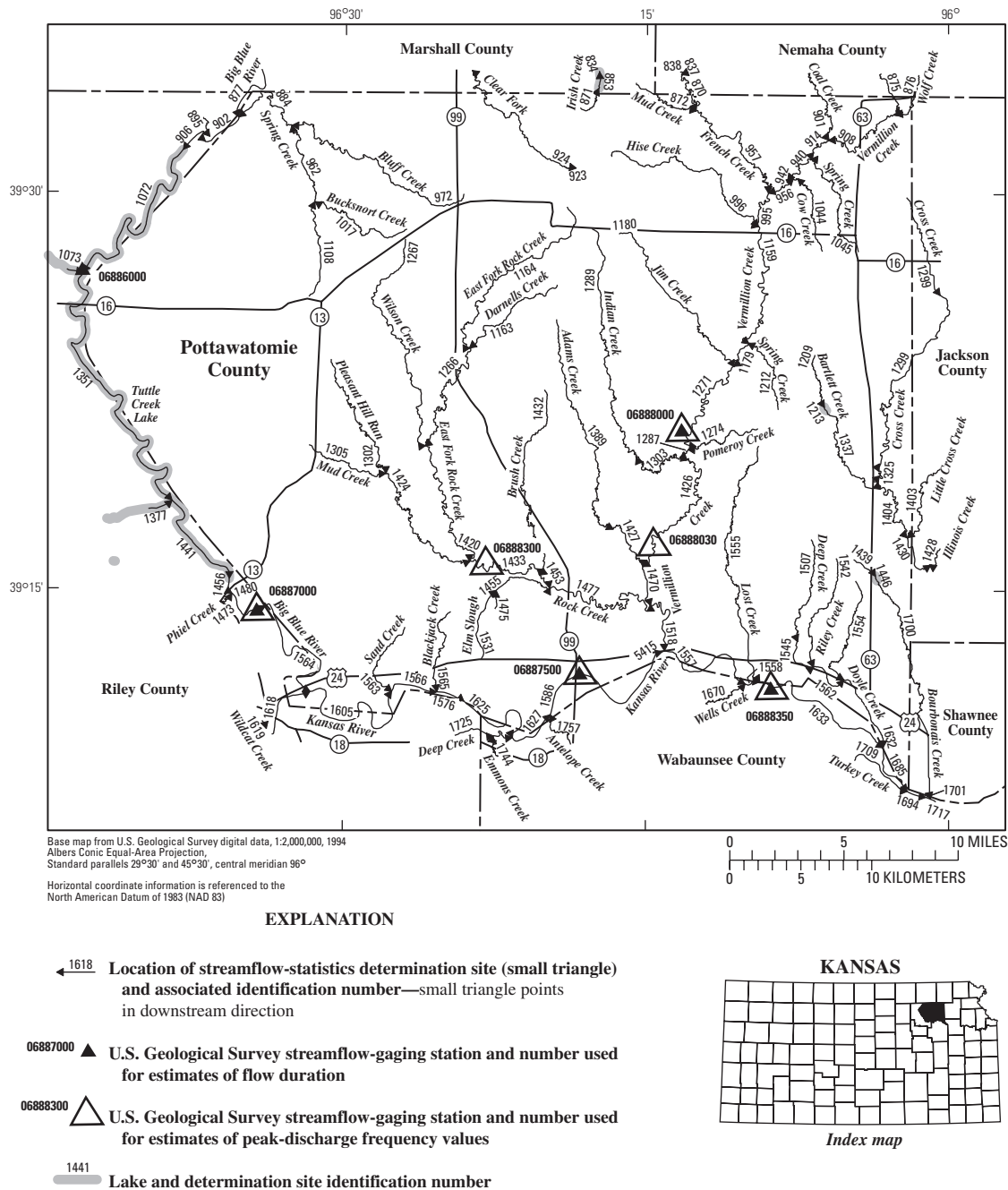
| Determination site identification number (fig. 84) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                          | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|--------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                      |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 517                                                | 1026001220         | PL                                   | SM  |     | West Cedar Creek         | 65.5                                          | 0                                                                                                             | 0          | 0.25       | 0.99       | 3.41       |
| 551                                                | 1026001224         | PL                                   |     |     | Plum Creek               | 51.6                                          | 0                                                                                                             | 0          | .13        | .63        | 2.40       |
| 552                                                | 1026001225         | PL                                   |     |     | Deer Creek               | 244                                           | 0                                                                                                             | .86        | 3.99       | 9.82       | 22.0       |
| 565                                                | 1026001123         | PL                                   |     |     | Beaver Creek             | 21.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 572                                                | 102600116          | PL                                   |     |     | Crooked Creek            | 25.3                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 581                                                | 1026001122         | PL                                   |     |     | Wolf Creek               | 28.0                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 587                                                | 102600116          | PL                                   |     |     | Crooked Creek            | 46.8                                          | 0                                                                                                             | 0          | 0          | 0          | .23        |
| 591                                                | 1026001128         | PL                                   |     |     | Cactus Creek             | 29.4                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 600                                                | 102600117          | PL                                   |     |     | North Fork Solomon River | 788                                           | 0                                                                                                             | 0          | 5.27       | 14.5       | 32.1       |
| 602                                                | 1026001223         | PL                                   |     |     | Deer Creek               | 305                                           | 0                                                                                                             | 1.35       | 5.16       | 12.7       | 29.0       |
| 604                                                | 1026001124         | PL                                   |     |     | Ash Creek                | 29.6                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 606                                                | 102600115          | PL                                   |     |     | North Fork Solomon River | 898                                           | 0                                                                                                             | 0          | 6.91       | 18.4       | 40.5       |
| 609                                                | 102600115          | PL                                   |     |     | North Fork Solomon River | 856                                           | 0                                                                                                             | 0          | 6.25       | 16.8       | 37.1       |
| 622                                                | 1026001222         | PL                                   |     |     | North Fork Solomon River | 1,470                                         | 0                                                                                                             | 0          | .03        | .12        | .50        |
| 623                                                | HYDRO              | PL                                   |     |     | HYDRO                    | 1,470                                         | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 626                                                | 102600115          | PL                                   |     |     | North Fork Solomon River | 979                                           | 0                                                                                                             | .20        | 8.40       | 22.0       | 48.0       |
| 629                                                | HYDRO              | PL                                   |     |     | HYDRO                    | 1,470                                         | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 630                                                | HYDRO              | PL                                   |     |     | HYDRO                    | 996                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 646                                                | 1026001222         | PL                                   | SM  |     | North Fork Solomon River | 1,790                                         | 8.48                                                                                                          | 14.1       | 24.0       | 53.0       | 115        |
| 711                                                | HYDRO              | PL                                   |     |     | HYDRO                    | 468                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 781                                                | 1026001233         | PL                                   | SM  |     | Medicine Creek           | 56.3                                          | 0                                                                                                             | 0          | .07        | .49        | 2.26       |
| 784                                                | HYDRO              | PL                                   |     |     | HYDRO                    | 30.0                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 788                                                | HYDRO              | PL                                   |     |     | HYDRO                    | 28.1                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 790                                                | 1026001233         | PL                                   |     |     | Medicine Creek           | 29.9                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 814                                                | 1026001115         | PL                                   | RO  |     | Bow Creek                | 457                                           | .44                                                                                                           | 2.60       | 5.60       | 10.0       | 18.0       |
| 818                                                | 1026001233         | PL                                   | RO  |     | Medicine Creek           | 27.7                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |

**Table 80.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Phillips County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 84) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 517                                                | 4.81                                     | 634                                                                                  | 1,820  | 3,070   | 5,190   | 7,200   | 9,550    |
| 551                                                | 3.79                                     | 603                                                                                  | 1,720  | 2,880   | 4,850   | 6,700   | 8,850    |
| 552                                                | 18.7                                     | 1,740                                                                                | 4,850  | 8,120   | 13,800  | 19,100  | 25,600   |
| 565                                                | .35                                      | 475                                                                                  | 1,430  | 2,420   | 4,100   | 5,630   | 7,460    |
| 572                                                | .65                                      | 527                                                                                  | 1,600  | 2,710   | 4,600   | 6,330   | 8,390    |
| 581                                                | .98                                      | 571                                                                                  | 1,720  | 2,920   | 4,960   | 6,810   | 9,030    |
| 587                                                | 2.14                                     | 478                                                                                  | 1,420  | 2,420   | 4,130   | 5,760   | 7,670    |
| 591                                                | .88                                      | 562                                                                                  | 1,720  | 2,920   | 4,980   | 6,870   | 9,130    |
| 600                                                | 21.0                                     | 1,360                                                                                | 4,160  | 7,250   | 12,800  | 18,300  | 25,100   |
| 602                                                | 23.6                                     | 1,890                                                                                | 5,250  | 8,770   | 14,800  | 20,500  | 27,500   |
| 604                                                | 1.40                                     | 625                                                                                  | 1,860  | 3,140   | 5,300   | 7,260   | 9,610    |
| 606                                                | 24.6                                     | 1,490                                                                                | 4,520  | 7,870   | 13,900  | 19,900  | 27,200   |
| 609                                                | 23.2                                     | 1,440                                                                                | 4,390  | 7,640   | 13,500  | 19,300  | 26,400   |
| 622                                                | 8.76                                     | 18                                                                                   | 188    | 606     | 2,010   | 4,240   | 8,180    |
| 623                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 626                                                | 27.9                                     | 1,580                                                                                | 4,790  | 8,320   | 14,700  | 21,000  | 28,800   |
| 629                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 630                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 646                                                | 69.5                                     | 2,020                                                                                | 4,510  | 6,800   | 10,500  | 13,800  | 17,600   |
| 711                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 781                                                | 3.88                                     | 666                                                                                  | 1,870  | 3,110   | 5,200   | 7,150   | 9,410    |
| 784                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 788                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 790                                                | 1.36                                     | 677                                                                                  | 1,980  | 3,310   | 5,560   | 7,580   | 10,000   |
| 814                                                | 13.7                                     | 926                                                                                  | 2,960  | 5,320   | 9,790   | 14,400  | 20,200   |
| 818                                                | 1.18                                     | 648                                                                                  | 1,890  | 3,160   | 5,300   | 7,230   | 9,530    |





**Figure 85.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Pottawatomie County.

**Table 81.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pottawatomie County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 85) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                      | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|----------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                  |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 908                                                | 1027010218         | PT                                   |     |     | Vermillion Creek     | 48.1                                          | 0.01                                                                                                          | 0.22       | 3.50       | 12.5       | 36.9       |
| 914                                                | 1027010218         | PT                                   |     |     | Vermillion Creek     | 78.7                                          | .02                                                                                                           | .68        | 5.56       | 19.4       | 56.8       |
| 923                                                | 102702059          | PT                                   |     |     | Clear Fork           | 2.32                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 940                                                | 1027010218         | PT                                   |     |     | Vermillion Creek     | 95.1                                          | .03                                                                                                           | .90        | 6.71       | 23.3       | 67.9       |
| 942                                                | 1027010245         | PT                                   |     |     | Cow Creek            | 8.86                                          | 0                                                                                                             | 0          | .77        | 2.68       | 7.97       |
| 956                                                | 1027010218         | PT                                   |     |     | Vermillion Creek     | 105                                           | .03                                                                                                           | 1.07       | 7.49       | 25.8       | 74.8       |
| 957                                                | 1027010219         | PT                                   |     |     | French Creek         | 60.2                                          | .01                                                                                                           | .41        | 4.24       | 14.9       | 43.4       |
| 962                                                | 1027020565         | PT                                   |     |     | Spring Creek         | 49.3                                          | 0                                                                                                             | .24        | 3.40       | 12.1       | 35.7       |
| 972                                                | 10270205573        | PT                                   |     |     | Bluff Creek          | 34.0                                          | 0                                                                                                             | 0          | 2.44       | 8.76       | 26.0       |
| 995                                                | 1027010217         | PT                                   |     |     | Vermillion Creek     | 167                                           | .08                                                                                                           | 1.67       | 11.1       | 36.8       | 105        |
| 996                                                | 1027010243         | PT                                   |     |     | Hise Creek           | 23.9                                          | 0                                                                                                             | .01        | 2.18       | 7.37       | 20.8       |
| 1017                                               | 10270205566        | PT                                   |     |     | Bucksnot Creek       | 9.37                                          | 0                                                                                                             | 0          | .46        | 1.91       | 6.36       |
| 1044                                               | 1027010245         | PT                                   |     |     | Cow Creek            | 8.72                                          | 0                                                                                                             | 0          | .75        | 2.63       | 7.83       |
| 1045                                               | 1027010248         | PT                                   |     |     | Spring Creek         | 14.4                                          | 0                                                                                                             | 0          | 1.14       | 4.27       | 12.8       |
| 1072                                               | HYDRO              | PT                                   | RL  |     | HYDRO                | 9,220                                         | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1108                                               | 1027020565         | PT                                   |     |     | Spring Creek         | 31.7                                          | 0                                                                                                             | 0          | 1.90       | 6.98       | 21.2       |
| 1159                                               | 1027010217         | PT                                   |     |     | Vermillion Creek     | 207                                           | .12                                                                                                           | 2.12       | 13.9       | 44.8       | 124        |
| 1163                                               | 1027010251         | PT                                   |     |     | Darnells Creek       | 10.0                                          | 0                                                                                                             | 0          | .73        | 2.70       | 8.25       |
| 1164                                               | 1027010222         | PT                                   |     |     | East Fork Rock Creek | 24.6                                          | 0                                                                                                             | 0          | 1.86       | 6.69       | 19.8       |
| 1179                                               | 1027010217         | PT                                   |     |     | Vermillion Creek     | 216                                           | .13                                                                                                           | 2.18       | 14.5       | 46.3       | 128        |
| 1180                                               | 1027010252         | PT                                   |     |     | Jim Creek            | 26.2                                          | 0                                                                                                             | .14        | 2.66       | 8.84       | 24.5       |
| 1209                                               | 1027010255         | PT                                   |     |     | Bartlett Creek       | 11.8                                          | 0                                                                                                             | 0          | .95        | 3.51       | 10.6       |
| 1212                                               | 1027010254         | PT                                   |     |     | Spring Creek         | 7.58                                          | 0                                                                                                             | 0          | .50        | 1.91       | 6.13       |
| 1213                                               | HYDRO              | PT                                   |     |     | HYDRO                | 12.4                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1266                                               | 1027010222         | PT                                   |     |     | East Fork Rock Creek | 46.6                                          | 0                                                                                                             | .32        | 3.67       | 12.9       | 38.0       |
| 1267                                               | 1027010250         | PT                                   |     |     | Wilson Creek         | 27.1                                          | 0                                                                                                             | 0          | 1.91       | 6.83       | 20.3       |
| 1271                                               | 1027010217         | PT                                   |     |     | Vermillion Creek     | 253                                           | .40                                                                                                           | 2.50       | 17.0       | 53.0       | 143        |
| 1274                                               | 1027010259         | PT                                   |     |     | Pomeroy Creek        | 5.54                                          | 0                                                                                                             | 0          | .55        | 1.75       | 5.22       |
| 1287                                               | 1027010217         | PT                                   |     |     | Vermillion Creek     | 258                                           | .43                                                                                                           | 2.63       | 17.6       | 54.9       | 149        |
| 1289                                               | 1027010220         | PT                                   |     |     | Indian Creek         | 26.7                                          | 0                                                                                                             | 0          | 2.30       | 7.99       | 23.1       |
| 1302                                               | 1027010223         | PT                                   |     |     | Pleasant Hill Run    | 23.6                                          | 0                                                                                                             | 0          | 1.46       | 5.34       | 16.1       |
| 1303                                               | 1027010220         | PT                                   |     |     | Indian Creek         | 31.7                                          | 0                                                                                                             | .15        | 2.77       | 9.49       | 27.3       |
| 1305                                               | 1027010256         | PT                                   |     |     | Mud Creek            | 27.9                                          | 0                                                                                                             | 0          | 2.18       | 7.41       | 21.2       |
| 1325                                               | 1027010212         | PT                                   |     |     | Cross Creek          | 46.7                                          | 0                                                                                                             | .21        | 3.44       | 12.8       | 38.8       |
| 1337                                               | 1027010255         | PT                                   |     |     | Bartlett Creek       | 25.1                                          | 0                                                                                                             | 0          | 2.09       | 7.49       | 22.1       |
| 1351                                               | HYDRO              | PT                                   | RL  |     | HYDRO                | 9,550                                         | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1389                                               | 1027010253         | PT                                   |     |     | Adams Creek          | 22.7                                          | 0                                                                                                             | 0          | 1.61       | 5.92       | 17.8       |
| 1404                                               | 1027010212         | PT                                   |     |     | Cross Creek          | 76.4                                          | 0                                                                                                             | .84        | 5.85       | 21.1       | 64.0       |

**Table 81.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pottawatomie County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 85) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 908                                                | 27.7                                     | 3,160                                                                                | 6,860  | 10,200  | 15,200  | 19,700  | 24,500   |
| 914                                                | 41.2                                     | 4,150                                                                                | 8,800  | 12,900  | 19,200  | 24,600  | 30,600   |
| 923                                                | .88                                      | 449                                                                                  | 961    | 1,400   | 2,060   | 2,600   | 3,220    |
| 940                                                | 48.4                                     | 4,540                                                                                | 9,560  | 14,000  | 20,700  | 26,600  | 33,000   |
| 942                                                | 6.47                                     | 1,050                                                                                | 2,270  | 3,320   | 4,920   | 6,260   | 7,780    |
| 956                                                | 52.6                                     | 4,690                                                                                | 9,860  | 14,400  | 21,300  | 27,300  | 33,900   |
| 957                                                | 32.2                                     | 3,420                                                                                | 7,420  | 11,000  | 16,500  | 21,300  | 26,600   |
| 962                                                | 26.8                                     | 5,030                                                                                | 10,100 | 14,400  | 20,900  | 26,400  | 32,300   |
| 972                                                | 19.9                                     | 4,000                                                                                | 8,160  | 11,800  | 17,100  | 21,700  | 26,600   |
| 995                                                | 70.3                                     | 5,940                                                                                | 12,200 | 17,600  | 25,700  | 32,600  | 40,200   |
| 996                                                | 15.7                                     | 1,820                                                                                | 4,030  | 5,970   | 8,970   | 11,500  | 14,400   |
| 1017                                               | 5.65                                     | 963                                                                                  | 2,140  | 3,180   | 4,780   | 6,110   | 7,640    |
| 1044                                               | 6.37                                     | 1,040                                                                                | 2,240  | 3,290   | 4,870   | 6,190   | 7,690    |
| 1045                                               | 10.2                                     | 1,390                                                                                | 3,030  | 4,460   | 6,640   | 8,460   | 10,500   |
| 1072                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1108                                               | 16.9                                     | 4,620                                                                                | 9,160  | 13,000  | 18,600  | 23,400  | 28,400   |
| 1159                                               | 80.0                                     | 6,290                                                                                | 12,800 | 18,300  | 26,500  | 33,500  | 41,100   |
| 1163                                               | 6.75                                     | 1,040                                                                                | 2,280  | 3,370   | 5,050   | 6,440   | 8,040    |
| 1164                                               | 15.3                                     | 1,750                                                                                | 3,890  | 5,780   | 8,700   | 11,200  | 14,000   |
| 1179                                               | 81.6                                     | 6,380                                                                                | 13,000 | 18,500  | 26,700  | 33,700  | 41,400   |
| 1180                                               | 17.8                                     | 1,910                                                                                | 4,240  | 6,310   | 9,480   | 12,100  | 15,200   |
| 1209                                               | 8.48                                     | 1,230                                                                                | 2,670  | 3,930   | 5,850   | 7,460   | 9,290    |
| 1212                                               | 5.28                                     | 933                                                                                  | 2,020  | 2,960   | 4,400   | 5,590   | 6,960    |
| 1213                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1266                                               | 27.9                                     | 3,740                                                                                | 7,700  | 11,200  | 16,400  | 20,900  | 25,700   |
| 1267                                               | 15.9                                     | 1,790                                                                                | 4,020  | 6,000   | 9,070   | 11,600  | 14,600   |
| 1271                                               | 87.4                                     | 6,190                                                                                | 12,600 | 17,900  | 25,800  | 32,400  | 39,700   |
| 1274                                               | 4.23                                     | 769                                                                                  | 1,660  | 2,430   | 3,590   | 4,560   | 5,670    |
| 1287                                               | 90.7                                     | 6,250                                                                                | 12,300 | 17,300  | 24,700  | 30,900  | 37,700   |
| 1289                                               | 17.4                                     | 1,890                                                                                | 4,190  | 6,220   | 9,360   | 12,000  | 15,000   |
| 1302                                               | 13.0                                     | 1,590                                                                                | 3,600  | 5,390   | 8,160   | 10,500  | 13,200   |
| 1303                                               | 20.3                                     | 3,190                                                                                | 6,630  | 9,630   | 14,100  | 18,000  | 22,100   |
| 1305                                               | 16.0                                     | 1,720                                                                                | 3,900  | 5,860   | 8,900   | 11,500  | 14,400   |
| 1325                                               | 29.4                                     | 4,140                                                                                | 8,530  | 12,400  | 18,100  | 23,100  | 28,500   |
| 1337                                               | 16.9                                     | 1,890                                                                                | 4,190  | 6,220   | 9,340   | 12,000  | 15,000   |
| 1351                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1389                                               | 14.0                                     | 1,670                                                                                | 3,750  | 5,590   | 8,450   | 10,800  | 13,600   |
| 1404                                               | 46.4                                     | 5,040                                                                                | 10,300 | 14,900  | 21,900  | 27,900  | 34,400   |

**Table 81.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pottawatomie County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 85) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                      | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|----------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                  |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 1420                                               | 1027010222         | PT                                   |     |     | East Fork Rock Creek | 86.3                                          | 0                                                                                                             | 1.06       | 6.49       | 22.5       | 66.9       |
| 1424                                               | 1027010223         | PT                                   |     |     | Pleasant Hill Run    | 70.0                                          | 0                                                                                                             | 1.38       | 6.54       | 20.1       | 54.7       |
| 1426                                               | 1027010216         | PT                                   |     |     | Vermillion Creek     | 302                                           | .71                                                                                                           | 3.46       | 21.1       | 66.7       | 186        |
| 1427                                               | 1027010253         | PT                                   |     |     | Adams Creek          | 27.0                                          | 0                                                                                                             | 0          | 1.94       | 7.00       | 20.9       |
| 1432                                               | 1027010257         | PT                                   |     |     | Brush Creek          | 26.3                                          | 0                                                                                                             | 0          | 1.76       | 6.42       | 19.3       |
| 1433                                               | 1027010221         | PT                                   |     |     | Rock Creek           | 160                                           | 0                                                                                                             | 3.00       | 13.4       | 43.3       | 126        |
| 1439                                               | 1027010263         | PT                                   |     |     | Bourbonais Creek     | 3.30                                          | 0                                                                                                             | 0          | 0          | .20        | 1.64       |
| 1441                                               | HYDRO              | PT                                   | RL  |     | HYDRO                | 9,620                                         | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1446                                               | HYDRO              | PT                                   |     |     | HYDRO                | 3.47                                          | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 1453                                               | 1027010221         | PT                                   |     |     | Rock Creek           | 187                                           | 0                                                                                                             | 3.40       | 15.1       | 49.4       | 145        |
| 1455                                               | 1027010258         | PT                                   |     |     | Elm Slough           | 15.0                                          | 2.29                                                                                                          | 4.48       | 7.06       | 11.3       | 19.1       |
| 1470                                               | 1027010216         | PT                                   |     |     | Vermillion Creek     | 331                                           | .88                                                                                                           | 3.98       | 23.3       | 73.9       | 210        |
| 1475                                               | 1027010258         | PT                                   |     |     | Elm Slough           | 2.58                                          | .40                                                                                                           | .80        | 1.50       | 2.28       | 2.43       |
| 1477                                               | 1027010221         | PT                                   |     |     | Rock Creek           | 215                                           | 1.11                                                                                                          | 6.33       | 23.6       | 68.2       | 184        |
| 1480                                               | 102702052          | PT                                   | RL  |     | Big Blue River       | 9,630                                         | 178                                                                                                           | 444        | 974        | 2,450      | 6,500      |
| 1507                                               | 102701021229       | PT                                   |     |     | Deep Creek           | 14.1                                          | 0                                                                                                             | 0          | 1.38       | 4.56       | 12.9       |
| 1518                                               | 1027010215         | PT                                   |     |     | Vermillion Creek     | 551                                           | 3.36                                                                                                          | 11.2       | 50.5       | 150        | 423        |
| 1531                                               | 1027010258         | PT                                   |     |     | Elm Slough           | 8.40                                          | 2.48                                                                                                          | 3.85       | 5.01       | 7.12       | 11.1       |
| 1542                                               | 102701021223       | PT                                   |     |     | Riley Creek          | 6.14                                          | 0                                                                                                             | 0          | .80        | 2.13       | 5.76       |
| 1545                                               | 102701021229       | PT                                   |     |     | Deep Creek           | 16.2                                          | 0                                                                                                             | .42        | 2.34       | 6.37       | 16.0       |
| 1554                                               | 1027010269         | PT                                   |     |     | Doyle Creek          | 7.17                                          | 0                                                                                                             | 0          | .96        | 2.55       | 6.71       |
| 1555                                               | 1027010260         | PT                                   |     |     | Lost Creek           | 29.3                                          | 0                                                                                                             | 1.03       | 4.19       | 11.5       | 28.5       |
| 1557                                               | 1027010214         | PT                                   | WB  |     | Kansas River         | 54,400                                        | 949                                                                                                           | 1,750      | 3,400      | 7,650      | 18,200     |
| 1558                                               | 1027010214         | PT                                   | WB  |     | Kansas River         | 54,400                                        | 952                                                                                                           | 1,760      | 3,430      | 7,700      | 18,400     |
| 1562                                               | 102701021223       | PT                                   | WB  |     | Riley Creek          | 23.7                                          | 0                                                                                                             | .81        | 3.54       | 9.67       | 24.0       |
| 1563                                               | 1027010265         | PT                                   |     |     | Sand Creek           | 13.6                                          | 1.37                                                                                                          | 3.05       | 5.05       | 8.45       | 15.0       |
| 1564                                               | 102702051          | PT                                   | RL  |     | Big Blue River       | 9,650                                         | 178                                                                                                           | 444        | 975        | 2,450      | 6,500      |
| 1565                                               | 1027010264         | PT                                   |     |     | Blackjack Creek      | 8.17                                          | 2.79                                                                                                          | 4.17       | 5.22       | 7.18       | 10.9       |
| 1566                                               | 1027010225         | PT                                   |     |     | Kansas River         | 53,700                                        | 840                                                                                                           | 1,350      | 2,700      | 6,290      | 13,500     |
| 1576                                               | 1027010225         | PT                                   |     |     | Kansas River         | 53,700                                        | 841                                                                                                           | 1,350      | 2,700      | 6,300      | 13,500     |
| 1586                                               | 1027010224         | PT                                   | WB  |     | Kansas River         | 53,900                                        | 846                                                                                                           | 1,360      | 2,720      | 6,340      | 13,600     |
| 1605                                               | 1027010225         | PT                                   | RL  |     | Kansas River         | 53,700                                        | 839                                                                                                           | 1,350      | 2,700      | 6,290      | 13,500     |
| 1618                                               | 102701011          | PT                                   | RL  |     | Kansas River         | 44,000                                        | 431                                                                                                           | 676        | 1,420      | 3,470      | 7,780      |
| 1625                                               | 1027010224         | PT                                   | WB  |     | Kansas River         | 53,700                                        | 841                                                                                                           | 1,350      | 2,700      | 6,300      | 13,500     |
| 1627                                               | 1027010224         | PT                                   | WB  |     | Kansas River         | 53,800                                        | 844                                                                                                           | 1,360      | 2,710      | 6,320      | 13,500     |
| 1632                                               | 1027010269         | PT                                   |     |     | Doyle Creek          | 36.6                                          | 0                                                                                                             | 1.65       | 5.81       | 15.4       | 37.5       |
| 1633                                               | 1027010214         | PT                                   | WB  |     | Kansas River         | 54,500                                        | 960                                                                                                           | 1,790      | 3,480      | 7,800      | 18,700     |
| 1685                                               | 1027010214         | PT                                   | WB  |     | Kansas River         | 54,500                                        | 961                                                                                                           | 1,790      | 3,460      | 7,760      | 18,600     |



**Table 81.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pottawatomie County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 85) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 1420                                               | 47.7                                     | 4,600                                                                                | 9,100  | 13,000  | 18,800  | 23,800  | 29,300   |
| 1424                                               | 37.8                                     | 3,720                                                                                | 7,440  | 10,700  | 15,500  | 19,600  | 24,000   |
| 1426                                               | 113                                      | 6,610                                                                                | 9,650  | 11,800  | 14,600  | 16,800  | 19,100   |
| 1427                                               | 16.3                                     | 1,840                                                                                | 4,160  | 6,220   | 9,420   | 12,100  | 15,200   |
| 1432                                               | 15.3                                     | 1,790                                                                                | 4,050  | 6,070   | 9,190   | 11,800  | 14,900   |
| 1433                                               | 83.4                                     | 5,880                                                                                | 10,100 | 13,400  | 18,100  | 21,900  | 26,100   |
| 1439                                               | 2.05                                     | 581                                                                                  | 1,240  | 1,800   | 2,640   | 3,340   | 4,130    |
| 1441                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1446                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 1453                                               | 96.0                                     | 6,460                                                                                | 11,200 | 15,000  | 20,500  | 24,900  | 29,800   |
| 1455                                               | 10.8                                     | 1,280                                                                                | 2,880  | 4,290   | 6,460   | 8,280   | 10,400   |
| 1470                                               | 126                                      | 6,910                                                                                | 10,300 | 12,700  | 15,900  | 18,500  | 21,300   |
| 1475                                               | 1.52                                     | 463                                                                                  | 1,000  | 1,460   | 2,160   | 2,740   | 3,400    |
| 1477                                               | 113                                      | 5,650                                                                                | 9,510  | 12,500  | 16,600  | 19,900  | 23,500   |
| 1480                                               | 2,490                                    | 16,600                                                                               | 25,500 | 36,300  | 42,000  | 46,800  | 49,600   |
| 1507                                               | 9.92                                     | 1,330                                                                                | 2,930  | 4,320   | 6,460   | 8,250   | 10,300   |
| 1518                                               | 235                                      | 8,560                                                                                | 13,200 | 16,600  | 21,400  | 25,200  | 29,300   |
| 1531                                               | 6.30                                     | 917                                                                                  | 2,030  | 3,010   | 4,500   | 5,750   | 7,180    |
| 1542                                               | 4.58                                     | 831                                                                                  | 1,790  | 2,620   | 3,880   | 4,920   | 6,110    |
| 1545                                               | 11.5                                     | 1,440                                                                                | 3,180  | 4,710   | 7,050   | 9,010   | 11,300   |
| 1554                                               | 5.26                                     | 910                                                                                  | 1,970  | 2,880   | 4,270   | 5,430   | 6,750    |
| 1555                                               | 19.6                                     | 2,010                                                                                | 4,490  | 6,700   | 10,100  | 13,000  | 16,300   |
| 1557                                               | 7,030                                    | 33,300                                                                               | 59,300 | 81,700  | 116,000 | 149,000 | 185,000  |
| 1558                                               | 7,080                                    | 33,500                                                                               | 59,400 | 81,900  | 116,000 | 149,000 | 184,000  |
| 1562                                               | 16.6                                     | 1,800                                                                                | 4,010  | 5,950   | 8,950   | 11,500  | 14,400   |
| 1563                                               | 9.03                                     | 1,160                                                                                | 2,620  | 3,920   | 5,920   | 7,610   | 9,550    |
| 1564                                               | 2,490                                    | 16,600                                                                               | 25,500 | 36,300  | 42,000  | 46,900  | 49,700   |
| 1565                                               | 6.10                                     | 894                                                                                  | 1,980  | 2,940   | 4,400   | 5,620   | 7,020    |
| 1566                                               | 5,620                                    | 28,500                                                                               | 54,200 | 77,900  | 108,000 | 155,000 | 201,000  |
| 1576                                               | 5,620                                    | 28,500                                                                               | 54,200 | 78,000  | 108,000 | 155,000 | 201,000  |
| 1586                                               | 5,650                                    | 28,600                                                                               | 54,500 | 78,400  | 108,000 | 156,000 | 202,000  |
| 1605                                               | 5,610                                    | 28,500                                                                               | 54,200 | 77,900  | 107,000 | 155,000 | 201,000  |
| 1618                                               | 3,150                                    | 19,600                                                                               | 32,400 | 45,800  | 74,900  | 105,000 | 143,000  |
| 1625                                               | 5,620                                    | 28,500                                                                               | 54,200 | 78,000  | 108,000 | 155,000 | 201,000  |
| 1627                                               | 5,640                                    | 28,600                                                                               | 54,400 | 78,300  | 108,000 | 156,000 | 202,000  |
| 1632                                               | 24.8                                     | 2,980                                                                                | 5,960  | 8,490   | 12,200  | 15,300  | 18,600   |
| 1633                                               | 7,180                                    | 33,800                                                                               | 59,800 | 82,100  | 117,000 | 148,000 | 183,000  |
| 1685                                               | 7,140                                    | 33,900                                                                               | 60,100 | 82,600  | 117,000 | 149,000 | 185,000  |

**Table 81.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pottawatomie County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

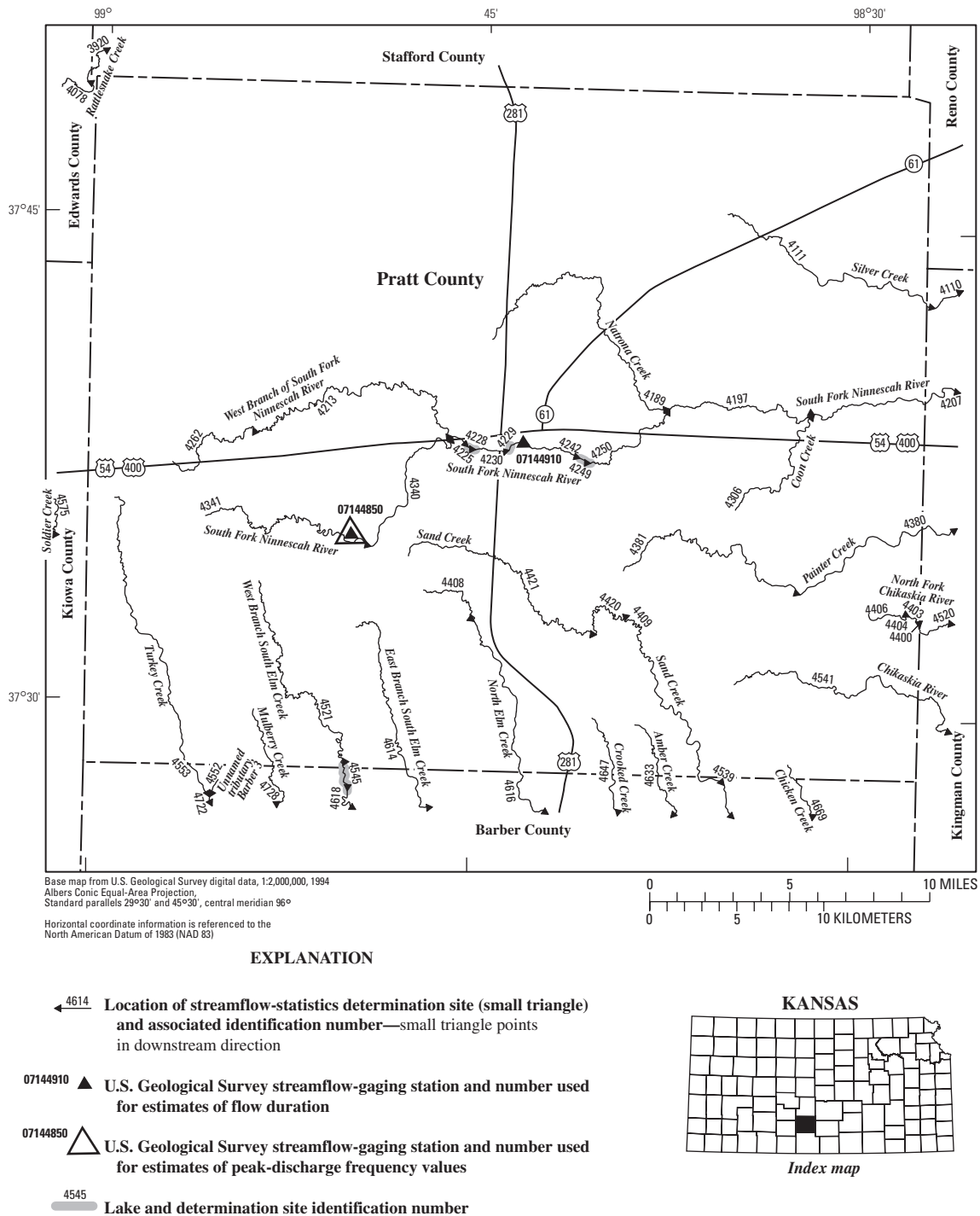
| Determination site<br>identification<br>number<br>(fig. 85) | KSWR<br>CUSEGA<br>number | Stream segment<br>by county<br>(table 112) |     |     |     | Stream name      | Contributing<br>drainage<br>area<br>(mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for<br>indicated percentage of time flow equaled or<br>exceeded |               |               |               |               |
|-------------------------------------------------------------|--------------------------|--------------------------------------------|-----|-----|-----|------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|
|                                                             |                          | 1st                                        | 2nd | 3rd | 4th |                  |                                                        | 90<br>percent                                                                                                       | 75<br>percent | 50<br>percent | 25<br>percent | 10<br>percent |
|                                                             |                          |                                            |     |     |     |                  |                                                        |                                                                                                                     |               |               |               |               |
| 1694                                                        | 1027010214               | PT                                         | SN  |     |     | Kansas River     | 54,500                                                 | 961                                                                                                                 | 1,780         | 3,440         | 7,740         | 18,500        |
| 1700                                                        | 1027010263               | PT                                         | SN  |     |     | Bourbonais Creek | 22.9                                                   | 0                                                                                                                   | 1.36          | 4.32          | 10.7          | 24.7          |
| 1709                                                        | 1027010271               | PT                                         | WB  |     |     | Turkey Creek     | 25.8                                                   | 0                                                                                                                   | .49           | 2.89          | 8.49          | 22.4          |
| 1757                                                        | 1027010267               | PT                                         | WB  |     |     | Antelope Creek   | 21.8                                                   | 0                                                                                                                   | .97           | 3.46          | 8.71          | 20.7          |
| 5415                                                        | 1027010224               | PT                                         |     |     |     | Kansas River     | 53,900                                                 | 846                                                                                                                 | 1,360         | 2,720         | 6,340         | 13,600        |

**Table 81.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pottawatomie County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site<br>identification<br>number<br>(fig. 85) | Estimated mean<br>flow<br>(ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|-------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                             |                                                | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 1694                                                        | 7,120                                          | 34,000                                                                               | 60,400 | 83,000  | 117,000 | 150,000 | 186,000  |
| 1700                                                        | 16.5                                           | 1,800                                                                                | 3,980  | 5,900   | 8,860   | 11,300  | 14,200   |
| 1709                                                        | 16.5                                           | 1,880                                                                                | 4,190  | 6,230   | 9,390   | 12,000  | 15,100   |
| 1757                                                        | 14.2                                           | 1,620                                                                                | 3,650  | 5,450   | 8,220   | 10,600  | 13,300   |
| 5415                                                        | 5,650                                          | 28,600                                                                               | 54,500 | 78,400  | 108,000 | 156,000 | 202,000  |





**Figure 86.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Pratt County.

**Table 82.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pratt County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 86) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |                                           | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th                                       |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 4189                                               | 11030015307        | PR                                   |     |     | Natrona Creek                             | 71.4                                          | 0.91                                                                                                          | 2.17       | 3.27       | 5.07       | 9.25       |
| 4197                                               | 110300154          | PR                                   |     |     | South Fork Ninnescah River                | 261                                           | 18.3                                                                                                          | 26.2       | 34.3       | 46.5       | 67.3       |
| 4213                                               | 110300155          | PR                                   |     |     | West Branch of South Fork Ninnescah River | 103                                           | 3.36                                                                                                          | 5.11       | 6.30       | 7.93       | 11.5       |
| 4225                                               | 110300154          | PR                                   |     |     | South Fork Ninnescah River                | 141                                           | 5.37                                                                                                          | 7.67       | 9.64       | 12.1       | 16.9       |
| 4228                                               | HYDRO              | PR                                   |     |     | HYDRO                                     | 142                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 4229                                               | HYDRO              | PR                                   |     |     | HYDRO                                     | 146                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 4230                                               | 110300154          | PR                                   |     |     | South Fork Ninnescah River                | 145                                           | 5.53                                                                                                          | 7.90       | 9.98       | 12.6       | 17.7       |
| 4242                                               | 110300154          | PR                                   |     |     | South Fork Ninnescah River                | 157                                           | 6.00                                                                                                          | 8.60       | 11.0       | 14.0       | 20.0       |
| 4249                                               | HYDRO              | PR                                   |     |     | HYDRO                                     | 159                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 4250                                               | 110300154          | PR                                   |     |     | South Fork Ninnescah River                | 170                                           | 7.54                                                                                                          | 10.9       | 14.1       | 18.4       | 26.5       |
| 4262                                               | 110300155          | PR                                   |     |     | West Branch of South Fork Ninnescah River | 39.7                                          | .92                                                                                                           | 1.00       | 1.20       | 1.46       | 1.93       |
| 4306                                               | 110300159          | PR                                   |     |     | Coon Creek                                | 15.3                                          | .03                                                                                                           | .04        | .05        | .06        | .09        |
| 4340                                               | 110300156          | PR                                   |     |     | South Fork Ninnescah River                | 36.5                                          | .40                                                                                                           | .42        | .95        | 1.12       | 2.28       |
| 4341                                               | 110300156          | PR                                   |     |     | South Fork Ninnescah River                | 23.1                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 4381                                               | 110300157          | PR                                   |     |     | Painter Creek                             | 27.6                                          | .10                                                                                                           | .14        | .45        | .51        | 1.52       |
| 4400                                               | 1106000537         | PR                                   |     |     | North Fork Chikaskia River                | 6.36                                          | 0                                                                                                             | 0          | 0          | 0          | .01        |
| 4403                                               | 1106000537         | PR                                   |     |     | North Fork Chikaskia River                | 6.38                                          | 0                                                                                                             | 0          | 0          | 0          | .01        |
| 4404                                               | 1106000537         | PR                                   |     |     | North Fork Chikaskia River                | 6.38                                          | 0                                                                                                             | 0          | 0          | 0          | .01        |
| 4406                                               | 1106000537         | PR                                   |     |     | North Fork Chikaskia River                | 6.36                                          | 0                                                                                                             | 0          | 0          | 0          | .01        |
| 4408                                               | 110600034          | PR                                   |     |     | North Elm Creek                           | 7.13                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 4409                                               | 1106000511         | PR                                   |     |     | Sand Creek                                | 28.4                                          | .01                                                                                                           | .02        | .04        | .09        | .27        |
| 4420                                               | 1106000511         | PR                                   |     |     | Sand Creek                                | 28.3                                          | .01                                                                                                           | .02        | .04        | .09        | .27        |
| 4421                                               | 1106000511         | PR                                   |     |     | Sand Creek                                | 23.4                                          | .01                                                                                                           | .02        | .03        | .06        | .13        |
| 4521                                               | 110600039005       | PR                                   |     |     | West Branch South Elm Creek               | 25.4                                          | 0                                                                                                             | .02        | .02        | .02        | .21        |

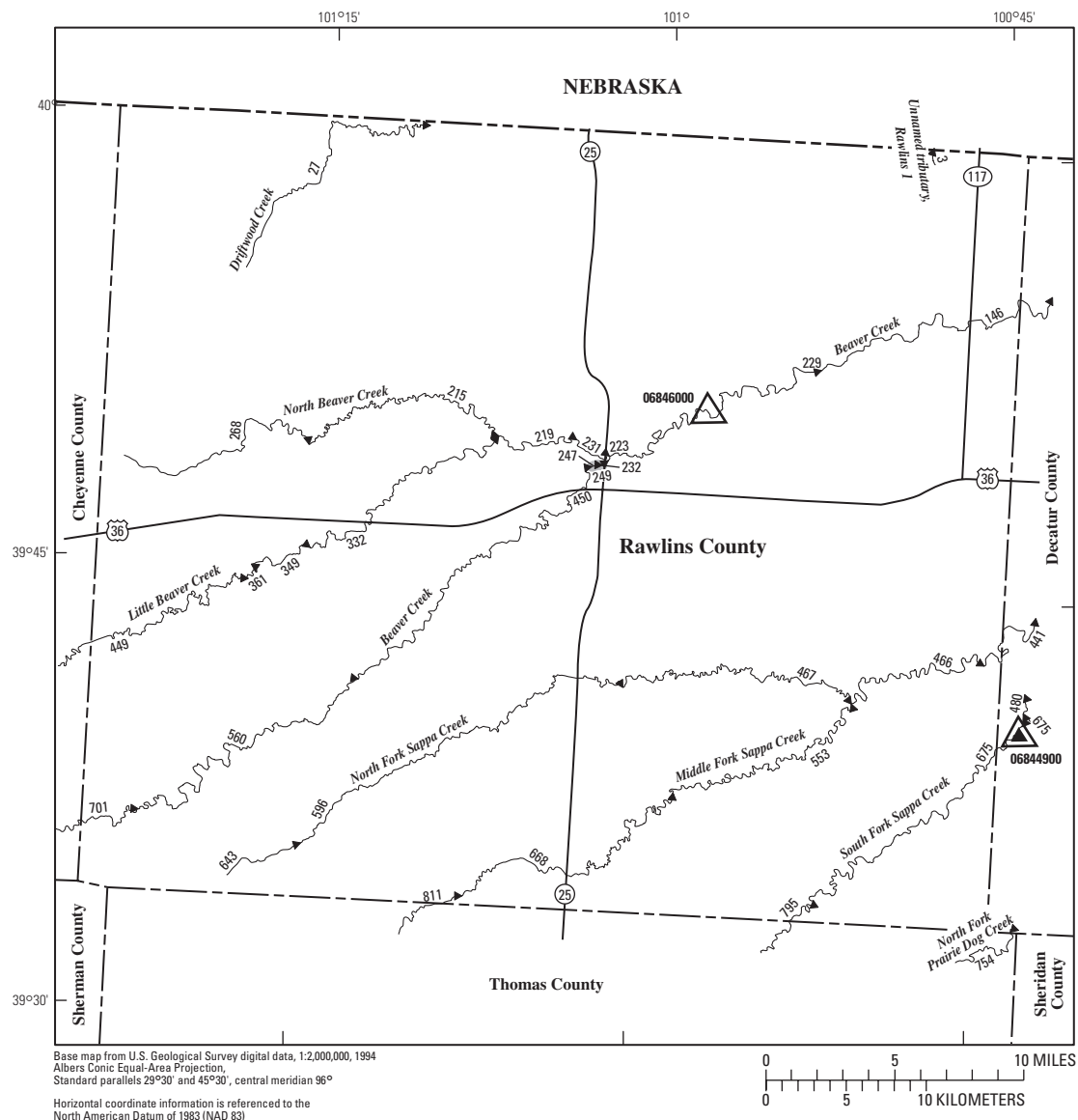
**Table 82.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Pratt County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 86) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 4189                                               | 8.88                                     | 927                                                                                  | 2,250  | 3,500   | 5,450   | 7,190   | 9,120    |
| 4197                                               | 53.5                                     | 2,600                                                                                | 5,540  | 8,010   | 11,600  | 14,700  | 17,900   |
| 4213                                               | 11.4                                     | 873                                                                                  | 2,110  | 3,260   | 5,070   | 6,650   | 8,420    |
| 4225                                               | 16.9                                     | 1,520                                                                                | 3,110  | 4,430   | 6,300   | 7,890   | 9,510    |
| 4228                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 4229                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 4230                                               | 17.6                                     | 1,570                                                                                | 3,230  | 4,610   | 6,560   | 8,210   | 9,910    |
| 4242                                               | 19.3                                     | 1,690                                                                                | 3,500  | 5,000   | 7,150   | 8,970   | 10,900   |
| 4249                                               | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 4250                                               | 23.9                                     | 1,790                                                                                | 3,740  | 5,360   | 7,690   | 9,660   | 11,700   |
| 4262                                               | 3.27                                     | 417                                                                                  | 1,070  | 1,710   | 2,720   | 3,620   | 4,630    |
| 4306                                               | 1.58                                     | 635                                                                                  | 1,690  | 2,720   | 4,390   | 5,850   | 7,580    |
| 4340                                               | 4.67                                     | 575                                                                                  | 1,050  | 1,440   | 1,960   | 2,430   | 2,860    |
| 4341                                               | 2.63                                     | 712                                                                                  | 1,500  | 2,190   | 3,240   | 4,150   | 5,160    |
| 4381                                               | 3.00                                     | 871                                                                                  | 2,370  | 3,830   | 6,240   | 8,380   | 10,900   |
| 4400                                               | .01                                      | 404                                                                                  | 1,040  | 1,650   | 2,620   | 3,470   | 4,460    |
| 4403                                               | .01                                      | 405                                                                                  | 1,050  | 1,650   | 2,630   | 3,480   | 4,470    |
| 4404                                               | .01                                      | 405                                                                                  | 1,050  | 1,650   | 2,630   | 3,480   | 4,470    |
| 4406                                               | .01                                      | 404                                                                                  | 1,040  | 1,650   | 2,620   | 3,470   | 4,460    |
| 4408                                               | 0                                        | 380                                                                                  | 1,010  | 1,630   | 2,620   | 3,500   | 4,520    |
| 4409                                               | 2.28                                     | 858                                                                                  | 2,350  | 3,820   | 6,250   | 8,390   | 10,900   |
| 4420                                               | 2.28                                     | 857                                                                                  | 2,350  | 3,820   | 6,240   | 8,390   | 10,900   |
| 4421                                               | 1.68                                     | 765                                                                                  | 2,090  | 3,390   | 5,530   | 7,430   | 9,660    |
| 4521                                               | 2.07                                     | 776                                                                                  | 2,140  | 3,490   | 5,710   | 7,680   | 10,000   |

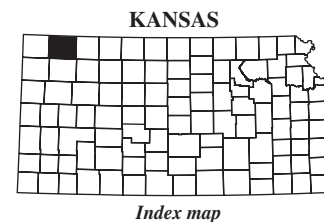






# EXPLANATION

- ← 701 Location of streamflow-statistics determination site (small triangle) and associated identification number—small triangle points in downstream direction
- 06844900 ▲ U.S. Geological Survey streamflow-gaging station and number used for estimates of flow duration
- 06846000 △ U.S. Geological Survey streamflow-gaging station and number used for estimates of peak-discharge frequency values
- 249 Lake and determination site identification number



**Figure 86.** Location of streamflow-statistics determination sites, associated identification numbers, and U.S. Geological Survey streamflow-gaging stations used in the flow-duration and peak-discharge frequency analyses for Rawlins County.

**Table 83.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Rawlins County.

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 87) | KSWR CUSEGA number | Stream segment by county (table 112) |     |     |     | Contributing drainage area (mi <sup>2</sup> ) | Estimated flow-duration values (ft <sup>3</sup> /s) for indicated percentage of time flow equaled or exceeded |            |            |            |            |
|----------------------------------------------------|--------------------|--------------------------------------|-----|-----|-----|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
|                                                    |                    | 1st                                  | 2nd | 3rd | 4th |                                               | 90 percent                                                                                                    | 75 percent | 50 percent | 25 percent | 10 percent |
| 3                                                  | 1025000464         | RA                                   |     |     |     | 8.00                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 27                                                 | 1025000459         | RA                                   |     |     |     | 96.3                                          | .02                                                                                                           | .16        | .38        | .52        | .86        |
| 215                                                | 102500132          | RA                                   |     |     |     | 146                                           | 0                                                                                                             | 0          | 0          | 0          | 1.50       |
| 219                                                | 102500131          | RA                                   |     |     |     | 687                                           | 0                                                                                                             | 0          | 0          | .87        | 5.34       |
| 223                                                | 102500131          | RA                                   |     |     |     | 690                                           | 0                                                                                                             | 0          | 0          | .92        | 5.45       |
| 229                                                | 102500142          | RA                                   |     |     |     | 1,470                                         | 0                                                                                                             | 0          | 0          | 2.65       | 14.2       |
| 231                                                | 102500131          | RA                                   |     |     |     | 690                                           | 0                                                                                                             | 0          | 0          | .92        | 5.45       |
| 232                                                | 102500121          | RA                                   |     |     |     | 682                                           | 0                                                                                                             | 0          | 0          | 0          | 1.68       |
| 247                                                | 102500121          | RA                                   |     |     |     | 682                                           | 0                                                                                                             | 0          | 0          | 0          | 1.67       |
| 249                                                | HYDRO              | RA                                   |     |     |     | 681                                           | NA                                                                                                            | NA         | NA         | NA         | NA         |
| 268                                                | 102500132          | RA                                   |     |     |     | 83.5                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 332                                                | 102500133          | RA                                   |     |     |     | 522                                           | 0                                                                                                             | 0          | 0          | 0          | 0.73       |
| 349                                                | 102500133          | RA                                   |     |     |     | 491                                           | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 361                                                | 102500133          | RA                                   |     |     |     | 479                                           | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 450                                                | 102500121          | RA                                   |     |     |     | 681                                           | 0                                                                                                             | 0          | 0          | 0          | 1.63       |
| 466                                                | 102500101          | RA                                   |     |     |     | 543                                           | 0                                                                                                             | 0          | 0          | 1.41       | 6.04       |
| 467                                                | 102500102          | RA                                   |     |     |     | 157                                           | 0                                                                                                             | 0          | 0          | 0          | .96        |
| 553                                                | 102500103          | RA                                   |     |     |     | 348                                           | 0                                                                                                             | 0          | 0          | 0          | .69        |
| 560                                                | 102500121          | RA                                   |     |     |     | 621                                           | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 596                                                | 102500102          | RA                                   |     |     |     | 98.4                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 643                                                | 102500102          | RA                                   |     |     |     | 26.6                                          | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 668                                                | 102500103          | RA                                   |     |     |     | 311                                           | 0                                                                                                             | 0          | 0          | 0          | 0          |
| 795                                                | 102500104          | RA                                   | TH  |     |     | 352                                           | 0                                                                                                             | 0          | 0          | 0          | .35        |
| 811                                                | 102500103          | RA                                   | TH  |     |     | 251                                           | 0                                                                                                             | 0          | 0          | 0          | 0          |

**Table 83.** Estimated flow-duration values, mean flow values, and peak-discharge frequency values for controlled and uncontrolled flow stream segments on the 1999 Kansas Surface Water Register for Rawlins County.—Continued

[KSWR, Kansas Surface Water Register; CUSEGA, catalog unit segment number alpha; mi<sup>2</sup>, square miles; ft<sup>3</sup>/s, cubic feet per second; HYDRO, lake or other hydrologic structure; NA, not applicable; NRDitch, irrigation ditch; NRTribal, tribal stream]

| Determination site identification number (fig. 87) | Estimated mean flow (ft <sup>3</sup> /s) | Estimated peak discharge (ft <sup>3</sup> /s) for indicated peak-discharge frequency |        |         |         |         |          |
|----------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|--------|---------|---------|---------|----------|
|                                                    |                                          | 2-year                                                                               | 5-year | 10-year | 25-year | 50-year | 100-year |
| 3                                                  | 0                                        | 236                                                                                  | 721    | 1,230   | 2,080   | 2,870   | 3,800    |
| 27                                                 | 2.96                                     | 535                                                                                  | 1,650  | 2,870   | 5,010   | 7,080   | 9,550    |
| 215                                                | 3.94                                     | 768                                                                                  | 2,250  | 3,850   | 6,580   | 9,210   | 12,300   |
| 219                                                | 6.96                                     | 775                                                                                  | 2,390  | 4,210   | 7,470   | 10,700  | 14,600   |
| 223                                                | 7.04                                     | 781                                                                                  | 2,410  | 4,230   | 7,500   | 10,700  | 14,700   |
| 229                                                | 9.18                                     | 440                                                                                  | 1,110  | 1,780   | 2,920   | 4,000   | 5,300    |
| 231                                                | 7.04                                     | 781                                                                                  | 2,410  | 4,230   | 7,500   | 10,700  | 14,700   |
| 232                                                | 3.66                                     | 542                                                                                  | 1,810  | 3,310   | 6,080   | 8,890   | 12,400   |
| 247                                                | 3.66                                     | 542                                                                                  | 1,810  | 3,310   | 6,070   | 8,880   | 12,400   |
| 249                                                | NA                                       | NA                                                                                   | NA     | NA      | NA      | NA      | NA       |
| 268                                                | 1.30                                     | 641                                                                                  | 1,880  | 3,200   | 5,450   | 7,590   | 10,100   |
| 332                                                | 3.29                                     | 579                                                                                  | 1,910  | 3,460   | 6,300   | 9,150   | 12,700   |
| 349                                                | 2.49                                     | 519                                                                                  | 1,750  | 3,210   | 5,890   | 8,620   | 12,000   |
| 361                                                | 2.20                                     | 501                                                                                  | 1,700  | 3,130   | 5,770   | 8,450   | 11,800   |
| 450                                                | 3.63                                     | 541                                                                                  | 1,810  | 3,300   | 6,070   | 8,870   | 12,400   |
| 466                                                | 8.44                                     | 804                                                                                  | 2,540  | 4,520   | 8,110   | 11,700  | 16,100   |
| 467                                                | 3.58                                     | 632                                                                                  | 1,940  | 3,390   | 5,930   | 8,410   | 11,400   |
| 553                                                | 3.83                                     | 587                                                                                  | 1,940  | 3,510   | 6,390   | 9,290   | 12,900   |
| 560                                                | 2.19                                     | 476                                                                                  | 1,650  | 3,050   | 5,690   | 8,380   | 11,800   |
| 596                                                | 1.26                                     | 470                                                                                  | 1,490  | 2,620   | 4,630   | 6,600   | 8,950    |
| 643                                                | 0                                        | 360                                                                                  | 1,200  | 2,130   | 3,780   | 5,310   | 7,180    |
| 668                                                | 2.75                                     | 526                                                                                  | 1,770  | 3,230   | 5,910   | 8,610   | 11,900   |
| 795                                                | 2.06                                     | 273                                                                                  | 1,030  | 2,020   | 4,080   | 6,360   | 9,410    |
| 811                                                | 1.41                                     | 425                                                                                  | 1,470  | 2,720   | 5,040   | 7,400   | 10,300   |