

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA

LOCATION.--Lat 46°15'13", long 119°28'37", in SE^{1/4}NE^{1/4} sec.19, T.9 N., R.27 E., Benton County. Hydrologic Unit 17030003, on left bank just upstream from abandoned highway bridge pier at Kiona, 0.1 mi upstream from highway bridge, 3.6 mi downstream from Corral Canyon Creek, 5.0 mi downstream from intake of Kiona Canal, and at mile 29.9.

DRAINAGE AREA.--5,615 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August to December 1895 (gage heights only, fragmentary), August 1896 to March 1915, February 1933 to current year. Monthly discharge only 1887 to 1933, published in WSP 1316 and are available at the Pasco, Washington, field office.

REVISED RECORDS.--WSP 214: 1905. WSP 1122: 1934(M). WSP 1216: 1949-50. WSP 1286: 1907(M), 1909, 1936. WSP 1933: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 454.41 ft above NGVD of 1929. Prior to Mar. 31, 1915, nonrecording gages at approximately same site and datum. Feb. 6, 1933, to July 26, 1934, nonrecording gage at present site and datum.

REMARKS.--Records poor. Diversion upstream from station for irrigation of about 424,000 acres. Flow affected by diversions and by Keechelus, Kachess, Cle Elum, Bumping, and Rimrock Lakes. The Kiona Canal bypasses station with a mean flow of approximately 23 ft³/s for irrigation of about 1,100 acres downstream from station. Diversion by the Kennewick Canal, which bypasses station, began in August 1956, and diverts about 96,000 acre-ft per year. Bureau of Reclamation satellite telemeter at station.

AVERAGE DISCHARGE.--72 years (water years 1934-2005), 3,493 ft³/s, 2,531,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,000 ft³/s, Dec. 23, 1933, gage height, 21.57 ft, from high-water marks; minimum discharge observed, 105 ft³/s, Sept. 11, 1906.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,000 ft³/s, Jan. 20, gage height, 9.98 ft; minimum discharge, 507 ft³/s, July 21, 22.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 1,910 | 2,630 | 2,460 | 2,230 | 3,710 | 1,900 | 1,450 | 1,590 | 908 | 753 | 620 | 1,280 |
| 2 | 2,070 | 2,650 | 2,460 | 2,200 | 3,570 | 1,940 | 1,230 | 1,410 | 870 | 767 | 709 | 1,300 |
| 3 | 2,160 | 2,620 | 2,380 | 2,120 | 3,410 | 1,920 | 1,270 | 1,290 | 951 | 766 | 786 | 1,420 |
| 4 | 2,040 | 2,800 | 2,280 | 2,060 | 3,290 | 1,910 | 1,450 | 1,110 | 935 | 822 | 834 | 1,310 |
| 5 | 1,880 | 3,130 | 2,230 | 1,970 | 3,130 | 1,850 | 1,350 | 949 | 803 | 900 | 792 | 1,190 |
| 6 | 1,760 | 3,020 | 2,200 | 1,760 | 3,070 | 1,820 | 1,200 | 902 | 750 | 924 | 772 | 1,360 |
| 7 | 1,730 | 2,900 | 2,200 | 1,620 | 3,030 | 1,820 | 1,210 | 963 | 820 | 841 | 737 | 1,640 |
| 8 | 1,700 | 2,780 | 2,190 | 1,840 | 2,940 | 1,810 | 1,320 | 935 | 1,090 | 817 | 753 | 1,400 |
| 9 | 1,790 | 2,690 | 2,180 | 2,010 | 2,830 | 1,830 | 1,370 | 849 | 1,350 | 846 | 819 | 1,240 |
| 10 | 1,930 | 2,630 | 2,200 | 2,010 | 2,690 | 1,860 | 1,310 | 970 | e1,600 | 919 | 854 | 1,260 |
| 11 | 2,080 | 2,560 | 2,200 | 1,950 | 2,640 | 1,900 | 1,300 | 2,300 | e1,620 | 1,070 | 828 | 1,300 |
| 12 | 2,060 | 2,490 | 3,320 | 1,900 | 2,570 | 1,910 | 1,260 | 3,510 | e1,280 | 1,040 | 822 | 1,590 |
| 13 | 1,960 | 2,440 | 4,720 | 1,770 | 2,540 | 1,890 | 1,210 | 3,070 | 1,080 | 1,030 | 830 | 1,810 |
| 14 | 1,810 | 2,390 | 4,220 | e1,700 | 2,490 | 1,910 | 1,020 | 2,620 | 985 | 888 | 1,030 | 1,600 |
| 15 | 1,880 | 2,360 | 3,740 | e1,600 | 2,420 | 1,730 | 900 | 2,220 | 913 | 801 | 1,130 | 1,310 |
| 16 | 2,630 | 2,340 | 3,420 | e1,500 | 2,350 | 1,550 | 810 | 2,160 | 794 | 736 | 1,170 | 1,200 |
| 17 | 3,050 | 2,280 | 3,220 | 1,460 | 2,210 | 1,600 | 880 | 2,290 | 777 | 728 | 1,010 | 1,190 |
| 18 | 2,710 | 2,230 | 3,010 | 1,500 | 2,150 | 1,590 | 1,110 | 2,270 | 810 | 723 | 955 | 1,320 |
| 19 | 2,850 | 2,220 | 2,870 | 2,660 | 2,130 | 1,500 | 1,150 | 2,090 | 832 | 685 | 937 | 1,410 |
| 20 | 3,240 | 2,190 | 2,770 | 8,860 | 2,130 | 1,460 | 1,000 | 2,020 | 872 | 753 | 965 | 1,500 |
| 21 | 3,350 | 2,160 | 2,740 | 9,330 | 2,130 | 1,450 | 867 | 2,030 | 937 | 629 | 903 | 1,390 |
| 22 | 3,720 | 2,130 | 2,720 | 8,080 | 2,120 | 1,180 | 819 | 1,990 | 802 | 563 | 882 | 1,260 |
| 23 | 3,480 | 2,120 | 2,660 | 7,230 | 2,070 | 939 | 774 | 1,920 | 732 | 716 | 909 | 1,270 |
| 24 | 3,380 | 2,130 | 2,580 | 6,660 | 2,020 | 941 | 1,080 | 1,850 | 724 | 906 | 883 | 1,200 |
| 25 | 3,240 | 2,130 | 2,490 | 6,320 | 2,000 | 886 | 1,480 | 1,410 | 749 | 1,120 | 858 | 1,190 |
| 26 | 3,190 | 2,180 | 2,460 | 5,810 | 1,990 | 813 | 2,090 | 1,060 | 755 | 1,100 | 980 | 1,220 |
| 27 | 3,110 | 2,490 | 2,430 | 5,380 | 1,950 | 885 | 2,300 | 834 | 759 | 1,050 | 1,030 | 1,150 |
| 28 | 3,020 | 2,690 | 2,370 | 4,890 | 1,930 | 1,110 | 2,470 | 741 | 763 | 947 | 1,050 | 1,130 |
| 29 | 2,940 | 2,620 | 2,340 | 4,460 | --- | 1,570 | 2,540 | 745 | 825 | 768 | 1,040 | 1,070 |
| 30 | 2,870 | 2,520 | 2,300 | 4,120 | --- | 1,780 | 2,210 | 807 | 830 | 678 | 1,250 | 1,200 |
| 31 | 2,720 | --- | 2,280 | 3,890 | --- | 1,600 | --- | 855 | --- | 599 | 1,290 | --- |
| TOTAL | 78,260 | 74,520 | 83,640 | 110,890 | 71,510 | 48,854 | 40,430 | 49,760 | 27,916 | 25,885 | 28,428 | 39,710 |
| MEAN | 2,525 | 2,484 | 2,698 | 3,577 | 2,554 | 1,576 | 1,348 | 1,605 | 931 | 835 | 917 | 1,324 |
| MAX | 3,720 | 3,130 | 4,720 | 9,330 | 3,710 | 1,940 | 2,540 | 3,510 | 1,620 | 1,120 | 1,290 | 1,810 |
| MIN | 1,700 | 2,120 | 2,180 | 1,460 | 1,930 | 813 | 774 | 741 | 724 | 563 | 620 | 1,070 |
| AC-FT | 155,200 | 147,800 | 165,900 | 220,000 | 141,800 | 96,900 | 80,190 | 98,700 | 55,370 | 51,340 | 56,390 | 78,760 |
| CFSM | 0.45 | 0.44 | 0.48 | 0.64 | 0.45 | 0.28 | 0.24 | 0.29 | 0.17 | 0.15 | 0.16 | 0.24 |
| IN. | 0.52 | 0.49 | 0.55 | 0.73 | 0.47 | 0.32 | 0.27 | 0.33 | 0.18 | 0.17 | 0.19 | 0.26 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 2,257 | 2,850 | 3,949 | 3,959 | 4,503 | 4,612 | 4,641 | 5,164 | 4,758 | 1,914 | 1,578 | 1,825 |
| MAX | 4,252 | 6,293 | 17,330 | 14,100 | 17,570 | 16,750 | 13,190 | 13,930 | 16,470 | 5,398 | 2,333 | 2,549 |
| (WY) | (1950) | (1960) | (1934) | (1934) | (1996) | (1972) | (1956) | (1997) | (1948) | (1954) | (1976) | (1978) |
| MIN | 1,021 | 1,462 | 1,546 | 1,335 | 1,163 | 486 | 493 | 902 | 869 | 598 | 751 | 784 |
| (WY) | (1980) | (1988) | (1936) | (1937) | (1977) | (1977) | (1977) | (1977) | (1994) | (1994) | (1979) | (1979) |

12510500 YAKIMA RIVER AT KIONA, WA—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | FOR 2005 WATER YEAR | WATER YEARS 1934 - 2005 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 934,196 | 679,803 | |
| ANNUAL MEAN | 2,552 | 1,862 | |
| HIGHEST ANNUAL MEAN | | | 3,493 |
| LOWEST ANNUAL MEAN | | | 7,055 |
| HIGHEST DAILY MEAN | 5,940 | Mar 12 | 1,293 |
| LOWEST DAILY MEAN | 686 | Jun 24 | 1956 |
| ANNUAL SEVEN-DAY MINIMUM | 861 | Jun 20 | 1977 |
| ANNUAL RUNOFF (AC-FT) | 1,853,000 | 1,348,000 | 59,400 |
| ANNUAL RUNOFF (CFSM) | 0.455 | 0.332 | Dec 24, 1933 |
| ANNUAL RUNOFF (INCHES) | 6.19 | 4.50 | 225 |
| 10 PERCENT EXCEEDS | 4,460 | 3,040 | 8.45 |
| 50 PERCENT EXCEEDS | 2,360 | 1,640 | 7,130 |
| 90 PERCENT EXCEEDS | 1,310 | 805 | 2,400 |
| | | | 1,350 |

e Estimated

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA

National Water-Quality Assessment Station

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-94, 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1952 to September 1969 (composite samples), October 1969 to September 1977, July 1999 to June 2000, February 2001 to current year.

pH: April 2001 to current year.

WATER TEMPERATURE: December 1952 to September 1980, March 1981 to February 1982, July 1999 to June 2000, October 2000 to current year.

DISSOLVED OXYGEN: April 2004 to current year.

CHLOROPHYL: April 2004 to current year.

SUSPENDED SEDIMENT: June 1977 to October 1980.

TURBIDITY: April 2004 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1999. Electronic data logger, with 15-minute logging interval. Bureau of Reclamation satellite telemeter at station.

REMARKS.--Specific Conductance: Water year 2005--records excellent except for Nov. 5-9, Dec. 13-21, Dec. 29 to Feb. 3, Feb. 16 to Apr. 7, July 23-26, which are good; and Jan. 20-Feb. 10, which are fair. pH: April to September 2004--records good; rating was downgraded due to insufficient quality-control checks. Water year 2005--records excellent except for Apr. 22-25 and July 15-23, which are good; Jan. 20-Feb. 10 and July 24-26, which are fair. Water Temperature: Water year 2005--records excellent. Dissolved Oxygen: April to September 2004--records good except for May 1-6, July 23-24, and Aug. 9-11, which are fair; May 7-13, July 25-Aug. 3, and Aug. 12-20, which are poor. Water year 2005--records good except for Oct. 4-7, 28-30, Nov. 11-12, Nov. 21-Dec. 1, Dec. 11-22, Jan. 3-19, Feb. 1-10, Mar. 2-11, 19-30, Apr. 1-3, 15-18, Apr. 26-May 1, May 18-22, June 14-15, July 3-9, 15-19, 29-31, Aug. 1-3, 13-18, 25-30, and Sept. 28-30, which are fair; Oct. 8-17, Oct. 31-Nov. 4, Apr. 4-13, 19-25, May 2-11, 23-31, June 16-19, July 10-13, 20-26, Aug. 4-10, 19-24, and Aug. 31-Sept. 12, which are poor. Turbidity: April to September 2004--records fair; rating was downgraded due to insufficient quality-control checks. Water year 2005--records good except Apr. 25-May 21 and July 14-Sept. 30, which are fair; and Jan. 20 and May 22-July 13, which are poor. Chlorophyll: April to September 2004--records are poor due to insufficient quality-control data and lack of laboratory chlorophyll data for post calibrations. Water year 2005--records are good except Oct. 1-Nov. 28, which are fair; and Jan. 20-Feb. 10, which are poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum observed, 675 microsiemens, Dec. 3, 1970; minimum recorded, 82 microsiemens, June 17, 2002.

pH: Maximum recorded, 9.7 units, May 30-31, June 2-3, July 24-25, 27-28, 2005; minimum recorded, 7.5 units, Jan. 20-22, 24, 2005.

WATER TEMPERATURE: Maximum, 30.8°C, July 20, 2001; minimum, 0.0°C, several days during winter months most years.

DISSOLVED OXYGEN: Maximum recorded, 15.8 mg/L, Jan. 16 and May 30, 2005; minimum recorded, 2.4 mg/L, July 6, 2004.

TURBIDITY: Maximum recorded, 420 FNU, Apr. 22, 24, 2004, but may have been greater during periods of missing record; minimum recorded, <1 FNU many days during period of record.

CHLOROPHYLL: Maximum recorded, 28 units, Jan. 20, 2005; minimum recorded, <0.1 units, June 26, 2004.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE: Water year 2005--Maximum recorded, 312 microsiemens, Mar. 22; minimum recorded, 99 microsiemens, Jan. 21.

pH: April to September 2004--Maximum recorded, 9.2 units, June 2, 20-24; minimum recorded, 7.5 units, July 6, 21, and Aug. 9.

pH: Water year 2005--Maximum recorded, 9.7 units, May 30-31, June 2-3, July 24-25, 27-28; minimum recorded, 7.5 units, Jan. 20-22, 24.

WATER TEMPERATURE: Water year 2005--Maximum recorded, 28.1°C, July 31; minimum recorded, 0.0°C, Jan. 15-16.

DISSOLVED OXYGEN: April to September 2004--Maximum recorded, 14.8 mg/L, June 16; minimum recorded, 2.4 mg/L, July 6.

DISSOLVED OXYGEN: Water year 2005--Maximum recorded, 15.8 mg/L, Jan. 16 and May 30; minimum recorded, 3.0 mg/L, July 22 and Aug. 1.

TURBIDITY: April to September 2004--Maximum recorded, 420 FNU, Apr. 22, 24; minimum recorded, <1 FNU, many days throughout year.

TURBIDITY: Water year 2005--Maximum recorded, >250 FNU, Jan. 20, but may have been greater during periods of missing record; minimum recorded, <1 FNU, many days throughout year.

CHLOROPHYLL: April to September 2004--Maximum recorded, 11 units, Aug. 21; minimum recorded, <0.1 units, June 26.

CHLOROPHYLL: Water year 2005--Maximum recorded, 28 units, Jan. 20; minimum recorded, 0.3 units, Feb. 16.

YAKIMA RIVER BASIN

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12510500 YAKIMA RIVER AT KIONA, WA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR APRIL 2004 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN |
|-----|----------|-----|--------|-------|-----|--------|--------|-----|--------|-----------|-----|--------|
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.1 | 7.9 | 8.7 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.0 | 7.8 | 8.6 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.9 | 7.8 | 8.4 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.6 | 7.8 | 8.3 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.4 | 7.8 | 8.0 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.2 | 7.7 | 7.9 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.3 | 7.7 | 7.9 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.3 | 7.7 | 7.9 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.5 | 7.7 | 7.9 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.2 | 7.6 | 7.9 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.3 | 7.7 | 7.9 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.7 | 7.8 | 8.2 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.8 | 7.8 | 8.1 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.8 | 7.7 | 8.3 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.7 | 7.8 | 8.1 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.8 | 7.8 | 8.3 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.9 | 7.8 | 8.3 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.8 | 7.8 | 8.2 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.9 | 7.8 | 8.4 |
| 20 | --- | --- | --- | --- | --- | 8.6 | --- | --- | --- | 8.9 | 7.7 | 8.3 |
| 21 | --- | --- | --- | --- | --- | 8.5 | 7.9 | 8.3 | 8.8 | 7.7 | 8.4 | |
| 22 | --- | --- | --- | --- | --- | 8.7 | 7.9 | 8.3 | 8.9 | 7.7 | 8.3 | |
| 23 | --- | --- | --- | --- | --- | 8.7 | 7.9 | 8.4 | 8.6 | 7.7 | 8.1 | |
| 24 | --- | --- | --- | --- | --- | 8.9 | 7.9 | 8.4 | 8.8 | 7.7 | 8.1 | |
| 25 | --- | --- | --- | --- | --- | 9.0 | 8.2 | 8.7 | 8.8 | 7.7 | 8.2 | |
| 26 | --- | --- | --- | --- | --- | 9.0 | 8.2 | 8.8 | 8.8 | 7.7 | 8.0 | |
| 27 | --- | --- | --- | --- | --- | 8.9 | 8.4 | 8.8 | 9.0 | 7.7 | 8.3 | |
| 28 | --- | --- | --- | --- | --- | 9.0 | 8.3 | 8.8 | 8.8 | 7.7 | 8.2 | |
| 29 | --- | --- | --- | --- | --- | 9.1 | 8.1 | 8.8 | 8.9 | 7.8 | 8.2 | |
| 30 | --- | --- | --- | --- | --- | 9.1 | 7.9 | 8.7 | 8.9 | 7.7 | 8.3 | |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | 9.0 | 7.7 | 8.4 | |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | 9.1 | 7.9 | 8.7 | |
| MIN | --- | --- | --- | --- | --- | --- | --- | --- | 8.2 | 7.6 | 7.9 | |
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 9.1 | 7.7 | 8.6 | 9.1 | 7.6 | 8.4 | 8.8 | 7.9 | 8.4 | --- | --- | --- |
| 2 | 9.2 | 7.7 | 8.7 | 9.1 | 7.7 | 8.6 | 8.7 | 7.8 | 8.2 | --- | --- | --- |
| 3 | --- | 7.8 | --- | 8.9 | 7.8 | 8.5 | 8.8 | 7.8 | 8.5 | 8.7 | --- | --- |
| 4 | --- | --- | --- | 8.9 | 7.8 | 8.3 | 8.7 | 7.8 | 8.2 | 8.8 | 7.9 | 8.2 |
| 5 | --- | --- | --- | 8.8 | 7.6 | 8.2 | 8.6 | 7.7 | 8.1 | 8.8 | 7.9 | 8.3 |
| 6 | --- | --- | --- | 8.9 | 7.5 | 8.2 | 8.4 | 7.7 | 8.0 | 8.8 | 7.9 | 8.4 |
| 7 | 9.1 | --- | --- | 9.0 | 7.7 | 8.5 | 8.6 | 7.7 | 8.1 | 8.8 | 7.9 | 8.4 |
| 8 | 8.6 | 7.7 | 8.1 | 9.0 | 7.9 | 8.5 | 8.4 | 7.6 | 7.9 | 8.8 | 7.9 | 8.4 |
| 9 | 8.6 | 7.6 | 7.8 | 9.0 | 7.9 | 8.6 | 8.7 | 7.5 | 8.1 | --- | 7.9 | --- |
| 10 | 8.8 | 7.6 | 8.1 | 8.9 | 7.9 | 8.5 | 8.7 | 7.7 | 8.2 | --- | --- | --- |
| 11 | 8.8 | 7.6 | 8.1 | 9.0 | 7.8 | 8.5 | 8.8 | 7.7 | 8.3 | --- | --- | --- |
| 12 | 8.8 | 7.6 | 8.2 | 9.0 | 7.8 | 8.5 | 8.8 | 7.7 | 8.3 | --- | --- | --- |
| 13 | 8.9 | 7.6 | 8.3 | 9.0 | 7.9 | 8.5 | 8.8 | 7.8 | 8.3 | --- | --- | --- |
| 14 | 8.9 | 7.6 | 8.4 | 8.9 | 7.8 | 8.5 | 8.5 | 7.8 | 8.1 | --- | --- | --- |
| 15 | 9.0 | 7.7 | 8.4 | 8.9 | 7.9 | 8.5 | 8.8 | 7.7 | 8.3 | --- | --- | --- |
| 16 | 9.1 | 7.7 | 8.5 | 9.0 | 7.9 | 8.4 | 8.8 | 7.8 | 8.2 | --- | --- | --- |
| 17 | 9.1 | 7.7 | 8.5 | 8.9 | 7.8 | 8.4 | 8.8 | 7.8 | 8.3 | 8.8 | --- | --- |
| 18 | 9.1 | 7.7 | 8.6 | 8.8 | 7.8 | 8.3 | 8.8 | 7.8 | 8.3 | 8.9 | 8.0 | 8.4 |
| 19 | 9.1 | 7.8 | 8.6 | 8.8 | 7.7 | 8.1 | 8.8 | 7.8 | 8.3 | 8.9 | 8.0 | 8.5 |
| 20 | 9.2 | 7.8 | 8.7 | 8.8 | 7.7 | 8.2 | 8.7 | 7.8 | 8.4 | 8.9 | 8.1 | 8.5 |
| 21 | 9.2 | 7.8 | 8.6 | 8.7 | 7.5 | 8.1 | 8.6 | 7.8 | 8.3 | 9.0 | 8.1 | 8.5 |
| 22 | 9.2 | 7.8 | 8.6 | 8.7 | 7.6 | 8.1 | 8.3 | 7.8 | 8.1 | 9.0 | 8.1 | 8.5 |
| 23 | 9.2 | 7.8 | 8.7 | 8.7 | 7.6 | 8.2 | --- | 7.7 | --- | 9.0 | 8.1 | 8.6 |
| 24 | 9.2 | 8.0 | 8.9 | 8.8 | 7.6 | 8.1 | --- | --- | --- | 9.0 | 8.1 | 8.5 |
| 25 | 9.1 | 7.7 | 8.5 | 8.8 | 7.6 | 8.2 | --- | --- | --- | 9.0 | 8.0 | 8.5 |
| 26 | 9.0 | 7.7 | 8.3 | 8.8 | 7.7 | 8.4 | --- | --- | --- | 9.0 | 8.0 | 8.5 |
| 27 | 9.0 | 7.6 | 8.3 | 8.8 | 7.8 | 8.4 | --- | --- | --- | 8.9 | 8.0 | 8.4 |
| 28 | 9.0 | 7.6 | 8.3 | 8.8 | 7.9 | 8.4 | --- | --- | --- | 8.9 | 7.9 | 8.4 |
| 29 | 9.0 | 7.6 | 8.3 | 8.8 | 7.9 | 8.4 | --- | --- | --- | 8.9 | 7.9 | 8.4 |
| 30 | 9.0 | 7.6 | 8.3 | 8.9 | 7.9 | 8.4 | --- | --- | --- | 8.9 | 7.9 | 8.4 |
| 31 | --- | --- | --- | 8.8 | 7.9 | 8.4 | --- | --- | --- | --- | --- | --- |
| MAX | --- | --- | --- | 9.1 | 7.9 | 8.6 | --- | --- | --- | --- | --- | --- |
| MIN | --- | --- | --- | 8.7 | 7.5 | 8.1 | --- | --- | --- | --- | --- | --- |

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR APRIL 2004 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|-----|------|-------|-----|------|--------|------|------|-----------|-----|------|
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 13.8 | 8.6 | 10.6 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.9 | 7.7 | 10.1 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.1 | 7.5 | 9.5 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.0 | 7.7 | 9.0 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.8 | 8.1 | 9.2 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.5 | 8.6 | 9.4 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.9 | 8.8 | 9.6 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.3 | 8.7 | 9.7 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.6 | 8.7 | 9.9 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.6 | 8.2 | 9.3 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.9 | 8.6 | 9.6 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.1 | 9.1 | 10.5 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.8 | 8.6 | 10.4 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.6 | 8.0 | 10.1 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.2 | 7.5 | 9.4 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 13.0 | 7.8 | 10.0 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.8 | 7.7 | 10 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.3 | 7.6 | 9.5 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 13.0 | 7.8 | 10.1 |
| 20 | --- | --- | --- | --- | --- | --- | 11.9 | --- | --- | 13.0 | 7.5 | 9.7 |
| 21 | --- | --- | --- | --- | --- | --- | 12.1 | 10.1 | 11.0 | 12.3 | 7.3 | 9.5 |
| 22 | --- | --- | --- | --- | --- | --- | 12.5 | 9.9 | 11.1 | 11.8 | 7.1 | 9.1 |
| 23 | --- | --- | --- | --- | --- | --- | 12.4 | 9.5 | 10.9 | 11.0 | 7.4 | 8.9 |
| 24 | --- | --- | --- | --- | --- | --- | 13.2 | 9.8 | 11.3 | 11.9 | 7.8 | 9.4 |
| 25 | --- | --- | --- | --- | --- | --- | 13.2 | 9.4 | 11.2 | 12.2 | 7.8 | 9.5 |
| 26 | --- | --- | --- | --- | --- | --- | 13.4 | 9.0 | 11.0 | 12.4 | 7.4 | 9.2 |
| 27 | --- | --- | --- | --- | --- | --- | 13.1 | 8.2 | 10.3 | 13.5 | 7.4 | 9.9 |
| 28 | --- | --- | --- | --- | --- | --- | 13.5 | 8.7 | 11.0 | 12.7 | 7.4 | 9.7 |
| 29 | --- | --- | --- | --- | --- | --- | 13.3 | 9.0 | 10.9 | 12.7 | 7.9 | 10 |
| 30 | --- | --- | --- | --- | --- | --- | 13.0 | 8.8 | 10.7 | 12.4 | 8.0 | 9.9 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 13.6 | 8.0 | 10.4 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 13.8 | 7.1 | 9.7 |
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 14.2 | 7.4 | 10.4 | 13.3 | 4.5 | 8.8 | 10.9 | 4.8 | 7.7 | --- | --- | --- |
| 2 | 14.6 | 6.9 | 10.4 | 13.6 | 4.3 | 8.8 | 10.2 | 4.7 | 7.2 | --- | --- | --- |
| 3 | --- | 6.3 | --- | 12.1 | 4.3 | 8.1 | 11.2 | 4.9 | 7.9 | 12.2 | --- | --- |
| 4 | --- | --- | --- | 11.6 | 3.9 | 7.5 | 10.7 | 4.4 | 7.2 | 12.6 | 7.0 | 9.5 |
| 5 | --- | --- | --- | 10.2 | 3.0 | 6.4 | 10.4 | 3.8 | 6.9 | 13.3 | 7.1 | 9.7 |
| 6 | --- | --- | --- | 12.5 | 2.4 | 7.3 | 9.3 | 5.3 | 7.1 | 13.0 | 7.2 | 9.7 |
| 7 | 14.6 | --- | --- | 13.4 | 5.0 | 9.0 | 10.9 | 5.5 | 7.9 | 13.2 | 7.1 | 9.7 |
| 8 | 11.6 | 6.5 | 8.7 | 13.6 | 5.6 | 9.4 | 9.8 | 5.1 | 7.2 | 12.9 | 7.0 | 9.6 |
| 9 | 12.4 | 7.3 | 9.1 | 13.5 | 5.5 | 9.3 | 11.1 | 4.6 | 7.7 | 12.5 | 6.8 | 9.5 |
| 10 | 13.0 | 7.9 | 10.0 | 12.7 | 5.4 | 8.9 | 11.4 | 6.0 | 8.4 | 13.3 | 7.0 | 9.8 |
| 11 | 13.2 | 7.8 | 10 | 12.9 | 5.3 | 8.8 | 11.8 | 5.7 | 8.5 | 12.2 | 6.8 | 9.1 |
| 12 | 12.9 | 7.6 | 9.9 | 13.4 | 4.5 | 8.4 | 11.8 | 5.5 | 8.4 | 11.8 | 7.1 | 9.4 |
| 13 | 12.8 | 7.1 | 9.7 | 12.9 | 5.2 | 8.7 | 11.9 | 5.5 | 8.4 | 12.0 | 7.3 | 9.3 |
| 14 | 14.0 | 7.1 | 10.2 | 12.5 | 4.7 | 8.4 | 10.3 | 5.3 | 7.6 | 13.0 | 7.5 | 9.9 |
| 15 | 14.3 | 6.9 | 10.3 | 12.1 | 4.4 | 8.1 | 12.0 | 5.7 | 8.6 | 12.8 | 7.5 | 9.8 |
| 16 | 14.8 | 6.7 | 10.4 | 12.1 | 4.3 | 7.9 | 11.9 | 5.7 | 8.5 | 13.1 | 7.6 | 10.1 |
| 17 | 14.6 | 6.1 | 10.1 | 11.3 | 3.7 | 7.4 | 11.9 | 5.6 | 8.5 | --- | 7.7 | --- |
| 18 | 14.7 | 5.7 | 10.1 | 10.8 | 3.5 | 7.1 | 12.3 | 5.8 | 8.7 | 12.5 | 7.8 | 9.8 |
| 19 | 14.5 | 5.7 | 9.9 | 9.6 | 3.5 | 6.4 | 12.3 | 5.7 | 8.7 | 12.5 | 7.9 | --- |
| 20 | 14.6 | 5.4 | 9.8 | 10 | 3.8 | 6.7 | 10.5 | 5.6 | 7.8 | --- | --- | --- |
| 21 | 14.5 | 5.0 | 9.5 | 9.7 | 2.6 | 6.3 | 9.9 | 4.3 | 6.9 | --- | --- | --- |
| 22 | 14.1 | 4.3 | 9.0 | 10.1 | 4.0 | 6.9 | 8.5 | 4.7 | 6.5 | 11.7 | 6.9 | 9.0 |
| 23 | 13.9 | 4.1 | 9.0 | 10.2 | 4.2 | 7.0 | --- | 5.4 | --- | 12.8 | 7.4 | 9.7 |
| 24 | 14.0 | --- | --- | 10.2 | 4.1 | 7.0 | --- | --- | --- | 12.9 | 7.3 | 9.7 |
| 25 | 13.9 | 3.7 | 8.7 | 10.3 | 3.9 | 6.9 | --- | --- | --- | 13.0 | 7.2 | 9.7 |
| 26 | 13.5 | 4.0 | 8.4 | 10.6 | 4.2 | 7.2 | --- | --- | --- | 12.9 | 7.0 | 9.5 |
| 27 | 13.3 | 4.0 | 8.4 | 10.8 | 4.5 | 7.5 | --- | --- | --- | 12.7 | 6.9 | 9.4 |
| 28 | 12.5 | 3.7 | 7.9 | 10.9 | 4.7 | 7.6 | --- | --- | --- | 12.7 | 6.8 | 9.3 |
| 29 | 12.6 | 3.1 | 7.7 | 10.7 | 4.6 | 7.4 | --- | --- | --- | 12.6 | 6.6 | 9.2 |
| 30 | 13.6 | 3.4 | 8.3 | 10.9 | 4.6 | 7.6 | --- | --- | --- | 13.2 | 6.8 | 9.6 |
| 31 | --- | --- | --- | 10.9 | 4.8 | 7.6 | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | 13.6 | 2.4 | 7.8 | --- | --- | --- | --- | --- | --- |

YAKIMA RIVER BASIN

611

12510500 YAKIMA RIVER AT KIONA, WA—Continued

CHLOROPHYLL, TOTAL, WATER, FLUOROMETRIC, 650-700 NANOMETERS, IN-SITU SENSOR, MICROGRAMS PER LITER
WATER YEAR APRIL 2004 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|------|------|-------|-----|------|--------|-----|------|-----------|-----|------|
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.2 | 1.1 | 2.7 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.0 | 1.2 | 2.6 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.5 | 1.6 | 2.8 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.0 | 1.8 | 3.0 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.2 | 1.7 | 2.9 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4.4 | 2.1 | 2.8 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3.8 | 1.1 | 2.3 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | 1.0 | 1.8 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | 0.4 | 1.4 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 0.6 | 1.5 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3.0 | 0.5 | 1.5 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.1 | 0.5 | 1.6 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 0.3 | 1.5 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1.4 | 2.1 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | 1.6 | 2.2 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | 1.4 | 2.1 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | 1.8 | 2.2 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3.1 | 1.8 | 2.5 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.9 | 1.5 | 2.3 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3.1 | 1.8 | 2.5 |
| 21 | --- | --- | --- | --- | --- | --- | 2.4 | 0.7 | 1.5 | 3.3 | 1.9 | 2.7 |
| 22 | --- | --- | --- | --- | --- | --- | 2.2 | 0.3 | 1.4 | 3.5 | 1.9 | 2.8 |
| 23 | --- | --- | --- | --- | --- | --- | 5.8 | 0.7 | 1.9 | 3.5 | 2.0 | 2.8 |
| 24 | --- | --- | --- | --- | --- | --- | 10 | 0.6 | 2.4 | 3.1 | 1.9 | 2.6 |
| 25 | --- | --- | --- | --- | --- | --- | 10 | 0.8 | 3.2 | 3.3 | 1.8 | 2.6 |
| 26 | --- | --- | --- | --- | --- | --- | 8.8 | 0.6 | 2.3 | 3.2 | 1.8 | 2.4 |
| 27 | --- | --- | --- | --- | --- | --- | 7.7 | 1.2 | 3.2 | 3.0 | 1.7 | 2.3 |
| 28 | --- | --- | --- | --- | --- | --- | 4.3 | 0.9 | 2.1 | 3.0 | 1.8 | 2.3 |
| 29 | --- | --- | --- | --- | --- | --- | 6.0 | 1.4 | 2.5 | 3.1 | 1.8 | 2.4 |
| 30 | --- | --- | --- | --- | --- | --- | 6.1 | 1.6 | 3.3 | 3.3 | 1.7 | 2.4 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.8 | 1.6 | 2.1 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.2 | 0.3 | 2.3 |
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 2.8 | 1.4 | 2.2 | 3.2 | 0.7 | 2.0 | 3.6 | 2.0 | 2.9 | --- | --- | --- |
| 2 | 2.9 | 1.5 | 2.2 | 3.4 | 1.5 | 2.3 | 4.1 | 2.0 | 3.0 | --- | --- | --- |
| 3 | --- | --- | --- | 3.4 | 1.5 | 2.5 | 4.1 | 1.8 | 2.9 | --- | --- | --- |
| 4 | --- | --- | --- | 3.3 | 1.8 | 2.6 | 4.8 | 1.8 | 2.9 | --- | --- | --- |
| 5 | --- | --- | --- | 3.3 | 1.4 | 2.5 | 7.3 | 1.9 | 3.3 | --- | --- | --- |
| 6 | --- | --- | --- | 3.1 | 1.3 | 2.4 | 5.0 | 1.8 | 3.2 | --- | --- | --- |
| 7 | --- | --- | --- | 3.5 | 1.7 | 2.4 | 4.7 | 1.7 | 3.0 | --- | --- | --- |
| 8 | 3.6 | 1.4 | 2.4 | 3.2 | 1.5 | 2.4 | 4.2 | 1.8 | 2.7 | --- | --- | --- |
| 9 | 3.6 | 1.3 | 2.6 | 3.4 | 1.5 | 2.3 | 6.1 | 1.9 | 2.7 | --- | --- | --- |
| 10 | 4.0 | 1.4 | 2.6 | 4.1 | 1.5 | 2.6 | 4.4 | 1.5 | 2.6 | --- | --- | --- |
| 11 | 3.2 | 1.2 | 2.3 | 3.4 | 1.6 | 2.5 | 6.7 | 1.5 | 2.5 | --- | --- | --- |
| 12 | 4.6 | 1.1 | 2.2 | 4.0 | 1.6 | 2.6 | 3.3 | 1.0 | 2.2 | --- | --- | --- |
| 13 | 3.3 | 0.9 | 1.9 | 3.2 | 1.4 | 2.3 | 3.1 | 1.4 | 2.2 | --- | --- | --- |
| 14 | 2.4 | 0.6 | 1.7 | 3.8 | 1.2 | 2.3 | 2.8 | 1.2 | 2.0 | --- | --- | --- |
| 15 | 2.4 | 0.8 | 1.6 | 3.3 | 1.5 | 2.3 | 3.6 | 1.0 | 2.1 | --- | --- | --- |
| 16 | 2.8 | 0.5 | 1.6 | 3.0 | 1.3 | 2.3 | 3.3 | 1.2 | 2.1 | --- | --- | --- |
| 17 | 2.2 | 0.5 | 1.3 | 7.3 | 1.4 | 2.4 | 4.8 | 1.0 | 2.1 | --- | --- | --- |
| 18 | 2.2 | 0.4 | 1.3 | 3.3 | 1.4 | 2.3 | 2.8 | 1.1 | 1.9 | --- | --- | --- |
| 19 | 3.4 | 0.5 | 1.4 | 3.6 | 1.6 | 2.6 | 2.7 | 0.9 | 1.8 | --- | --- | --- |
| 20 | 2.3 | 0.6 | 1.4 | 8.1 | 1.6 | 3.2 | 3.3 | 1.3 | 2.0 | --- | --- | --- |
| 21 | 2.7 | 0.5 | 1.4 | 9.0 | 1.8 | 3.5 | 11 | --- | --- | --- | --- | --- |
| 22 | 2.4 | 0.4 | 1.5 | 3.8 | 1.4 | 2.8 | 7.7 | 2.0 | 4.2 | --- | --- | --- |
| 23 | --- | --- | --- | 3.7 | 1.7 | 2.5 | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | 3.6 | 1.5 | 2.6 | --- | --- | --- | --- | --- | --- |
| 25 | 4.2 | 0.6 | 1.5 | 3.5 | 1.0 | 2.5 | --- | --- | --- | --- | --- | --- |
| 26 | 3.2 | <0.1 | 1.6 | 3.5 | 1.2 | 2.6 | --- | --- | --- | --- | --- | --- |
| 27 | 2.5 | 0.5 | 1.5 | 6.1 | 2.0 | 2.8 | --- | --- | --- | --- | --- | --- |
| 28 | 2.4 | 0.5 | 1.5 | 3.8 | 1.8 | 2.7 | --- | --- | --- | --- | --- | --- |
| 29 | 2.3 | 0.9 | 1.5 | 3.8 | 1.6 | 2.8 | --- | --- | --- | --- | --- | --- |
| 30 | 2.3 | 0.9 | 1.5 | 6.3 | 1.8 | 2.8 | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | 4.2 | 1.8 | 2.9 | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | 9.0 | 0.7 | 2.6 | --- | --- | --- | --- | --- | --- |

< Actual value is known to be less than the value shown

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU
WATER YEAR APRIL 2004 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN |
|-----|----------|------|--------|-------|------|--------|--------|------|--------|-----------|------|--------|
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.0 | <1.0 | 1.6 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.3 | <1.0 | 1.9 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.1 | 1.6 | 2.5 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4.4 | 1.6 | 2.4 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3.8 | 1.3 | 1.8 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.1 | 1.3 | 2.5 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.5 | 2.2 | 3.2 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.4 | 2.3 | 3.3 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.8 | 1.7 | 2.8 |
| 21 | --- | --- | --- | --- | --- | 4.3 | <1.0 | <1.0 | <1.0 | 7.5 | 2.4 | 4.0 |
| 22 | --- | --- | --- | --- | --- | 420 | <1.0 | <1.0 | <1.0 | 5.7 | 2.0 | 3.6 |
| 23 | --- | --- | --- | --- | --- | 340 | 1.5 | 38 | 4.8 | 2.2 | 3.6 | |
| 24 | --- | --- | --- | --- | --- | 420 | 42 | 110 | 5.9 | 2.7 | 4.1 | |
| 25 | --- | --- | --- | --- | --- | 290 | <1.0 | 70 | 6.4 | 2.8 | 4.1 | |
| 26 | --- | --- | --- | --- | --- | 37 | <1.0 | <1.0 | <1.0 | 5.3 | 2.0 | 3.5 |
| 27 | --- | --- | --- | --- | --- | 44 | <1.0 | <1.0 | <1.0 | 5.0 | 1.6 | 2.6 |
| 28 | --- | --- | --- | --- | --- | 23 | <1.0 | <1.0 | <1.0 | 6.7 | 2.1 | 3.8 |
| 29 | --- | --- | --- | --- | --- | 23 | <1.0 | 2.0 | 2.0 | 7.1 | 3.0 | 4.7 |
| 30 | --- | --- | --- | --- | --- | 8.8 | <1.0 | 3.2 | 3.2 | 7.4 | 3.0 | 4.7 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.7 | 1.8 | 2.6 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MIN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 3.3 | 1.7 | 2.3 | 3.3 | <1.0 | 2.0 | <1.0 | <1.0 | <1.0 | --- | --- | --- |
| 2 | 2.9 | 1.0 | 1.7 | 2.7 | 1.5 | 2.0 | 2.0 | <1.0 | <1.0 | --- | --- | --- |
| 3 | --- | --- | --- | 2.1 | 1.2 | 1.5 | 5.0 | <1.0 | 1.4 | --- | --- | --- |
| 4 | --- | --- | --- | 2.4 | 1.1 | 1.3 | 1.8 | <1.0 | <1.0 | 7.2 | 1.5 | 3.1 |
| 5 | --- | --- | --- | 2.3 | 1.1 | 1.3 | 6.1 | <1.0 | <1.0 | 6.7 | 1.5 | 3.0 |
| 6 | --- | --- | --- | 3.8 | 1.0 | 2.1 | 4.9 | 1.6 | 3.3 | 4.2 | <1.0 | 2.5 |
| 7 | --- | --- | --- | 3.6 | 1.9 | 2.5 | 3.3 | 1.4 | 2.0 | 6.0 | <1.0 | 2.1 |
| 8 | 4.1 | 1.8 | 2.8 | 3.1 | 1.9 | 2.3 | 4.5 | 1.2 | 1.9 | 3.5 | <1.0 | 1.9 |
| 9 | 9.6 | 1.4 | 3.4 | 3.2 | 1.7 | 2.3 | 8.0 | 1.4 | 3.8 | --- | --- | --- |
| 10 | 7.4 | 3.7 | 4.9 | 4.0 | 1.3 | 1.6 | 8.7 | 2.1 | 4.3 | --- | --- | --- |
| 11 | 7.4 | 2.8 | 4.3 | 2.2 | 1.3 | 1.6 | 6.0 | 1.5 | 2.7 | --- | --- | --- |
| 12 | 8.0 | 2.6 | 3.7 | 6.7 | 1.3 | 1.5 | 8.6 | 1.3 | 2.7 | --- | --- | --- |
| 13 | 4.6 | 1.7 | 3.3 | 8.0 | 1.7 | 2.4 | 3.8 | 1.0 | 1.8 | --- | --- | --- |
| 14 | 4.0 | 1.5 | 2.2 | 7.6 | 1.7 | 2.3 | 3.6 | <1.0 | 1.4 | --- | --- | --- |
| 15 | 3.4 | 1.7 | 2.3 | 10 | 1.6 | 2.5 | 4.7 | <1.0 | 2.0 | --- | --- | --- |
| 16 | 3.7 | 1.2 | 1.7 | 4.8 | 1.4 | 1.8 | 5.2 | <1.0 | 2.0 | --- | --- | --- |
| 17 | 1.8 | <1.0 | 1.2 | 2.4 | 1.1 | 1.7 | 5.2 | 1.0 | 2.0 | --- | --- | --- |
| 18 | 1.7 | <1.0 | 1.1 | 2.3 | 1.2 | 1.7 | 11 | <1.0 | 1.8 | 4.0 | 1.0 | 3.0 |
| 19 | 8.4 | <1.0 | <1.0 | 2.5 | <1.0 | <1.0 | 4.5 | <1.0 | 1.8 | 3.6 | <1.0 | 2.5 |
| 20 | 1.5 | <1.0 | <1.0 | 6.6 | <1.0 | <1.0 | 7.7 | <1.0 | 1.4 | 4.0 | 1.2 | 3.0 |
| 21 | 3.1 | <1.0 | <1.0 | 11 | <1.0 | <1.0 | 4.3 | <1.0 | 1.5 | 7.8 | <1.0 | 2.6 |
| 22 | 1.8 | <1.0 | <1.0 | 2.2 | <1.0 | <1.0 | 5.6 | <1.0 | 2.2 | 3.4 | <1.0 | 2.1 |
| 23 | 3.3 | <1.0 | <1.0 | 2.3 | <1.0 | <1.0 | --- | --- | --- | 4.3 | <1.0 | 2.2 |
| 24 | 1.0 | <1.0 | <1.0 | 2.0 | <1.0 | <1.0 | --- | --- | --- | 5.5 | <1.0 | 1.4 |
| 25 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | --- | --- | --- | 2.4 | <1.0 | 1.2 |
| 26 | 1.6 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 | --- | --- | --- | 2.3 | <1.0 | 1.3 |
| 27 | 1.2 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | --- | --- | --- | 2.3 | <1.0 | 1.3 |
| 28 | 1.2 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 | --- | --- | --- | 4.4 | <1.0 | 1.2 |
| 29 | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | --- | --- | --- | 6.5 | <1.0 | 1.0 |
| 30 | 1.8 | <1.0 | <1.0 | 1.5 | <1.0 | <1.0 | --- | --- | --- | 8.8 | <1.0 | 1.8 |
| 31 | --- | --- | --- | <1.0 | <1.0 | <1.0 | --- | --- | --- | --- | --- | --- |
| MAX | --- | --- | --- | 11 | 1.9 | 2.5 | --- | --- | --- | --- | --- | --- |
| MIN | --- | --- | --- | 1.0 | 1.0 | 1.0 | --- | --- | --- | --- | --- | --- |

< Actual value is known to be less than the value shown

12510500 YAKIMA RIVER AT KIONA, WA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 289 | 283 | 287 | 262 | 259 | 261 | 228 | 218 | 223 | 221 | 218 | 219 |
| 2 | 289 | 282 | 286 | 263 | 260 | 262 | 234 | 227 | 230 | 224 | 220 | 221 |
| 3 | 286 | 279 | 283 | 262 | 260 | 261 | 236 | 233 | 234 | 226 | 223 | 225 |
| 4 | 281 | 272 | 277 | 275 | 258 | 262 | 239 | 235 | 236 | 229 | 226 | 228 |
| 5 | 281 | 271 | 274 | 273 | 240 | 252 | 243 | 239 | 241 | 233 | 229 | 230 |
| 6 | 290 | 281 | 284 | 240 | 230 | 233 | 246 | 242 | 243 | 240 | 233 | 236 |
| 7 | 295 | 288 | 291 | 234 | 229 | 232 | 246 | 244 | 245 | 253 | 240 | 248 |
| 8 | 299 | 293 | 296 | 236 | 233 | 235 | 247 | 243 | 245 | 253 | 246 | 251 |
| 9 | 300 | 294 | 297 | 243 | 236 | 240 | 248 | 245 | 247 | 256 | 246 | 253 |
| 10 | 298 | 291 | 295 | 245 | 243 | 244 | 250 | 245 | 247 | 248 | 230 | 237 |
| 11 | 293 | 287 | 290 | 245 | 243 | 244 | 249 | 244 | 246 | 231 | 226 | 229 |
| 12 | 287 | 282 | 284 | 251 | 245 | 248 | 245 | 231 | 240 | 230 | 227 | 228 |
| 13 | 283 | 278 | 281 | 253 | 251 | 252 | 231 | 162 | 192 | 233 | 229 | 232 |
| 14 | 291 | 282 | 285 | 255 | 252 | 254 | 162 | 149 | 154 | 238 | 233 | 236 |
| 15 | 295 | 289 | 292 | 256 | 254 | 255 | 168 | 153 | 160 | 243 | 235 | 239 |
| 16 | 299 | 294 | 296 | 256 | 254 | 255 | 179 | 168 | 173 | 240 | 236 | 238 |
| 17 | 296 | 281 | 288 | 258 | 256 | 257 | 185 | 179 | 182 | 244 | 239 | 242 |
| 18 | 281 | 263 | 269 | 259 | 256 | 257 | 191 | 185 | 188 | 251 | 243 | 247 |
| 19 | 274 | 263 | 268 | 260 | 257 | 259 | 196 | 191 | 193 | 254 | 240 | 250 |
| 20 | 290 | 274 | 284 | 260 | 257 | 259 | 201 | 196 | 198 | 241 | 101 | 157 |
| 21 | 287 | 267 | 274 | 261 | 259 | 260 | 206 | 201 | 203 | 104 | 99 | 100 |
| 22 | 267 | 256 | 262 | 260 | 258 | 259 | 208 | 205 | 207 | 127 | 103 | 111 |
| 23 | 256 | 249 | 252 | 262 | 258 | 260 | 210 | 207 | 208 | 134 | 112 | 120 |
| 24 | 255 | 253 | 255 | 266 | 260 | 262 | 211 | 208 | 209 | 134 | 123 | 130 |
| 25 | 255 | 253 | 254 | 266 | 258 | 263 | 212 | 210 | 211 | 140 | 129 | 132 |
| 26 | 256 | 254 | 255 | 260 | 256 | 258 | 215 | 212 | 213 | 151 | 132 | 139 |
| 27 | 257 | 254 | 256 | 257 | 248 | 253 | 216 | 214 | 215 | 179 | 138 | 153 |
| 28 | 256 | 254 | 255 | 248 | 227 | 239 | 216 | 215 | 215 | 161 | 143 | 149 |
| 29 | 259 | 255 | 258 | 229 | 220 | 224 | 217 | 214 | 216 | 161 | 146 | 154 |
| 30 | 258 | 256 | 257 | 221 | 218 | 220 | 219 | 216 | 217 | 170 | 158 | 163 |
| 31 | 259 | 255 | 258 | --- | --- | --- | 220 | 218 | 219 | 205 | 167 | 184 |
| MONTH | 300 | 249 | 276 | 275 | 218 | 251 | 250 | 149 | 215 | 256 | 99 | 199 |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 190 | 169 | 177 | 226 | 220 | 223 | 231 | 224 | 228 | 170 | 160 | 167 |
| 2 | 180 | 169 | 173 | 226 | 220 | 224 | 230 | 223 | 227 | 190 | 170 | 184 |
| 3 | 182 | 174 | 175 | 226 | 219 | 223 | 232 | 229 | 231 | 200 | 190 | 197 |
| 4 | 178 | 175 | 176 | 225 | 218 | 222 | 238 | 232 | 235 | 220 | 200 | 209 |
| 5 | 179 | 177 | 178 | 227 | 219 | 223 | 243 | 235 | 238 | 230 | 220 | 222 |
| 6 | 181 | 179 | 180 | 227 | 220 | 224 | 239 | 229 | 234 | 239 | 229 | 233 |
| 7 | 181 | 179 | 180 | 227 | 219 | 224 | 236 | 231 | 234 | 249 | 239 | 244 |
| 8 | 182 | 180 | 182 | 228 | 219 | 224 | 246 | 236 | 241 | 249 | 249 | 249 |
| 9 | 183 | 181 | 182 | 228 | 220 | 225 | 237 | 233 | 235 | 259 | 249 | 255 |
| 10 | 201 | 183 | 194 | 227 | 219 | 224 | 235 | 228 | 232 | 259 | 249 | 254 |
| 11 | 206 | 201 | 204 | 228 | 218 | 224 | 234 | 224 | 229 | 259 | 249 | 251 |
| 12 | 208 | 206 | 207 | 232 | 224 | 229 | 232 | 226 | 228 | 250 | --- | --- |
| 13 | 208 | 207 | 207 | 231 | 223 | 228 | 235 | 210 | 226 | --- | --- | --- |
| 14 | 210 | 208 | 209 | 228 | 222 | 225 | 240 | 220 | 229 | --- | --- | --- |
| 15 | 210 | 209 | 209 | 241 | 222 | 228 | 240 | 230 | 236 | --- | --- | --- |
| 16 | 213 | 209 | 210 | 235 | 231 | 233 | 260 | 240 | 249 | --- | --- | --- |
| 17 | 217 | 213 | 215 | 248 | 234 | 240 | 260 | 250 | 256 | --- | --- | --- |
| 18 | 223 | 215 | 219 | 250 | 240 | 246 | 260 | 260 | 260 | 200 | 190 | 200 |
| 19 | 224 | 221 | 223 | 250 | 244 | 247 | 270 | 250 | 259 | 201 | 190 | 193 |
| 20 | 224 | 221 | 223 | 249 | 245 | 247 | 251 | 241 | 249 | 211 | 201 | 201 |
| 21 | 223 | 221 | 222 | 250 | 241 | 246 | 241 | 231 | 237 | 211 | 211 | 211 |
| 22 | 222 | 217 | 220 | 312 | 249 | 267 | 241 | 231 | 235 | 211 | 201 | 208 |
| 23 | 220 | 216 | 219 | 311 | 238 | 277 | 251 | 241 | 249 | 210 | 204 | 207 |
| 24 | 222 | 219 | 221 | 261 | 252 | 254 | 251 | 251 | 251 | 212 | 207 | 210 |
| 25 | 223 | 219 | 221 | 277 | 261 | 267 | 251 | 241 | 245 | 221 | 210 | 214 |
| 26 | 223 | 220 | 222 | 288 | 277 | 285 | 241 | 211 | 228 | 231 | 216 | 222 |
| 27 | 224 | 220 | 222 | 289 | 285 | 287 | 211 | 181 | 191 | 245 | 227 | 234 |
| 28 | 225 | 221 | 223 | 286 | 279 | 282 | 181 | 171 | 176 | 259 | 242 | 248 |
| 29 | --- | --- | --- | 283 | 271 | 277 | 171 | 161 | 165 | 269 | 254 | 261 |
| 30 | --- | --- | --- | 272 | 230 | 249 | 161 | 160 | 161 | 277 | 263 | 270 |
| 31 | --- | --- | --- | 235 | 220 | 227 | --- | --- | --- | 283 | 255 | 271 |
| MONTH | 225 | 169 | 203 | 312 | 218 | 242 | 270 | 160 | 230 | --- | --- | --- |

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 276 | 258 | 267 | 277 | 268 | 273 | 288 | 277 | 282 | 286 | 274 | 281 |
| 2 | 268 | 255 | 261 | 279 | 267 | 273 | 291 | 278 | 285 | 281 | 268 | 275 |
| 3 | 264 | 249 | 256 | 275 | 266 | 271 | 291 | 277 | 285 | 277 | 268 | 273 |
| 4 | 257 | 244 | 251 | 278 | 269 | 273 | 290 | 274 | 283 | 277 | 266 | 273 |
| 5 | 258 | 249 | 254 | 283 | 275 | 279 | 286 | 271 | 279 | 277 | 266 | 272 |
| 6 | 261 | 252 | 257 | 285 | 274 | 280 | 281 | 268 | 275 | 277 | 266 | 273 |
| 7 | 265 | 255 | 260 | 280 | 271 | 276 | 280 | 267 | 275 | 275 | 255 | 262 |
| 8 | 270 | 262 | 266 | 279 | 269 | 274 | 284 | 272 | 279 | 271 | 257 | 265 |
| 9 | 274 | 269 | 269 | 279 | 271 | 275 | 285 | 274 | 280 | 275 | 264 | 271 |
| 10 | --- | --- | --- | 277 | 270 | 274 | 288 | 276 | 283 | 280 | 271 | 276 |
| 11 | --- | --- | --- | 279 | 270 | 275 | 290 | 277 | 284 | 283 | 274 | 279 |
| 12 | --- | --- | --- | 278 | 264 | 271 | 289 | 275 | 283 | 286 | 281 | 284 |
| 13 | --- | 191 | --- | 273 | 254 | 264 | 288 | 274 | 281 | 285 | 277 | 281 |
| 14 | 228 | 211 | 219 | 258 | 249 | 254 | 287 | 276 | 281 | 282 | 274 | 278 |
| 15 | 239 | 228 | 233 | 264 | 253 | 258 | 284 | 271 | 278 | 282 | 272 | 277 |
| 16 | 253 | 239 | 245 | 273 | 261 | 266 | 275 | 261 | 269 | 279 | 272 | 277 |
| 17 | 265 | 253 | 257 | 278 | 267 | 273 | 268 | 257 | 263 | 283 | 274 | 278 |
| 18 | 272 | 264 | 268 | 283 | 270 | 277 | 265 | 257 | 262 | 286 | 279 | 283 |
| 19 | 275 | 263 | 271 | 284 | 268 | 277 | 270 | 262 | 266 | 288 | 280 | 285 |
| 20 | 275 | 265 | 270 | 281 | 268 | 275 | 275 | 267 | 272 | 289 | 280 | 285 |
| 21 | 274 | 259 | 267 | 282 | 267 | 275 | 281 | 272 | 277 | 285 | 275 | 281 |
| 22 | 268 | 258 | 263 | 284 | 272 | 279 | 284 | 274 | 280 | 284 | 274 | 280 |
| 23 | 270 | 260 | 265 | 284 | 269 | 277 | 286 | 277 | 282 | 287 | 278 | 283 |
| 24 | 273 | 262 | 268 | 280 | 266 | 274 | 287 | 281 | 284 | 285 | 274 | 281 |
| 25 | 274 | 266 | 270 | 276 | 262 | 270 | 292 | 286 | 289 | 288 | 278 | 284 |
| 26 | 278 | 269 | 274 | 266 | 256 | 262 | 296 | 288 | 292 | 288 | 277 | 284 |
| 27 | 283 | 276 | 279 | 263 | 246 | 255 | 294 | 286 | 291 | 289 | 280 | 286 |
| 28 | 284 | 277 | 281 | 251 | 239 | 246 | 292 | 284 | 289 | 289 | 280 | 285 |
| 29 | 281 | 270 | 276 | 256 | 242 | 248 | 291 | 278 | 286 | 292 | 286 | 289 |
| 30 | 276 | 267 | 272 | 270 | 256 | 261 | 284 | 273 | 279 | 294 | 291 | 293 |
| 31 | --- | --- | --- | 280 | 267 | 273 | 286 | 277 | 282 | --- | --- | --- |
| MONTH | --- | --- | --- | 285 | 239 | 270 | 296 | 257 | 280 | 294 | 255 | 279 |

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN |
|-----|----------|-----|--------|----------|-----|--------|----------|-----|--------|---------|-----|--------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 8.9 | 8.0 | 8.4 | 8.3 | 8.0 | 8.1 | 8.4 | 7.9 | 8.1 | 8.2 | 8.0 | 8.1 |
| 2 | 8.9 | 8.0 | 8.4 | 8.2 | 8.0 | 8.1 | 8.4 | 7.9 | 8.1 | 8.2 | 7.9 | 8.1 |
| 3 | 8.8 | 8.0 | 8.3 | 8.4 | 8.0 | 8.2 | 8.2 | 7.9 | 8.1 | 8.2 | 8.0 | 8.1 |
| 4 | 8.9 | 8.0 | 8.3 | 8.4 | 8.0 | 8.2 | 8.2 | 7.9 | 8.0 | 8.4 | 8.0 | 8.2 |
| 5 | 8.9 | 8.0 | 8.4 | 8.3 | 8.0 | 8.2 | 8.4 | 7.9 | 8.2 | 8.4 | 8.0 | 8.1 |
| 6 | 8.8 | 8.0 | 8.3 | 8.4 | 8.0 | 8.1 | 8.4 | 7.9 | 8.1 | 8.3 | 8.0 | 8.1 |
| 7 | 8.9 | 8.0 | 8.4 | 8.3 | 8.0 | 8.1 | 8.3 | 7.9 | 8.1 | 8.3 | 7.9 | 8.1 |
| 8 | 8.9 | 8.0 | 8.4 | 8.4 | 8.0 | 8.1 | 8.4 | 7.9 | 8.1 | 8.3 | 8.0 | 8.2 |
| 9 | 8.8 | 8.0 | 8.4 | 8.2 | 8.0 | 8.1 | 8.3 | 7.9 | 8.1 | 8.3 | 8.0 | 8.2 |
| 10 | 8.8 | 8.0 | 8.3 | 8.3 | 7.9 | 8.1 | 8.2 | 7.9 | 8.0 | 8.4 | 8.0 | 8.1 |
| 11 | 8.8 | 8.0 | 8.3 | 8.4 | 8.0 | 8.1 | 8.3 | 7.8 | 8.1 | 8.4 | 8.0 | 8.1 |
| 12 | 8.8 | 8.0 | 8.3 | 8.2 | 8.0 | 8.0 | 8.1 | 7.9 | 8.0 | 8.4 | 8.0 | 8.2 |
| 13 | 8.8 | 8.0 | 8.3 | 8.2 | 7.9 | 8.1 | 7.9 | 7.8 | 7.8 | 8.5 | 8.0 | 8.2 |
| 14 | 8.8 | 8.0 | 8.3 | 8.3 | 7.9 | 8.1 | 8.0 | 7.7 | 7.8 | 8.4 | 8.0 | 8.2 |
| 15 | 8.7 | 8.0 | 8.2 | 8.2 | 8.0 | 8.1 | 8.1 | 7.9 | 7.9 | 8.4 | 8.0 | 8.2 |
| 16 | 8.2 | 8.0 | 8.0 | 8.3 | 7.9 | 8.1 | 8.1 | 7.9 | 8.0 | 8.4 | 8.0 | 8.2 |
| 17 | 8.2 | 7.9 | 8.0 | 8.4 | 7.9 | 8.1 | 8.1 | 7.9 | 8.0 | 8.4 | 8.0 | 8.2 |
| 18 | 8.3 | 7.9 | 8.1 | 8.4 | 7.9 | 8.2 | 8.0 | 7.9 | 8.0 | 8.4 | 8.0 | 8.2 |
| 19 | 8.1 | 7.9 | 7.9 | 8.4 | 8.0 | 8.2 | 8.2 | 7.9 | 8.0 | 8.4 | 8.0 | 8.2 |
| 20 | 8.2 | 7.9 | 8.0 | 8.5 | 8.0 | 8.2 | 8.2 | 7.9 | 8.0 | 8.1 | 7.5 | 7.7 |
| 21 | 8.0 | 7.8 | 7.9 | 8.5 | 8.0 | 8.3 | 8.2 | 8.0 | 8.1 | 7.6 | 7.5 | 7.5 |
| 22 | 8.0 | 7.8 | 7.9 | 8.5 | 8.0 | 8.3 | 8.3 | 8.0 | 8.1 | 7.6 | 7.5 | 7.6 |
| 23 | 8.1 | 7.9 | 8.0 | 8.5 | 8.0 | 8.3 | 8.3 | 8.0 | 8.1 | 7.7 | 7.6 | 7.6 |
| 24 | 8.2 | 7.9 | 8.0 | 8.4 | 8.0 | 8.2 | 8.3 | 8.0 | 8.1 | 7.7 | 7.5 | 7.7 |
| 25 | 8.2 | 7.9 | 8.1 | 8.5 | 8.0 | 8.2 | 8.2 | 8.0 | 8.1 | 7.7 | 7.6 | 7.7 |
| MAX | 8.9 | 8.1 | 8.4 | 8.5 | 8.0 | 8.3 | 8.4 | 8.0 | 8.2 | 8.5 | 8.0 | 8.2 |
| MIN | 8.0 | 7.8 | 7.9 | 8.2 | 7.9 | 8.0 | 7.9 | 7.7 | 7.8 | 7.6 | 7.5 | 7.5 |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 8.0 | 7.9 | 7.9 | 8.9 | 8.2 | 8.5 | 9.0 | 8.2 | 8.7 | 8.9 | 7.8 | 8.2 |
| 2 | 8.0 | 7.9 | 7.9 | 9.0 | 8.2 | 8.5 | 9.1 | 8.2 | 8.7 | 8.7 | 7.8 | 8.1 |
| 3 | 8.0 | 7.9 | 8.0 | 9.1 | 8.2 | 8.6 | 9.1 | 8.3 | 8.8 | 9.0 | 7.8 | 8.4 |
| 4 | 8.0 | 7.9 | 8.0 | 9.1 | 8.3 | 8.6 | 9.1 | 8.2 | 8.8 | 9.0 | 7.8 | 8.3 |
| 5 | 8.1 | 8.0 | 8.0 | 9.2 | 8.3 | 8.7 | 9.2 | 8.2 | 8.9 | 8.9 | 7.8 | 8.3 |
| 6 | 8.1 | 8.0 | 8.0 | 9.2 | 8.3 | 8.7 | 9.3 | 8.4 | 9.0 | 9.1 | 7.9 | 8.5 |
| 7 | 8.2 | 8.0 | 8.0 | 9.2 | 8.3 | 8.7 | 9.3 | 8.6 | 9.1 | 9.3 | 8.0 | 8.7 |
| 8 | 8.2 | 8.0 | 8.0 | 9.2 | 8.3 | 8.7 | 9.4 | 8.5 | 9.1 | 9.2 | 8.1 | 8.6 |
| 9 | 8.2 | 8.0 | 8.0 | 9.2 | 8.3 | 8.7 | 9.4 | 8.4 | 9.1 | 9.2 | 8.0 | 8.7 |
| 10 | 8.2 | 8.0 | 8.1 | 9.2 | 8.3 | 8.7 | 9.5 | 8.6 | 9.2 | 9.1 | 8.2 | 8.6 |
| 11 | 8.2 | 8.0 | 8.1 | 9.2 | 8.3 | 8.6 | 9.4 | 8.5 | 9.2 | 8.7 | 8.0 | 8.3 |
| 12 | 8.2 | 8.1 | 8.1 | 9.2 | 8.3 | 8.7 | 9.4 | 8.6 | 9.2 | --- | 8.0 | --- |
| 13 | 8.2 | 8.0 | 8.1 | 9.2 | 8.3 | 8.6 | 9.4 | 8.6 | 9.1 | --- | --- | --- |
| 14 | 8.3 | 8.1 | 8.1 | 9.2 | 8.3 | 8.6 | 9.4 | 8.7 | 9.1 | --- | --- | --- |
| 15 | 8.3 | 8.1 | 8.2 | 9.2 | 8.3 | 8.6 | 9.4 | 8.7 | 9.1 | --- | --- | --- |
| 16 | 8.3 | 8.1 | 8.2 | 8.9 | 8.2 | 8.4 | 9.2 | 8.5 | 8.9 | --- | --- | --- |
| 17 | 8.3 | 8.1 | 8.2 | 9.0 | 8.2 | 8.5 | 9.2 | 8.3 | 8.9 | 8.9 | --- | --- |
| 18 | 8.4 | 8.1 | 8.2 | 9.0 | 8.2 | 8.4 | 9.0 | 8.4 | 8.8 | 8.9 | 7.8 | 8.2 |
| 19 | 8.4 | 8.1 | 8.2 | 8.8 | 8.1 | 8.3 | 9.0 | 8.2 | 8.8 | 9.2 | 7.8 | 8.6 |
| 20 | 8.4 | 8.1 | 8.2 | 8.9 | 8.1 | 8.4 | 9.0 | 8.3 | 8.7 | 9.1 | 7.9 | 8.6 |
| 21 | 8.5 | 8.1 | 8.3 | 8.9 | 8.2 | 8.5 | 9.0 | 8.3 | 8.7 | 9.0 | 8.0 | 8.6 |
| 22 | 8.5 | 8.2 | 8.3 | 8.9 | 8.0 | 8.4 | 8.8 | 8.2 | 8.6 | 9.3 | 7.9 | 8.8 |
| 23 | 8.6 | 8.2 | 8.3 | 9.0 | 7.9 | 8.6 | 8.6 | 7.8 | 8.2 | 9.4 | 8.1 | 8.9 |
| 24 | 8.6 | 8.2 | 8.3 | 9.0 | 8.4 | 8.6 | 8.4 | 7.7 | 8.1 | 9.4 | 8.1 | 9.0 |
| 25 | 8.7 | 8.2 | 8.3 | 9.0 | 8.4 | 8.6 | 8.6 | 7.7 | 8.2 | 9.6 | 8.2 | 9.1 |
| 26 | 8.8 | 8.2 | 8.4 | 8.8 | 8.2 | 8.4 | 8.5 | 7.8 | 8.1 | 9.6 | 8.3 | 9.2 |
| 27 | 8.8 | 8.2 | 8.4 | 8.9 | 8.2 | 8.5 | 8.4 | 7.7 | 8.1 | 9.5 | 8.4 | 9.2 |
| 28 | 8.8 | 8.2 | 8.3 | 8.9 | 8.2 | 8.6 | 8.5 | 7.7 | 8.0 | 9.5 | 8.4 | 9.2 |
| 29 | --- | --- | --- | 8.9 | 8.2 | 8.7 | 8.2 | 7.7 | 7.9 | 9.6 | 8.6 | 9.3 |
| 30 | --- | --- | --- | 8.8 | 8.2 | 8.6 | 8.6 | 7.8 | 8.1 | 9.7 | 8.7 | 9.4 |
| 31 | --- | --- | --- | 9.0 | 8.1 | 8.7 | --- | --- | --- | 9.7 | 8.8 | 9.3 |
| MAX | 8.8 | 8.2 | 8.4 | 9.2 | 8.4 | 8.7 | 9.5 | 8.7 | 9.2 | --- | --- | --- |
| MIN | 8.0 | 7.9 | 7.9 | 8.8 | 7.9 | 8.3 | 8.2 | 7.7 | 7.9 | --- | --- | --- |

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN |
|-----|------|-----|--------|------|-----|--------|--------|-----|--------|-----------|-----|--------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 9.6 | 9.0 | 9.3 | 9.3 | 8.2 | 8.9 | 9.3 | 8.1 | 8.7 | 9.1 | 7.9 | 8.5 |
| 2 | 9.7 | 9.0 | 9.4 | 9.4 | 8.3 | 9.0 | 9.5 | 8.1 | 8.9 | 9.0 | 7.9 | 8.4 |
| 3 | 9.7 | 8.9 | 9.3 | 9.4 | 8.4 | 9.0 | 9.6 | 8.2 | 9.0 | 8.9 | 7.8 | 8.3 |
| 4 | 9.6 | 8.7 | 9.2 | 9.4 | 8.4 | 9.0 | 9.6 | 8.2 | 9.0 | 9.0 | 7.8 | 8.5 |
| 5 | 9.3 | 8.3 | 8.9 | 9.3 | 8.4 | 8.9 | 9.6 | 8.2 | 9.0 | 9.1 | 7.9 | 8.5 |
| 6 | 9.3 | 8.1 | 8.8 | 9.3 | 8.3 | 8.8 | 9.5 | 8.1 | 8.9 | 9.0 | 8.0 | 8.5 |
| 7 | 9.4 | 8.0 | 8.9 | 9.3 | 8.3 | 8.9 | 9.5 | 8.1 | 8.9 | 8.9 | 7.9 | 8.4 |
| 8 | 9.2 | 8.2 | 8.8 | 9.3 | 8.3 | 8.8 | 9.5 | 8.1 | 8.8 | 9.0 | 7.9 | 8.4 |
| 9 | 9.1 | 7.9 | 8.6 | 9.2 | 8.1 | 8.7 | 9.5 | 8.0 | 8.8 | 8.9 | 7.9 | 8.3 |
| 10 | --- | --- | --- | 9.2 | 8.1 | 8.8 | 9.1 | 8.0 | 8.7 | 8.9 | 8.0 | 8.4 |
| 11 | --- | --- | --- | 9.3 | 8.2 | 8.8 | 9.1 | 7.9 | 8.6 | 9.0 | 8.0 | 8.6 |
| 12 | --- | --- | --- | 9.2 | 8.2 | 8.8 | 9.2 | 7.9 | 8.6 | 8.9 | 8.1 | 8.5 |
| 13 | 9.1 | --- | --- | 9.3 | 8.1 | 9.0 | 9.2 | 7.9 | 8.6 | 8.8 | 8.0 | 8.4 |
| 14 | 9.1 | 7.8 | 8.4 | 9.4 | 8.2 | 9.0 | 9.1 | 7.9 | 8.6 | 8.9 | 8.0 | 8.4 |
| 15 | 9.3 | 7.9 | 8.8 | 9.4 | 8.2 | 8.7 | 9.1 | 7.9 | 8.6 | 8.9 | 8.0 | 8.4 |
| 16 | 9.2 | 8.1 | 8.7 | 9.5 | 8.2 | 9.0 | 9.1 | 7.8 | 8.5 | 8.8 | 8.0 | 8.3 |
| 17 | 9.3 | 8.1 | 8.9 | 9.5 | 8.4 | 9.1 | 8.9 | 7.8 | 8.3 | 8.9 | 7.9 | 8.3 |
| 18 | 9.3 | 8.4 | 8.9 | 9.5 | 8.4 | 9.1 | 9.1 | 7.7 | 8.4 | 9.0 | 8.0 | 8.5 |
| 19 | 9.3 | 8.3 | 9.0 | 9.5 | 8.4 | 9.1 | 9.1 | 7.8 | 8.5 | 8.9 | 8.0 | 8.4 |
| 20 | 9.4 | 8.4 | 9.0 | 9.6 | 8.4 | 9.2 | 9.1 | 7.8 | 8.6 | 8.9 | 8.0 | 8.4 |
| 21 | 9.4 | 8.3 | 8.9 | 9.6 | 8.5 | 9.2 | 9.1 | 7.9 | 8.6 | 9.0 | 8.0 | 8.4 |
| 22 | 9.3 | 8.2 | 9.0 | 9.4 | 8.3 | 9.0 | 9.1 | 7.8 | 8.6 | 9.0 | 8.0 | 8.4 |
| 23 | 9.5 | 8.3 | 9.1 | 9.6 | 8.4 | 9.2 | 9.2 | 7.9 | 8.6 | 9.0 | 8.0 | 8.5 |
| 24 | 9.5 | 8.4 | 9.1 | 9.7 | 8.5 | 9.2 | 9.1 | 8.0 | 8.6 | 9.0 | 8.1 | 8.5 |
| 25 | 9.3 | 8.5 | 9.1 | 9.7 | 8.6 | 9.2 | 9.1 | 8.1 | 8.6 | 9.1 | 8.1 | 8.5 |
| 26 | 9.6 | 8.4 | 9.1 | 9.6 | 8.6 | 9.1 | 9.1 | 8.1 | 8.6 | 9.0 | 8.1 | 8.4 |
| 27 | 9.2 | 8.5 | 8.9 | 9.7 | 8.3 | 9.1 | 9.1 | 8.1 | 8.6 | 9.1 | 8.0 | 8.4 |
| 28 | 9.1 | 8.3 | 8.7 | 9.7 | 8.2 | 9.1 | 9.0 | 8.0 | 8.5 | 9.1 | 8.1 | 8.5 |
| 29 | 9.3 | 8.2 | 8.9 | 9.6 | 8.2 | 8.9 | 9.2 | 8.0 | 8.6 | 8.5 | 8.0 | 8.2 |
| 30 | 9.3 | 8.2 | 8.9 | 9.5 | 8.1 | 8.9 | 9.2 | 8.0 | 8.6 | 8.2 | 7.8 | 7.9 |
| 31 | --- | --- | --- | 9.5 | 8.1 | 8.8 | 9.1 | 8.0 | 8.6 | --- | --- | --- |
| MAX | --- | --- | --- | 9.7 | 8.6 | 9.2 | 9.6 | 8.2 | 9.0 | 9.1 | 8.1 | 8.6 |
| MIN | --- | --- | --- | 9.2 | 8.1 | 8.7 | 8.9 | 7.7 | 8.3 | 8.2 | 7.8 | 7.9 |

12510500 YAKIMA RIVER AT KIONA, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|------|------|----------|------|------|----------|------|------|---------|------|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 18.2 | 16.7 | 17.4 | 9.4 | 8.8 | 9.1 | 4.4 | 3.7 | 4.1 | 4.3 | 3.7 | 4.0 |
| 2 | 17.9 | 16.0 | 16.9 | 9.5 | 9.0 | 9.2 | 4.2 | 3.4 | 3.8 | 4.0 | 3.7 | 3.9 |
| 3 | 17.3 | 15.7 | 16.5 | 9.7 | 8.6 | 9.2 | 3.9 | 3.5 | 3.7 | 3.7 | 3.2 | 3.4 |
| 4 | 17.1 | 15.4 | 16.2 | 8.8 | 7.8 | 8.3 | 3.8 | 3.6 | 3.7 | 3.2 | 2.4 | 2.8 |
| 5 | 17.0 | 15.2 | 16.1 | 8.3 | 7.4 | 7.9 | 4.4 | 3.7 | 4.0 | 2.4 | 1.6 | 2.0 |
| 6 | 17.6 | 15.7 | 16.5 | 7.6 | 6.7 | 7.2 | 4.6 | 3.9 | 4.3 | 1.7 | 0.9 | 1.2 |
| 7 | 17.3 | 15.6 | 16.5 | 7.4 | 6.7 | 7.1 | 5.4 | 4.5 | 4.9 | 1.0 | 0.2 | 0.6 |
| 8 | 17.2 | 15.4 | 16.3 | 7.7 | 6.6 | 7.1 | 6.3 | 5.4 | 5.8 | 1.3 | 0.3 | 0.8 |
| 9 | 17.0 | 15.4 | 16.1 | 7.6 | 7.0 | 7.3 | 6.4 | 5.5 | 6.0 | 2.1 | 1.2 | 1.6 |
| 10 | 16.4 | 14.9 | 15.6 | 8.0 | 7.3 | 7.7 | 7.6 | 6.2 | 6.9 | 2.2 | 1.3 | 1.8 |
| 11 | 15.9 | 14.5 | 15.2 | 8.7 | 7.8 | 8.2 | 8.1 | 7.3 | 7.7 | 2.6 | 2.0 | 2.2 |
| 12 | 15.9 | 14.4 | 15.1 | 8.2 | 7.9 | 8.0 | 7.3 | 6.3 | 6.6 | 3.4 | 2.0 | 2.7 |
| 13 | 15.9 | 14.3 | 15.1 | 8.4 | 7.9 | 8.1 | 6.7 | 5.3 | 6.2 | 3.0 | 1.4 | 2.2 |
| 14 | 16.2 | 14.4 | 15.2 | 8.5 | 8.0 | 8.2 | 5.3 | 4.7 | 5.0 | 1.4 | 0.4 | 1.1 |
| 15 | 16.2 | 14.6 | 15.4 | 8.2 | 7.6 | 7.9 | 4.9 | 4.3 | 4.6 | 0.4 | 0.0 | 0.0 |
| 16 | 15.6 | 15.0 | 15.2 | 9.1 | 8.2 | 8.5 | 4.8 | 4.3 | 4.5 | 0.4 | 0.0 | 0.1 |
| 17 | 15.0 | 14.2 | 14.8 | 8.6 | 7.7 | 8.2 | 4.8 | 4.4 | 4.6 | 0.9 | 0.1 | 0.4 |
| 18 | 14.2 | 13.1 | 13.4 | 8.4 | 7.5 | 7.8 | 5.1 | 4.8 | 5.0 | 2.0 | 0.7 | 1.2 |
| 19 | 13.1 | 12.5 | 12.7 | 7.6 | 6.8 | 7.2 | 5.7 | 5.0 | 5.2 | 4.5 | 2.0 | 3.5 |
| 20 | 13.0 | 11.9 | 12.5 | 7.0 | 6.1 | 6.5 | 5.1 | 4.6 | 4.9 | 3.6 | 2.0 | 2.7 |
| 21 | 12.8 | 12.1 | 12.4 | 6.6 | 5.8 | 6.2 | 4.8 | 4.0 | 4.4 | 4.1 | 2.4 | 3.2 |
| 22 | 12.1 | 11.4 | 11.6 | 6.5 | 5.7 | 6.0 | 4.7 | 3.8 | 4.2 | 4.8 | 4.0 | 4.3 |
| 23 | 11.8 | 11.1 | 11.4 | 5.9 | 5.2 | 5.6 | 4.0 | 3.1 | 3.5 | 5.3 | 4.6 | 5.0 |
| 24 | 11.3 | 10.2 | 10.8 | 7.3 | 5.9 | 6.7 | 3.7 | 2.8 | 3.3 | 5.6 | 5.3 | 5.4 |
| 25 | 10.7 | 9.9 | 10.3 | 8.4 | 7.3 | 7.7 | 3.4 | 3.0 | 3.2 | 5.7 | 5.5 | 5.6 |
| MONTH | --- | 8.8 | --- | 9.7 | 4.0 | 7.3 | 8.1 | 2.4 | 4.5 | 6.2 | 0.0 | 3.1 |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 6.5 | 5.5 | 5.9 | 9.0 | 7.0 | 7.9 | 11.6 | 10.0 | 10.7 | 17.7 | 14.2 | 16.0 |
| 2 | 6.5 | 5.5 | 6.0 | 9.8 | 7.8 | 8.6 | 11.2 | 9.5 | 10.4 | 17.5 | 15.6 | 16.5 |
| 3 | 6.4 | 5.3 | 5.9 | 10.6 | 8.1 | 9.3 | 12.9 | 10.3 | 11.4 | 19.0 | 15.4 | 17.3 |
| 4 | 6.3 | 5.5 | 5.8 | 11.1 | 8.6 | 9.7 | 12.8 | 10.6 | 11.9 | 20.9 | 17.3 | 18.8 |
| 5 | 5.6 | 4.8 | 5.2 | 11.2 | 8.9 | 9.9 | 13.3 | 10.5 | 11.9 | 19.4 | 18.2 | 18.8 |
| 6 | 6.1 | 4.9 | 5.4 | 11.7 | 9.1 | 10.3 | 14.8 | 11.9 | 13.2 | 20.1 | 17.6 | 18.6 |
| 7 | 6.0 | 4.8 | 5.4 | 12.4 | 9.9 | 11.0 | 14.4 | 12.8 | 13.6 | 20.8 | 16.6 | 18.4 |
| 8 | 5.9 | 4.6 | 5.2 | 13.0 | 10.3 | 11.6 | 14.6 | 11.5 | 13.0 | 20.5 | 17.8 | 18.8 |
| 9 | 5.7 | 4.3 | 4.9 | 13.6 | 11.0 | 12.3 | 14.6 | 11.8 | 13.3 | 19.1 | 17.8 | 18.4 |
| 10 | 5.2 | 3.9 | 4.5 | 14.4 | 11.9 | 12.9 | 14.4 | 11.8 | 13.1 | 17.8 | 16.3 | 17.1 |
| 11 | 5.0 | 3.5 | 4.3 | 14.3 | 11.7 | 13.0 | 14.7 | 12.6 | 13.6 | 20.0 | 16.7 | 18.3 |
| 12 | 4.9 | 3.7 | 4.4 | 14.2 | 12.2 | 13.1 | 14.2 | 12.4 | 13.2 | --- | 17.1 | --- |
| 13 | 5.6 | 4.1 | 4.8 | 13.6 | 11.2 | 12.2 | 13.9 | 11.3 | 12.6 | --- | --- | --- |
| 14 | 5.4 | 3.9 | 4.7 | 12.8 | 10.3 | 11.5 | 14.2 | 11.0 | 12.6 | --- | --- | --- |
| 15 | 5.3 | 3.8 | 4.5 | 12.3 | 10.6 | 11.4 | 13.7 | 11.5 | 12.7 | --- | --- | --- |
| 16 | 5.0 | 3.3 | 4.1 | 11.5 | 9.1 | 10.4 | 13.2 | 11.9 | 12.5 | --- | --- | --- |
| 17 | 4.9 | 3.1 | 3.9 | 11.3 | 8.4 | 9.8 | 14.4 | 11.1 | 12.6 | 18.3 | --- | --- |
| 18 | 4.8 | 3.0 | 3.8 | 11.7 | 9.1 | 10.2 | 14.7 | 11.4 | 13.1 | 18.1 | 16.3 | 17.0 |
| 19 | 5.0 | 3.2 | 4.0 | 10.3 | 9.7 | 9.9 | 15.1 | 12.1 | 13.6 | 18.4 | 15.4 | 16.9 |
| 20 | 4.6 | 3.9 | 4.2 | 12.4 | 9.3 | 10.6 | 15.8 | 12.1 | 13.9 | 17.8 | 16.1 | 16.9 |
| 21 | 5.6 | 3.6 | 4.5 | 11.0 | 8.9 | 9.9 | 17.0 | 13.9 | 15.3 | 16.7 | 15.3 | 16.2 |
| 22 | 5.9 | 3.8 | 4.8 | 9.6 | 8.7 | 9.0 | 19.0 | 14.3 | 16.4 | 18.7 | 15.5 | 16.9 |
| 23 | 6.1 | 4.0 | 4.9 | 11.5 | 8.2 | 9.2 | 18.6 | 15.9 | 16.8 | 19.0 | 15.6 | 17.2 |
| 24 | 6.5 | 4.2 | 5.2 | 10.5 | 8.3 | 9.1 | 18.2 | 14.7 | 16.3 | 19.9 | 16.2 | 18.1 |
| 25 | 6.9 | 4.6 | 5.6 | 11.6 | 8.8 | 10.1 | 19.8 | 16.1 | 17.7 | 21.6 | 17.2 | 19.3 |
| 26 | 7.3 | 5.0 | 6.1 | 10.4 | 9.7 | 9.9 | 20.5 | 17.2 | 18.9 | 22.9 | 17.8 | 20.2 |
| 27 | 7.7 | 5.4 | 6.5 | 11.9 | 9.8 | 10.7 | 19.6 | 17.6 | 18.5 | 24.4 | 18.7 | 21.4 |
| 28 | 7.9 | 6.5 | 7.1 | 11.6 | 9.5 | 10.4 | 18.4 | 15.6 | 17.0 | 25.9 | 19.8 | 22.8 |
| 29 | --- | --- | --- | 11.6 | 8.8 | 10.1 | 17.5 | 15.6 | 16.2 | 26.7 | 21.2 | 23.7 |
| 30 | --- | --- | --- | 11.5 | 8.5 | 10.3 | 17.0 | 14.2 | 15.6 | 26.3 | 21.2 | 23.6 |
| 31 | --- | --- | --- | 11.5 | 9.1 | 10.5 | --- | --- | --- | 23.6 | 21.0 | 22.2 |
| MONTH | 7.9 | 3.0 | 5.1 | 14.4 | 7.0 | 10.5 | 20.5 | 9.5 | 14.1 | --- | --- | --- |

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 22.6 | 20.1 | 21.3 | 25.9 | 23.0 | 24.4 | 27.3 | 25.6 | 26.3 | 23.4 | 20.7 | 22.0 |
| 2 | 22.3 | 19.4 | 20.7 | 25.1 | 22.6 | 23.9 | 26.3 | 24.0 | 25.3 | 22.5 | 20.9 | 21.7 |
| 3 | 23.2 | 19.1 | 21.0 | 25.5 | 21.9 | 23.7 | 25.8 | 23.2 | 24.6 | 21.6 | 20.3 | 21.0 |
| 4 | 23.3 | 19.5 | 21.3 | 26.1 | 22.5 | 24.3 | 25.9 | 22.8 | 24.4 | 20.8 | 19.4 | 20.2 |
| 5 | 21.0 | 18.6 | 19.8 | 26.3 | 23.4 | 24.9 | 26.6 | 23.4 | 25.0 | 20.9 | 18.5 | 19.8 |
| 6 | 19.5 | 16.9 | 18.2 | 25.0 | 23.3 | 24.1 | 27.4 | 24.3 | 25.8 | 20.8 | 18.4 | 19.7 |
| 7 | 20.6 | 16.2 | 18.5 | 25.6 | 22.3 | 23.9 | 27.3 | 24.6 | 26.1 | 21.2 | 18.7 | 19.9 |
| 8 | 21.7 | 17.8 | 19.6 | 24.4 | 21.8 | 23.1 | 27.4 | 24.7 | 26.1 | 21.7 | 19.2 | 20.4 |
| 9 | 22.1 | 18.9 | 20.4 | 23.5 | 21.5 | 22.4 | 27.7 | 24.8 | 26.3 | 20.8 | 18.9 | 19.7 |
| 10 | --- | --- | --- | 23.1 | 20.8 | 21.8 | 26.9 | 24.6 | 25.9 | 19.1 | 17.8 | 18.5 |
| 11 | --- | --- | --- | 24.9 | 21.1 | 22.9 | 26.1 | 23.8 | 25.1 | 18.9 | 17.2 | 18.1 |
| 12 | --- | --- | --- | 25.8 | 22.3 | 24.0 | 26.0 | 22.9 | 24.6 | 19.2 | 17.5 | 18.4 |
| 13 | 22.2 | --- | --- | 25.6 | 23.2 | 24.4 | 25.1 | 23.0 | 24.1 | 20.0 | 17.9 | 18.9 |
| 14 | 21.6 | 19.8 | 20.6 | 26.1 | 22.7 | 24.4 | 24.8 | 21.9 | 23.4 | 20.3 | 18.0 | 19.1 |
| 15 | 22.6 | 18.8 | 20.7 | --- | --- | --- | 25.1 | 22.2 | 23.7 | 20.2 | 18.2 | 19.2 |
| 16 | 22.1 | 19.5 | 20.7 | 26.1 | 23.7 | 24.9 | 25.4 | 23.0 | 24.2 | 19.4 | 18.1 | 18.7 |
| 17 | 22.1 | 18.6 | 20.3 | 26.5 | 23.5 | 25.1 | 24.4 | 22.5 | 23.5 | 19.5 | 17.7 | 18.5 |
| 18 | 22.2 | 18.4 | 20.3 | 26.7 | 23.6 | 25.2 | 25.0 | 22.6 | 23.8 | 19.4 | 17.3 | 18.3 |
| 19 | 23.4 | 19.0 | 21.2 | 27.7 | 24.3 | 26.0 | 25.0 | 22.2 | 23.6 | 19.5 | 17.2 | 18.3 |
| 20 | 24.9 | 20.6 | 22.7 | 27.8 | 24.8 | 26.3 | 25.1 | 22.1 | 23.6 | 19.4 | 17.4 | 18.4 |
| 21 | 25.5 | 22.2 | 23.6 | 27.8 | 24.8 | 26.3 | 25.8 | 22.7 | 24.3 | 18.8 | 16.9 | 17.8 |
| 22 | 24.0 | 21.6 | 22.9 | 26.9 | 25.2 | 26.0 | 25.9 | 23.8 | 24.9 | 18.2 | 16.3 | 17.3 |
| 23 | 24.6 | 20.8 | 22.7 | 26.9 | 24.1 | 25.5 | 24.8 | 23.1 | 23.9 | 18.2 | 16.7 | 17.3 |
| 24 | 25.1 | 21.4 | 23.2 | 26.8 | 24.2 | 25.6 | 23.6 | 21.3 | 22.6 | 17.7 | 15.6 | 16.6 |
| 25 | 24.9 | 22.7 | 23.8 | 26.5 | 24.0 | 25.3 | 23.6 | 20.7 | 22.2 | 17.3 | 15.2 | 16.2 |
| 26 | 25.3 | 22.5 | 23.7 | 26.6 | 23.7 | 25.2 | 23.8 | 20.7 | 22.3 | 17.6 | 15.2 | 16.3 |
| 27 | 22.8 | 20.8 | 21.5 | 27.0 | 23.8 | 25.5 | 24.2 | 21.5 | 22.9 | 17.8 | 15.7 | 16.6 |
| 28 | 21.5 | 20.4 | 21.1 | 27.1 | 24.3 | 25.8 | 24.5 | 21.8 | 23.2 | 18.0 | 15.8 | 16.7 |
| 29 | 24.4 | 19.9 | 22.0 | 27.4 | 24.7 | 26.1 | 23.2 | 21.2 | 22.3 | 16.8 | 15.9 | 16.4 |
| 30 | 26.0 | 22.1 | 24.0 | 28.0 | 24.9 | 26.5 | 22.4 | 20.3 | 21.4 | 17.5 | 16.7 | 17.1 |
| 31 | --- | --- | --- | 28.1 | 25.4 | 26.8 | 22.9 | 20.1 | 21.5 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 27.7 | 20.1 | 24.1 | 23.4 | 15.2 | 18.6 |

12510500 YAKIMA RIVER AT KIONA, WA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|------|------|----------|------|------|----------|------|------|---------|------|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 13.4 | 7.2 | 9.8 | 11.6 | 10.4 | 10.9 | 14.4 | 12.6 | 13.2 | 12.9 | 12.0 | 12.3 |
| 2 | 13.3 | 7.5 | 9.9 | 11.2 | 10.3 | 10.7 | 14.3 | 12.5 | 13.2 | 13.0 | 11.9 | 12.5 |
| 3 | 13.3 | 7.8 | 10.0 | 11.3 | 10 | 10.5 | 13.4 | 12.4 | 12.8 | 13.5 | 12.3 | 12.8 |
| 4 | 13.4 | 8.0 | 10.3 | 10.8 | 9.6 | 10.1 | 13.3 | 12.2 | 12.6 | 14.1 | 12.4 | 13.2 |
| 5 | 13.6 | 8.1 | 10.4 | --- | --- | --- | 13.8 | 12.0 | 12.6 | 14.6 | 12.9 | 13.6 |
| 6 | 13.4 | 8.0 | 10.1 | --- | --- | --- | 13.6 | 11.8 | 12.5 | 14.6 | 13.3 | 13.8 |
| 7 | 13.7 | 8.0 | 10.3 | --- | --- | --- | 13.1 | 11.5 | 12.1 | 14.4 | 13.0 | 13.7 |
| 8 | 13.2 | 8.0 | 10 | --- | --- | --- | 12.8 | 11.1 | 11.6 | 14.6 | 13.1 | 13.8 |
| 9 | 13.3 | 7.9 | 10.1 | --- | --- | --- | 12.9 | 10.9 | 11.7 | 14.6 | 13.3 | 13.7 |
| 10 | 13.1 | 8.3 | 10.2 | 12.3 | 10.8 | 11.4 | 12.4 | 10.8 | 11.4 | 14.7 | 13.3 | 13.8 |
| 11 | 12.6 | 8.6 | 10.2 | 12.7 | 10.9 | 11.6 | 12.3 | 10.3 | 11.1 | 14.5 | 13.1 | 13.5 |
| 12 | 12.4 | 8.5 | 10.1 | 11.8 | 10.9 | 11.2 | 11.7 | 10.7 | 11.2 | 14.6 | 13.0 | 13.5 |
| 13 | 12.2 | 8.6 | 10.0 | 12.1 | 10.7 | 11.2 | 11.6 | 10.8 | 11.4 | 15.1 | 12.9 | 13.8 |
| 14 | 11.8 | 8.4 | 9.7 | 12.5 | 10.7 | 11.4 | 12.2 | 11.6 | 11.9 | 15.3 | 13.6 | 14.3 |
| 15 | 11.3 | 8.0 | 9.3 | 12.2 | 10.8 | 11.3 | 12.7 | 11.9 | 12.3 | 15.7 | 14.0 | 14.7 |
| 16 | 8.5 | 7.9 | 8.2 | 12.5 | 10.6 | 11.3 | 12.5 | 12.1 | 12.2 | 15.8 | 14.3 | 14.8 |
| 17 | 8.9 | 7.8 | 8.3 | 12.9 | 10.6 | 11.5 | 12.6 | 12.0 | 12.2 | 15.5 | 14.1 | 14.6 |
| 18 | --- | --- | --- | 12.9 | 10.8 | 11.6 | 12.2 | 11.8 | 12.0 | 15.4 | 13.7 | 14.4 |
| 19 | --- | --- | --- | 13.4 | 11.0 | 12.0 | 12.3 | 11.5 | 11.8 | 14.7 | 13.0 | 13.6 |
| 20 | --- | --- | --- | 13.8 | 11.3 | 12.3 | 12.6 | 11.5 | 11.9 | --- | --- | --- |
| 21 | --- | --- | --- | 14.0 | 11.5 | 12.5 | 13.1 | 11.7 | 12.3 | --- | --- | --- |
| 22 | --- | --- | --- | 14.0 | 11.6 | 12.5 | 13.3 | 12.2 | 12.5 | --- | --- | --- |
| 23 | --- | --- | --- | 14.2 | 11.7 | 12.7 | 13.5 | 12.3 | 12.8 | --- | --- | --- |
| 24 | --- | --- | --- | 13.3 | 11.4 | 12.1 | 13.5 | 12.4 | 12.8 | --- | --- | --- |
| 25 | --- | --- | --- | 13.4 | 11.0 | 11.9 | 13.0 | 12.3 | 12.6 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 14.4 | 10.3 | 12.3 | --- | --- | --- |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 12.8 | 12.2 | 12.5 | 13.6 | 10.9 | 12.0 | 13.6 | 9.6 | 11.2 | 11.7 | 7.9 | 9.5 |
| 2 | 12.8 | 12.2 | 12.5 | 13.6 | 10.7 | 11.8 | 14.2 | 9.6 | 11.6 | 11.4 | 7.4 | 9.0 |
| 3 | 12.8 | 12.2 | 12.5 | 13.5 | 10.5 | 11.6 | 14.4 | 9.3 | 11.2 | 12.6 | 7.5 | 9.7 |
| 4 | 12.5 | 12.2 | 12.3 | 13.6 | 10.3 | 11.5 | 13.8 | 9.0 | 11.1 | 12.8 | 6.9 | 9.3 |
| 5 | 12.9 | 12.3 | 12.6 | 13.9 | 10.2 | 11.5 | 14.6 | 9.2 | 11.4 | 12.1 | 6.6 | 9.2 |
| 6 | 12.8 | 12.3 | 12.6 | 13.9 | 9.9 | 11.4 | 14.5 | 8.7 | 11.3 | 13.8 | 7.0 | 10 |
| 7 | 13.0 | 12.3 | 12.6 | 13.9 | 9.6 | 11.2 | 13.8 | 7.8 | 10.6 | 14.7 | 7.0 | 10.5 |
| 8 | 13.1 | 12.5 | 12.8 | 13.7 | 9.4 | 11.0 | 14.7 | 8.3 | 11.2 | 14.8 | 6.6 | 10 |
| 9 | 13.3 | 12.6 | 12.9 | 13.5 | 9.0 | 10.7 | 14.5 | 8.0 | 10.8 | 14.1 | 6.6 | 10.1 |
| 10 | 13.5 | 12.4 | 12.9 | 13.2 | 8.8 | 10.4 | 14.7 | 8.2 | 11.1 | 14.0 | 7.3 | 10.3 |
| 11 | 13.1 | 12.3 | 12.7 | 13.8 | 8.7 | 10.6 | 14.0 | 7.7 | 10.7 | 11.7 | 7.2 | 9.3 |
| 12 | 13.0 | 12.3 | 12.6 | 13.1 | 8.7 | 10.4 | 13.5 | 7.6 | 10.5 | --- | 6.7 | --- |
| 13 | 12.9 | 12.2 | 12.5 | 13.2 | 8.9 | 10.6 | 14.9 | 8.1 | 11.0 | --- | --- | --- |
| 14 | 13.0 | 12.2 | 12.5 | 13.4 | 9.1 | 10.7 | 15.2 | 7.6 | 11.0 | --- | --- | --- |
| 15 | 13.2 | 12.3 | 12.7 | 13.0 | 8.9 | 10.6 | 15.3 | 7.5 | 11.1 | --- | --- | --- |
| 16 | 13.4 | 12.5 | 12.9 | 12.6 | 8.7 | 9.9 | 13.7 | 7.5 | 10.4 | --- | --- | --- |
| 17 | 13.5 | 12.6 | 13.0 | 13.1 | 9.4 | 10.7 | 15.0 | 8.0 | 11.0 | --- | --- | --- |
| 18 | 13.5 | 12.5 | 13.0 | 12.9 | 9.2 | 10.5 | 14.6 | 8.0 | 11.0 | 12.3 | 7.8 | 9.7 |
| 19 | 13.4 | 12.4 | 12.8 | 12.0 | 9.1 | 10.1 | 14.1 | 7.8 | 10.8 | 13.8 | 8.0 | 10.6 |
| 20 | 13.1 | 12.3 | 12.6 | 12.9 | 9.2 | 10.5 | 14.3 | 7.8 | 10.8 | 13.9 | 7.9 | 10.6 |
| 21 | 13.5 | 12.3 | 12.8 | 12.8 | 9.2 | 10.7 | 13.8 | 7.2 | 10.3 | 13.5 | 8.1 | 10.5 |
| 22 | 13.5 | 12.3 | 12.8 | 12.9 | 8.8 | 10.4 | 12.8 | 7.2 | 9.8 | 14.9 | 8.1 | 11.2 |
| 23 | 13.6 | 12.3 | 12.8 | 14.4 | 8.3 | 11.0 | 11.5 | 6.1 | 8.3 | 15.2 | 7.9 | 11.2 |
| 24 | 13.6 | 12.1 | 12.7 | 13.7 | 9.9 | 11.4 | 11.7 | 7.2 | 9.2 | 15.4 | 7.5 | 11.1 |
| 25 | 13.6 | 11.9 | 12.6 | 13.2 | 9.7 | 11.3 | 10.3 | 6.8 | 8.3 | 15.6 | 6.8 | 10.9 |
| 26 | 13.6 | 11.8 | 12.5 | 12.5 | 9.4 | 10.6 | 9.9 | 6.2 | 7.8 | 15.1 | 6.0 | 10.3 |
| 27 | 13.6 | 11.6 | 12.4 | 13.2 | 9.4 | 10.8 | 9.4 | 6.3 | 7.7 | 14.9 | 5.2 | 9.7 |
| 28 | 13.5 | 11.3 | 12.0 | 13.0 | 9.1 | 10.9 | 9.9 | 7.1 | 8.3 | 14.6 | 4.3 | 9.4 |
| 29 | --- | --- | --- | 12.9 | 9.6 | 11.0 | 9.3 | 7.3 | 8.3 | 15.1 | 3.7 | 9.4 |
| 30 | --- | --- | --- | 13.0 | 9.6 | 11.1 | 10.6 | 8.0 | 9.2 | 15.8 | 3.4 | 9.5 |
| 31 | --- | --- | --- | 13.9 | 9.8 | 11.5 | --- | --- | --- | 15.0 | 3.4 | 9.2 |
| MONTH | 13.6 | 11.3 | 12.6 | 14.4 | 8.3 | 10.9 | 15.3 | 6.1 | 10.2 | --- | --- | --- |

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 14.6 | 5.4 | 9.8 | 12.5 | 4.5 | 8.4 | 10.0 | 3.0 | 6.3 | 11.7 | 5.2 | 8.1 |
| 2 | 14.9 | 5.7 | 10.2 | 12.4 | 4.6 | 8.5 | 11.2 | 3.7 | 7.2 | 11.1 | 5.1 | 7.9 |
| 3 | 14.0 | 5.6 | 9.5 | 12.3 | 4.9 | 8.5 | 11.5 | 4.3 | 7.7 | 11.4 | 5.5 | 8.1 |
| 4 | 12.8 | 4.9 | 8.6 | 11.9 | 4.6 | 8.2 | 11.6 | 4.5 | 7.8 | 11.9 | 5.8 | 8.6 |
| 5 | 13.1 | 4.6 | 8.4 | 11.7 | 4.4 | 7.9 | 11.5 | 4.5 | 7.7 | 12.3 | 6.2 | 9.0 |
| 6 | 14.3 | 5.8 | 9.4 | 11.1 | 4.2 | 7.6 | 11.4 | 4.0 | 7.5 | 12.2 | 6.3 | 9.1 |
| 7 | 15.6 | 5.8 | 9.9 | 11.7 | 4.5 | 8.0 | 11.4 | 3.9 | 7.4 | 11.7 | 6.4 | 8.8 |
| 8 | 14.4 | 6.1 | 9.9 | 11.5 | 4.7 | 7.6 | 11.5 | 3.9 | 7.4 | 12.2 | 6.2 | 8.9 |
| 9 | 13.9 | 5.3 | 9.4 | 11.5 | 4.5 | 7.9 | 11.6 | 3.8 | 7.5 | 12.1 | 5.9 | 8.6 |
| 10 | --- | --- | --- | 11.8 | 5.2 | 8.5 | 11.3 | 4.0 | 7.3 | 12.2 | 6.8 | 9.2 |
| 11 | --- | --- | --- | 11.8 | 5.4 | 8.4 | 11.7 | 3.7 | 7.3 | 13.1 | 7.1 | 9.9 |
| 12 | --- | --- | --- | 11.3 | 4.8 | 8.0 | 11.9 | 4.0 | 7.5 | 11.6 | 7.2 | 9.1 |
| 13 | --- | --- | --- | 12.3 | 4.2 | 8.2 | 11.9 | 3.9 | 7.6 | 11.6 | 6.5 | 8.7 |
| 14 | 13.4 | 5.6 | 9.0 | 12.0 | 5.0 | 8.4 | 11.8 | 4.5 | 7.9 | 11.8 | 6.4 | 8.8 |
| 15 | 14.2 | 6.4 | 10.1 | 11.4 | 4.8 | 7.2 | 11.8 | 4.6 | 7.9 | 11.8 | 6.3 | 8.7 |
| 16 | 13.9 | 6.1 | 9.7 | 11.5 | 4.1 | 7.6 | 11.5 | 4.5 | 7.8 | 11.3 | 6.2 | 8.2 |
| 17 | 13.9 | 6.3 | 10.0 | 11.2 | 4.3 | 7.6 | 10.9 | 4.5 | 7.1 | 12.0 | 6.2 | 8.6 |
| 18 | 13.9 | 6.8 | 10.1 | 10.9 | 4.3 | 7.4 | 11.9 | 4.7 | 8.1 | 12.1 | 6.4 | 8.9 |
| 19 | 13.7 | 6.7 | 10.0 | 10.6 | 3.8 | 7.0 | 12.2 | 4.8 | 8.2 | 11.8 | 6.4 | 8.7 |
| 20 | --- | --- | --- | 10.6 | 3.7 | 7.0 | 12.3 | 5.0 | 8.4 | 11.6 | 6.3 | 8.6 |
| 21 | --- | --- | --- | 10.4 | 3.7 | 6.8 | 12.3 | 4.8 | 8.3 | 11.7 | 6.3 | 8.7 |
| 22 | --- | --- | --- | 9.4 | 3.0 | 5.9 | 11.7 | 4.3 | 8.0 | 11.7 | 6.4 | 8.6 |
| 23 | --- | --- | --- | 10.9 | 3.9 | 7.2 | 12.5 | 4.5 | 8.2 | 11.6 | 6.3 | 8.7 |
| 24 | --- | --- | --- | 10.9 | 4.2 | 7.3 | 9.6 | 5.2 | 7.3 | 11.7 | 6.6 | 8.8 |
| 25 | --- | --- | --- | 11.2 | 4.2 | 7.5 | 10.0 | 4.6 | 6.5 | 11.7 | 6.7 | 8.8 |
| 26 | --- | --- | --- | 10.5 | 4.3 | 7.3 | 9.8 | 4.5 | 6.6 | 11.4 | 6.6 | 8.7 |
| 27 | --- | --- | --- | 10.7 | 4.1 | 7.1 | 10.6 | 4.2 | 6.6 | 11.6 | 6.4 | 8.7 |
| 28 | --- | --- | --- | 10.8 | 3.9 | 7.1 | 10.7 | 4.3 | 6.8 | 11.8 | 6.8 | 8.9 |
| 29 | 12.9 | 5.8 | 9.2 | 10.7 | 3.6 | 6.9 | 12.7 | 4.5 | 7.6 | 9.3 | 6.6 | 7.8 |
| 30 | 12.3 | 4.8 | 8.4 | 10.6 | 3.3 | 6.7 | 11.8 | 5.2 | 8.2 | 8.9 | 6.6 | 7.5 |
| 31 | --- | --- | --- | 10.5 | 3.1 | 6.6 | 11.7 | 5.4 | 8.3 | --- | --- | --- |
| MONTH | --- | --- | --- | 12.5 | 3.0 | 7.6 | 12.7 | 3.0 | 7.5 | 13.1 | 5.1 | 8.7 |

YAKIMA RIVER BASIN

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12510500 YAKIMA RIVER AT KIONA, WA—Continued

CHLOROPHYLL, TOTAL, WATER, FLUOROMETRIC, 650-700 NANOMETERS, IN-SITU SENSOR, MICROGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 2.9 | 1.1 | 2.0 | 2.4 | 0.8 | 1.6 | 8.9 | 3.8 | 6.2 | 3.8 | 1.4 | 2.4 |
| 2 | 6.6 | 1.2 | 2.4 | 2.6 | 0.9 | 1.8 | 8.6 | 3.1 | 4.6 | 3.6 | 1.7 | 2.6 |
| 3 | 14 | 1.5 | 3.1 | 2.4 | 0.6 | 1.8 | 7.8 | 2.6 | 4.4 | 3.4 | 1.5 | 2.4 |
| 4 | 12 | 1.1 | 2.1 | 3.2 | 1.1 | 1.9 | 13 | 2.3 | 4.5 | 3.6 | 1.3 | 2.2 |
| 5 | 3.0 | 1.1 | 1.9 | 3.3 | 1.3 | 2.2 | 5.3 | 1.5 | 3.0 | 3.4 | 1.0 | 2.0 |
| 6 | 3.8 | 1.1 | 1.9 | 4.4 | 1.2 | 2.1 | 11 | 1.5 | 2.9 | 2.9 | 1.0 | 1.9 |
| 7 | 2.6 | 0.9 | 1.7 | 3.2 | 1.1 | 2.1 | 6.5 | 1.9 | 3.2 | 3.4 | 1.2 | 1.9 |
| 8 | 2.5 | 1.1 | 1.8 | 3.5 | 1.2 | 2.1 | 6.3 | 2.0 | 3.6 | 4.3 | 1.3 | 2.0 |
| 9 | 3.1 | 1.1 | 2.0 | --- | --- | --- | 6.4 | 2.8 | 4.0 | 3.0 | 1.4 | 2.1 |
| 10 | 3.1 | 1.5 | 2.2 | --- | --- | --- | 7.4 | 2.4 | 4.0 | 3.0 | 1.5 | 2.1 |
| 11 | 3.1 | 1.5 | 2.3 | --- | --- | --- | 6.6 | 2.3 | 3.7 | 3.7 | 1.6 | 2.2 |
| 12 | 3.6 | 1.3 | 2.2 | --- | --- | --- | 14 | 2.7 | 8.2 | 2.9 | 1.5 | 2.2 |
| 13 | 2.8 | 1.0 | 2.0 | 2.8 | 1.3 | 1.8 | 19 | 6.7 | 11 | 3.0 | 1.4 | 2.1 |
| 14 | 2.8 | 1.1 | 1.8 | 2.4 | 0.8 | 1.6 | 12 | 3.6 | 7.0 | 3.2 | 1.6 | 2.3 |
| 15 | 6.0 | 1.0 | 2.0 | 2.4 | 1.0 | 1.7 | 5.0 | 2.4 | 3.6 | 6.5 | 1.5 | 2.4 |
| 16 | 4.9 | 1.5 | 3.3 | 2.5 | 1.0 | 1.7 | 4.0 | 2.1 | 3.0 | 3.4 | 1.1 | 2.1 |
| 17 | 4.2 | 1.7 | 2.8 | 2.4 | 0.9 | 1.7 | 5.5 | 1.9 | 2.8 | 3.3 | 1.6 | 2.2 |
| 18 | 3.1 | 1.3 | 2.1 | 2.7 | 0.9 | 1.7 | 5.4 | 1.8 | 2.7 | 3.3 | 1.4 | 2.3 |
| 19 | 4.9 | 1.8 | 2.6 | 2.4 | 0.8 | 1.6 | 4.5 | 1.5 | 2.3 | 15 | 1.9 | 4.8 |
| 20 | 6.3 | 1.5 | 2.4 | 2.2 | 0.7 | 1.6 | 3.0 | 1.5 | 2.2 | 28 | 12 | 20 |
| 21 | 2.9 | 1.3 | 1.9 | 2.3 | 0.9 | 1.6 | 2.9 | 1.4 | 2.2 | 25 | 8.7 | 15 |
| 22 | 3.9 | 1.3 | 2.2 | 2.7 | 0.9 | 1.6 | 2.7 | 1.3 | 2.0 | 18 | 6.7 | 10 |
| 23 | 2.7 | 1.2 | 1.9 | 7.4 | 0.9 | 1.7 | 7.8 | 1.1 | 2.0 | 16 | 5.2 | 8.2 |
| 24 | 3.0 | 1.0 | 1.7 | 2.9 | 1.2 | 1.9 | 6.4 | 0.8 | 2.0 | 18 | 5.0 | 8.3 |
| 25 | 3.1 | 0.8 | 1.6 | 2.9 | 1.2 | 2.1 | 2.8 | 1.2 | 2.0 | 18 | 4.1 | 8.3 |
| MONTH | --- | --- | --- | --- | --- | --- | 19 | 0.8 | 3.5 | 28 | 1.0 | 4.5 |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 4.1 | 1.6 | 2.8 | 3.9 | 1.3 | 2.2 | 10 | 3.0 | 5.2 | 5.8 | 1.5 | 3.5 |
| 2 | 4.3 | 1.4 | 2.3 | 3.9 | 1.4 | 2.4 | 7.6 | 2.9 | 4.3 | 5.3 | 1.4 | 3.8 |
| 3 | 11 | 1.3 | 2.5 | 4.0 | 1.5 | 2.5 | 9.0 | 2.7 | 4.9 | 4.9 | 1.1 | 3.3 |
| 4 | 5.3 | 1.5 | 2.3 | 3.6 | 1.8 | 2.6 | 12 | 4.7 | 6.4 | 4.5 | 1.1 | 3.0 |
| 5 | 5.5 | 1.0 | 2.1 | 4.0 | 1.5 | 2.6 | 11 | 2.7 | 5.2 | 4.4 | 1.7 | 3.2 |
| 6 | 3.9 | 1.0 | 1.9 | 6.6 | 1.3 | 2.5 | 8.3 | 2.0 | 4.2 | 4.5 | 1.6 | 3.1 |
| 7 | 2.5 | 1.0 | 1.8 | 4.3 | 2.0 | 2.8 | 11 | 3.9 | 6.6 | 5.0 | 1.4 | 3.1 |
| 8 | 2.4 | 1.0 | 1.7 | 8.2 | 2.0 | 3.1 | 13 | 3.1 | 6.5 | 5.5 | 2.1 | 3.6 |
| 9 | 4.6 | 0.8 | 1.7 | 7.1 | 2.5 | 3.5 | 24 | 5.2 | 8.4 | 5.4 | 2.5 | 3.7 |
| 10 | 7.7 | 0.8 | 1.6 | 6.0 | 3.0 | 4.0 | 12 | 3.2 | 5.9 | 5.3 | 2.7 | 4.1 |
| 11 | 2.4 | 0.8 | 1.5 | 6.3 | 3.0 | 4.3 | 14 | 4.7 | 7.0 | 13 | 4.1 | 8.5 |
| 12 | 2.4 | 0.7 | 1.5 | 7.6 | 3.0 | 4.7 | 14 | 4.7 | 8.1 | --- | --- | --- |
| 13 | 2.2 | 0.7 | 1.4 | 7.8 | 2.9 | 4.4 | --- | --- | --- | --- | --- | --- |
| 14 | 2.1 | 0.5 | 1.4 | 6.1 | 2.8 | 4.4 | 12 | 3.2 | 6.3 | --- | --- | --- |
| 15 | 5.3 | 0.4 | 1.5 | 6.3 | 3.1 | 4.3 | 10 | 4.0 | 6.5 | --- | --- | --- |
| 16 | 2.0 | 0.3 | 1.3 | 8.6 | 3.2 | 5.1 | 13 | 5.2 | 7.7 | --- | --- | --- |
| 17 | 2.0 | 0.4 | 1.3 | 6.3 | 2.4 | 3.8 | 12 | 3.5 | 6.5 | --- | --- | --- |
| 18 | 2.2 | 0.4 | 1.3 | 6.4 | 2.0 | 3.5 | 10 | 3.1 | 6.5 | 6.1 | 1.9 | 4.2 |
| 19 | 2.1 | 0.4 | 1.2 | 5.6 | 2.6 | 3.6 | 11 | 3.0 | 6.8 | 6.0 | 1.5 | 3.8 |
| 20 | 2.3 | 0.7 | 1.4 | 6.8 | 2.2 | 3.3 | 9.0 | 2.5 | 6.0 | 6.1 | 2.2 | 3.6 |
| 21 | 2.3 | 0.4 | 1.4 | 8.5 | 1.9 | 3.1 | 9.4 | 3.3 | 6.3 | 5.5 | 1.6 | 3.7 |
| 22 | 2.2 | 0.5 | 1.4 | 5.7 | 0.4 | 3.0 | 10 | 2.7 | 6.3 | 5.0 | 1.7 | 3.3 |
| 23 | 6.4 | 0.5 | 1.5 | 4.2 | 1.3 | 2.7 | 9.6 | 3.5 | 6.7 | 9.1 | 1.7 | 3.2 |
| 24 | 4.9 | 0.4 | 1.5 | 3.4 | 1.4 | 2.4 | 8.4 | 3.6 | 6.2 | 4.5 | 2.1 | 3.3 |
| 25 | 2.5 | 0.5 | 1.5 | 3.4 | 0.9 | 2.4 | 12 | 3.6 | 7.0 | 4.9 | 1.4 | 3.1 |
| 26 | 2.4 | 0.9 | 1.7 | 3.6 | 1.9 | 2.7 | 18 | 6.5 | 9.9 | 4.6 | 2.1 | 3.1 |
| 27 | 2.8 | 0.8 | 1.8 | 3.9 | 1.6 | 2.8 | 11 | 5.5 | 8.3 | 4.8 | 1.6 | 3.4 |
| 28 | 4.3 | 1.3 | 2.5 | 5.6 | 1.7 | 3.5 | 9.9 | 5.7 | 8.0 | 4.9 | 2.3 | 3.5 |
| 29 | --- | --- | --- | 8.7 | 3.6 | 5.5 | 9.8 | 5.6 | 7.3 | 5.6 | 2.6 | 3.7 |
| 30 | --- | --- | --- | 10 | 3.1 | 7.0 | 7.9 | 3.4 | 5.3 | 5.9 | 2.3 | 4.1 |
| 31 | --- | --- | --- | 9.2 | 3.4 | 5.5 | --- | --- | --- | 6.0 | 3.0 | 4.5 |
| MONTH | 11 | 0.3 | 1.7 | 10 | 0.4 | 3.6 | --- | --- | --- | --- | --- | --- |

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

CHLOROPHYLL, TOTAL, WATER, FLUOROMETRIC, 650-700 NANOMETERS, IN-SITU SENSOR, MICROGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 6.9 | 2.5 | 4.8 | 4.1 | 1.6 | 2.9 | 25 | 3.4 | 8.4 | 9.8 | 1.7 | 4.0 |
| 2 | 6.6 | 2.9 | 4.8 | 4.4 | 1.3 | 3.0 | 18 | 3.4 | 7.5 | 12 | 2.0 | 4.2 |
| 3 | 7.0 | 2.9 | 5.1 | 4.5 | 1.5 | 3.1 | 20 | 3.4 | 7.2 | 14 | 2.0 | 4.3 |
| 4 | 7.5 | 3.4 | 5.3 | 4.2 | 1.5 | 3.2 | 19 | 3.1 | 7.2 | 8.5 | 1.6 | 3.5 |
| 5 | 7.3 | 3.4 | 5.0 | 4.8 | 2.0 | 3.3 | 13 | 2.9 | 6.0 | 6.8 | 1.6 | 3.2 |
| 6 | 6.1 | 3.2 | 4.6 | 4.5 | 2.1 | 3.3 | 14 | 2.3 | 6.2 | 12 | 1.8 | 4.0 |
| 7 | 11 | 3.0 | 4.4 | 4.3 | 2.2 | 3.2 | 15 | 2.7 | 6.1 | 14 | 1.9 | 5.6 |
| 8 | 8.6 | 3.5 | 5.6 | 4.8 | 2.0 | 3.3 | 16 | 2.7 | 6.5 | 20 | 1.5 | 3.8 |
| 9 | --- | --- | --- | 4.4 | 2.0 | 3.1 | 18 | 2.7 | 6.5 | 7.3 | 1.7 | 3.4 |
| 10 | --- | --- | --- | 4.4 | 1.9 | 3.3 | 19 | 2.2 | 6.0 | 7.0 | 1.3 | 3.1 |
| 11 | --- | --- | --- | 4.2 | 2.0 | 3.1 | 11 | 2.5 | 5.0 | 8.4 | 1.5 | 3.0 |
| 12 | --- | --- | --- | 10 | 1.9 | 3.2 | 11 | 1.7 | 4.9 | 10 | 2.2 | 4.8 |
| 13 | --- | --- | --- | 4.1 | 1.9 | 2.9 | 13 | 2.1 | 5.2 | 15 | 2.7 | 5.5 |
| 14 | 5.4 | 2.3 | 3.8 | 4.3 | 1.9 | 3.0 | 18 | 2.7 | 6.0 | 18 | 2.0 | 4.3 |
| 15 | 5.1 | 2.0 | 3.6 | --- | --- | --- | 12 | 2.6 | 5.2 | 9.2 | 1.4 | 3.6 |
| 16 | 4.9 | 2.4 | 3.7 | 4.4 | 2.3 | 3.2 | 12 | 2.3 | 4.8 | 9.5 | 1.6 | 3.7 |
| 17 | 5.2 | 2.1 | 3.6 | 4.8 | 2.1 | 3.3 | 13 | 2.2 | 4.9 | 9.2 | 1.4 | 3.3 |
| 18 | 5.2 | 2.1 | 3.8 | 4.5 | 2.0 | 3.4 | 7.8 | 1.8 | 3.8 | 9.2 | 1.8 | 3.8 |
| 19 | 5.2 | 2.0 | 3.7 | 4.6 | 2.1 | 3.3 | 6.9 | 2.3 | 3.8 | 11 | 2.2 | 4.1 |
| 20 | 5.0 | 2.2 | 3.5 | 6.5 | 1.8 | 3.4 | 8.4 | 2.1 | 4.2 | 11 | 1.9 | 4.7 |
| 21 | 5.3 | 1.9 | 3.5 | 7.0 | 2.5 | 3.4 | 10 | 1.7 | 4.4 | 10 | 2.1 | 4.2 |
| 22 | 5.1 | 2.0 | 3.5 | 5.8 | 2.5 | 3.5 | 11 | 1.2 | 4.7 | 15 | 1.7 | 3.9 |
| 23 | 5.3 | 2.1 | 3.4 | 4.7 | 2.2 | 3.2 | 13 | 2.3 | 4.9 | 9.8 | 2.5 | 4.2 |
| 24 | 4.3 | 1.8 | 3.1 | 6.7 | 2.0 | 3.4 | 12 | 1.8 | 4.9 | 15 | 1.8 | 4.0 |
| 25 | 4.8 | 1.8 | 3.4 | 9.7 | 2.0 | 3.5 | 12 | 1.3 | 3.5 | 8.9 | 2.3 | 3.9 |
| 26 | 4.3 | 1.9 | 3.3 | 6.8 | 1.7 | 3.8 | 10 | 1.6 | 3.7 | 13 | 2.3 | 4.4 |
| 27 | 7.1 | 2.5 | 3.7 | 7.4 | 2.5 | 4.2 | 7.4 | 1.6 | 3.6 | 12 | 2.4 | 4.2 |
| 28 | 4.6 | 1.9 | 3.3 | 6.9 | 3.2 | 4.8 | 9.7 | 1.7 | 3.5 | 11 | 2.2 | 4.3 |
| 29 | 4.6 | 1.4 | 3.0 | 15 | 3.2 | 6.9 | 15 | 2.0 | 3.8 | 12 | 2.1 | 5.1 |
| 30 | 4.1 | 1.1 | 2.9 | 19 | 3.5 | 8.4 | 16 | 2.2 | 4.9 | 12 | 2.3 | 5.1 |
| 31 | --- | --- | --- | 19 | 3.4 | 8.1 | 12 | 2.2 | 4.5 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 25 | 1.2 | 5.2 | 20 | 1.3 | 4.1 |

12510500 YAKIMA RIVER AT KIONA, WA—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| DAY | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN |
|-----|----------|------|--------|----------|------|--------|----------|------|--------|---------|------|--------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 3.0 | 1.3 | 2.2 | 5.2 | 1.0 | 1.8 | 16 | 2.0 | 4.6 | 2.3 | 1.1 | 1.4 |
| 2 | 4.5 | 1.6 | 2.4 | 3.7 | <1.0 | 1.8 | 3.7 | 1.4 | 2.4 | 6.5 | 1.3 | 1.8 |
| 3 | 6.3 | 2.1 | 3.5 | 5.4 | <1.0 | 2.8 | 2.7 | 1.1 | 1.5 | 3.7 | 1.3 | 1.8 |
| 4 | 4.8 | 1.7 | 2.8 | 4.9 | 1.5 | 3.0 | 7.5 | <1.0 | 1.4 | 11 | 1.2 | 1.8 |
| 5 | 3.0 | 1.5 | 2.4 | 6.6 | 3.3 | 4.7 | 1.7 | <1.0 | 1.2 | 3.7 | 1.1 | 1.6 |
| 6 | 11 | 1.6 | 2.3 | 5.3 | 2.1 | 3.0 | 1.8 | <1.0 | 1.1 | 5.5 | 1.3 | 1.8 |
| 7 | 4.9 | 1.0 | 1.9 | 4.1 | 1.4 | 2.4 | 11 | <1.0 | 1.2 | 6.8 | 1.6 | 1.9 |
| 8 | 2.9 | 1.2 | 2.0 | 5.9 | 1.3 | 2.2 | 3.3 | 1.0 | 2.0 | 5.0 | 2.0 | 2.4 |
| 9 | 5.8 | 1.5 | 2.6 | 6.6 | 1.2 | 2.5 | 3.7 | 1.0 | 2.2 | 7.6 | 2.0 | 2.4 |
| 10 | 5.0 | 1.8 | 2.9 | 4.0 | 1.4 | 2.8 | 4.5 | 1.1 | 2.4 | 3.7 | 1.7 | 2.3 |
| 11 | 5.7 | 2.1 | 3.7 | 4.9 | 1.7 | 3.5 | 4.5 | 1.6 | 3.1 | 3.4 | 1.8 | 2.1 |
| 12 | 11 | 2.2 | 3.6 | 9.8 | 1.2 | 2.3 | 36 | 3.9 | 10 | 4.1 | 2.4 | 2.7 |
| 13 | 4.3 | 1.7 | 3.1 | 3.7 | <1.0 | 1.1 | 34 | 20 | 25 | 4.8 | 2.0 | 2.5 |
| 14 | 10 | 1.6 | 2.6 | 1.9 | <1.0 | <1.0 | 27 | 9.5 | 18 | 4.2 | 2.5 | 3.0 |
| 15 | 5.2 | 1.5 | 2.6 | 3.4 | <1.0 | <1.0 | 11 | 5.0 | 7.1 | 4.4 | 2.5 | 2.9 |
| 16 | 11 | 4.1 | 6.8 | 2.5 | <1.0 | 1.0 | 6.2 | 3.9 | 4.8 | 5.6 | 2.4 | 2.8 |
| 17 | 9.2 | 3.3 | 5.2 | 3.9 | <1.0 | 1.9 | 7.2 | 3.0 | 3.8 | 12 | 2.6 | 3.0 |
| 18 | 9.8 | 2.6 | 3.4 | 3.1 | <1.0 | 1.8 | 9.7 | 2.7 | 3.5 | 4.1 | 2.9 | 3.3 |
| 19 | 8.5 | 3.6 | 6.5 | 2.9 | <1.0 | 1.1 | 11 | 2.4 | 3.2 | 34 | 3.3 | 4.4 |
| 20 | 9.0 | 3.6 | 5.8 | 1.5 | <1.0 | <1.0 | 4.8 | 2.8 | 3.4 | >250 | --- | --- |
| 21 | 7.3 | 2.8 | 4.3 | 3.4 | <1.0 | <1.0 | 12 | 1.6 | 2.6 | --- | --- | --- |
| 22 | 13 | 3.6 | 6.4 | 1.7 | <1.0 | <1.0 | 9.0 | 1.4 | 2.0 | --- | --- | --- |
| 23 | 16 | 5.1 | 6.2 | 1.6 | <1.0 | <1.0 | 3.0 | 1.5 | 2.0 | --- | --- | --- |
| 24 | 10 | 4.3 | 5.7 | 2.6 | <1.0 | <1.0 | 7.9 | 1.5 | 1.9 | --- | --- | --- |
| 25 | 9.0 | 3.9 | 5.0 | 5.0 | <1.0 | 2.2 | 2.3 | 1.3 | 1.7 | --- | --- | --- |
| 26 | 8.3 | 4.3 | 5.3 | 12 | <1.0 | 2.1 | 4.9 | 1.0 | 1.6 | --- | --- | --- |
| 27 | 6.9 | 1.9 | 5.4 | 4.7 | 1.8 | 2.5 | 2.5 | 1.0 | 1.4 | --- | --- | --- |
| 28 | 5.3 | 1.5 | 3.3 | 6.5 | 1.9 | 2.7 | 2.6 | <1.0 | 1.3 | --- | --- | --- |
| 29 | 7.4 | 2.8 | 4.7 | 6.5 | 1.8 | 2.4 | 9.2 | 1.0 | 1.4 | --- | --- | --- |
| 30 | 11 | 3.5 | 5.8 | 7.8 | 1.4 | 2.7 | 2.0 | 1.1 | 1.4 | --- | --- | --- |
| 31 | 6.1 | 1.4 | 2.6 | --- | --- | --- | 4.4 | 1.0 | 1.4 | --- | --- | --- |
| MAX | 16 | 5.1 | 6.8 | 12 | 3.3 | 4.7 | 36 | 20 | 25 | --- | --- | --- |
| MIN | 2.9 | 1.0 | 1.9 | 1.5 | 1.0 | 1.0 | 1.7 | 1.0 | 1.1 | --- | --- | --- |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | --- | --- | --- | 8.5 | <1.0 | 2.1 | 7.7 | 1.1 | 3.2 | 7.7 | <1.0 | 3.5 |
| 2 | --- | --- | --- | 11 | <1.0 | 2.2 | 4.0 | <1.0 | 1.9 | 8.1 | 1.8 | 4.0 |
| 3 | --- | --- | --- | 11 | 1.2 | 2.5 | 6.8 | <1.0 | 2.5 | 5.7 | <1.0 | 1.6 |
| 4 | --- | --- | --- | 9.7 | 1.9 | 3.6 | 6.8 | 1.9 | 4.5 | 7.0 | <1.0 | 1.5 |
| 5 | --- | --- | --- | --- | --- | --- | 7.6 | <1.0 | 2.2 | 5.0 | <1.0 | <1.0 |
| 6 | --- | --- | --- | --- | --- | --- | 4.1 | <1.0 | 1.7 | 14 | <1.0 | <1.0 |
| 7 | --- | --- | --- | --- | --- | --- | 5.6 | <1.0 | 2.9 | 9.7 | <1.0 | 1.1 |
| 8 | --- | --- | --- | --- | --- | --- | 5.1 | <1.0 | 2.2 | 7.0 | <1.0 | <1.0 |
| 9 | --- | --- | --- | --- | --- | --- | 6.0 | 1.7 | 3.5 | 2.6 | <1.0 | <1.0 |
| 10 | --- | --- | --- | --- | --- | --- | 6.5 | <1.0 | 2.7 | 2.9 | <1.0 | <1.0 |
| 11 | 3.3 | 1.5 | 2.0 | --- | --- | --- | 6.5 | 1.0 | 3.2 | 18 | 2.1 | 8.4 |
| 12 | 3.5 | 1.2 | 1.6 | 10 | <1.0 | 2.9 | 14 | <1.0 | 3.8 | --- | --- | --- |
| 13 | 2.7 | 1.1 | 1.5 | 11 | <1.0 | 1.6 | 11 | <1.0 | 1.4 | --- | --- | --- |
| 14 | 3.7 | 1.6 | 2.0 | 11 | <1.0 | 2.1 | 3.4 | <1.0 | <1.0 | --- | --- | --- |
| 15 | 5.0 | 1.4 | 2.1 | 9.2 | <1.0 | 2.5 | 2.2 | <1.0 | <1.0 | --- | --- | --- |
| 16 | 3.2 | 1.3 | 2.0 | 14 | <1.0 | 2.5 | 2.2 | <1.0 | <1.0 | --- | --- | --- |
| 17 | 10 | <1.0 | 1.6 | 6.8 | <1.0 | 1.6 | 5.2 | <1.0 | <1.0 | --- | --- | --- |
| 18 | 12 | <1.0 | 2.0 | 9.9 | <1.0 | 1.6 | 3.5 | <1.0 | 1.2 | 16 | 2.1 | 4.7 |
| 19 | 8.4 | <1.0 | 1.9 | 11 | <1.0 | 1.5 | 4.9 | <1.0 | 1.8 | 9.2 | <1.0 | 3.0 |
| 20 | 6.0 | <1.0 | 1.9 | 7.4 | <1.0 | 1.9 | 2.7 | <1.0 | <1.0 | 6.0 | <1.0 | 2.4 |
| 21 | 9.6 | <1.0 | 2.0 | 8.8 | <1.0 | 1.3 | 1.3 | <1.0 | <1.0 | 5.6 | <1.0 | 2.0 |
| 22 | 13 | <1.0 | 1.7 | 16 | <1.0 | 1.5 | 7.1 | <1.0 | <1.0 | 4.9 | <1.0 | 1.3 |
| 23 | 14 | <1.0 | 1.7 | 7.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.8 | <1.0 | <1.0 |
| 24 | 8.3 | <1.0 | 1.4 | 1.5 | <1.0 | <1.0 | 2.4 | <1.0 | 1.0 | 1.0 | <1.0 | <1.0 |
| 25 | 6.4 | <1.0 | 1.3 | <1.0 | <1.0 | <1.0 | 59 | 2.2 | 4.0 | 1.4 | <1.0 | <1.0 |
| 26 | 12 | <1.0 | 1.3 | <1.0 | <1.0 | <1.0 | 45 | 8.6 | 13 | <1.0 | <1.0 | <1.0 |
| 27 | 10 | <1.0 | 1.4 | 1.8 | <1.0 | <1.0 | 15 | 9.0 | 12 | <1.0 | <1.0 | <1.0 |
| 28 | 11 | <1.0 | 1.1 | 7.2 | <1.0 | 1.3 | 14 | 11 | 13 | <1.0 | <1.0 | <1.0 |
| 29 | --- | --- | --- | 12 | 3.2 | 5.6 | 13 | 9.4 | 11 | <1.0 | <1.0 | <1.0 |
| 30 | --- | --- | --- | 16 | 3.8 | 6.6 | 11 | 4.6 | 6.5 | <1.0 | <1.0 | <1.0 |
| 31 | --- | --- | --- | 10 | 2.1 | 4.7 | --- | --- | --- | <1.0 | <1.0 | <1.0 |
| MAX | --- | --- | --- | --- | --- | --- | 59 | 11 | 13 | --- | --- | --- |
| MIN | --- | --- | --- | --- | --- | --- | 1.0 | 1.0 | 1.0 | --- | --- | --- |

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU—
CONTINUED

| DAY | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN |
|-----|------|------|--------|------|------|--------|--------|------|--------|-----------|------|--------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 |
| 2 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | 1.6 | <1.0 | <1.0 | 4.0 | <1.0 | <1.0 |
| 3 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | 5.2 | <1.0 | <1.0 | 3.3 | <1.0 | <1.0 |
| 4 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | 4.9 | <1.0 | <1.0 | 2.6 | <1.0 | <1.0 |
| 5 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | 1.4 | <1.0 | <1.0 | 3.7 | <1.0 | <1.0 |
| 6 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | 2.6 | <1.0 | <1.0 |
| 7 | 1.9 | <1.0 | <1.0 | 1.3 | <1.0 | <1.0 | 1.3 | <1.0 | <1.0 | 7.6 | <1.0 | 1.9 |
| 8 | 2.6 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | 7.2 | <1.0 | <1.0 | 1.9 | <1.0 | <1.0 |
| 9 | --- | --- | --- | 1.2 | <1.0 | <1.0 | 2.0 | <1.0 | <1.0 | 3.9 | <1.0 | <1.0 |
| 10 | --- | --- | --- | 1.3 | <1.0 | <1.0 | 12 | <1.0 | <1.0 | 7.9 | <1.0 | <1.0 |
| 11 | --- | --- | --- | 1.3 | <1.0 | <1.0 | 3.9 | <1.0 | <1.0 | 7.7 | <1.0 | <1.0 |
| 12 | --- | --- | --- | 1.4 | <1.0 | <1.0 | 2.4 | <1.0 | <1.0 | 11 | <1.0 | 2.2 |
| 13 | --- | --- | --- | 1.3 | <1.0 | <1.0 | 3.4 | <1.0 | <1.0 | 3.7 | <1.0 | 1.7 |
| 14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 10 | <1.0 | <1.0 | 3.7 | <1.0 | <1.0 |
| 15 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.2 | <1.0 | 1.2 | <1.0 | <1.0 | <1.0 |
| 16 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 15 | <1.0 | 1.2 | 1.8 | <1.0 | <1.0 |
| 17 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 8.1 | <1.0 | <1.0 | 4.4 | <1.0 | <1.0 |
| 18 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.9 | <1.0 | <1.0 | 5.4 | <1.0 | <1.0 |
| 19 | 1.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.8 | <1.0 | <1.0 | 6.2 | <1.0 | <1.0 |
| 20 | 6.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.2 | <1.0 | <1.0 | 2.7 | <1.0 | 1.2 |
| 21 | 1.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.8 | <1.0 | <1.0 | 3.6 | <1.0 | <1.0 |
| 22 | <1.0 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 | 9.4 | <1.0 | <1.0 | 4.6 | <1.0 | <1.0 |
| 23 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.8 | <1.0 | <1.0 | 2.0 | <1.0 | <1.0 |
| 24 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 12 | <1.0 | <1.0 | 2.9 | <1.0 | <1.0 |
| 25 | <1.0 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 | 4.4 | <1.0 | <1.0 | 1.9 | <1.0 | <1.0 |
| 26 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | 8.4 | <1.0 | <1.0 | 4.4 | <1.0 | <1.0 |
| 27 | <1.0 | <1.0 | <1.0 | 1.8 | <1.0 | <1.0 | 3.1 | <1.0 | <1.0 | 5.0 | <1.0 | <1.0 |
| 28 | 1.1 | <1.0 | <1.0 | 1.6 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.4 | <1.0 | <1.0 |
| 29 | 1.1 | <1.0 | <1.0 | 2.8 | <1.0 | <1.0 | 1.4 | <1.0 | <1.0 | 7.3 | <1.0 | <1.0 |
| 30 | 1.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.0 | <1.0 | <1.0 | 5.9 | <1.0 | 1.2 |
| 31 | --- | --- | --- | <1.0 | <1.0 | <1.0 | 3.0 | <1.0 | <1.0 | --- | --- | --- |
| MAX | --- | --- | --- | 2.8 | 1.0 | 1.0 | 15 | 1.0 | 1.2 | 11 | 1.0 | 2.2 |
| MIN | --- | --- | --- | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

> Actual value is known to be greater than the value shown

< Actual value is known to be less than the value shown

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| Date | Station number | Time | Instantaneous discharge, cfs (00061) | Barometric pressure, mm Hg (00025) | Dissolved oxygen, mg/L (00300) | Disolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | Specif. conductance, wat unf uS/cm 25 degC (00095) | Temperature, air, deg C (00020) | Temperature, water, deg C (00010) | Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086) | Bicarbonate, wat flt incr. titr., field, mg/L (00453) |
|-----------|----------------|------|--------------------------------------|------------------------------------|--------------------------------|--|---|--|---------------------------------|-----------------------------------|--|---|
| OCT 19... | 12510500 | 0850 | 2,820 | 738 | 9.1 | 88 | 7.8 | 266 | 7.3 | 12.6 | 106 | 129 |
| DEC 13... | 12510500 | 1010 | 4,800 | 757 | 11.4 | 93 | 8.0 | 185 | 12.3 | 6.2 | 72 | 88 |
| FEB 14... | 12510500 | 1100 | 2,490 | 755 | 13.3 | 104 | 7.8 | 201 | 7.0 | 4.4 | 71 | 87 |
| MAY 17... | 12510500 | 1040 | 2,260 | 743 | 9.5 | 101 | 7.8 | 195 | 21.1 | 16.9 | 80 | 97 |
| JUN 15... | 12510500 | 0850 | 941 | 750 | 8.3 | 91 | 8.3 | 237 | 22.3 | 19.0 | 90 | 110 |
| AUG 15... | 12510500 | 1010 | 1,120 | 747 | 10.6 | 125 | 8.2 | 279 | 21.7 | 22.7 | 114 | 138 |

12510500 YAKIMA RIVER AT KIONA, WA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | Carbonate, wat flt incr., titr., field, mg/L (00452) | Chloride, water, fltrd, mg/L (00940) | Sulfate water, fltrd, mg/L (00945) | Ammonia water, fltrd, mg/L as N (00608) | Nitrite + nitrate water, fltrd, mg/L as N (00631) | Nitrite water, fltrd, mg/L as N (00613) | Total nitrogen, wat unf by anal ysis, mg/L (62855) | Ortho-phosphate, water, fltrd, mg/L as P (00671) | Phosphorus, water, unfiltrd mg/L (00665) | 1-Naphthol, water, fltrd 0.7u GF ug/L (49295) | 2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660) | 2-Chloro-2',6'-diethyl acetanilide wat flt ug/L (61618) | CIAT, water, fltrd, ug/L (04040) |
|-----------|--|--------------------------------------|------------------------------------|---|---|---|--|--|--|---|--|---|----------------------------------|
| OCT 19... | .0 | 6.45 | 14.0 | .05 | 1.42 | .016 | 1.89 | .120 | .178 | <.09 | <.006 | <.005 | E.005 |
| DEC 13... | .0 | 4.86 | 8.7 | E.02 | .87 | .009 | 1.45 | .053 | .185 | <.09 | <.006 | <.005 | E.008 |
| FEB 14... | .0 | 5.46 | 10.3 | <.04 | .97 | .008 | 1.06 | .080 | .104 | <.09 | <.006 | <.005 | <.006 |
| MAY 17... | .0 | 4.52 | 9.8 | <.04 | .86 | .021 | 1.20 | .113 | .163 | M | <.006 | <.005 | E.006 |
| JUN 15... | .0 | 5.56 | 13.4 | <.04 | .73 | .021 | 1.01 | .068 | .105 | <.09 | <.006 | <.005 | E.007 |
| AUG 15... | .0 | 6.87 | 15.2 | <.04 | .66 | E.004 | .98 | .132 | .179 | <.09 | <.006 | <.005 | E.009 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | 2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620) | 3,4-Dichloro-aniline water, fltrd, ug/L (61625) | 3,5-Dichloro-aniline water, fltrd, ug/L (61627) | 4Chloro-2methyl phenol, water, fltrd, ug/L (61633) | Aceto-chlor, water, fltrd, ug/L (49260) | Ala-chlor, water, fltrd, ug/L (46342) | alpha-Endosulfan, water, fltrd, ug/L (34362) | HCH-d6, surrog, Sch2003 wat flt percent recovery (99995) | alpha-HCH-d6, surrog, Sch2003 wat flt percent recovery (34362) | Atrazine, water, fltrd, ug/L (39632) | Azinophos-methyl oxon, water, fltrd, ug/L (61635) | Azinophos-methyl water, fltrd 0.7u GF ug/L (82686) | Benzofluralin, water, fltrd 0.7u GF ug/L (82673) | Carbaryl, water, fltrd 0.7u GF ug/L (82680) |
|-----------|---|---|---|--|---|---------------------------------------|--|--|--|--------------------------------------|---|--|--|---|
| OCT 19... | <.004 | <.004 | -- | <.006 | <.006 | <.005 | -- | 101 | E.006 | <.07 | <.050 | <.010 | <.041 | |
| DEC 13... | <.004 | <.004 | -- | <.006 | <.006 | <.005 | -- | 79.8 | .007 | <.07 | <.050 | <.010 | <.041 | |
| FEB 14... | <.004 | <.004 | -- | <.006 | <.006 | <.005 | -- | 85.6 | <.007 | <.07 | <.050 | <.010 | <.041 | |
| MAY 17... | <.004 | E.003 | -- | <.006 | .010 | .007 | -- | 105 | .009 | <.07 | E.020 | <.010 | E.008 | |
| JUN 15... | <.004 | <.004 | <.004 | <.006 | <.006 | <.005 | <.005 | 107 | .008 | <.07 | E.011 | <.010 | E.011 | |
| AUG 15... | <.004 | <.004 | <.004 | <.006 | <.010 | <.005 | <.005 | 97.9 | .008 | <.07 | E.013 | <.010 | <.041 | |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | Carbofuran, water, fltrd 0.7u GF ug/L (82674) | Chloropyrifos oxon, water, fltrd, ug/L (61636) | cis-Permethrin water, fltrd, 0.7u GF ug/L (38933) | Propiconazole, water, fltrd, ug/L (79846) | Cyazine, water, fltrd, ug/L (04041) | Cyfluthrin, water, fltrd, ug/L (61585) | lambda-Cyhalothrin, water, fltrd, ug/L (61595) | Cypermethrin water, fltrd, ug/L (61586) | DCPA, water, fltrd, 0.7u GF ug/L (82682) | Desulfuryl fipronil, water, fltrd, ug/L (62170) | Diazinon oxon, water, fltrd, ug/L (61638) | Diazinon, water, fltrd, ug/L (39572) | |
|-----------|---|--|---|---|-------------------------------------|--|--|---|--|---|---|--------------------------------------|-------|
| OCT 19... | -- | <.06 | E.004 | <.006 | -- | -- | <.008 | -- | <.009 | <.003 | <.012 | <.01 | <.005 |
| DEC 13... | -- | <.06 | <.005 | <.006 | -- | -- | <.008 | -- | <.009 | <.003 | <.012 | <.01 | <.005 |
| FEB 14... | -- | <.06 | <.005 | <.006 | -- | -- | <.027 | -- | <.009 | E.003 | <.012 | <.01 | <.005 |
| MAY 17... | -- | <.06 | E.005 | <.006 | -- | -- | <.027 | -- | <.009 | <.003 | <.012 | <.01 | .008 |
| JUN 15... | <.020 | <.06 | <.005 | <.006 | <.008 | <.018 | <.027 | <.009 | <.009 | E.002 | <.012 | -- | <.005 |
| AUG 15... | <.020 | <.06 | <.005 | <.006 | <.008 | <.018 | <.027 | <.009 | <.009 | <.005 | <.012 | -- | <.005 |

YAKIMA RIVER BASIN

12510500 YAKIMA RIVER AT KIONA, WA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | Diazinon-d10 surrog, Sch2003 wat flt percent recovery (99994) | Dicropophos, water, fltrd, ug/L (38454) | Diel-drin, water, fltrd, ug/L (39381) | Dimethoate, water, fltrd, 0.7u GF ug/L (82662) | Disulfoton sulfone water, fltrd, ug/L (61640) | Disulfoton, water, fltrd, 0.7u GF ug/L (82677) | Endosulfan sulfate water, fltrd, ug/L (61590) | EPTC, water, fltrd, 0.7u GF ug/L (82668) | Ethion monoxon water, fltrd, ug/L (61644) | Ethion, water, fltrd, ug/L (82346) | Ethoprop, water, fltrd, 0.7u GF ug/L (82672) | Fenamiphos sulfone water, fltrd, ug/L (61645) | Fenamiphos sulf-oxide, water, fltrd, ug/L (61646) |
|-----------|---|---|---------------------------------------|--|---|--|---|--|---|------------------------------------|--|---|---|
| OCT 19... | 87.2 | <.08 | <.009 | <.006 | -- | -- | -- | -- | <.0020 | <.004 | -- | <.049 | <.04 |
| DEC 13... | 58.5 | <.08 | <.009 | <.006 | -- | -- | -- | -- | <.0020 | <.004 | -- | <.049 | <.04 |
| FEB 14... | 96.1 | <.08 | <.009 | <.006 | -- | -- | -- | -- | <.0020 | <.004 | -- | <.049 | <.04 |
| MAY 17... | 110 | <.08 | <.009 | <.006 | -- | -- | -- | -- | <.0020 | <.004 | -- | <.049 | <.04 |
| JUN 15... | 111 | <.08 | <.009 | <.006 | <.01 | <.02 | <.014 | <.004 | <.002 | <.004 | <.005 | <.049 | <.04 |
| AUG 15... | 101 | <.08 | <.009 | <.006 | <.01 | <.02 | <.014 | <.004 | <.002 | <.004 | <.005 | <.049 | <.04 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | Desulf-inyl-fipronil amide, wat flt ug/L (61591) | Fipro-nil sulfide water, fltrd, ug/L (62169) | Fipro-nil sulfone water, fltrd, ug/L (62167) | Fipro-nil, water, fltrd, ug/L (62168) | Fonofos oxon, water, fltrd, ug/L (62166) | Fonofos water, fltrd, ug/L (61649) | Hexazinone, water, fltrd, ug/L (04095) | Iprodione, water, fltrd, ug/L (04025) | Isofenphos water, fltrd, ug/L (61593) | Malaoxon, water, fltrd, ug/L (61652) | Malathion, water, fltrd, ug/L (39532) | Metaxyl, water, fltrd, ug/L (61596) | |
|-----------|--|--|--|---------------------------------------|--|------------------------------------|--|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|-------|
| OCT 19... | <.03 | <.029 | <.013 | <.024 | <.016 | <.003 | <.003 | <.013 | <.387 | <.003 | <.030 | <.027 | <.005 |
| DEC 13... | <.03 | <.029 | <.013 | <.024 | <.016 | <.003 | <.003 | <.013 | <.387 | <.003 | <.030 | <.027 | <.005 |
| FEB 14... | <.03 | <.029 | <.013 | <.024 | <.016 | -- | <.003 | <.013 | <.538 | <.003 | <.030 | <.027 | <.005 |
| MAY 17... | <.03 | <.029 | <.013 | <.024 | <.016 | -- | <.003 | <.013 | <.538 | <.003 | <.030 | <.027 | <.005 |
| JUN 15... | <.03 | <.029 | <.013 | <.024 | <.016 | -- | <.003 | <.013 | <.538 | <.003 | <.030 | <.027 | <.005 |
| AUG 15... | <.03 | <.029 | <.013 | <.024 | <.016 | -- | <.003 | <.013 | <.538 | <.003 | <.030 | <.027 | <.005 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | Methyl para-oxon, water, fltrd, ug/L (61598) | Methyl para-thion, water, fltrd, 0.7u GF ug/L (82667) | Metolachlor, water, fltrd, ug/L (39415) | Metribuzin, water, fltrd, ug/L (82630) | Molinate, water, fltrd, 0.7u GF ug/L (82671) | Myclobutanil water, fltrd, ug/L (61599) | Oxyfluorfen, water, fltrd, ug/L (61600) | Pendimethalin, water, fltrd, 0.7u GF ug/L (82683) | Phorate oxon, water, fltrd, ug/L (61666) | Phorate water fltrd, 0.7u GF ug/L (82664) | Phosmet oxon, water, fltrd, ug/L (61668) | Phosmet water, fltrd, ug/L (61601) | |
|-----------|--|---|---|--|--|---|---|---|--|---|--|------------------------------------|-------|
| OCT 19... | <.006 | <.03 | <.015 | <.006 | <.006 | -- | <.008 | -- | <.022 | <.10 | <.011 | <.05 | <.008 |
| DEC 13... | <.006 | <.03 | <.015 | <.006 | <.006 | -- | <.008 | -- | <.022 | <.10 | <.011 | <.05 | <.008 |
| FEB 14... | <.006 | <.03 | <.015 | <.006 | <.006 | -- | <.008 | -- | <.022 | <.10 | <.011 | <.05 | <.008 |
| MAY 17... | <.006 | <.03 | <.015 | E.002 | <.006 | -- | E.007 | -- | <.022 | <.10 | <.011 | <.05 | <.008 |
| JUN 15... | <.006 | <.03 | <.015 | <.006 | <.006 | <.003 | E.006 | <.007 | <.022 | <.10 | <.011 | -- | -- |
| AUG 15... | <.006 | <.03 | <.015 | <.006 | <.006 | <.003 | <.010 | <.007 | <.022 | <.10 | <.011 | <.05 | <.008 |

12510500 YAKIMA RIVER AT KIONA, WA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | Promo-ton, water, fltrd, ug/L (04037) | Promo-tryn, water, fltrd ug/L (04036) | Propy-zamide, water, fltrd 0.7u GF ug/L (82676) | Propanil, water, fltrd 0.7u GF ug/L (82679) | Propar-gite, water, fltrd 0.7u GF ug/L (82685) | Sima-zine, water, fltrd 0.7u GF ug/L (04035) | Tebu-thiuron water fltrd 0.7u GF ug/L (82670) | Teflu-thrin, water, fltrd 0.7u GF ug/L (61606) | Ter-bufos oxon sulfone water, fltrd 0.7u GF ug/L (61674) | Terbu-fos, water, fltrd 0.7u GF ug/L (82675) | Ter-buthyl- azine, water, fltrd, ug/L (04022) | Thio-bencarb water fltrd 0.7u GF ug/L (82681) | trans- Propi-conazole, water, fltrd, ug/L (79847) |
|-----------|---|---|--|--|---|---|--|---|---|---|--|--|--|
| OCT 19... | <.01 | <.005 | <.004 | -- | -- | <.005 | <.02 | -- | <.07 | <.02 | <.01 | -- | -- |
| DEC 13... | <.01 | <.005 | <.004 | -- | -- | <.005 | <.02 | -- | <.07 | <.02 | <.01 | -- | -- |
| FEB 14... | <.05 | <.005 | <.004 | -- | -- | <.005 | <.02 | -- | <.07 | <.02 | <.01 | -- | -- |
| MAY 17... | .02 | <.005 | <.004 | -- | -- | .008 | <.02 | -- | <.07 | <.02 | <.01 | -- | -- |
| JUN 15... | <.01 | <.005 | <.004 | <.011 | <.02 | E.006 | <.02 | <.008 | <.07 | <.02 | <.01 | <.010 | <.01 |
| AUG 15... | <.03 | <.005 | <.004 | <.011 | <.02 | E.007 | <.02 | <.008 | <.07 | <.02 | <.01 | <.010 | <.01 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | Tribu-phos, water, fltrd, ug/L (61610) | Tri-flur-alin, water, fltrd, 0.7u GF ug/L (82661) | Di-chlor-vos, water fltrd, 0.7u GF ug/L (38775) | Sus-pended sediment concen-tration mg/L (80154) | Sus-pended sediment dis-charge, tons/d (80155) |
|-----------|--|--|--|---|--|
| OCT 19... | -- | <.009 | <.01 | 23 | 175 |
| DEC 13... | -- | <.009 | <.01 | 71 | 920 |
| FEB 14... | -- | <.009 | <.01 | 7 | 47 |
| MAY 17... | -- | <.009 | <.01 | 16 | 98 |
| JUN 15... | <.004 | E.005 | <.01 | 6 | 15 |
| AUG 15... | <.004 | .013 | <.01 | 10 | 30 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| Date | Station number | Time | Biomass peri- phyton, ashfree drymass g/m2 (49954) | Peri- phyton biomass ash weight, g/m2 (00572) | Peri- phyton biomass dry weight, g/m2 (00573) | Pheo- phytin a, peri- phyton, mg/m2 (62359) | Chloro- phyll a peri- phyton, chromo- fluoro, mg/m2 (70957) |
|-----------|----------------|------|--|---|---|---|--|
| OCT 06... | 12510500 | 1500 | 18.9 | 220 | 239.4 | 34 | 130 |