



Water-Data Report 2008

05454500 Iowa River at Iowa City, IA

Iowa Basin
Lower Iowa Subbasin

LOCATION.--Lat 41°39'24", long 91°32'27" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.9, T.79 N., R.6 W., Johnson County, IA, Hydrologic Unit 07080209, on right bank 25 ft downstream from Hydraulics Laboratory of University of Iowa in Iowa City, 175 ft downstream from University Dam, 0.8 mi upstream from Ralston Creek, 3.6 mi downstream from Clear Creek, and 72.3 mi upstream from mouth.

DRAINAGE AREA.--3,271 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1903 to current year. Monthly discharge only for some periods, published in WSP 1308.

GAGE.--Water-stage recorder. Datum of gage is 29.00 ft above Iowa City datum and 617.27 ft above NGVD of 1929. October 1, 1934 to September 30, 1972, at datum 10.00 ft higher. See WSP 1708 for history of changes prior to October 1, 1934.

REMARKS.--Records are considered good, except for those estimated daily discharges, which are poor. Slight fluctuation at low stages caused by power plant above station. Flow regulated by Coralville Lake (station 05453510), 9.1 mi upstream, since September 17, 1958. U.S. Army Corps of Engineers rain gage and data collection platform with satellite telemetry and U.S. Geological Survey data collection platform with telephone modem backup at station. Precipitation records are available online at the U.S. Army Corps of Engineers website: www2.mvr.usace.army.mil/WaterControl/datamining2.cfm.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,500 ft³/s, June 8, 1918, gage height 19.6 ft, from graph based on gage readings, site and datum then in use; minimum daily discharge, 29 ft³/s, October 21, 22, 1916, regulated. Maximum gage height, 31.53 ft, June 15, 2008, discharge 41,100 ft³/s, current site and datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 17, 1881 reached a stage of 21.1 ft, from floodmarks, site and datum in use 1913-21, from information by local resident, discharge 51,000 ft³/s. Maximum stage since at least 1850, about 3 ft higher than that of July 17, 1881, occurred in June 1851, discharge 70,000 ft³/s, estimated.

Water-Data Report 2008

05454500 Iowa River at Iowa City, IA—Continued

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

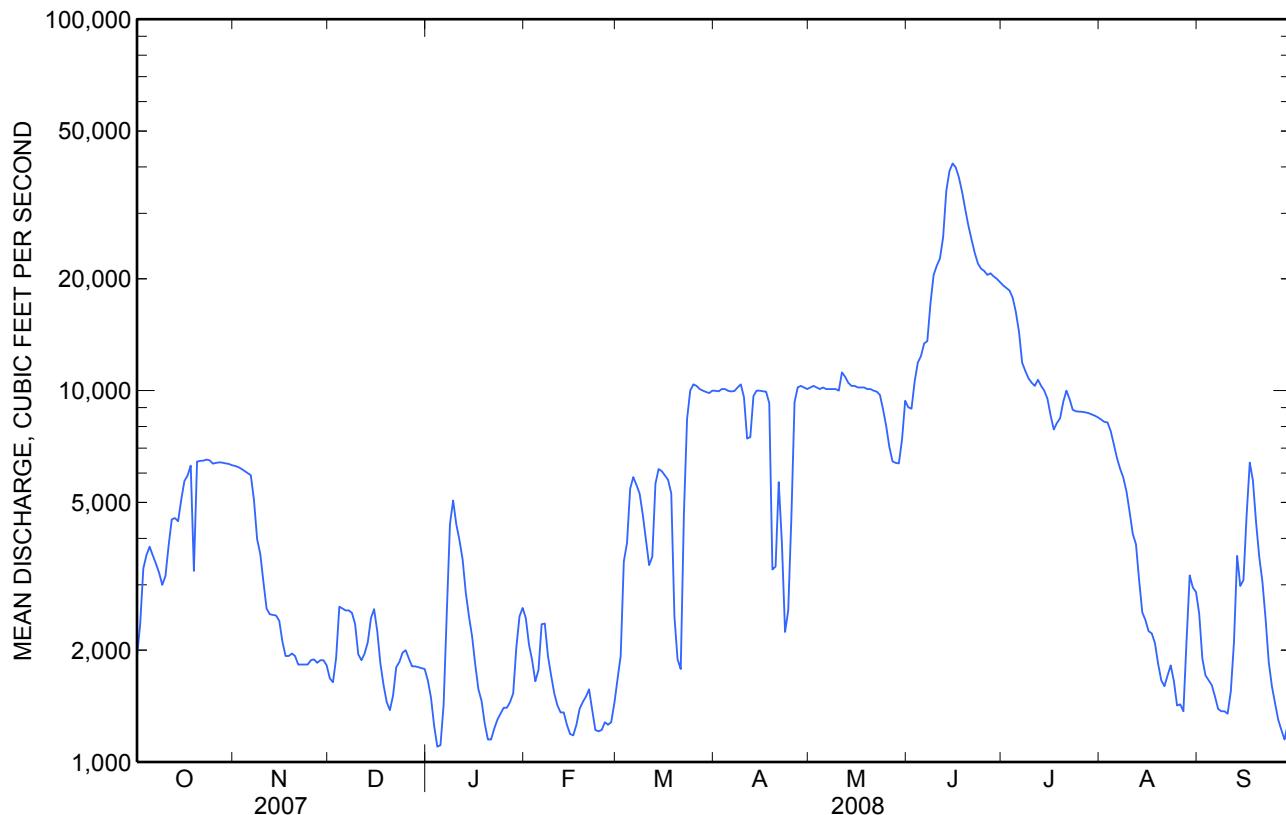
| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|---------|---------|---------|---------|--------|---------|---------|---------|-----------|---------|---------|---------|
| 1 | 1,920 | 6,270 | 1,680 | 1,660 | 2,440 | 1,670 | 9,990 | 10,200 | 9,020 | 19,200 | 8,360 | 2,510 |
| 2 | 2,350 | 6,230 | 1,640 | 1,490 | 2,070 | 1,930 | 9,960 | 10,300 | 8,940 | 18,900 | 8,240 | 1,900 |
| 3 | 3,320 | 6,160 | 1,910 | 1,250 | 1,880 | 3,470 | 10,100 | 10,200 | 10,600 | 18,600 | 8,210 | 1,710 |
| 4 | 3,610 | 6,080 | 2,620 | 1,100 | 1,650 | 3,890 | 10,100 | 10,100 | 11,900 | 17,800 | 7,790 | 1,660 |
| 5 | 3,800 | 6,000 | 2,590 | 1,110 | 1,770 | 5,450 | 9,990 | 10,200 | 12,400 | 16,300 | 7,170 | 1,610 |
| 6 | 3,600 | 5,920 | 2,560 | 1,430 | 2,350 | 5,850 | 9,950 | 10,100 | 13,400 | 14,400 | 6,580 | 1,500 |
| 7 | 3,420 | 5,080 | 2,560 | 2,520 | 2,360 | 5,570 | 9,980 | 10,100 | 13,600 | 11,900 | 6,160 | 1,390 |
| 8 | 3,230 | 3,980 | 2,520 | 4,370 | 1,930 | 5,280 | 10,200 | 10,100 | 17,200 | 11,300 | 5,830 | 1,370 |
| 9 | 3,000 | 3,630 | 2,350 | 5,060 | 1,710 | 4,630 | 10,400 | 10,100 | 20,500 | 10,800 | 5,350 | 1,370 |
| 10 | 3,170 | 3,050 | 1,950 | 4,370 | 1,530 | 3,960 | 9,600 | 10,000 | 21,700 | 10,500 | 4,710 | 1,350 |
| 11 | 3,830 | 2,590 | 1,880 | 3,960 | 1,420 | 3,390 | 7,430 | 11,200 | 22,700 | 10,300 | 4,110 | 1,550 |
| 12 | 4,500 | 2,500 | 1,960 | 3,510 | 1,360 | 3,570 | 7,500 | 10,900 | 25,900 | 10,700 | 3,860 | 2,100 |
| 13 | 4,540 | 2,490 | 2,100 | 2,860 | 1,360 | e5,620 | 9,670 | 10,500 | 34,500 | 10,300 | 3,090 | 3,590 |
| 14 | 4,450 | 2,480 | 2,440 | 2,470 | 1,260 | e6,150 | 10,000 | 10,300 | 39,000 | 10,000 | 2,530 | 2,980 |
| 15 | 5,090 | 2,400 | 2,580 | 2,180 | 1,190 | e6,070 | 10,000 | 10,300 | 40,900 | 9,510 | 2,410 | 3,090 |
| 16 | 5,710 | 2,110 | 2,250 | 1,830 | 1,180 | 5,910 | 9,960 | 10,200 | 39,900 | 8,580 | 2,250 | 4,610 |
| 17 | 5,910 | 1,930 | 1,840 | 1,570 | 1,260 | 5,750 | 9,940 | 10,200 | 37,500 | 7,860 | 2,220 | 6,400 |
| 18 | 6,280 | 1,930 | 1,610 | 1,460 | 1,390 | 5,290 | 9,250 | 10,200 | 34,300 | 8,180 | 2,090 | 5,730 |
| 19 | 3,270 | 1,960 | 1,450 | 1,270 | 1,450 | 2,470 | 3,300 | 10,100 | 30,800 | 8,430 | 1,840 | 4,410 |
| 20 | 6,440 | 1,930 | 1,380 | 1,150 | 1,500 | 1,890 | 3,360 | 10,100 | 27,800 | 9,330 | 1,660 | 3,570 |
| 21 | 6,470 | 1,830 | 1,510 | 1,150 | 1,570 | 1,780 | 5,670 | 10,000 | 25,500 | 10,000 | 1,600 | 3,060 |
| 22 | 6,480 | 1,830 | 1,800 | 1,230 | 1,380 | e4,650 | 3,890 | 9,940 | 23,500 | 9,490 | 1,710 | 2,430 |
| 23 | 6,520 | 1,830 | 1,860 | 1,300 | 1,220 | e8,380 | 2,240 | 9,740 | 22,000 | 8,880 | 1,820 | 1,860 |
| 24 | 6,490 | 1,830 | 1,970 | 1,350 | 1,210 | e10,000 | 2,560 | 8,910 | 21,300 | 8,800 | 1,650 | 1,600 |
| 25 | 6,360 | 1,880 | 2,000 | 1,400 | 1,220 | 10,400 | 4,550 | 8,020 | 21,000 | 8,780 | 1,420 | 1,440 |
| 26 | 6,390 | 1,890 | 1,900 | 1,400 | 1,280 | 10,300 | 9,310 | 7,050 | 20,500 | 8,770 | 1,430 | 1,300 |
| 27 | 6,410 | 1,850 | 1,810 | 1,450 | 1,260 | 10,100 | 10,200 | 6,450 | 20,700 | 8,740 | 1,370 | 1,220 |
| 28 | 6,400 | 1,880 | 1,810 | 1,530 | 1,280 | 10,000 | 10,300 | 6,390 | 20,300 | 8,700 | 2,120 | 1,150 |
| 29 | 6,370 | 1,880 | 1,800 | 2,040 | 1,440 | 9,920 | 10,200 | 6,370 | 20,000 | 8,630 | 3,180 | 1,260 |
| 30 | 6,350 | 1,820 | 1,790 | 2,470 | --- | 9,850 | 10,100 | 7,390 | 19,600 | 8,560 | 2,950 | 1,470 |
| 31 | 6,300 | --- | 1,780 | 2,600 | --- | 10,000 | --- | 9,390 | --- | 8,470 | 2,870 | --- |
| Total | 151,980 | 93,240 | 61,900 | 64,540 | 44,920 | 183,190 | 249,700 | 295,050 | 686,960 | 340,710 | 116,580 | 71,190 |
| Mean | 4,903 | 3,108 | 1,997 | 2,082 | 1,549 | 5,909 | 8,323 | 9,518 | 22,900 | 10,990 | 3,761 | 2,373 |
| Max | 6,520 | 6,270 | 2,620 | 5,060 | 2,440 | 10,400 | 10,400 | 11,200 | 40,900 | 19,200 | 8,360 | 6,400 |
| Min | 1,920 | 1,820 | 1,380 | 1,100 | 1,180 | 1,670 | 2,240 | 6,370 | 8,940 | 7,860 | 1,370 | 1,150 |
| Ac-ft | 301,500 | 184,900 | 122,800 | 128,000 | 89,100 | 363,400 | 495,300 | 585,200 | 1,363,000 | 675,800 | 231,200 | 141,200 |
| Cfsm | 1.50 | 0.95 | 0.61 | 0.64 | 0.47 | 1.81 | 2.54 | 2.91 | 7.00 | 3.36 | 1.15 | 0.73 |
| In. | 1.73 | 1.06 | 0.70 | 0.73 | 0.51 | 2.08 | 2.84 | 3.36 | 7.81 | 3.87 | 1.33 | 0.81 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2008, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 1,156 | 1,398 | 1,390 | 1,058 | 1,701 | 3,383 | 3,799 | 3,487 | 4,060 | 3,584 | 2,127 | 1,428 |
| Max | 4,903 | 5,395 | 4,580 | 5,381 | 5,789 | 7,988 | 9,764 | 9,763 | 22,900 | 22,220 | 20,060 | 13,760 |
| (WY) | (2008) | (1987) | (1983) | (1973) | (1973) | (1971) | (1979) | (1993) | (2008) | (1993) | (1993) | (1993) |
| Min | 135 | 121 | 130 | 141 | 125 | 366 | 348 | 184 | 99.1 | 72.8 | 162 | 147 |
| (WY) | (1990) | (1967) | (1989) | (1990) | (1977) | (1977) | (1989) | (1977) | (1977) | (1977) | (1989) | (1976) |

05454500 Iowa River at Iowa City, IA—Continued**SUMMARY STATISTICS**

| | Calendar Year 2007 | Water Year 2008 | | Water Years 1959 - 2008^a | |
|--|---------------------------|------------------------|--------|--|-----------------------------|
| Annual total | 1,504,383 | 2,359,960 | | | |
| Annual mean | 4,122 | 6,448 | | 2,383 | |
| Highest annual mean | | | | 8,502 | 1993 |
| Lowest annual mean | | | | 304 | 1989 |
| Highest daily mean | 10,000 | Mar 24 | 40,900 | Jun 15 | 40,900 Jun 15, 2008 |
| Lowest daily mean | 630 | Jan 19 | 1,100 | Jan 4 | 49 Aug 1, 1977 ^b |
| Annual seven-day minimum | 835 | Feb 6 | 1,260 | Jan 19 | 50 Jul 31, 1977 |
| Maximum peak flow | | | 41,100 | Jun 15 | 41,100 Jun 15, 2008 |
| Maximum peak stage | | | 31.53 | Jun 15 | 31.53 Jun 15, 2008 |
| Annual runoff (ac-ft) | 2,984,000 | 4,681,000 | | 1,726,000 | |
| Annual runoff (cfs^m) | 1.26 | 1.97 | | 0.728 | |
| Annual runoff (inches) | 17.11 | 26.84 | | 9.90 | |
| 10 percent exceeds | 6,640 | 11,000 | | 6,080 | |
| 50 percent exceeds | 3,770 | 3,970 | | 1,310 | |
| 90 percent exceeds | 1,150 | 1,420 | | 237 | |

^aPost regulation.^bAlso Aug 2, 1977.

05454500 Iowa River at Iowa City, IA—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD--September 1906 to September 1907, January 1944 to October 2001, December 2006 to September 2007, June 2008.

REMARKS.--Water-quality samples were collected in June 2008 to assess the impact of historic flooding on surface-water quality. For samples collected in this time period, flow-integrating sample-collection techniques were not always possible due to safety and equipment considerations.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Time | Gage height, feet (00065) | Instantaneous discharge, ft³/s (00061) | Stream in stream, ft/s (81904) | Velo-city at point in Stream width, feet (00004) | pH, water, unfiltrd (00400) | Specif-ic conductance, wat unfiltrd (00095) | Temper-ature, water, deg C (00010) | Alka- linity, wat unfiltrd (00095) | Bicar- bonate, wat unfiltrd (00453) | Carbon- ate, wat unfiltrd (00452) | Chlor- ide, water, fltrd, mg/L (00940) | Sulfate water, fltrd, mg/L (00945) |
|------------|------|---------------------------|--|--------------------------------|--|-----------------------------|---|------------------------------------|------------------------------------|-------------------------------------|-----------------------------------|--|------------------------------------|
| | | | | | | | | | | | | | |
| Jun | | | | | | | | | | | | | |
| 14... | 1500 | 31.12 | 39,300 | 5.84 | 395 | 7.5 | 366 | 22.7 | 138 | 168 | .3 | 9.42 | 12.0 |
| 15... | 1400 | 31.49 | 40,900 | 5.94 | 422 | 7.3 | 361 | 22.3 | 138 | 166 | .4 | 9.25 | 11.6 |
| 18... | 1330 | 29.83 | 34,200 | -- | -- | 7.0 | 299 | -- | 94.2 | 114 | .2 | 7.40 | 9.71 |
| 20... | 1120 | 28.01 | 27,900 | -- | 460 | 7.6 | 293 | 22.5 | 94.0 | 114 | .4 | 7.18 | 9.38 |

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Ammonia water, fltrd, mg/L as N (00608) | Nitrate + nitrite water, mg/L as N (00631) | Nitrite water, mg/L as N (00613) | Total nitrogen, wat unfiltrd, by anal ysis, mg/L (62855) | Ortho-phosphate, water, fltrd, mg/L as P (00671) | Phosphorus, water, unfiltrd, mg/L as P (00665) | 1-Methyl-naphthalene, water, fltrd, µg/L (81696) | 1-Naphthol, water, fltrd, µg/L (49295) | 2,4-D, methyl ester, water, fltrd, µg/L as CaCO3 (50470) | 2,4-D plus, 2,4-D, methyl ester, water, fltrd, µg/L as CaCO3 (66496) | 2,4-DB, 2,4-D, water, fltrd, µg/L as CaCO3 (39732) | 2,6-Diethyl-aniline water, fltrd, µg/L (38746) | 2,6-Diethyl-aniline water, fltrd, µg/L (82660) |
|------------|---|--|----------------------------------|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | |
| Jun | | | | | | | | | | | | | |
| 14... | .087 | 5.33 | .195 | 6.11 | .181 | .312 | <.2 | -- | -- | -- | -- | -- | -- |
| 15... | .094 | 5.12 | .180 | 5.86 | .166 | .273 | <.2 | -- | -- | -- | -- | -- | -- |
| 18... | .066 | 3.98 | .170 | 4.57 | .174 | .259 | <.2 | <.04 | <.040 | .08 | .08 | <.02 | <.006 |
| 20... | .038 | 3.77 | .173 | 4.30 | .179 | .336 | -- | <.04 | <.040 | .07 | .07 | <.02 | <.006 |

05454500 Iowa River at Iowa City, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 18

[Remark codes: <, less than; E, estimated.]

| Date | 2,6-Dimethyl-naphthalene, water, unfltrd | 2-Chloro-2'-6'-diethyl acetanilide | CIAT, water, wat flt | CEAT, water, filtrd, | 2-Ethyl-6-methyl-aniline | OIET, water, filtrd, | 2-Methyl-naphthalene, water, unfltrd | 3,4-Dichlorophenyl aniline | 3,4-Dichlorophenyl cyanate | 3,5-Dichloroaniline | 3-beta-Copros-tanol, water, filtrd, | 3-Hydroxyfuran, water, wat flt | 3-Methylindole, 0.7u GF |
|------------|--|------------------------------------|----------------------|----------------------|--------------------------|----------------------|--------------------------------------|----------------------------|----------------------------|---------------------|-------------------------------------|--------------------------------|-------------------------|
| | µg/L (62805) | µg/L (61618) | µg/L (04040) | µg/L (04038) | µg/L (61620) | µg/L (50355) | µg/L (30194) | µg/L (61625) | µg/L (63145) | µg/L (61627) | µg/L (62806) | µg/L (49308) | µg/L (62807) |
| Jun | | | | | | | | | | | | | |
| 14... | <.2 | -- | -- | -- | -- | -- | <.2 | -- | <2.0 | -- | <.8 | -- | <.2 |
| 15... | <.2 | -- | -- | -- | -- | -- | <.2 | -- | E.03 | -- | <.8 | -- | <.2 |
| 18... | <.2 | <.010 | E.353 | .16 | E.002 | .374 | <.2 | E.004 | <2.0 | <.008 | <.8 | <.040 | <.2 |
| 20... | -- | <.010 | E.308 | .19 | E.003 | .452 | -- | <.006 | -- | <.008 | -- | <.040 | -- |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 18

[Remark codes: <, less than; E, estimated.]

| Date | 3-tert-Butyl-4-hydroxy-anisole | 4-Chloro-2methyl phenol, water, wat unf | 4-Cumyl-phenol, water, filtrd, | 4-Octyl-phenol, water, unfltrd | 4-Nonyl-Nonyl-all isomers | 4-Nonyl-phenol, di-ethoxy-ylate, wat unf | 4-Nonyl-phenol, mono-ethoxy-ylate, wat unf | 4t-Octyl-phenol, di-ethoxy-ylate, wat unf | 4t-Octyl-phenol, mono-ethoxy-ylate, wat flt | 4t-Octyl-phenol, di-ethoxy-ylate, wat flt | 5-Methyl-1H-4-tert-Octyl-phenol, water, unfltrd | 5-Methyl-1H-4-tert-Octyl-phenol, water, unfltrd | Acetochlor, water, unfltrd | Acetophenone, water, unfltrd |
|------------|--------------------------------|---|--------------------------------|--------------------------------|---------------------------|--|--|---|---|---|---|---|----------------------------|------------------------------|
| | µg/L (61702) | µg/L (61633) | µg/L (62808) | µg/L (62809) | µg/L (62829) | µg/L (61703) | µg/L (61704) | µg/L (61705) | µg/L (61706) | µg/L (62810) | µg/L (61944) | µg/L (49260) | µg/L (62811) | |
| Jun | | | | | | | | | | | | | | |
| 14... | <.2 | -- | <.2 | <.2 | <2 | <3 | <2.0 | <.32 | <1 | <.2 | <2 | -- | <.3 | |
| 15... | <.2 | -- | <.2 | <.2 | <2 | <3 | <2.0 | <.32 | <1 | <.2 | <2 | -- | <.3 | |
| 18... | <.2 | <.005 | <.2 | <.2 | <2 | <3 | <2.0 | <.32 | <1 | <.2 | <2 | 1.00 | <.3 | |
| 20... | -- | <.005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | .952 | -- | |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Aci-fluor-fen, AHTN, water, water, unfltrd | Ala-chlor, water, filtrd, | Aldi-carb sulfone, water, filtrd | Aldi-carb sulf-oxide, wat flt | Aldi-carb, water, 0.7u GF | alpha-Endo-sulfan, water, 0.7u GF | Anthra-cene, water, 0.7u GF | 9,10-Anthra-quinone, water, unfltrd | Atra-zine, water, unfltrd | Atra-zine, water, unfltrd | Azin-phos-methyl oxon, water, filtrd, | BDE congenr 47, water, unfltrd | |
|------------|--|---------------------------|----------------------------------|-------------------------------|---------------------------|-----------------------------------|-----------------------------|-------------------------------------|---------------------------|---------------------------|---------------------------------------|--------------------------------|-----------------|
| | µg/L (62812) | µg/L (49315) | µg/L (46342) | µg/L (49313) | µg/L (49314) | µg/L (49312) | µg/L (34362) | µg/L (34220) | µg/L (62813) | µg/L (39632) | µg/L (39630) | µg/L (61635) | µg/L (63147) |
| Jun | | | | | | | | | | | | | |
| 14... | <.2 | -- | -- | -- | -- | -- | <.2 | <.2 | -- | -- | 5.6 | -- | <.2 |
| 15... | <.2 | -- | -- | -- | -- | -- | <.2 | <.2 | -- | -- | 5.8 | -- | <.2 |
| 18... | <.2 | <.040 | .018 | <.08 | <.060 | <.12 | <.006 | <.2 | <.2 | 2.25 | 3.3 | <.04 | <.2 |
| 20... | -- | <.040 | .017 | <.08 | <.060 | <.12 | <.006 | -- | -- | 1.86 | -- | <.04 | -- |

05454500 Iowa River at Iowa City, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Bendiocarb, water, filtrd, 0.7u GF (50299) | Ben-flur-alin, water, filtrd, 0.7u GF (82673) | Benomyl water, filtrd, (50300) | Bensulfuron-methyl, water, filtrd, (61693) | Ben-tazon, water, filtrd, 0.7u GF (38711) | Benzo-[a]-pyrene, water, unfiltrd (34247) | Benzo-phenone, water, unfiltrd (62814) | beta-Sitosterol, water, unfiltrd (62815) | beta-Stigmasanol, water, unfiltrd (61948) | Bis(2-ethylhexyl)-phthalate, water, unfiltrd (39100) | Bisphe-nol A, water, unfiltrd (62816) | Bromacil, filtrd, 0.7u GF (04029) | Bromacil, water, unfiltrd (30234) | |
|------------|--|---|---|---|---|--|---|---|--|---|--|--|--|-----|
| Jun | | | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | <.2 | <.2 | <2 | <2 | <2 | <2 | <.4 | -- | <.2 |
| 15... | -- | -- | -- | -- | -- | <.2 | <.2 | <.8 | <.8 | <.8 | <2 | <.4 | -- | <.2 |
| 18... | <.04 | <.010 | <.040 | <.06 | <.04 | <.2 | <.2 | <.8 | <.8 | <2 | <.4 | <.02 | <.2 | |
| 20... | <.04 | <.010 | <.040 | <.06 | <.04 | -- | -- | -- | -- | -- | -- | <.02 | -- | |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Bromoxynil, water, filtrd, 0.7u GF (49311) | Caffeine, water, filtrd, (50305) | Caffeine, water, unfiltrd (81436) | Camphor water, (62817) | Car-baryl, water, filtrd 0.7u GF (49310) | Car-baryl, water, filtrd 0.7u GF (82680) | Car-baryl, water, unfiltrd 0.7u GF (39750) | Carba-zole, water, unfiltrd 0.7u GF (77571) | Carbo-furan, water, filtrd 0.7u GF (49309) | Carbo-furan, water, filtrd 0.7u GF (82674) | Carbo-amben-methyl-ester, water, filtrd 0.7u GF (61188) | Chlorimuron-ethyl, water, filtrd, 0.7u GF (50306) | Chloropyrifos-oxon, water, filtrd, 0.7u GF (61636) | |
|------------|--|---|--|------------------------------|--|--|--|---|--|--|---|---|--|----|
| Jun | | | | | | | | | | | | | | |
| 14... | -- | -- | <.2 | <.2 | -- | -- | <.2 | <.2 | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | <.2 | <.2 | -- | -- | <.2 | <.2 | -- | -- | -- | -- | -- | -- |
| 18... | <.12 | <.060 | <.2 | <.2 | <.04 | <.060 | <.2 | <.2 | <.020 | <.020 | <.10 | <.080 | <.06 | |
| 20... | <.12 | <.060 | -- | -- | <.04 | <.060 | -- | -- | <.020 | <.020 | <.10 | <.080 | <.06 | |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 8 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Chlorpyrifos- water, unfiltrd (38932) | Choles- sterol, water, unfiltrd (62818) | cis-Per- methrin water 0.7u GF (82687) | cis- Propi- conazole, water, filtrd (79846) | Clopyr- alid, water, filtrd 0.7u GF (49305) | Coti- nine, water, unfiltrd (61945) | Cyana- zine, water, filtrd (04041) | Cyclo- ate, water, filtrd (04031) | Cyflu- thrin, water, filtrd (04031) | lambda- Cyhalothrin, water, filtrd (61585) | Cyperi- methrin water, filtrd (61595) | Dacthal- mono- acid, water, filtrd 0.7u GF (61586) | DCPA, water, filtrd 0.7u GF (49304) (82682) | |
|------------|--|---|--|--|--|---|--|---|---|--|---|--|--|----|
| Jun | | | | | | | | | | | | | | |
| 14... | <.2 | <.8 | -- | -- | -- | <.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | <.2 | <.8 | -- | -- | -- | <.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | <.2 | <.8 | <.010 | <.006 | <.06 | <.8 | <.020 | <.02 | <.016 | <.004 | <.014 | <.02 | <.003 | |
| 20... | -- | -- | <.010 | <.006 | <.06 | -- | <.020 | <.02 | <.016 | <.004 | <.014 | <.02 | <.003 | |

05454500 Iowa River at Iowa City, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 9 of 18

[Remark codes: <, less than; E, estimated.]

| Date | DEET, water, unfltrd μg/L (61947) | Desulf- inyl- fipro- nil, water, unfltrd μg/L (62170) | Diazi- non, water, unfltrd μg/L (39572) | Diazi- non, water, unfltrd μg/L (39570) | Dicamba water, filtrd μg/L (38442) | Di- chlor- prop, water, filtrd μg/L (49302) | Di- chlor- vos, water, unfltrd μg/L (30218) | Dicro- tophos, water, filtrd, μg/L (38454) | Diel- drin, water, unfltrd μg/L (39381) | Di- ethyl- phthal- ate, water, filtrd μg/L (34336) | Dimeth- oate, water, filtrd μg/L (82662) | Dinoseb water, filtrd μg/L (49301) | Diphen- amid, water, filtrd μg/L (04033) |
|------------|---|--|--|--|--|---|---|---|--|---|---|--|---|
| Jun | | | | | | | | | | | | | |
| 14... | <.2 | -- | -- | <.2 | -- | -- | <.2 | -- | -- | <.2 | -- | -- | -- |
| 15... | <.2 | -- | -- | <.2 | -- | -- | <.2 | -- | -- | <.2 | -- | -- | -- |
| 18... | <.2 | E.005 | <.005 | <.2 | <.04 | <.02 | <.2 | <.08 | <.009 | <.2 | <.006 | <.04 | <.04 |
| 20... | -- | E.004 | <.005 | -- | <.04 | <.02 | -- | <.08 | <.009 | -- | <.006 | <.04 | <.04 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 10 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Disulf- oton sulfone water, filtrd, 0.7u GF μg/L (61640) | Disul- foton, water, filtrd 0.7u GF μg/L (82677) | Diuron, water, filtrd 0.7u GF μg/L (49300) | D-Limo- nene, water, unfltrd μg/L (62819) | Endo- sulfan sulfate water, filtrd, μg/L (61590) | EPTC, water, filtrd 0.7u GF μg/L (82668) | Ethion monoxon water, filtrd, μg/L (61644) | Ethion, water, filtrd, μg/L (82346) | Etho- prop, water, filtrd 0.7u GF μg/L (82672) | Fenami- phos sulf- oxide, water, filtrd, μg/L (61645) | Fenami- phos sulf- oxide, water, filtrd, μg/L (61646) | Fenami- phos sulf- oxide, water, filtrd, μg/L (61591) | Fenuron water, filtrd 0.7u GF μg/L (49297) |
|------------|---|--|---|--|--|---|---|---|--|--|--|--|---|
| Jun | | | | | | | | | | | | | |
| 14... | -- | -- | -- | <.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | <.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | <.01 | <.04 | E.01 | <.2 | <.022 | <.002 | <.02 | <.006 | <.012 | <.053 | <.20 | <.03 | <.04 |
| 20... | <.01 | <.04 | E.01 | -- | <.022 | <.002 | <.02 | <.006 | <.012 | <.053 | <.20 | <.03 | <.04 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 11 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Desulf- inyl- fipro- nil amide, wat flt μg/L (62169) | Fipro- nil sulfide water, filtrd, μg/L (62167) | Fipro- nil sulfone water, filtrd, μg/L (62168) | Fipro- nil water, filtrd, μg/L (62166) | Flumet- sulam, water, filtrd, μg/L (61694) | Fluo- meturon water, filtrd 0.7u GF μg/L (38811) | Fluor- anthene water, unfltrd μg/L (34376) | Fonofos water, filtrd, μg/L (04095) | HHCB, water, unfltrd μg/L (62823) | Hexa- zinone, water, filtrd, μg/L (04025) | Imaza- quin, water, filtrd, μg/L (50356) | Imaze- thapyr, water, filtrd, μg/L (50407) | Imida- cloprid water, filtrd μg/L (61695) |
|------------|---|--|--|---|---|--|---|---|---|--|---|---|--|
| Jun | | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | <.2 | -- | <.2 | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | <.2 | -- | <.2 | -- | -- | -- | -- |
| 18... | <.029 | E.008 | <.024 | E.009 | E.01 | <.04 | <.2 | <.010 | <.2 | <.008 | <.04 | <.04 | <.060 |
| 20... | <.029 | <.013 | E.006 | E.005 | <.06 | <.04 | -- | <.010 | -- | <.008 | <.04 | <.04 | <.060 |

05454500 Iowa River at Iowa City, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 12 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Indole, water, unfltrd | Ipro- dione, water, fltrd, | Isobor- neol, water, unfltrd | Isofen- phos, water, fltrd, | Iso- phorone water, unfltrd | Iso- quin- oline, water, unfltrd | Mala- xon, water, fltrd, | Mala- thion, water, fltrd, | MCPA, water, 0.7u GF | MCPB, water, 0.7u GF | Menthol water, unfltrd | Meta- laxyl, water, fltrd, | Meta- laxyl, water, fltrd, |
|------------|------------------------------|-------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--|-----------------------------------|-------------------------------------|----------------------------|----------------------------|------------------------------|-------------------------------------|-------------------------------------|
| | μg/L (62824) | μg/L (61593) | μg/L (62825) | μg/L (61594) | μg/L (34408) | μg/L (62826) | μg/L (61652) | μg/L (39532) | μg/L (38482) | μg/L (38487) | μg/L (62827) | μg/L (50359) | μg/L (61596) |
| Jun | | | | | | | | | | | | | |
| 14... | <.2 | -- | <.2 | -- | <.2 | <.2 | -- | -- | -- | -- | <.2 | -- | -- |
| 15... | <.2 | -- | <.2 | -- | <.2 | <.2 | -- | -- | -- | -- | <.2 | -- | -- |
| 18... | <.2 | <.01 | <.2 | <.006 | <.2 | <.2 | <.020 | <.016 | <.06 | <.06 | <.2 | <.02 | E.009 |
| 20... | -- | <.01 | -- | <.006 | -- | -- | <.020 | <.016 | <.06 | <.06 | -- | <.02 | .007 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 13 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Metal- axyl, water, unfltrd | Methid- athion, water, fltrd | Methio- carb, water, 0.7u GF | Meth- omyl, water, 0.7u GF | Methyl para- oxon, water, fltrd | Methyl para- oxon, water, 0.7u GF | Methyl thion, water, fltrd | Methyl salicy- late, water, unfltrd | Metola- chlor, water, fltrd, | Metola- chlor, water, unfltrd | Metri- buzin, water, fltrd, | Metsul- furon- methyl, water, 0.7u GF | Moli- nate, water, fltrd, | Myclo- butanil water, fltrd, |
|------------|--------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|---|---|-------------------------------------|---|---------------------------------------|--|--------------------------------------|---|------------------------------------|---------------------------------------|
| | μg/L (04254) | μg/L (61598) | μg/L (38501) | μg/L (49296) | μg/L (61664) | μg/L (82667) | μg/L (62828) | μg/L (39415) | μg/L (82612) | μg/L (82630) | μg/L (61697) | μg/L (82671) | μg/L (61599) | |
| Jun | | | | | | | | | | | | | | |
| 14... | <.2 | -- | -- | -- | -- | -- | <.2 | -- | 2.2 | -- | -- | -- | -- | -- |
| 15... | <.2 | -- | -- | -- | -- | -- | <.2 | -- | 2.4 | -- | -- | -- | -- | -- |
| 18... | <.2 | <.004 | <.040 | <.120 | <.01 | <.008 | <.2 | 2.44 | 1.9 | .014 | <.14 | <.003 | <.010 | |
| 20... | -- | <.004 | <.040 | <.120 | <.01 | <.008 | -- | 2.26 | -- | .014 | <.14 | <.003 | <.010 | |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 14 of 18

[Remark codes: <, less than; E, estimated.]

| Date | N-(4- Chloro- phenyl) -N'- methyl- urea, water, 0.7u GF | Neburon water, fltrd | Nico- sul- furone, water, fltrd | Norflur water, 0.7u GF | Ory- azin, water, fltrd | Oxamyl, water, 0.7u GF | Oxy- fluor- fen, water, fltrd | p- Cresol, water, unfltrd | Pendi- meth- alin, water, 0.7u GF | Penta- chloro- phenol, water, unfltrd | Phenan- threne, water, unfltrd | Phenol, water, unfltrd | Phorate water, fltrd, |
|------------|--|----------------------------|---|------------------------------|----------------------------------|------------------------------|---|------------------------------------|---|---|---|------------------------------|-----------------------------|
| | μg/L (61692) | μg/L (49294) | μg/L (50364) | μg/L (49293) | μg/L (49292) | μg/L (38866) | μg/L (61600) | μg/L (77146) | μg/L (82683) | μg/L (39032) | μg/L (34461) | μg/L (34694) | μg/L (61666) |
| Jun | | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | <.2 | -- | <.8 | <.2 | <.2 | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | <.2 | -- | <.8 | <.2 | <.2 | -- |
| 18... | <.12 | <.02 | <.10 | <.02 | <.04 | <.12 | <.006 | <.2 | <.012 | <.8 | <.2 | <.2 | <.03 |
| 20... | <.12 | <.02 | <.10 | <.02 | <.04 | <.12 | <.006 | -- | <.012 | -- | -- | -- | <.03 |

05454500 Iowa River at Iowa City, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 15 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Phorate water, 0.7u GF (82664) | Phosmet oxon, filtrd, (61668) | Phosmet water, filtrd, (61601) | Picloram, water, 0.7u GF (49291) | Prometon, water, filtrd, (04037) | Prometon, water, unfiltrd, (39056) | Prometryn, water, filtrd, (04036) | Propyzamide, water, 0.7u GF (82676) | Propanil, water, filtrd, (82679) | Propargite, water, 0.7u GF (82685) | Propham, water, filtrd, (49236) | Propiconazole, water, filtrd, (50471) | Propoxur, water, filtrd, (38538) |
|------------|--------------------------------------|-------------------------------------|--------------------------------------|--|--|--|---|---|--|--|---------------------------------------|---|--|
| Jun | | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | <.2 | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | <.2 | -- | -- | -- | -- | -- | -- | -- |
| 18... | <.040 | <.05 | <.008 | <.12 | E.01 | <.2 | <.006 | <.004 | <.006 | <.04 | <.040 | <.04 | <.040 |
| 20... | <.040 | <.05 | <.008 | <.12 | E.01 | -- | <.006 | <.004 | <.006 | <.04 | <.040 | <.04 | <.040 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 16 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Pyrene, water, unfiltrd (34469) | Siduron water, filtrd, (38548) | Simazine, water, filtrd, (04035) | Sulfo-metururon-methyl, water, (50337) | Tebuthiuron water, 0.7u GF (82670) | Tefluthrin, water, filtrd, (61606) | Terbacil, water, filtrd, (04032) | Terbufos, water, 0.7u GF (61674) | Terbufos, water, filtrd, (82675) | Terbutylazine, water, filtrd, (04022) | Thiobencarb, water, 0.7u GF (82681) | Propiconazole, water, filtrd, (79847) | tributylphosphorus, water, filtrd, (61610) |
|------------|---------------------------------------|--------------------------------------|--|---|--|--|--|--|--|---|---|---|--|
| Jun | | | | | | | | | | | | | |
| 14... | <.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | <.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | <.2 | <.02 | .014 | <.060 | <.02 | <.003 | <.040 | <.04 | <.02 | E.01 | <.010 | <.02 | <.035 |
| 20... | -- | <.02 | .014 | <.060 | <.02 | <.003 | <.040 | <.04 | <.02 | E.01 | <.010 | <.02 | <.035 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 17 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Tri-butyl phosphate, water, unfiltrd (62832) | Tri-clopyr, water, filtrd (49235) | Tri-closan, water, unfiltrd (61708) | Tri-ethyl citrate, water, unfiltrd (62833) | Tri-fluoromethane, water, 0.7u GF (82661) | Tri-phenyl phosphate, water, unfiltrd (62834) | Tris(2-butoxyethyl) phosphate, water, unfiltrd (62830) | Tris(2-chloroethyl) phosphate, water, unfiltrd (62831) | Tris(diCI-i-Pr) phosphate, water, unfiltrd (61707) | 1,4-Dichlorobenzene, water, unfiltrd (34571) | Tri-bromomethane, water, unfiltrd (32104) | Iso-propylbenzene, water, unfiltrd (77223) | Naphthalene, water, unfiltrd (34696) |
|------------|--|---|---|--|---|---|--|--|--|--|---|--|--|
| Jun | | | | | | | | | | | | | |
| 14... | <.2 | -- | <.2 | <.2 | -- | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 |
| 15... | <.2 | -- | <.2 | <.2 | -- | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 |
| 18... | <.2 | <.08 | <.2 | <.2 | <.009 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 |
| 20... | -- | <.08 | -- | -- | <.009 | -- | -- | -- | -- | -- | -- | -- | -- |

05454500 Iowa River at Iowa City, IA—Continued

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008**

Part 18 of 18

[Remark codes: <, less than; E, estimated.]

| Date | Tetra- | Di- | Sus- |
|-------|------------|---------|----------|
| | chloro- | chlor- | pend- |
| | ethene, | vos, | sediment |
| | water, | water, | concen- |
| | unfiltrd | filtrd, | tration |
| | μg/L | μg/L | mg/L |
| | (34475) | (38775) | (80154) |
| | Jun | | |
| 14... | <.4 | -- | 145 |
| 15... | <.4 | -- | 53 |
| 18... | <.4 | <.01 | 93 |
| 20... | -- | <.01 | 488 |