Hydrologic, Water-Quality, and Meteorological Data for the Cambridge, Massachusetts, Drinking-Water Source Area, Water Year 2005

By Kirk P. Smith

Prepared in cooperation with the
City of Cambridge, Massachusetts, Water Department

Open-File Report 2007–1049

U.S. Department of the Interior
U.S. Geological Survey

U.S. Department of the Interior
DIRK KEMPTHORNE, Secretary

U.S. Geological Survey
Mark D. Myers, Director

U.S. Geological Survey, Reston, Virginia: 2007

For product and ordering information:
World Wide Web: http://www.usgs.gov/pubprod
Telephone: 1-888-ASK-USGS

For more information on the USGS—the Federal source for science about the Earth, its natural and living resources, natural hazards, and the environment:
World Wide Web: http://www.usgs.gov
Telephone: 1-888-ASK-USGS

Suggested citation:
Smith, K.P., 2007, Hydrologic, water-quality, and meteorological data for the Cambridge, Massachusetts, drinking-water source area, water year 2005: U.S. Geological Survey Open-File Report 2007–1049, 119 p.

Contents

Figures

Tables

Conversion Factors, Datum, and Abbreviations

Multiply	By	To obtain
	Length	
inch (in.)	2.54	centimeter (cm)
inch (in.)	25,400	micron (μm)
inch (in.)	25,400,000	nanometer (nm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
	Area	
square mile (mi^2)	2.590	square kilometer (km^2)
	Volume	
million gallons (Mgal)	3785.4	cubic meter (m^3)
	Flow rate	
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m^3/s)

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$°F=(1.8×°C)+32$$

Vertical coordinate information is referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29).

Horizontal coordinate information is referenced to the North American Datum of 1983 (NAD 83).

Water- and sediment-quality constituents are expressed in milligrams per liter (mg/L), micrograms per liter (μg/L), parts per million (ppm), and parts per billion (ppb). Milligrams per liter is a unit expressing the concentration of chemical constituents in solution as weight (milligrams) of solute per unit volume (liter) of water. One thousand milligrams per liter is equivalent to one gram per liter. One thousand micrograms per liter is equivalent to one milligram per liter. For concentrations less than 7,000 mg/L, the numerical value is the same as for concentrations in ppm.

Specific conductance of water is expressed in microsiemens per centimeter at 25 degrees Celsius (μS/cm at 25°C).

ABBREVIATIONS

ASTM	American Society for Testing and Materials
COV	coefficient of variation
CWD	City of Cambridge, Massachusetts, Water Department
EMC	event mean concentration
ISO	International Organization for Standardization
NIST	National Institute of Standards and Technology
PAH	polyaromatic hydrocarbons
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
WY	water year

Hydrologic, Water-Quality, and Meteorological Data for the Cambridge, Massachusetts, Drinking-Water Source Area, Water Year 2005

By Kirk P. Smith

Abstract

Records of water quantity, water quality, and meteorological parameters were continuously collected from three reservoirs, two primary streams, and four subbasin tributaries in the Cambridge, Massachusetts, drinking-water source area during water year 2005 (October 2004 through September 2005). Water samples were collected during base-flow conditions and storms in the subbasins of the Cambridge Reservoir and Stony Brook Reservoir drainage areas and analyzed for selected elements, organic constituents, suspended sediment, and *Escherichia coli* bacteria. These data were collected to assist watershed administrators in managing the drinking-water source area and to identify potential sources of contaminants and trends in contaminant loading to the water supply.

Monthly reservoir capacities for the Cambridge Reservoir varied from about 59 to 98 percent during water year 2005, while monthly reservoir capacities for the Stony Brook Reservoir and the Fresh Pond Reservoir were maintained at capacities greater than 84 and 96 percent, respectively. Assuming a water demand of 15 million gallons per day by the city of Cambridge, the volume of water released from the Stony Brook Reservoir to the Charles River during the 2005 water year is equivalent to an annual water surplus of about 119 percent. Recorded precipitation in the source area for the 2005 water year was within 2 inches of the total annual precipitation for the previous 2 water years.

The monthly mean specific conductances for the outflow of the Cambridge Reservoir were similar to historical monthly mean values. However, monthly mean specific conductances for Stony Brook near Route 20, in Waltham (U.S. Geological Survey station 01104460), which is the principal tributary feeding the Stony Brook Reservoir, were generally higher than the medians of the monthly mean specific conductances for the period of record. Similarly, monthly mean specific conductances for a small tributary to Stony Brook (U.S. Geological Survey station 01104455) were generally higher than the medians of the monthly mean specific conductances for the period of record. The annual mean specific conductance for Fresh Pond Reservoir increased from 514 microsiemens per centimeter (μS/cm) in the 2004 water year to 553 μS/cm for the 2005 water year.

Water samples were collected from four tributaries during base-flow and stormflow conditions in December 2004, and July, August, and September 2005 and analyzed for suspended sediment, 6 major dissolved ions, total nitrogen, total phosphorus, 8 total metals, 18 polyaromatic hydrocarbons (PAHs), 61 pesticides and metabolites, and *Escherichia coli* bacteria. Concentrations for most dissolved constituents in samples of stormwater were generally lower than the concentrations observed in samples collected during base flow; however, concentrations of total phosphorus, PAHs, suspended sediment, and some total recoverable metals were substantially greater in stormwater samples.

Concentrations of dissolved chloride and total recoverable manganese in water samples collected during base-flow conditions from three tributaries exceeded the U.S. Environmental Protection Agency (USEPA) secondary drinking water standards of 250 and 0.05 milligrams per liter (mg/L), respectively. Concentrations of total recoverable manganese exceeded the secondary drinking water standard in samples of stormwater from each tributary. Concentrations of total recoverable iron in water samples exceeded the USEPA secondary drinking water standard of 0.3 mg/L periodically in water samples collected at USGS stations 01104415, 01104455, and 01104475, and consistently in all water samples collected at USGS station 01104433.

Concentrations of *Escherichia coli* bacteria in water samples collected during base flow ranged from 4 to 1,400 colony-forming units per 100 milliliters (col/100mL). Concentrations of *Escherichia coli* bacteria in composite samples of stormwater ranged between 1,700 to 43,000 col/100mL with the highest concentrations measured at USGS station 01104475.

Fluoranthene and pyrene were the most commonly detected PAHs in water samples collected during base flow. Concentrations of PAH compounds observed in composite samples of stormwater were often as much as an order of magnitude or more than concentrations measured in water samples collected during base flow. Fluoranthene, phenanthrene, and pyrene were the only PAH compounds found in a water sample collected from the Fresh Pond Reservoir intake structure. Concentrations of 16 pesticides and caffeine were measured in water samples collected in four subbasins and in Fresh Pond

Reservoir. Caffeine, imidacloprid, and siduron were the most frequently detected compounds. Each of these compounds also was detected in water collected from the Cambridge water-treatment facility raw-water intake at the Fresh Pond Reservoir. Compounds including 3-ketocarbofuran, carbaryl, MCPA, propoxur, siduron, and triclopyr were only detected in water samples of stormwater.

Introduction

Hydrologic and water-quality monitoring is important for the effective management and protection of drinking-water supplies. Both the quantity and quality of water are monitored because these factors determine the physical, chemical, and biological state of the water supply. Without accurate information on the past and current condition of the water supply, effective preservation and remediation programs cannot be implemented or evaluated.

The U.S. Geological Survey (USGS) works closely with municipal water suppliers throughout the nation to address specific water problems by conducting hydrologic- and water-quality-monitoring programs and detailed investigations (Patterson, 1997). One such program, conducted from 1997 through 1998 by the USGS in cooperation with the City of Cambridge, Massachusetts, Water Department (CWD), was designed to identify sources of contaminants in the drinking-water source area for the city (Waldron and Bent, 2001). Subsequently the USGS, in cooperation with the CWD, designed and implemented a water-monitoring network in the drinking-water source area. Data from this network has been published annually in various USGS reports (Smith, 2005; Socolow and others, 1999, 2000, 2001, 2002, 2003, and 2004).

The CWD supplies approximately 15 **millions of gallons per day**[1] (Mgal/d) to more than 100,000 customers. Most of this water is obtained from three primary storage reservoirs (Cambridge Reservoir–also known as the Hobbs Brook Reservoir, Stony Brook Reservoir, and Fresh Pond Reservoir), in parts of Lexington, Lincoln, Waltham, Weston, and in Cambridge (fig. 1). The **drainage basin** for the Cambridge Reservoir includes Hobbs Brook and three unnamed tributaries that discharge directly into the reservoir. Water is discharged from the southern end of the Cambridge Reservoir into Hobbs Brook which receives additional water by an unnamed tributary about a half mile below the reservoir. Hobbs Brook joins with Stony Brook about 1.6 miles downstream of the reservoir and flows south to the Stony Brook Reservoir. Two unnamed tributaries flow into Stony Brook about a quarter mile north of the Stony Brook Reservoir. In addition to water from Stony Brook, an unnamed tributary flows directly into the Stony Brook Reservoir on the southwest side of the reservoir. Additional water enters both reservoirs from other minor tributaries and highway and parking-lot storm drains. Water from Stony Brook Reservoir is piped through an aqueduct by the CWD directly to Fresh Pond Reservoir where it is stored prior to treatment. Overflow and controlled **discharges** from the Stony Brook Reservoir flow into the Charles River in Waltham.

The **drainage basin** contributing water to these reservoirs has undergone rapid development in recent years and encompasses major transportation corridors, as well as large areas of industrial, commercial, and high-density residential land use. Because the City of Cambridge owns less than 5 percent of the land in the basin contributing to its water-supply system, the CWD relies heavily on monitoring to provide information for optimizing the management of its reservoirs for water quality and quantity. The USGS monitoring network provides near-real-time information that assists the CWD in responding rapidly to water-quality changes caused by accidental or intentional contamination. This information also benefits the CWD, other municipalities, and state agencies involved with water-resource development and management in the Charles River Basin by enhancing their understanding of the relation between local drinking-water-management practices and regional issues of water supply and hydrologic-system response.

Purpose and Scope

This report presents records of water quantity, water quality, and meteorological parameters collected in the Cambridge, Massachusetts, drinking-water source area during **water year** 2005 (October 2004 through September 2005). It describes the monitoring network, data-collection methods for all types of data, and computation methods. It also describes the chemical characteristics of water samples collected during **base-flow** conditions and during storms from an unnamed tributary in the Cambridge Reservoir basin and three unnamed tributaries in the Stony Brook Basin, and of water samples collected from the Cambridge water-treatment facility.

Description of Monitoring Network

Stations installed and operated by the USGS in the drinking-water source area continuously monitored various hydrologic, water-quality, and meteorological parameters including stream **stage**, stream water temperature, stream **specific conductance**, reservoir altitude, air temperature, and **precipitation**. Stations were selected for continuous monitoring on the basis of the necessity for water-supply regulation by the CWD and of information gained in previous USGS investigations that identified specific areas as potentially important sources of contaminants. Attributes of the monitoring stations are listed in table 1; locations of stations selected for continuous monitoring are shown in figure 1.

[1] Terms listed in the glossary at the back of this report are in bold type where first used in the text.

Figure 1. The monitoring network for the Cambridge, Massachusetts, drinking-water source area for water year 2005, eastern Massachusetts.

Table 1. Names, locations, drainage areas, and periods of record for U.S. Geological Survey monitoring stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.

[USGS, U.S. Geological Survey. °, degree; ', minute; ", second; mi², square mile]

Station name	USGS station number	Latitude	Longitude	Drainage area (mi²)	Period of record
Stony Brook at Kendal Green	01104390	42°22'36"	71°16'55"	10.4	03/07/97–09/17/98
Hobbs Brook at Mill Street near Lincoln	01104405	42°26'11"	71°16'12"	2.16	03/05/97–09/16/98
Cambridge Reservoir, unnamed tributary 1, near Lexington	01104410	42°26'15"	71°15'53"	2.1	03/05/97–09/16/98
Cambridge Reservoir, unnamed tributary 2, near Lexington	01104415	42°26'09"	71°15'38"	.41	10/22/97–09/22/98; 10/01/00–current year
Cambridge Reservoir, unnamed tributary 3, near Lexington	01104420	42°25'11"	71°15'29"	.73	04/09/97–09/16/98
Hobbs Brook below Cambridge Reservoir near Kendal Green	01104430	42°23'53"	71°16'26"	6.86	04/09/97–09/16/98
Hobbs Brook, unnamed tributary 1 near Kendal Green	01104433	42°23'28"	71°16'18"	.36	10/23/97–09/15/05; 06/28/04–current year
Hobbs Brook at Kendal Green	01104440	42°22'39"	71°16'52"	8.47	03/07/97–10/28/98
Stony Brook, unnamed tributary 1 near Waltham	01104455	42°22'21"	71°16'15"	.48	10/22/97–09/22/98; 10/01/00–current year
Stony Brook at Route 20 near Waltham	01104460	42°21'08"	71°16'16"	22	03/07/97–10/28/98; 05/14/02–current year
Stony Brook Reservoir, unnamed tributary 1 near Weston	01104475	42°21'16"	71°16'07"	.85	12/17/97–09/17/98; 08/26/04–current year
Stony Brook Reservoir at dam near Waltham	01104480	42°21'20"	71°15'56"	23.7	03/1997–current year
Fresh Pond in gate house at Cambridge	422302071083801	42°23'02"	71°08'38"	0	1998; 10/01/03–current year

Stream-stage measurements were recorded at monitoring stations at the outlet of the Cambridge Reservoir, on Stony Brook, and at the outlet of Stony Brook Reservoir (USGS stations 01104430, 01104460 and 01104480). Water-quality measurements at the outlet of the Cambridge Reservoir and Stony Brook were recorded at USGS stations 01104430 and 01104460. Physical parameters monitored at these sites are listed in table 2. These data were recorded at a frequency of 15 minutes and were uploaded to a USGS database on an hourly basis by phone modem. In addition to measurements made on these streams, stream-stage measurements and water-quality measurements were recorded at monitoring stations on four of the small tributaries (USGS stations 01104415, 01104433, 01104455, and 01104475). Because the **drainage areas** of these sites are small (less than a square mile) and contain many roadways, parking lots, and other impervious surfaces (Waldron and Bent, 2001), the hydrologic responses, and often the water-quality responses, change rapidly. To document these responses effectively, the monitoring stations recorded stream-stage and water-quality measurements at variable frequencies, as often as 1 minute. These data were uploaded to a USGS database on an hourly basis by digital cellular modem.

Measurements of reservoir altitude, precipitation, and air temperature were recorded at the Cambridge, Stony Brook, and Fresh Pond Reservoirs (USGS stations 01104430, 01104480, and 422302071083801). Water-quality measurements of reservoir water also were recorded at the Fresh Pond Reservoir. Physical parameters monitored at these sites are listed in table 2. These data were recorded at a frequency of 15 minutes and were uploaded to a USGS database on an hourly basis by phone modem.

Table 2. Hydrological, water-quality, and meteorological parameters measured at each continuous-monitoring station during water year 2005, eastern Massachusetts.

[USGS, U.S. Geological Survey. X, indicates physical parameter was measured]

Physical parameter	USGS station number							
	01104415	01104430	01104433	01104455	01104460	01104475	01104480	422302071083801
Stream water stage	X	X	X	X	X	X	X	
Reservoir water level		X					X	X
Precipitation		X					X	X
Air temperature		X					X	X
Water temperature	X	X	X	X	X	X		X
Specific conductance	X	X	X	X	X	X		X

Continuous Data Collection and Computation

The monitoring network provides near-real-time information used to manage the quantity and quality of water in the CWD drinking-water source area. At each station, permanently installed analytical equipment automatically measures selected hydrologic, water-quality, and meteorological parameters and relays the information to water managers through telephone voice modems and through the USGS Massachusetts-Rhode Island Water Science Center on the World Wide Web (*http://ma.water.usgs.gov*).

Hydrologic Data

Basic data collected at the monitoring stations include records of stream stage and measurements of discharge of streams, and water altitude and **capacity** of reservoirs. In addition, observations of factors affecting the **stage-discharge relation** or the altitude-capacity relation, weather records, and other information are used to supplement the basic data in determining the daily flow or capacity of water in storage. Measurements of discharge are made with a current meter or acoustic Doppler current profiler by standard USGS methods (Buchanan and Somers, 1968, 1969; Carter and Davidian, 1968; Kennedy, 1983 and 1984; Oberg and others, 2005; Rantz and others, 1982). The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

To determine **streamflow** at each USGS monitoring station in the CWD drinking-water source area, discharge-rating tables for any stage are prepared from stage-discharge curves (Rantz and others, 1982). The daily **mean discharge** is computed from these stage and rating tables, and then the monthly and yearly mean discharges are computed from these daily values. If the stage-discharge relation for a station is temporarily changed by aquatic growth or debris in the **control** section, the daily mean discharge is computed by the shifting-control method (Rantz and others, 1982).

For the USGS monitoring stations on reservoirs in the CWD drinking-water source area, capacity tables giving the volume for any reservoir water altitude are prepared from water altitude-area relation curves defined by surveys (Fugro East, Inc., 1996). From the tables, the daily, monthly, or yearly changes in volume are computed.

For some stations, recorder or sensor malfunctions can cause gaps in the water-stage record or inaccurate readings, which cannot be used to compute daily discharge. For periods of malfunction, the daily mean discharges are estimated on the basis of the recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, and other information.

The accuracy of hydrologic data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records. The degree of accuracy of the records is defined in table 3. Different accuracies may be attributed to different portions of a streamflow record.

Table 3. Rating classifications for continuous records of hydrologic, water quality, and meteorological parameters.

[Modified from Wagner and others, 2003. ≤, less than or equal to; ±, plus or minus value shown; °C, degrees Celsius; >, greater than; %, percent; ft, foot]

Measured physical parameter	Rating			
	Excellent	Good	Fair	Poor
Discharge	≤ ±5%	> ±5 to 10%	> ±10 to 15%	> ±15%
Reservoir altitude	≤ ±0.1 ft	> ±0.1 to 0.2 ft	> ±0.2 to 0.3 ft	> ±0.3 ft
Reservoir capacity	≤ ±1%	> ±1 to 2%	> ±2 to 4%	> ±4%
Water temperature	≤ ±0.2°C	> ±0.2 to 0.5°C	> ±0.5 to 0.8°C	> ±0.8°C
Specific conductance	≤ ±3%	> ±3 to 10%	> ±10 to 15%	> ±15%
Precipitation	≤ ±2%	> ±2 to 6%	> ±6 to 10%	> ±10%
Air temperature	≤ ±0.4°C	> ±0.4 to 0.8°C	> ±0.8 to 2°C	> ±2°C

Water-Quality Data

Water temperature and specific conductance data were collected from continuous water-quality monitors in each stream, tributary, or reservoir except for USGS station 01104480. The accuracy of the water-quality records depends primarily on the rate of sensor drift, sensor fouling, and debris collection. Typically, sensors became fouled by aquatic growth more rapidly in the warmer months. In most cases, corrections for fouling and drift can be applied to the data to improve their accuracy (Wagner and others, 2003). For parameters other than water temperature, such corrections were made on the basis of the performance of the sensor before and after sensor maintenance and by noting the response of the clean sensor after placing it in several standardized solutions. The accuracy of water temperature data is determined by comparing measurements made by the monitoring system and by an independent probe calibrated against a National Institute of Standards and Technology (NIST) **traceable thermometer**. One of four accuracy classifications ranging from excellent to poor is applied to physical properties measured at each station. The accuracy rating is based on data values recorded before any shifts or corrections are made for fouling and drift. The basis for each rating classification is listed in table 3.

Meteorological Data

Precipitation data were collected with heated tipping-bucket precipitation gages that measure the volume of rain or melted snow in 0.01-**inch** increments. The precipitation gages at the Cambridge Reservoir and Stony Brook Reservoir include wind screens that reduce bias generated by precipitation missing the instrument. Precipitation data are summed for each day and then for each month. In general, the accuracy of precipitation data is assured by proper maintenance and calibration of the device. Precipitation measurements, especially when the precipitation is in the form of snow are affected by strong winds and are subject to errors. These errors generally result in underestimating the total precipitation at a station.

Air temperature data were collected with thermistors housed in **gill radiation shields**. The probes are installed approximately 8 feet above ground surface. The maximum, minimum, and mean temperature values are computed for each day. Monthly statistics are then computed from daily values. The accuracy of air temperature data is determined by comparing measurements made by the monitoring system and by an independent probe calibrated against a NIST-traceable thermometer.

Under rare circumstances, when there were no records of precipitation or air temperature, daily values were estimated on the basis of records from nearby stations. These circumstances may include a recorder malfunction, the plugging of the precipitation gage, or a malfunction of the heating element in the precipitation gage.

Sample Collection and Analysis

Water samples were collected during **base flow** in four tributaries in the Cambridge Reservoir and Stony Brook Reservoir basins in December 2004 and August 2005. Water samples were collected during storms in the same four tributaries in July, August, and September 2005. A sample of raw and finished water also was collected in July at the Cambridge water treatment plant. Most samples were analyzed for physical, chemical, and biological constituents.

Water samples were collected during base-flow conditions and during rain storms from four tributaries near USGS monitoring stations 01104415, 01104433, 01104455, and 01104475 and analyzed for distributions of **particle size** and concentrations of **suspended sediment**, 6 major **dissolved** ions, total nitrogen, total phosphorus, 8 total metals, 18 polyaromatic hydrocarbons (PAHs), 61 **pesticides** and **metabolites**, and ***Escherichia coli*** bacteria. Samples of stream water were collected manually (Wilde, and others, 1999) under base-flow conditions with an antecedent dry period of at least 5 days. During storms, water samples for chemical analysis were collected with an automatic sampler controlled by a **datalogger**. The first sample was collected when flow exceeded a preset flow threshold, and subsequent samples were collected at flow-proportional intervals. Each automatic

sampler was configured to hold one 20-liter (L) Teflon-lined plastic bottle and fitted with a pre-cleaned 1/2-in. inner diameter Teflon intake tube.

A multi-step process was used to clean all wetted parts associated with the automatic sampler and the processing equipment before collecting trace inorganic and organic constituents. The initial cleaning consisted of washing the interior and exterior with a phosphate-free laboratory grade soap and tap water, scrubbing surfaces with a plastic brush, and rinsing with tap water. Circulating the solution through the tubing cleaned the interior of the sampler tubing. Lint-free wipes were forced hydraulically through the tubing to remove internal deposits or films that were difficult to remove by circulating solution alone. After the components dried, they were placed in a large stainless steel pan in a fume hood and immersed in a 1-to-1 hexane-to-acetone solution. A Teflon diaphragm pump was used to circulate the solution through the sampler tubing. The components were allowed to soak, with occasional agitation, for a period of about 6 hours. After appropriately dispensing the waste solution, all components except the tubing were rinsed with a 1-to-1 hexane-to-acetone solution from a Teflon squeeze bottle and air-dried in a fume hood over night. Because the rate of cleaning-solution volatilization was limited within the sampler tubing, the tubing was purged with purified air for approximately 20 minutes. The final steps involved immersing the components in a 5-percent solution of hydrochloric acid for a period of at least 6 hours. The same solution was slowly circulated through each sampler tube for six hours or more. All components were thoroughly rinsed with deionized water until the specific conductance of the waste rinse water was less that 1 **microsiemens per centimeter** (µS/cm).

Samples for chemical analysis were processed in the field, usually at the conclusion of each runoff event. Subsamples for the analysis of suspended sediment, and inorganic and organic constituents were split directly from the Teflon-lined bottle. This method eliminated sample contact with additional processing equipment and reduced the potential for contamination. Subsamples were dispensed under low pressure directly from the sample bottle with a specialized cap, which included a 6.35-millimeter (inner diameter) Teflon dispensing tube, a pressure port, and a relief valve. Compressed nitrogen gas applied to the pressure port filled the interior area between the bottle wall and the Teflon bag, compressing the bag and dispensing the sample. Homogenization of the sample was accomplished by fastening the bottle to a cradle assembly capable of rotating 210 degrees. The sample bottle was rocked the full 210 degrees several times prior to dispensing, and the rocking motion was continued throughout dispensing for all samples except for samples analyzed for dissolved constituents. Dissolved constituents were filtered through a 600-square-centimeter capsule filter with a 0.45-micrometer pore size.

Flow-proportional water samples for the analysis of bacteria were collected from a second dedicated automatic sampler. Each automatic sampler was configured to hold between one and four 3.75-L glass bottles. Sample lines consisted of silicon pump-head tubing and polyethylene intake tubing. The sample bottles and pump-head tubing were pre-cleaned and sterilized in an autoclave. New polyethylene intake tubing was checked for sterility prior to installation, used once, and discarded. The sampler base was packed with bagged ice prior to each storm. Samples for analysis of bacteria were collected automatically at the same frequency as samples collected for chemical analysis. Samples for bacteria analysis were processed in the field within 6 hours of the time that the automatic sampler was triggered to collect the first sample for each bottle. When possible, event mean concentrations (EMCs) of *Escherichia coli* bacteria were mathematically determined by calculating the average values for flow-weighted concentrations of sub-composites.

In addition to the environmental samples, water samples also were collected for quality assurance. These quality-assurance samples include a source-solution blank, a field blank, several processing-equipment blanks, and replicate samples. A source-solution blank was prepared from deionized water produced by a laboratory-grade water-purification system that uses ion-exchange packs and reverse osmosis. The blank water was stored in a Teflon-lined bottle until it was subsequently used for a field blank. A field blank was collected during sample preparation for the July storm. A field blank is used to test for positive bias that can result from contamination from any stage of the sample collection and processing phase or analytical process. The field blank was collected by circulating source water through the automatic sampler tubing and bottle, and processed in a manner consistent with the collection of environmental samples of stormwater. Several processing-equipment blanks were collected for bacteria analysis. A processing-equipment blank is used to test for positive bias that can result from contamination from the ambient environment under which the samples are processed, and from contamination of the filters, filter plate, dilution media, agar, Petri dishes, and other equipment that may be used for the processing of water samples for bacteria analysis. Finally, several replicate-split samples were prepared from samples collected during base flow and storms. Replicate-split samples provide a measure of variability introduced during sample processing and analysis.

Samples were analyzed for concentrations of suspended sediment and distribution of particle size at the USGS Kentucky Water Science Center Sediment Lab (Guy, 1970; Sholar and Shreve, 1998). Samples were analyzed for chemical concentrations at the USGS Laboratory in Denver, Colorado (Patton and Kryskalla, 2003; Furlong and others, 2001; American Public Health Association, 1998; Garbarino and Struzeski, 1998; Hoffman and others, 1996; Fishman, 1993; McLain, 1993; Fishman and Friedman, 1989; Wershaw and others, 1987). Samples were processed for bacteria analysis on the basis of the methods described by Myers and Sylvester (1997) and the U.S. Environmental Protection Agency (USEPA) method 1603 (2002b) on site and placed in portable incubators in a mobile field laboratory.

Presentation of Data

Data collected at the USGS monitoring stations during water year 2005 are presented in the back of the report in tables 8–16. Where available, each table includes a summary of daily values, monthly statistics, annual statistics, **gage datum**, and an accuracy rating for each station. The period of record and the period-of-record extremes for each physical parameter are presented in table 4 by USGS station number. The maximum, median, and minimum statistics for selected analytical results for the period of record for each USGS monitoring station are presented in table 5. Analytical results for water samples are presented in the back of the report in tables 15 and 16.

Station History

The station history for each USGS station in the Cambridge drinking-water source area is presented in table 4. This table includes basic information about the period of record and the extremes for the period of record for each physical parameter for current and historical USGS stations in the Cambridge drinking-water source area. The "period of record" is the time during which each type of data has been collected at the station. These data may have been collected manually on an intermittent basis or continuously with a monitoring system. The "extremes for the period of record" refer to the maximum and minimum values measured during the period of record.

Streamflow Data

Streamflow data are presented in table 8. This table includes the daily mean values of discharge by USGS station number for the 2005 water year, monthly summary statistics, annual summary statistics and data pertaining to **annual runoff** and flow duration.

Data Table of Daily Mean Values

The daily table of streamflow records gives the **total discharge** for each day of the water year. In the monthly summary for the table, the line labeled "Total" gives the sum of the daily streamflows for each month; the line labeled "Mean" gives the arithmetic average of the daily streamflows for the month; the lines labeled "Maximum" and "Minimum" give the maximum and minimum daily streamflows respectively, for each month; and the line labeled "Median" gives the median daily streamflow for each month. Discharge per unit area of the drainage basin for the month is expressed in **millions of gallons per day per square mile** (line labeled Mgal/d/mi^2); runoff is given in inches (line labeled "Inches"). Values for discharge per unit area and runoff in inches are not calculated for stations affected by reservoir regulation.

Annual Summary Statistics

Annual summary statistics are presented at the end of the water year following the daily mean values and monthly summaries. These statistics include the annual total, annual mean, annual runoff, and selected **streamflow-duration percentiles**. In the annual summary for the table, the line labeled "Annual total" gives the sum of all the daily discharges for the water year; the line labeled "Annual mean" gives the arithmetic average of the daily discharges for the water year. The line labeled "Annual Mgal/d/mi^2" is the average number of millions of gallons of water flowing per day from each square mile of area drained; the runoff is assumed to be distributed uniformly in time and area annually. The line labeled "Annual inches" indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it. Runoff data are omitted for stations affected by reservoir regulation. The line labeled "10 percent exceeds" indicates the discharge that has been exceeded 10 percent of the time for the designated period (the 10-percent flow-duration discharge). The lines labeled "50 percent exceeds" and "90 percent exceeds" are similarly defined. The line labeled "remarks" indicates the accuracy of the records (table 2).

Reservoir Data

Continuous records of reservoir altitude and capacity for the Cambridge Reservoir, Stony Brook Reservoir, and the Fresh Pond Reservoir are presented in tables 9 and 10, respectively. Data tables for each parameter consist of daily mean values that include monthly and annual minimum, maximum, and mean values, a gage description, and an accuracy rating description. The line labeled "**Gage**" indicates the value and source of the datum used to monitor reservoir altitudes. The line labeled "**Remarks**" indicates the accuracy of the records (table 2). The accuracy of reservoir capacity is determined on the basis of the average annual altitude for each reservoir and the difference in capacity associated with the error in the measurements of the reservoir altitude.

Meteorological and Water-Quality Data

Continuous records of meteorological and water-quality parameters are presented in tables 11 through 14. Data tables for precipitation consist of daily totals that also include monthly and annual totals and maximum values, and an accuracy rating description. Data tables for all other parameters consist of daily maximum, minimum, and mean values that also include monthly and annual minimum, maximum, and mean values, and an accuracy rating description.

Water-Quality Data

Analytical results for water samples, including concentrations of *Escherichia coli* bacteria in samples of water collected during base-flow conditions and estimated concentrations of *Escherichia coli* bacteria for composites of stormwater are presented in table 15. Analytical results for concentrations of *Escherichia coli* bacteria for all samples are presented in table 16. Quality-control samples are listed at bottom of each table. The maximum, median, and minimum statistics for concentrations of selected constituents in water samples collected during the period of record for each USGS station in the Cambridge drinking-water source area are presented in table 5.

Data for the Cambridge Drinking-Water Source Area

The data presented in this report can be used by the water-resource managers in the city of Cambridge, Massachusetts, to optimize the management of the drinking-water-supply reservoirs for water quality and quantity. The data allow clarification of the relation between reservoir management practices and current conditions, and trends in water quantity and quality in the subbasins of the hydrologic system.

Surface-Water Data

From October 2004 through May 2005, water from the Hobbs Brook Basin accounted for about 8 to 40 percent (estimated by dividing the sum of monthly discharges measured at USGS stations 01104430 and 01104433 by the sum of monthly discharges measured at USGS stations 01104460 and 01104475) of the water entering the downstream Stony Brook Reservoir (fig. 2). During the remainder of the water year (June through September), the amount of water from the Hobbs Brook Basin, most of which was released from the Cambridge Reservoir, steadily increased to about 99 percent of the total inflow of the Stony Brook Reservoir despite somewhat uniform rainfall during the summer. From December 2004 through May 2005, about 70 percent of all water entering the Stony Brook Reservoir (estimated by dividing the sum of monthly reservoir outflows measured at USGS station 01104480 by the sum of monthly discharges measured at USGS stations 01104460 and 01104475) was diverted to the Charles River (fig. 2). The volume of water released from the Stony Brook Reservoir to the Charles River during water year 2005 represents an annual surplus of about 119 percent of the total annual water demand by the city of Cambridge. During the past 5 years, this surplus has ranged from 29 to 155 percent assuming an average demand of 15 Mgal/d.

Monthly reservoir capacities for the Cambridge Reservoir varied from about 59 to 98 percent during water year 2005 (fig. 3). The reservoir was near capacity in the spring, but was subsequently drawn down as additional water was needed to supplement the city of Cambridge water demand when the yield from the Stony Brook basin diminished. Monthly reservoir capacities for the Stony Brook Reservoir and the Fresh Pond Reservoir were maintained at capacities greater than 84 and 96 percent, respectively, during water year 2005 (fig. 3). In January 2005, the CWD installed three stop logs in the Cambridge Reservoir spillway, consequently increasing the spillway altitude by an additional 1.6 feet and the reservoir capacity by an estimated 220 millions gallons (Mgal) or 8.8 percent.

Water-Quality Data

The monthly mean specific conductances for water discharged from the Cambridge Reservoir were equal to or within the interquartile range of the monthly mean specific conductances for the period of 1997 through 2005 (fig. 4). The monthly mean specific conductances for Stony Brook at USGS station 01104460 were generally higher than medians of the monthly mean specific conductances for the period of 1997 through 1998 and 2002 through 2004, and for 5 months, new maximum monthly mean specific conductances were calculated (fig. 5). The annual mean specific conductance for Fresh Pond Reservoir increased from 514 µS/cm in the 2004 water year (Smith, 2005) to 553 µS/cm during the 2005 water year (table 14). The running average specific conductance for Fresh Pond Reservoir increased by 43 µS/cm or about 8 percent between July 1 and September 30 (fig. 6) as a result of the increasing influx of water from the Cambridge Reservoir, which has a greater specific conductance, compared to water from the principal stream in the Stony Brook Basin.

Many of the small tributaries to the reservoirs differ from the principal streams in that the water quantity, as well as the water quality of the tributaries, responds more rapidly to stormwater runoff. Data illustrating these effects for flow and specific conductance at USGS station 01104415 are shown in figure 7. The daily mean specific conductance values for USGS stations 01104415, 01104433, and 01104455 differed by as much as 661 percent relative to the annual mean values during water year 2005. Daily mean specific conductance values for USGS station 01104475 differed by about 155 µS/cm or about 55 percent of the mean annual value during water year 2005. The coefficient of variation (COV) for monthly mean specific conductance values ranged from about 8 percent to about 35 percent (01104475>01104415>01104433>01104455). On the basis of 7 years of continuous specific conductance measurements at USGS station 01104455 (Smith, 2005; Socolow and others, 1999, 2000, 2001, 2002, 2003, and 2004), new maximum monthly mean values were established for 7 months during water year 2005 (fig. 8).

Table 4. Extreme measurements of physical parameters for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts. Unless otherwise footnoted, measurements of physical parameters were made both manually on an intermittent basis and automatically on a continuous basis.

[POR, period of record; yr, year; Mgal/d, millions of gallons per day; ft, feet above City of Cambridge datum; Mgal, millions of gallons; in/15min, inches of precipitation within a 15-minute interval; °C, degree Celsius; NTRU, nephelometric turbidity ratio units; mg/L, milligrams per liter; µS/cm, microsiemen per centimeter at 25° Celsius; (XX), value of parameter measured during water year 2005; —, no data]

Constituent	Statistic	USGS station number												
		01104390	01104405	01104410	01104415	01104420	01104430	01104433	01104440	01104455	01104460	01104475	01104480	422302071083801
Discharge (Mgal/d)	POR	03/07/97–09/17/98[1]	03/05/97–09/30/98	03/05/97–09/30/98	03/06/97–09/30/98; 08/26/04–current yr	04/09/97–09/30/98	03/06/97–current yr	10/23/97–09/17/98[1]; 06/28/04–current yr	03/07/97–09/30/98	10/22/97–09/22/98; 10/01/00–current yr	03/07/97–10/28/98; 05/14/02–current yr	11/06/97–09/17/98[1]; 12/24/03–current yr	10/01/99–current yr	—
	Maximum	37	102	22	91 (50)	47	40 (40)	6.4 (3.4)	61	77 (55)	277 (183)	10.8 (7.1)	420 (420)	—
	Minimum	.51	.00	.00	.00 (.00)	.05	.00 (.23)	.00 (.00)	1.0	.08 (.08)	2.2 (5.62)	.05 (.05)	.00 (.06)	—
Reservoir altitude (ft)	POR	—	—	—	—	—	10/01/01–current yr	—	—	—	—	—	10/01/99–current yr	10/01/03–current yr
	Maximum	—	—	—	—	—	182.81 (182.81)	—	—	—	—	—	81.73 (81.02)	16.75 (16.75)
	Minimum	—	—	—	—	—	169.78 (174.56)	—	—	—	—	—	62.60 (74.56)	15.29 (15.38)
Reservoir capacity (Mgal)	POR	—	—	—	—	—	10/01/01–current yr	—	—	—	—	—	10/01/99–current yr	10/01/03–current yr
	Maximum	—	—	—	—	—	2,711 (2,711)	—	—	—	—	—	271 (265)	1537 (1537)
	Minimum	—	—	—	—	—	758 (1,382)	—	—	—	—	—	29.5 (199)	1463 (1467)
Precipitation (in/15min)	POR	—	—	—	—	—	10/01/01–current yr	—	—	—	—	—	11/01/01–current yr	06/08/04–current yr
	Maximum	—	—	—	—	—	.72 (.68)	—	—	—	—	—	.57 (.49)	.91 (.91)
	Minimum	—	—	—	—	—	—	—	—	—	—	—	—	—
Air temperature (°C)	POR	—	—	—	—	—	10/01/01–current yr	—	—	—	—	—	11/01/01–current yr	10/01/03–current yr
	Maximum	—	—	—	—	—	35.2 (33.6)	—	—	—	—	—	36.5 (34.1)	35.4 (35.4)
	Minimum	—	—	—	—	—	–23.1 (–21.0)	—	—	—	—	—	–22.2 (–20.4)	–22 (–19.1)
Water temperature (°C)	POR	03/07/97–09/17/98[1]	03/05/97–09/30/98	03/05/97–09/30/98	03/06/97–09/30/98; 08/26/04–current yr	04/09/97–09/30/98	03/06/97–current yr	10/23/97–09/17/98[1]; 06/28/04–current yr	03/07/97–10/28/98	10/22/97–09/22/98; 10/01/00–current yr	03/07/97–10/28/98; 05/14/02–current yr	11/06/97–9/17/98[1]; 12/24/03–current yr	11/01/01–04/30/02	10/01/03–current yr
	Maximum	30.6	22.7	25.1	25.5 (25.5)	26.3	26.5 (26.2)	27.6 (27.6)	24.1	27.1 (27.0)	26.7 (24.7)	23.5 (23.5)	19.2	28.5 (28.5)
	Minimum	–1.0	–.4	–.2	–.8 (–.7)	–.3	.2 (.8)	–.5 (–.5)	.0	.1 (1.1)	–0.1 (–.1)	–.1 (.2)	2.5	–.4 (.4)

Table 4. Extreme measurements of physical parameters for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts. Unless otherwise footnoted, measurements of physical parameters were made both manually on an intermittent basis and automatically on a continuous basis.—Continued

[POR, period of record; yr, year; Mgal/d, millions of gallons per day; ft, feet above City of Cambridge datum; Mgal, millions of gallons; in/15min, inches of precipitation within a 15-minute interval; °C, degree Celsius; NTRU, nephelometric turbidity ratio units; mg/L, milligrams per liter; µS/cm, microsiemen per centimeter at 25° Celsius; (XX), value of parameter measured during water year 2005; —, no data]

Constituent	Statistic	USGS station number												
		01104390	01104405	01104410	01104415	01104420	01104430	01104433	01104440	01104455	01104460	01104475	01104480	422302071083801
Specific conductance (µs/cm)	POR	03/07/97–09/17/98[1]	03/05/97–09/30/98	03/05/97–09/30/98	03/06/97–09/30/98; 08/26/04–current yr	04/09/97–09/30/98	03/06/97–current yr	10/23/97–09/17/98[1]; 06/28/04–current yr	04/09/97–10/28/98	10/22/97–09/22/98; 10/01/00–current yr	03/07/97–10/28/98; 05/14/02–current yr	11/06/97–09/17/98[1]; 12/24/03–current yr	11/01/01–11/05/03	10/01/03–current yr
	Maximum	250	4,360	1,430	26,800 (16,800)	7,500	1,940 (926)	10,300 (10,300)	1,170	72,700 (22,300)	3,420 (1,770)	3,540 (778)	865	770 (760)
	Minimum	112	39	54	42 (210)	18	163 (585)	52 (52)	128	13 (28)	45 (218)	40 (61)	308	452 (464)
Dissolved oxygen (mg/L)	POR	10/22/97–09/17/98[1]	10/27/97–09/16/98[1]	10/27/97–09/16/98[1]	04/07/97–09/16/98[1]; 08/26/04–current yr[1]	10/22/97–09/16/98[1]	10/21/97–09/16/98[1]	10/23/97–09/17/98[1]; 08/27/04–current yr[1]	10/21/97–10/28/98[1]	10/22/97–09/22/98; 08/27/04–current yr	10/22/97–10/28/98[1]; 05/14/02–current yr[1]	11/06/97–09/17/98[1]; 08/26/04–current yr[1]	11/01/01–11/05/03	—
	Maximum	13.6	15	11.6	11.6 (11.4)	13.3	14.7	11.8 (8.9)	14.0	12.8 (9.7)	13.4	14.6 (12.3)	13.7	—
	Minimum	7.0	6.1	7.2	5.3 (5.3)	5.5	7.3	.9 (4.2)	7.7	7.6 (6.7)	7.4	7.4 (7.4)	2.8	—
pH	POR	03/07/97–09/17/98[1]	03/05/97–09/16/98[1]	10/27/97–09/16/98[1]	03/06/97–09/16/98[1]; 08/26/04–current yr[1]	04/09/97–09/16/98[1]	03/06/97–09/16/98[1]	10/23/97–09/17/98[1]; 08/27/04–current yr[1]	03/07/97–10/28/98[1]	10/22/97–09/22/98; 08/27/04–current yr	03/07/97–10/28/98; 05/14/02–current yr	11/06/97–09/17/98[1]; 08/26/04–current yr[1]	11/01/01–10/31/03	—
	Maximum	7.8	7.9	7.2	7.2 (6.8)	8.7	7.5	7.7 (7.0)	7.6	7.7 (6.7)	7.0	7.5 (7.3)	7.5	—
	Minimum	6.2	5.8	5.5	6.1 (6.1)	4.1	5.8	5.9 (6.5)	6.0	6.1 (6.1)	6.0	6.3 (6.6)	6.5	—
Turbidity (NTRU)	POR	—	—	—	08/26/04–current yr[1]	—	06/12/02–09/04/02[1]	08/27/04–current yr[1]	—	10/22/97–09/22/98[1]; 08/27/04–current yr[1]	06/13/02–current yr	08/26/04–current yr[1]	11/01/01–11/05/03	—
	Maximum	—	—	—	79 (79)	—	3.0	1.8 (1.8)	—	120 (70)	[2]270	150 (150)	[3]97	—
	Minimum	—	—	—	1.1 (1.1)	—	.4	45 (45)	—	.4 (.6)	[2].6	.6 (.6)	[3].3	—

[1]Measurements of physical parameters were made manually and on an intermittent basis.

[2]Turbidity values are expressed in formazin nephelometric multibeam units.

[3]Turbidity values are expressed in formazin nephelometric units.

Table 5. Extreme and median constituent concentrations measured in water samples for U.S. Geological Survey monitoring stations in the drinking-water source area for Cambridge, Massachusetts, for the period of record.

[POR, period of record; N, number of samples; mg/L, milligram per liter; yr, year; <, less than]

Constituent	Statistic	USGS station number										
		01104390	01104405	01104410	01104415	01104420	01104430	01104433	01104440	01104455	01104460	01104475
Calcium (mg/L) (filtered)	POR	03/07/97–09/17/98	03/05/97–09/16/98	03/05/97–09/16/98	03/06/97–09/16/98; 08/26/04–current yr	04/09/97–09/16/98	03/06/97–10/27/98	10/23/97–09/15/05	03/07/97–10/28/98	10/22/97–09/22/98; 03/05/03–current yr	03/07/97–10/28/98	12/17/97–09/17/98; 08/26/04–current yr
	Maximum	20	35	62	340	88	21.9	85.7	21.5	70.4	21.2	21.3
	Medium	13	13	29.5	47.6	33	17.9	52	17.5	30.5	16.6	12.9
	Minimum	10	8.2	15	10.8	13	15.8	26	16	5.3	12.3	7.69
	N	25	28	24	40	32	26	14	26	22	28	19
Sodium (mg/L) (filtered)	POR	03/07/97–09/17/98	03/05/97–09/16/98	03/05/97–09/16/98	03/06/97–09/16/98; 08/26/04–current yr	04/09/97–09/16/98	03/06/97–10/27/98	10/23/97–09/15/05	03/07/97–10/28/98	10/22/97–09/22/98; 03/05/03–current yr	03/07/97–10/28/98	12/17/97–09/17/98; 08/26/04–current yr
	Maximum	25	382	251	5220	936	88.9	281	76.1	3,600	67.8	33.9
	Median	15	27.5	104.5	253	111	64	165	61.35	97	39.8	18.2
	Minimum	12	18	71	59.6	50	56.3	67	37.9	18	23.5	14
	N	25	28	24	40	32	26	14	26	22	28	19
Chloride (mg/L) (filtered)	POR	03/07/97–09/17/98	03/05/97–09/16/98	03/05/97–09/16/98	03/06/97–09/16/98; 08/26/04–current yr	04/09/97–09/16/98	03/06/97–10/27/98	10/23/97–09/15/05	03/07/97–10/28/98	10/22/97–09/22/98; 03/05/03–current yr	03/07/97–10/28/98	12/17/97–09/17/98; 08/26/04–current yr
	Maximum	45	680	490	9,000	1,600	162	544	136	5,800	122	66.8
	Median	26	44.5	210	460	210	115	330	107.5	165	70	28
	Minimum	20	37	120	110	81	105	110	69.9	20	36.7	21
	N	25	28	24	40	32	26	14	26	22	28	19

Table 5. Extreme and median constituent concentrations measured in water samples for U.S. Geological Survey monitoring stations in the drinking-water source area for Cambridge, Massachusetts, for the period of record.—Continued

[POR, period of record; N, number of samples; mg/L, milligram per liter; yr, year; <, less than]

Constituent	Statistic	USGS station number										
		01104390	01104405	01104410	01104415	01104420	01104430	01104433	01104440	01104455	01104460	01104475
Sulfate (mg/L) (filtered)	POR	04/09/97–09/17/98	04/07/97–09/16/98	04/07/97–09/16/98	04/07/97–09/16/98; 08/26/04–current yr	04/09/97–09/16/98	04/09/97–10/27/98	10/23/97–09/15/05	04/09/97–10/28/98	10/22/97–09/22/98; 03/05/03–current yr	04/15/97–10/28/98	11/20/97–09/17/98; 08/26/04–current yr
	Maximum	21	39	24	180	38	18.8	34.9	18.6	85	18.7	24
	Median	13	15	12	28	21	14.1	27.6	13.4	25	13.1	16
	Minimum	7.4	6.8	7.5	6.2	5.2	9.5	16	9.5	4.8	10.5	8
	N	13	17	12	29	21	14	14	14	20	15	21
Phosphorus (mg/L) (unfiltered)	POR	04/09/97–09/17/98	04/07/97–09/16/98	04/07/97–09/16/98	04/07/97–09/16/98; 08/26/04–current yr	04/09/97–09/16/98	04/09/97–10/27/98	10/23/97–09/15/05	04/09/97–10/28/98	10/22/97–09/22/98; 03/05/03–current year	04/15/97–10/28/98	11/20/97–09/17/98; 08/26/04–current yr
	Maximum	0.02	0.05	0.18	0.5	0.07	0.03	0.18	0.06	0.45	0.06	0.8
	Median	<.01	.02	<.01	<.01	<.01	<.01	.02	.01	<.01	<.01	.02
	Minimum	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
	N	13	19	14	27	20	16	16	15	22	17	21
Nitrogen, (mg/L) (total)	POR	04/09/97–09/17/98	04/07/97–09/16/98	04/07/97–09/16/98	04/07/97–09/16/98; 08/26/04–current yr	04/09/97–09/16/98	04/09/97–10/27/98	10/23/97–09/15/05	04/09/97–10/28/98	10/22/97–09/22/98; 03/05/03–current yr	04/15/97–10/28/98	11/20/97–09/17/98; 08/26/04–current yr
	Maximum	1.3	1.04	.87	2.38	1.34	.53	2.64	1.27	4.23	1.03	5.13
	Median	.93	.64	.50	1.59	.99	.42	1.72	.57	1.79	.7	1.28
	Minimum	.65	.45	.33	.82	.37	.24	.59	.13	.62	.17	.84
	N	14	19	14	28	20	15	16	15	22	17	21

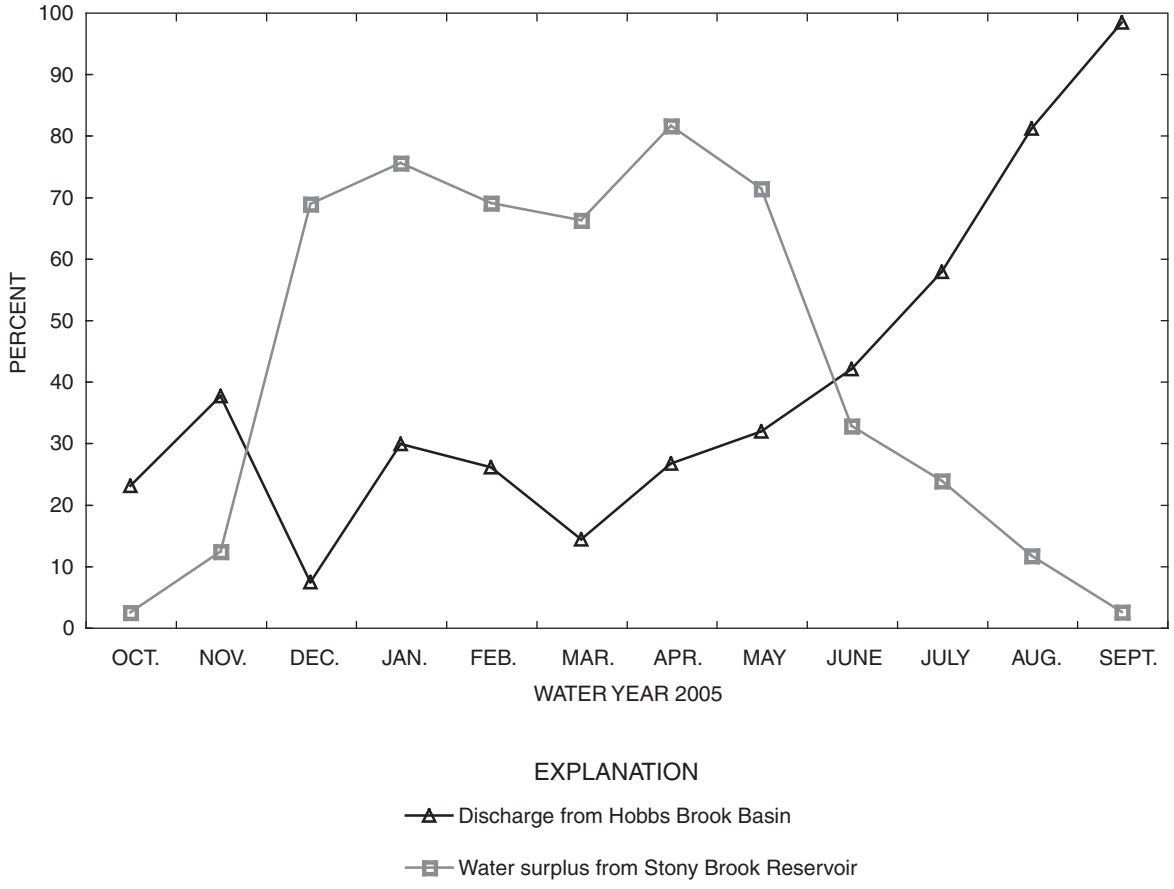

Figure 2. The percentage of water supplied from the Hobbs Brook basin relative to the total water entering the Stony Brook Reservoir compared to the percentage of water discharged from the Stony Brook Reservoir to the Charles River relative to the total inflow for water year 2005, eastern Massachusetts.

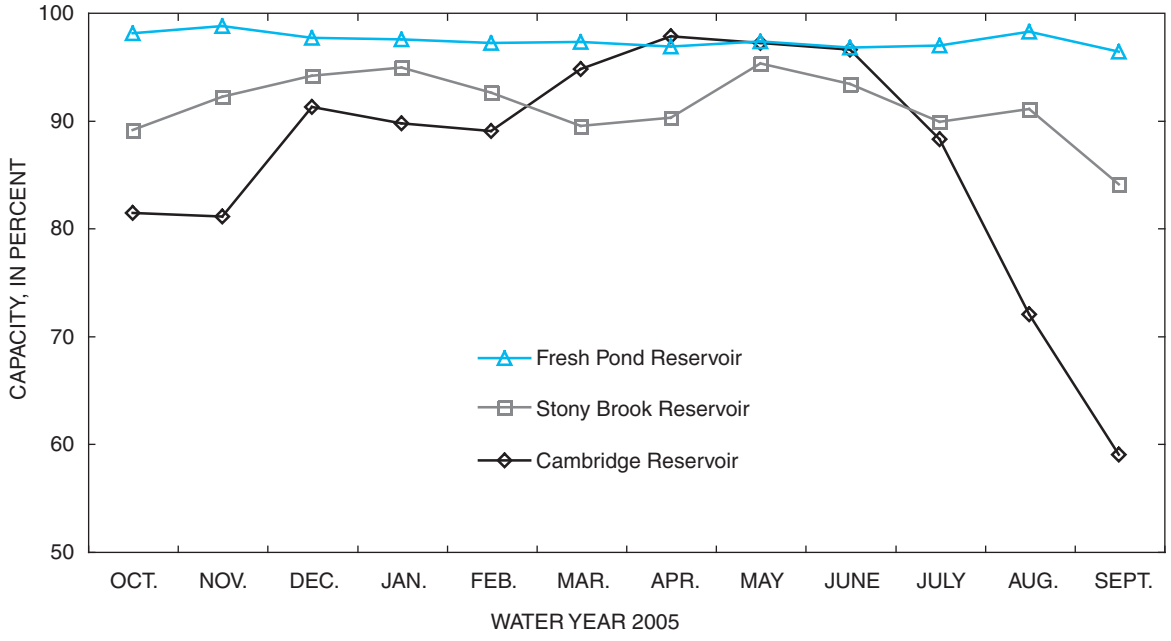

Figure 3. Monthly mean reservoir-storage capacities for water year 2005 shown as percent capacity for the Cambridge Reservoir, Stony Brook Reservoir, and Fresh Pond Reservoir, eastern Massachusetts.

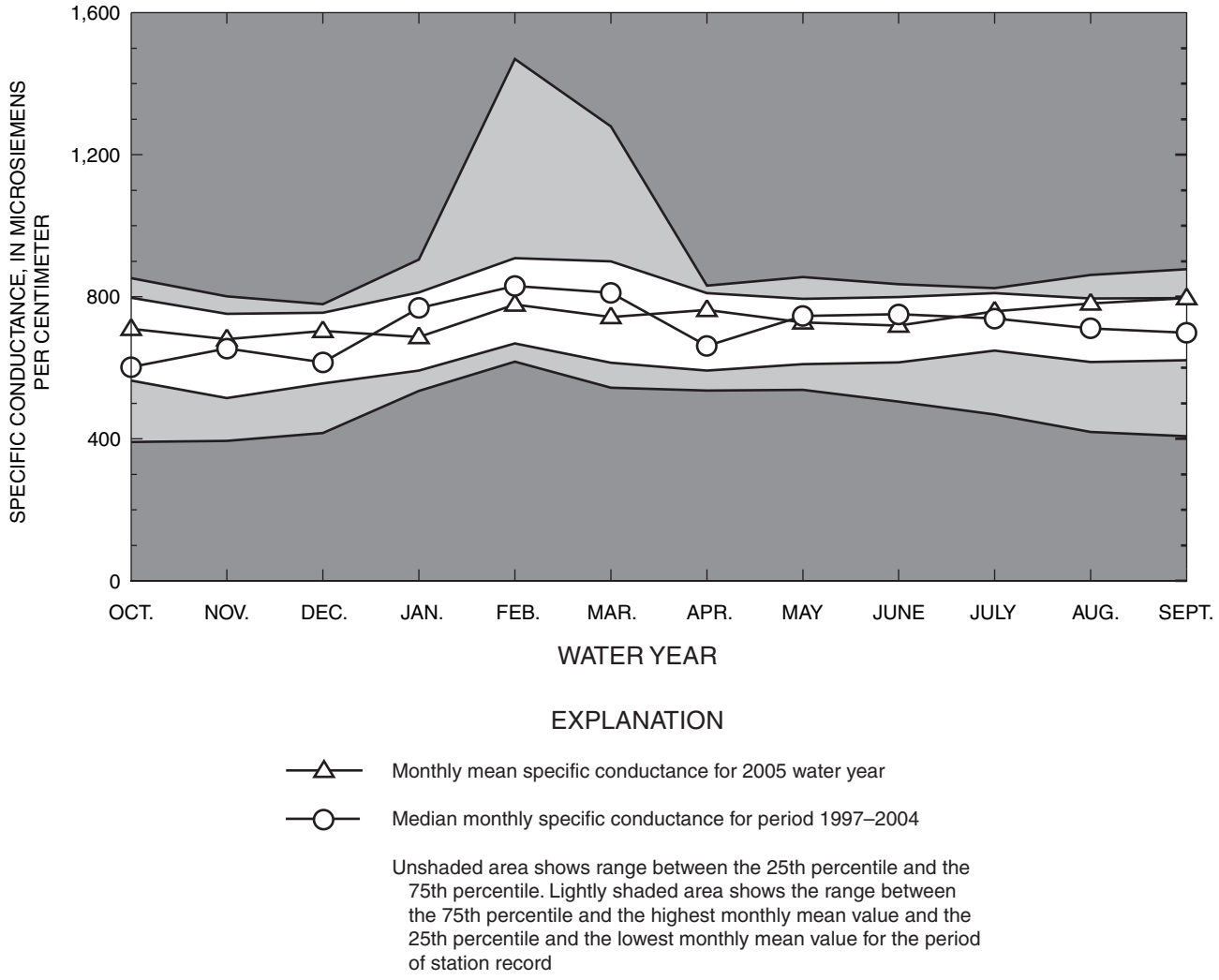

Figure 4. Monthly mean specific conductance for water year 2005 for USGS station 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green, Massachusetts, compared to the period-of-record maximum and minimum monthly mean specific conductance, and the median monthly specific conductance for water years 1997–2004.

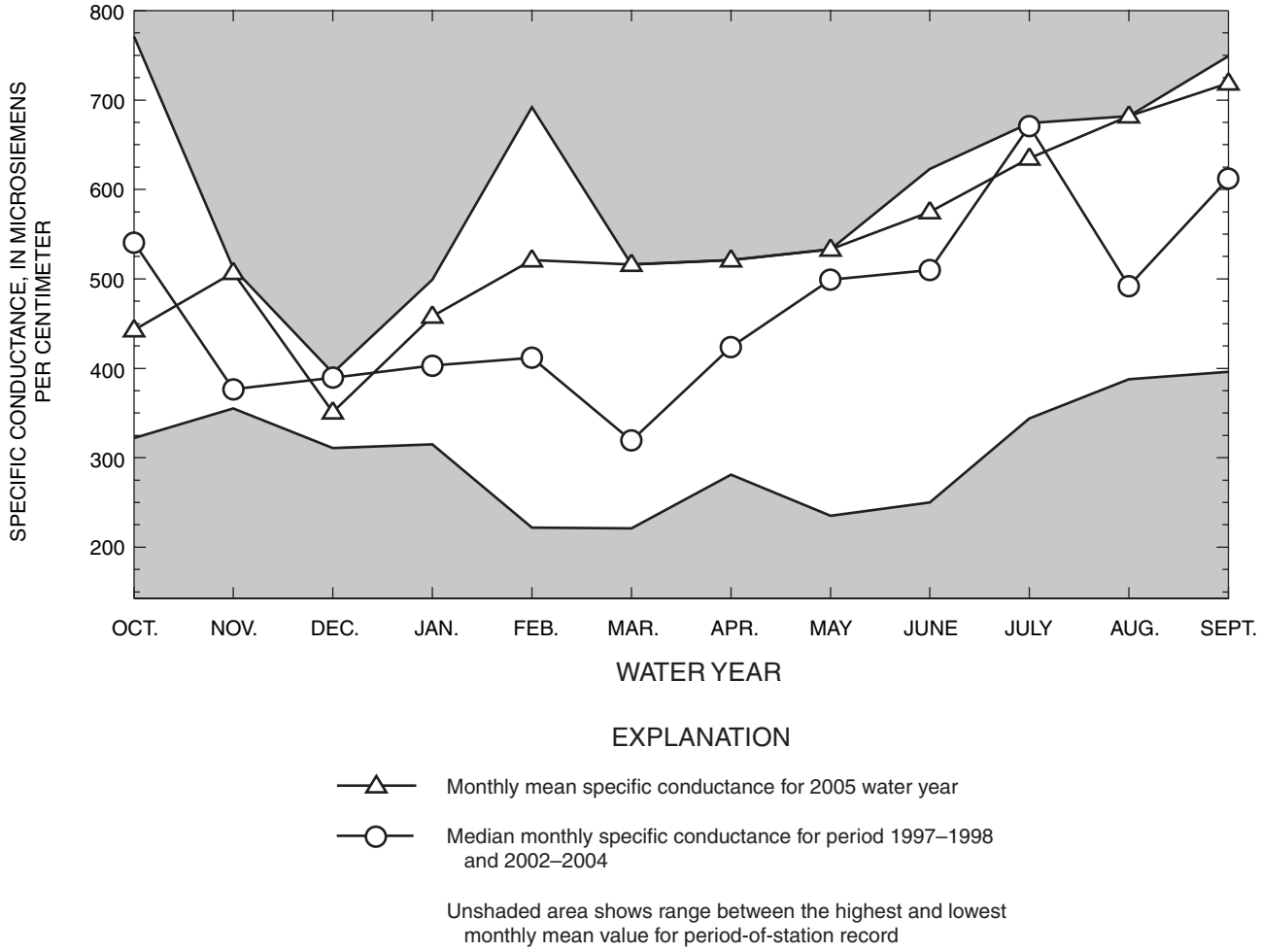

Figure 5. Monthly mean specific conductance for water year 2005 for USGS station 01104460, Stony Brook at Route 20 at Waltham, Massachusetts, compared to the period-of-record maximum and minimum monthly mean specific conductance, and the median monthly specific conductance for water years 1997–1998 and 2002–2004.

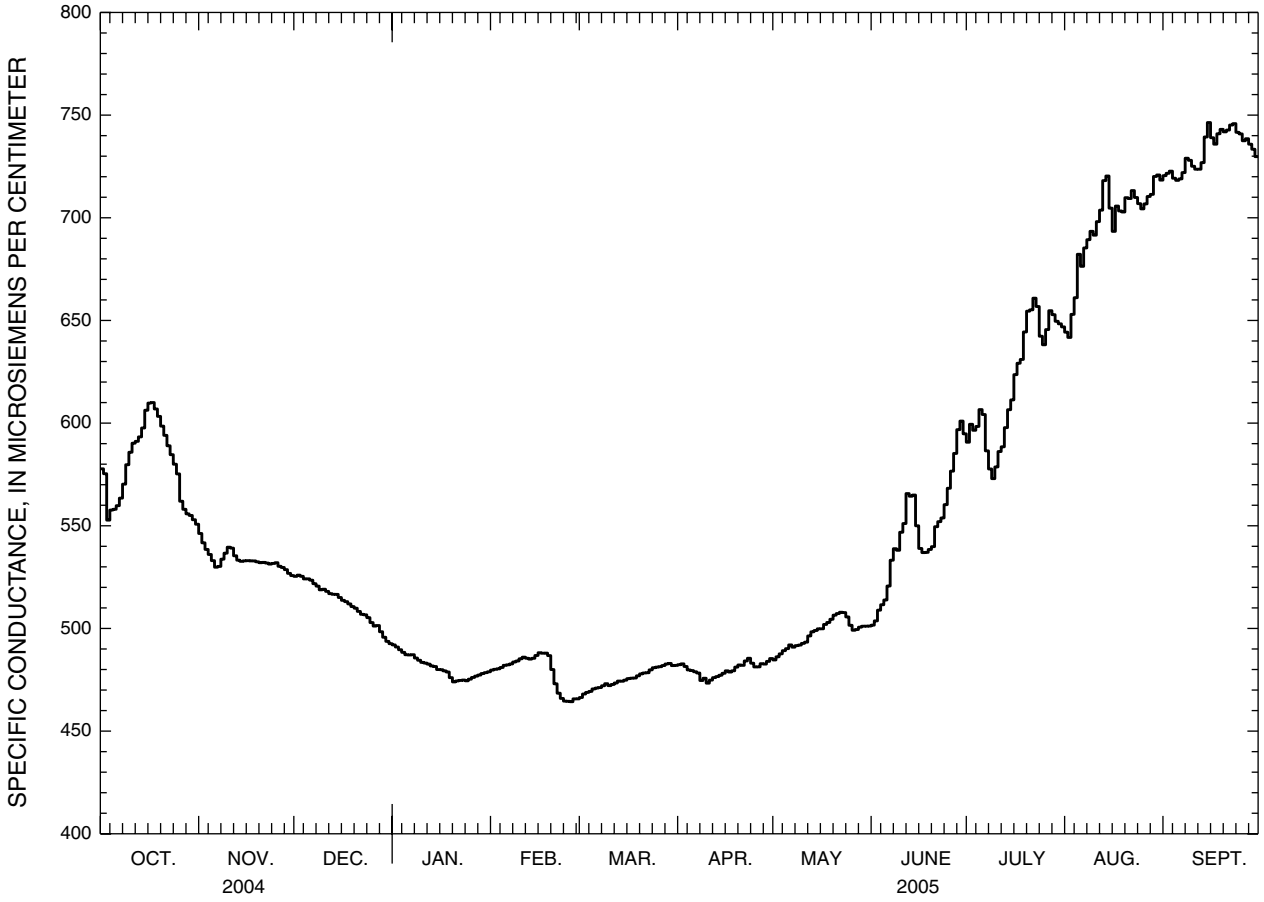

Figure 6. Daily mean specific-conductance values for USGS station 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.

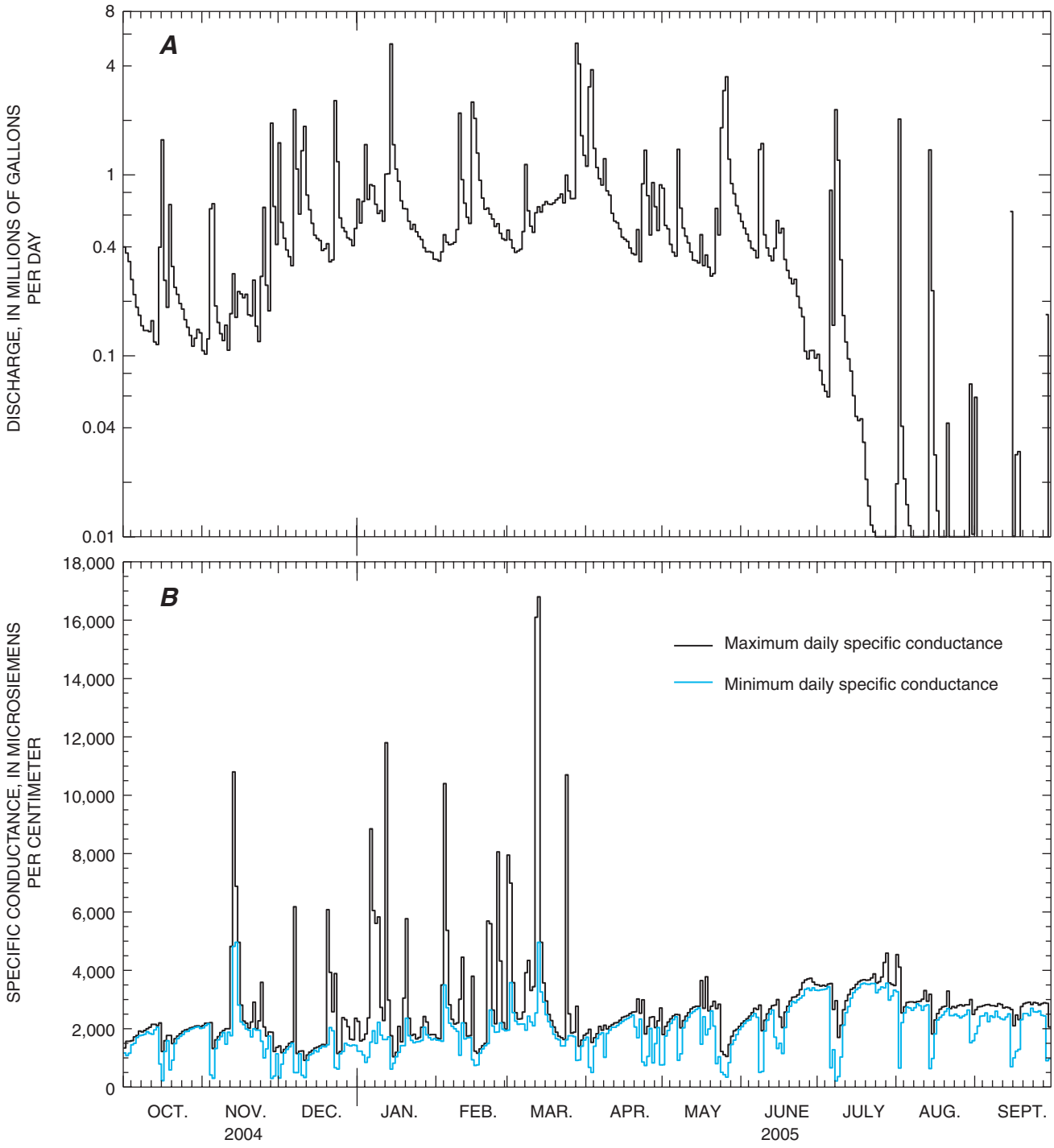

Figure 7. (*A*) Daily total flows greater than 0.01 million gallons per day, and (*B*) daily maximum and daily minimum specific conductance values for USGS station 01104415, Cambridge Reservoir, unnamed tributary 2, near Lexington, Massachusetts, for water year 2005.

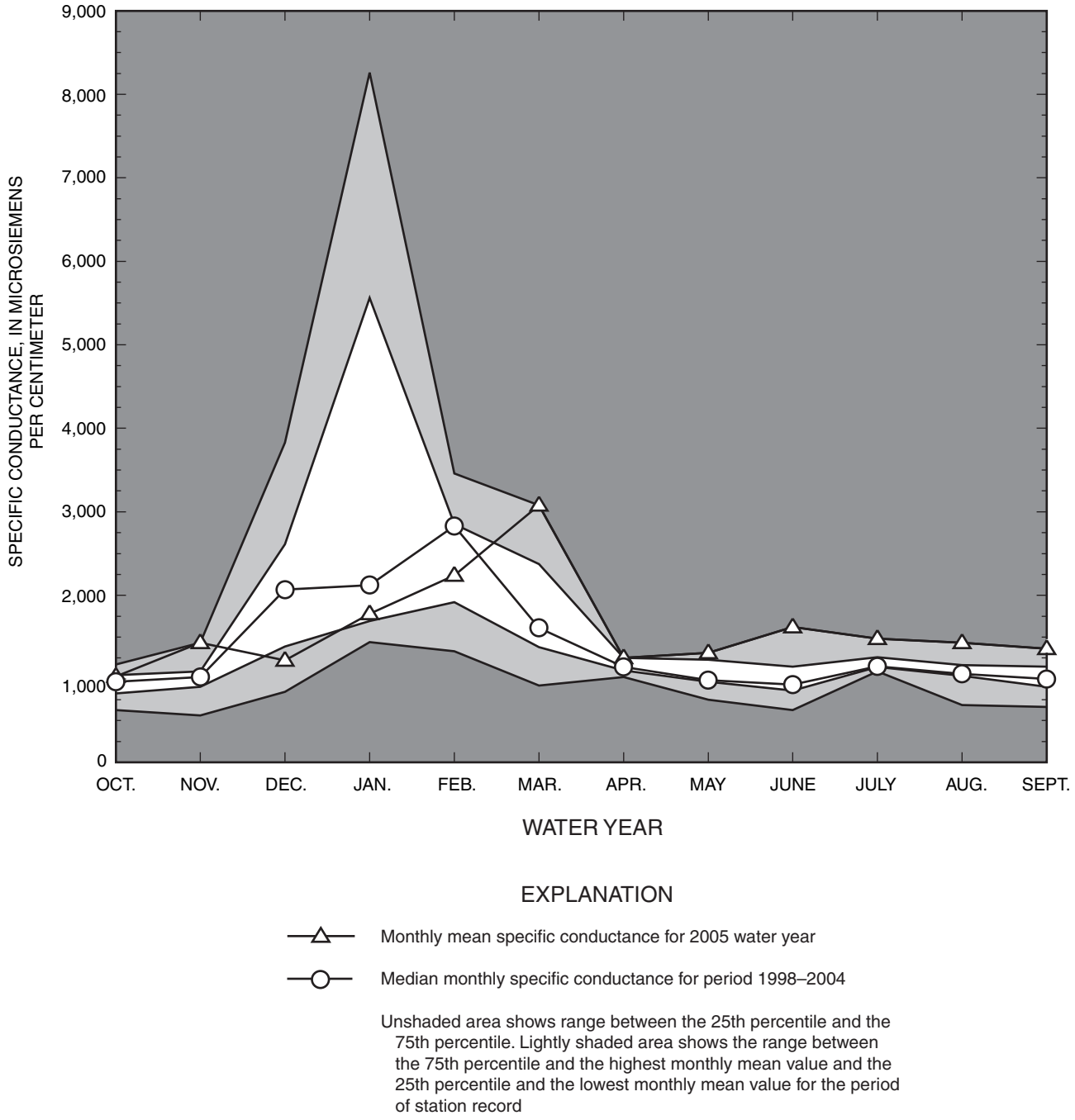

Figure 8. Monthly mean specific conductance for water year 2005 for USGS station 01104455, Stony Brook, unnamed tributary 1, near Waltham, Massachusetts, compared to the period-of-record maximum and minimum monthly mean specific conductance, and the median monthly specific conductance for water years 1998–2004.

Water Samples

Concentrations of most dissolved constituents in water samples collected during storms were generally lower than the concentrations observed in water samples collected during base-flow conditions. Nutrient concentrations, including total nitrogen and total phosphorus were similar in samples collected during base-flow conditions for all subbasins; however, phosphorus concentrations were substantially greater in stormwater samples. Most **total-recoverable** metals were detected in samples of base-flow water as well as in samples of stormwater. Detections of chromium were observed only in samples of stormwater except for one sample collected under base-flow conditions at USGS station 01104415. Lead concentrations were consistently higher in samples of stormwater. With the exception of cadmium and manganese, concentrations of total metals and suspended sediment were generally higher in samples of stormwater than in samples of base-flow water for each of the tributaries.

Iron, manganese, nickel, and zinc were the only metals detected in the field-blank water. Concentrations of iron, manganese, and nickel were at least about an order of magnitude less than the lowest concentration found in the environmental samples collected at the four tributaries. Although the concentration of zinc measured in the field-blank water was low, the results for several environmental samples (particularly those samples collected at USGS station 01104475) also were low and should be viewed with caution. Assuming the concentration of zinc measured in the field-blank water represents the maximum amount of contamination present in any given sample, the potential bias is within the measurement error of the analytical technique (Garbarino and Struzeski, 1998) for environmental samples with concentrations of zinc greater than 20 **micrograms per liter** (µg/L).

Concentrations of dissolved chloride and total recoverable manganese in samples of base-flow water collected at USGS stations 01104415, 01104433, and 01104455 during December and August exceeded the USEPA secondary drinking water standards of 250 and 0.05 mg/L (U.S. Environmental Protection Agency, 2002a), respectively. In samples of stormwater collected at USGS stations 01104415, 01104433, 01104455, and 01104475 in July, August, and September, concentrations of dissolved chloride were below the secondary standard. Conversely, concentrations of total recoverable manganese in all samples of stormwater exceeded the secondary drinking water standard. In half of the water samples collected at USGS stations 01104415, 01104455 and 01104475, concentrations of total recoverable iron exceeded the USEPA secondary drinking water standard of 0.3 mg/L (U.S. Environmental Protection Agency, 2002a). Concentrations of total recoverable iron in all four samples collected at USGS station 01104433 exceeded the secondary standard. In several cases, the concentrations of total recoverable iron in water samples collected during storms exceeded the standard by more than an order of magnitude.

National secondary drinking water regulations are non-mandatory water-quality standards established by the USEPA. They are guidelines designed to assist public water suppliers in managing their drinking water for aesthetic considerations, such as taste, odor, color, foaming, corrosivity, staining, scaling, and sedimentation. These constituents do not present a risk to human health at the secondary maximum contaminant level (U.S. Environmental Protection Agency, 2002a). Although these standards are typically applied to finished water, the presence of these constituents in concentrations that exceed the respective standards can damage water equipment or reduce the effectiveness of treatment for other contaminants. Some constituents, such as chloride, sodium, and nitrogen, cannot be effectively removed or reduced during the water treatment process (table 15).

Concentrations of *Escherichia coli* bacteria in water samples of base flow ranged from 4 to 1,400 colony-forming units per 100 mL (col/100mL). Bacterial concentrations were lower in water samples of base flow collected in December compared to water samples of base flow collected in July. Concentrations of *Escherichia coli* bacteria in composite samples of stormwater ranged between 1,700 to 43,000 col/100mL) with the highest concentrations measured at USGS station 01104475. Bacteria concentrations in all equipment-blank samples were less than the detection limit. The difference between concentrations of bacteria in replicate split samples ranged from 5 to 91 percent.

Fluoranthene, 9*H*-fluorene, acenaphthene, anthracene, phenanthrene, and pyrene were the only PAHs detected in samples of base-flow water. Fluoranthene and pyrene were the most commonly detected compounds in base-flow samples. Concentrations of PAH compounds observed in composite samples of stormwater were higher, often as much as an order of magnitude or more, than concentrations measured in samples of base-flow water. With the exception of nitrobenzene, which was the only compound not detected at a concentration of 2 µg/L in any sample, all PAH compounds were detected at all subbasins in one or both composite samples of stormwater. Fluoranthene, phenanthrene, and pyrene were the only PAH compounds found in the water sample collected from the Fresh Pond Reservoir intake structure. None of these compounds were detected at the respective detection limits (table 15) in the finished drinking water.

Naphthalene was the only PAH compound detected in the field blank. The field blank concentration was about 2 times greater than the environmental sample concentrations, and as a result, the environmental results should be viewed with caution. One possible explanation for the detection of naphthalene in the field blank is that sodium naphthalene is used in the manufacturing of some Teflon products (Benderly, 1962). Because the source water was stored in a bottle lined with a Teflon bag for nearly 14 months, it is possible that the naphthalene leached from the bag and therefore the concentrations found in the environmental samples may be in fact valid.

Sixteen pesticides and caffeine were detected in water samples collected in four tributaries and in raw water collected

from the Cambridge water-treatment facility intake from the Fresh Pond Reservoir in water year 2005. Most of these pesticides are found in over-the-counter products used for turf management and the treatment of ornamental shrubs (table 6). Caffeine, 2,4-D, imidacloprid, and siduron were the only compounds detected in all four subbasins. Carbaryl and metsulfuron were detected in three of the four subbasins. Caffeine, imidacloprid, and siduron were also detected in water from the Fresh Pond Reservoir. The compounds 3-ketocarbofuran, carbaryl, MCPA, propoxur, siduron, and triclopyr were only detected in water samples collected from storm-water runoff. Caffeine, imidacloprid, and siduron were the most frequently detected compounds (table 7).

Meteorological Data

The distribution of monthly precipitation totals for the USGS station at the Cambridge Reservoir (fig. 9) was more uniform during the 2005 water year than during any other water year for the period of record (Smith, 2005; Socolow and others, 2002, 2003, and 2004). The COVs for monthly precipitation totals for the three stations that measured precipitation ranged from about 32 to 34 percent. Monthly precipitation totals for USGS stations at the Stony Brook Reservoir and the Fresh Pond Reservoir differed by -10 to 47 percent compared to the USGS station at the Cambridge Reservoir. Average differences compared to the station at the Cambridge Reservoir were about 19 and 26 percent, respectively. In general, variability between monthly precipitation totals for all stations is attributed to differences in storm tracks, storm intensity patterns, and storm wind intensity. Additionally, variability between monthly precipitation totals during the winter months is compounded by a change in precipitation type, that is, snow is less dense and therefore affected more by wind. The precipitation gages at the Stony Brook Reservoir and Fresh Pond Reservoir are more susceptible to wind bias and therefore the totals are generally lower (fig. 9). The annual precipitation total recorded at the Cambridge Reservoir during water year 2005 was within 2 inches of the totals recorded during the previous two water years.

Mean monthly air temperature values were similar from site to site, differing by no more than about 1.5°C. Mean monthly air temperature values for the USGS station at the Cambridge Reservoir had the greatest amount of variability in the months of January and February (fig. 10). During the 2005 water year, mean monthly air temperature values were within 1°C of the median values for water years 2002 through 2004, except for the months of January, March, May, and June.

Table 6. Characteristics of selected pesticides detected in base-flow and stormflow water samples collected in the Hobbs Brook and Stony Brook Reservoir basins, eastern Massachusetts, for water year 2005.

[CAS, Chemical Abstracts Service]

Pesticide target analyte	Trade or common names	Type of pesticide	CAS registry number	Use	References
Caffeine	None	Stimulant	58-08-2	Coffee, tea, cocoa, soft drinks, chocolate, prescription, and over-the-counter drugs.	Seiler, R.L. and others (1999)
2,4-D	"Agent White," Bladex-B, Brush Killer 64, Dicofur, Dormon, Ipaner, Moxon, Netagrone, Pielik, Verton 38, Mota Maskros, Silvaprop 1, Agricorn D, Acme LV4, Croprider, Fernesta, Lawn-Keep, Pennamine D, Plantgard, Tributon, Weed-B-Gon®, Weedatul, Agroxone, Weedar®, Salvo, Green Cross Weed-No-More 80, Red Devil Dry Weed Killer, Scott's 4XD, Weed-Rhap LV40, Weedone 100, 2,4-Dichloro-phenoxyacetic acid, and Weedon-2,4,-DP	Herbicide	94-74-7	Used for the control of broad-leaf weeds in agriculture, and for control of woody plants along roadsides, railways, and utilities rights of way.	U.S. Environmental Protection Agency (2006a), Wagner and others (2006)
2-Chloro-6-ethylamino-4-amino-s-triazine	Metabolite of atrazine	Herbicide metabolite	94-75-7	Parent compound is used to control broadleaf and grassy weeds in crops and non-cropped areas.	Wagner and others (2006)
3-Ketocarbofuran	Metabolite of carbofuran	Insecticide metabolite	16709-30-1	Parent compound is used to control beetles, nematodes and rootworm. Applications include alfalfa, rice, grapes, and turf.	U.S. Environmental Protection Agency (2006b)
Benomyl	Benlate, Tersan	Fungicide	17804-35-2	Used as a fungicide on vegetables, ornament shrubs, and turf.	U.S. Environmental Protection Agency (2001), Hornsby and others (1996)
Carbaryl	Ortho Seven, Sevin	Insecticide	63-25-2	Used as a broad-spectrum insecticide in agriculture, professional turf management and ornamental production, and residential lawns and gardens.	U.S. Environmental Protection Agency (2004b), Hornsby and others (1996)
Diuron	Aguton, DCMU, Di-on, Direx, Karmex, Topsite	Herbicide	330-54-1	Used to control weeds and mosses on turf and on many crops.	Wagner and others (2006), Hornsby and others (1996), Extension Toxicology Network (1993a)
Imazaquin	Ala-Scept, Scepter, Squadron, Tri-Scept, Partner, Skepter 1.5L, and Image 1.5LC	Herbicide	81335-37-7	Selective, pre- and postemergence herbicide.	Wagner and others (2006), Extension Toxicology Network (1996), Hornsby and others (1996)

Table 6. Characteristics of selected pesticides detected in base-flow and stormflow water samples collected in the Hobbs Brook and Stony Brook Reservoir basins, eastern Massachusetts, for water year 2005.—Continued

[CAS, Chemical Abstracts Service]

Pesticide target analyte	Trade or common names	Type of pesticide	CAS registry number	Use	References
Imidacloprid	Admire, Condifor, Gaucho, Premier, Premise, Provado, Marathon and Merit	Insecticide	138261-41-3	Used to control sucking insects, including aphids, termites, and turf insects in crops and turf.	Wagner and others (2006), Extension Toxicology Network (2005)
MCPA	Agritox, Agroxone, Border Master, Chiptox, Metaxon, Rhomene, Rhonox, Weed-Rhap, Weedone, Weedar	Herbicide	94-74-6	Used for selective control of broadleaf weeds on turf, lawns, vines, rights-of-way, and forestry applications.	Wagner and others (2006), U.S. Environmental Protection Agency (2004a), Hornsby and others (1996), Extension Toxicology Network (1993b)
Metalaxyl	Ridomil, Apron, Delta-Coat AD, Subdue 2E	Fungicide	57837-19-1	Controls plant diseases caused by water-mold fungi. Used on crops, ornament shrubs and trees, and turf.	Wagner and others (2006), Hornsby and others (1996), U.S. Environmental Protection Agency (1994), Extension Toxicology Network (1993c)
Metsulfuron	Escort®, Ally®, Allie, Grooper	Herbicide	74223-64-6	Used as a selective pre- and postemergence herbicide for broadleaf weeds and some annual grasses.	Wagner and others (2006), Hornsby and others (1996), Extension Toxicology Network (1993d)
Norflurazon	Zorial, Solicam, Evital	Herbicide	27314-13-2	Used to control germinating annual grasses and broadleaf weeds in agricultural, non-agricultural, and industrial areas.	Wagner and others (2006), U.S. Environmental Protection Agency (1996), Hornsby and others (1996)
Propiconazole	Alamo, Banner, Benit, Break, Bumper, Desmel, Fidis, Juno, Mantis, Maxx, Novel, Practis, Orbit, Radar, Restore, Spire, Taspa, Tilt, Wocosin	Fungicide	60207-90-1	Used on grasses grown for seed, many crops, conifors, hardwoods, and fruit trees.	Wagner and others (2006), Extension Toxicology Network (1997), Hornsby and others (1996)
Propoxur	Arprocarb, Bay 9010, Bayer 39007, Baygon, Bifex, Blattanex, Bolfo, Invisigard, Mobay, PHC, Propogon, Propyon, Rhoden, Sendra, Sendran, Suncide, Tendex, UNDEN, Undene	Insecticide	114-26-1	Used to control insects in lawns, turf, and buildings.	Wagner and others (2006), Hornsby and others (1996), Extension Toxicology Network (1993e)
Siduron	Tupersan, Trey	Herbicide	1982-49-6	Preemergence treatment for turf.	Wagner and others (2006), Hornsby and others (1996)
Triclopyr	Access, Crossbow, Curtail, ET, Garlon, Grazon, Redeem, Turflon	Herbicide	55335-06-3	Selective systemic herbicide used for control of woody and broadleaf plants in turf and along rights-of-way.	Wagner and others (2006), Hornsby and others (1996), Extension Toxicology Network (1993f)

Table 7. Frequency of detection and maximum concentration of selected pesticides detected in base-flow and stormflow water samples collected in the Hobbs Brook and Stony Brook Reservoir basins, eastern Massachusetts, for water year 2005.

[E, the recovery or variation in recovery of the analyte was outside the acceptable range, or concentration reported is less than laboratory reporting level and is qualified as estimated]

Pesticide target analyte	Frequency of detection for water year 2005 (percent)	Number of samples	Maximum concentration (micrograms per liter)
Caffeine	81	16	E1.69
2,4-D	31	16	E7.92
2-Chloro-6-ethylamino-4-amino-s-triazine	6	16	E.01
3-Ketocarbofuran	8	12	E.08
Benomyl	19	16	E.176
Carbaryl	25	16	.03
Diuron	25	16	E.14
Imazaquin	19	16	E.06
Imidacloprid	63	16	E1.00
MCPA	8	12	E.16
Metalaxyl	19	16	E.04
Metsulfuron	25	16	E3.90
Norflurazon	19	16	E.15
Propiconazole	19	16	E.54
Propoxur	6	16	E2.46
Siduron	44	16	E.06
Triclopyr	13	16	E1.44

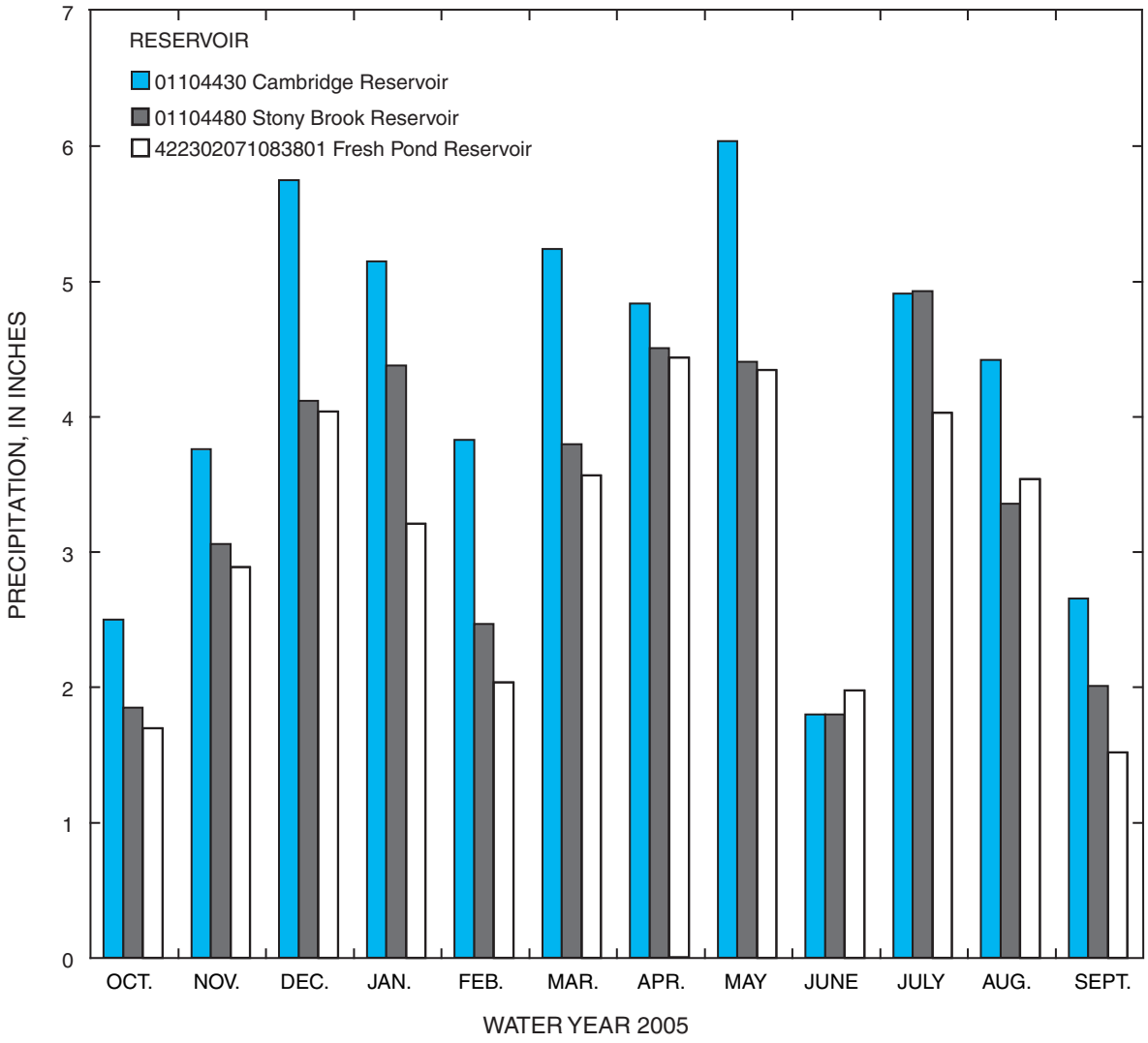

Figure 9. Monthly precipitation totals for the Cambridge Reservoir, Stony Brook Reservoir, and Fresh Pond Reservoir in the Cambridge, Massachusetts, drinking-water source area for water year 2005.

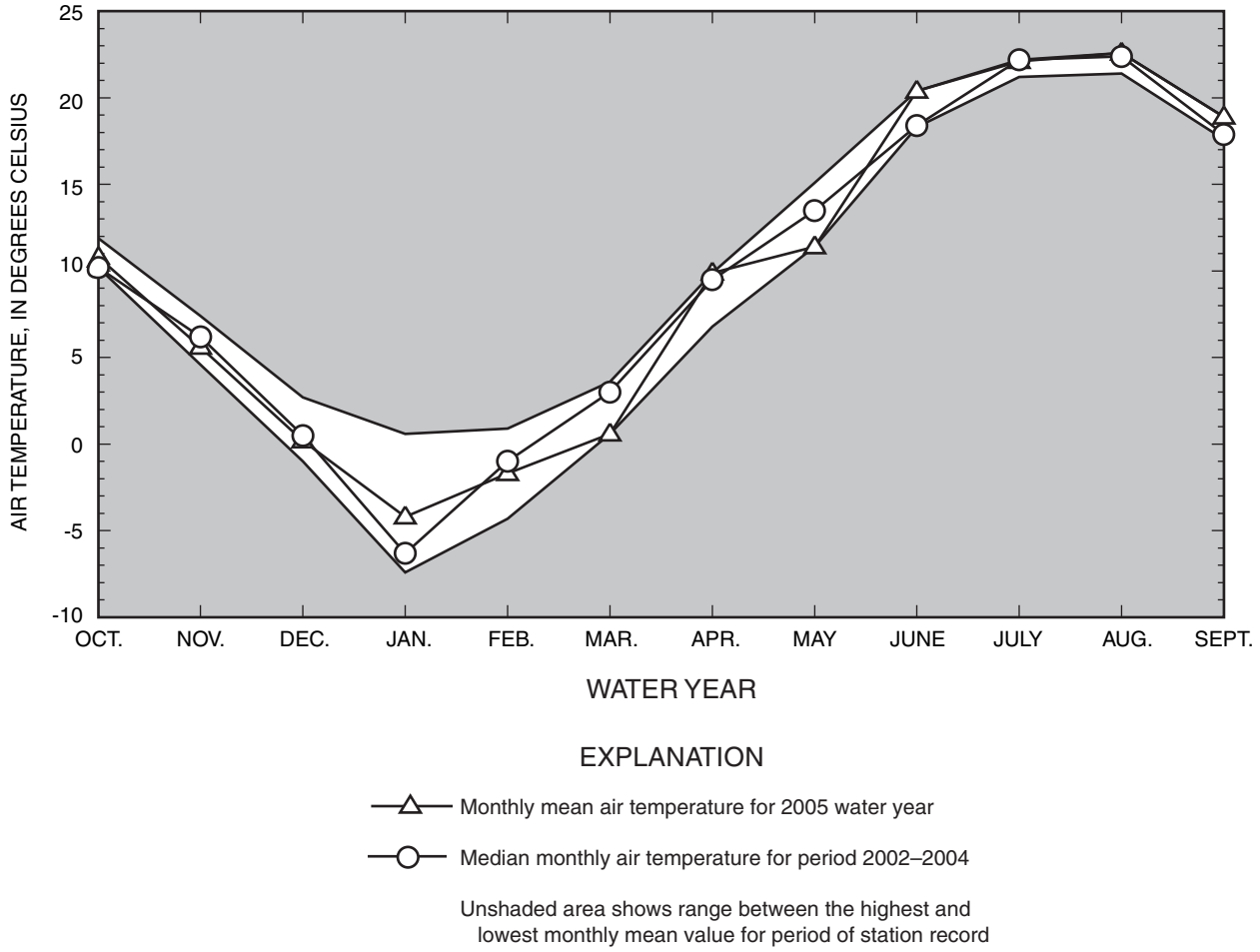

Figure 10. Monthly mean air temperatures for water year 2005 for the Cambridge Reservoir, compared to the period-of-record maximum and minimum monthly mean air temperatures and the median monthly air temperatures for water years 2002–2004, eastern Massachusetts.

References Cited

American Public Health Association, 1998, Standard methods for the examination of water and wastewater (20th ed.); Washington, D.C., American Public Health Association, American Water Works Association, and Water Environment Federation, p. 3-37–3-43.

Anderson, C.W., 2004 (2d ed.), Turbidity, *in* Wilde, F.D., and Radtke, D.B., eds., Field measurements: U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chap. A6.7, 64 p., accessed April 7, 2005, at *http://water.usgs.gov/owq/FieldManual/Chapter6/6.7_contents.html*

ASTM International, 2003, D1889–00 Standard test method for turbidity of water, *in* ASTM International, Annual Book of ASTM Standards, Water and Environmental Technology, v. 11.01: West Conshohocken, Pennsylvania, 6 p.

Benderly, A.A., 1962, Treatment of Teflon to promote bondability: Journal of Applied Polymer Science, v. 6, no. 20, p. 221–225.

Buchanan, T.J., and Somers, W.P., 1968, Stage measurements at gaging stations: Techniques of Water-Resources Investigations of the U.S. Geological Survey, book 3, chap. A7, 28 p.

Buchanan, T.J., and Somers, W.P., 1969, Discharge measurements at gaging stations: Techniques of Water-Resources Investigations of the U.S. Geological Survey, book 3, chap. A8, 65 p.

Carter, R.W., and Davidian, Jacob, 1968, General procedure for gaging streams: Techniques of Water-Resources Investigations of the U.S. Geological Survey, book 3, chap. A6, 13 p.

Extension Toxicology Network, 2005, Pesticide information profile for imidacloprid, accessed on April 05, 2006, at *http://pmep.cce.cornell.edu/profiles/extoxnet/haloxyfop-methylparathion/imidacloprid-ext.html*

Extension Toxicology Network, 1997, Pesticide information profile for propiconazole, accessed on April 05, 2006, at *http://pmep.cce.cornell.edu/profiles/extoxnet/metiram-propoxur/propiconazole-ext.html*

Extension Toxicology Network, 1996, Pesticide information profile for imazaquin, accessed on April 05, 2006, at *http://pmep.cce.cornell.edu/profiles/extoxnet/haloxyfop-methylparathion/imazaquin-ext.html*

Extension Toxicology Network, 1993a, Pesticide information profile for diuron, accessed on April 05, 2006, at *http://pmep.cce.cornell.edu/profiles/extoxnet/dienochlor-glyphosate/diuron-ext.html*

Extension Toxicology Network, 1993b, Pesticide information profile for MCPA, accessed on April 05, 2006, at *http://pmep.cce.cornell.edu/profiles/extoxnet/haloxyfop-methylparathion/mcpa-ext.html*

Extension Toxicology Network, 1993c, Pesticide information profile for metalaxyl, accessed on April 05, 2006, at *http://pmep.cce.cornell.edu/profiles/extoxnet/haloxyfop-methylparathion/metalaxyl-ext.html*

Extension Toxicology Network, 1993d, Pesticide information profile for metsulfuron-methyl, accessed on April 05, 2006, at *http://pmep.cce.cornell.edu/profiles/extoxnet/metiram-propoxur/metsulfuron-methyl-ext.html*

Extension Toxicology Network, 1993e, Pesticide information profile for propoxur, accessed on April 05, 2006, at *http://pmep.cce.cornell.edu/profiles/extoxnet/metiram-propoxur/propoxur-ext.html*

Extension Toxicology Network, 1993f, Pesticide information profile for triclopyr, accessed on April 05, 2006, at *http://pmep.cce.cornell.edu/profiles/extoxnet/pyrethrins-ziram/triclopyr-ext.html*

Fishman, M.J., ed., 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of inorganic and organic constituents in water and fluvial sediments: U.S. Geological Survey Open-File Report 93–125, 217 p.

Fishman, M.J., and Friedman, L.C., 1989, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A1, 545 p.

Fugro East, Inc., 1996, Limnological investigations of the Cambridge Reservoir system—Impacts of watershed inputs and alum sludge discharge: Cambridge, Mass., Cambridge Water Department, 77 p., plus appendixes.

Furlong, E.T., Anderson, B.D., Werner, S.L., Soliven, P.P., Coffey, L.J., and Burkhardt, M.R., 2001, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of pesticides in water by graphitized carbon-based solid-phase extraction and high-performance liquid chromatography/mass spectrometry: U.S. Geological Survey Water-Resources Investigations Report 01–4134, 73 p.

Furlong, E.T., Vaught, D.G., Merten, L.M., Foreman, W.T., and Gates, P.M., 1996, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of semivolatile organic compounds in bottom sediment by solvent extraction, gel permeation chromatographic fractionation, and capillary-column gas chromatography/mass spectrometry: U.S. Geological Survey Open-File Report 95–719, 67 p.

Garbarino, J.R., and Struzeski, T.M., 1998, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of elements in whole-water digests using inductively coupled plasma-optical emission spectrometry and inductively coupled plasma-mass spectrometry: U.S. Geological Survey Open-File Report 98–165, 101 p.

Guy, H.P., 1970, Fluvial sediment concepts: U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chap. C1, 55 p.

Hoffman, G.L., Fishman, M.J., and Garbarino, J.R., 1996, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—In-bottle acid digestion of whole-water samples: U.S. Geological Survey Open-File Report 96–225, 28 p.

Hornsby, A.G., Wauchope, R.D., and Herner, A.E., 1996, Pesticide properties in the environment: New York, Springer-Verlag, 227 p.

Kennedy, E.J., 1983, Computation of continuous records of streamflow: Techniques of Water-Resources Investigations of the U.S. Geological Survey, book 3, chap. A13, 52 p.

Kennedy, E.J., 1984, Discharge ratings at gaging stations: Techniques of Water-Resources Investigations of the U.S. Geological Survey, book 3, chap. A10, 59 p.

McLain, Betty, 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of chromium in water by graphite furnace atomic absorption spectrophotometry: U.S. Geological Survey Open-File Report 93–449, 16 p.

Myers, D.N., and Sylvester, M.A., 1997, National field manual for the collection of water-quality data—Biological indicators: U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chap. A7, variously paged.

Oberg, K.A., Morlock, S.E., and Caldwell, W.S., 2005, Quality-assurance plan for discharge measurements using acoustic Doppler current profilers: U.S. Geological Survey Scientific Investigations Report 2005–5183, 35 p.

Patterson, Glenn, 1997, The U.S. Geological Survey drinking water initiative: U.S. Geological Survey Fact Sheet 047–97, 2 p.

Patton, C.J., and Kryskalla, J.R., 2003, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory—Evaluation of alkaline persulfate digestion as an alternative to kjeldahl digestion for determination of total and dissolved nitrogen and phosphorus in water: U.S. Geological Survey Water-Resources Investigations Report 03–4174, 33 p.

Rantz, S.E. and others, 1982, Measurement and computation of streamflow—Volume 1. Measurement of stage and discharge: U.S. Geological Survey Water Supply Paper 2175, 284 p.

Seiler, R.L., Zaugg, S.D., Thomas, J.M., and Howcroft, D.L., 1999, Caffeine and pharmaceuticals as indicators of waste water contamination in wells: Ground Water, v. 37, no. 3, p. 405–410.

Sholar, C.J., and Shreve, E.A., 1998, Quality-assurance plan for the analysis of fluvial sediment by the northeastern region, Kentucky District Sediment Laboratory: U.S. Geological Survey Open-File Report 98–348, 20 p.

Smith, K.P., 2005, Hydrologic, water-quality, bed-sediment, soil-chemistry, and statistical summaries of data for the Cambridge, Massachusetts, drinking-water source area, water year 2004: U.S. Geological Survey Open-File Report 2005–1383, 110 p.

Socolow, R.S., Comeau, L.Y., Zanca, J.L., and Ramsbey, L.R., 1999, Water-resources data for Massachusetts and Rhode Island, water year 1998: U.S. Geological Survey Water-Data Report MA-RI-98-1, 438 p.

Socolow, R.S., Girouard, G.G., Whitley, J.F., and Ramsbey, L.R., 2003, Water-resources data for Massachusetts and Rhode Island, water year 2002: U.S. Geological Survey Water-Data Report MA-RI-02-1, 339 p.

Socolow, R.S., Leighton, J.F., Whitley, J.F., and Ventetuolo, D.J., 2002, Water-resources data for Massachusetts and Rhode Island, water year 2001: U.S. Geological Survey Water-Data Report MA-RI-01-1, 307 p.

Socolow, R.S., Whitley, J.S., Murino, Jr. D., and Ramsbey, L.R., 2001, Water-resources data for Massachusetts and Rhode Island, water year 2000: U.S. Geological Survey Water-Data Report MA-RI-00-1, 459 p.

Socolow, R.S., Zanca, J.L., Driskell, T.R., and Ramsbey, L.R., 2004, Water-resources data for Massachusetts and Rhode Island, water year 2003: U.S. Geological Survey Water-Data Report MA-RI-03-1, 368 p.

Socolow, R.S., Zanca, J.L., Murino, Jr. D., and Ramsbey, L.R., 2000, Water-resources data for Massachusetts and Rhode Island, water year 1999: U.S. Geological Survey Water-Data Report MA-RI-99-1, 401 p.

U.S. Environmental Protection Agency, 2006a, Consumer factsheet on 2,4-D, accessed on April 05, 2006, at *http://www.epa.gov/safewater/contaminants/dw_contamfs/24-d.html*

U.S. Environmental Protection Agency, 2006b, Consumer factsheet on carbofuran, accessed on April 05, 2006, at *http://www.epa.gov/safewater/contaminants/dw_contamfs/carbofur.html*

U.S. Environmental Protection Agency, 2004a, RED FACTS MCPA, accessed on April 05, 2006, at *http://www.epa.gov/oppsrrd1/REDs/factsheets/mcpa_red_fs.pdf*

U.S. Environmental Protection Agency, 2004b, Carbaryl IRED Facts, accessed on April 05, 2006, at *http://www.epa.gov/oppsrrd1/REDs/factsheets/carbaryl_factsheet.pdf*

U.S. Environmental Protection Agency, 2002a, List of National Secondary Drinking Water Regulations, accessed on March 14, 2005, at *http://www.epa.gov/safewater/mcl.html#sec*

U.S. Environmental Protection Agency, 2002b, Method 1603—*Escherichia coli* (*E. coli*) in Water by membrane filtration using modified membrane-thermotolerant *Escherichia coli* agar (Modified mTEC): Washington, D.C., EPA-821-R-02-023, September 2002.

U.S. Environmental Protection Agency, 2001, Benomyl RED Facts: Benomyl Fact Sheet, EPA-738-F-02-001.

U.S. Environmental Protection Agency, 1996, RED FACTS Norflurazon, accessed on April 05, 2006, at *http://www.epa.gov/oppsrrd1/REDs/factsheets/0229fact.pdf*

U.S. Environmental Protection Agency, 1994, RED FACTS Metalaxyl, accessed on April 05, 2006, at *http://www.epa.gov/oppsrrd1/REDs/factsheets/0081fact.pdf*

Wagner, R.J., Boulger, R.W., Jr., Oblinger, C.J., and Smith, B.A., 2006, Guidelines and standard procedures for continuous water-quality monitors—Station operation, record computation, and data reporting: U.S. Geological Survey Techniques and Methods 1–D3, 51 p., plus 8 attachments, accessed on April 10, 2006, at *http://pubs.water.usgs.gov/tm1d3*

Wagner, R.J., Frans, L.M., and Huffman, R.L., 2006, Occurrence, distribution, and transport of pesticides in agricultural irrigation return flow from four drainage basins in the Columbia Basin Project, Washington, 2002–2004, and comparison with historical data: U.S. Geological Survey Scientific Investigations Report 2006–5005, 54 p.

Waldron, M.C., and Bent, G.C., 2001, Factors affecting reservoir and stream-water quality in the Cambridge, Massachusetts, drinking-water source area and implications for source-water protection: U.S. Geological Survey Water-Resources Investigations Report 00–4262, 89 p.

Wershaw, R.L., Fishman, M.J., Grabbe, R.R., and Lowe, L.E., eds., 1987, Methods for the determination of organic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A3, 80 p.

Wilde, F.D., Radtke, D.B., Gibs, Jacob, and Iwatsubo, R.T., eds., September 1999, Collection of water samples: U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chap. A4, accessed on November 2, 2006, at *http://pubs.water.usgs.gov/twri9A4/*

Tables 8–16

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				October			
1	0.40	0.64	0.30	0.31	26	1.1	e0.13
2	.37	.66	.26	.30	17	.87	e.13
3	.33	.61	.26	.22	15	.75	e.20
4	.26	.53	.17	.19	15	.71	e.41
5	.22	.54	.15	.16	14	.58	.16
6	.19	.54	.14	.15	12	.54	.16
7	.17	.54	.13	.13	11	.51	.16
8	.15	3.1	.12	.13	11	.47	.16
9	.14	7.8	.12	.13	16	.48	.16
10	.14	7.2	.11	.13	15	.42	.16
11	.14	3.5	.10	.13	13	.34	.16
12	.16	.75	.13	.14	8.8	.33	.22
13	.12	.75	.10	.13	8.0	.33	.22
14	.12	3.6	.10	.14	8.6	.35	.22
15	.40	5.4	.37	.64	13	.41	.26
16	1.6	5.5	1.1	1.3	26	1.2	.43
17	.26	5.4	.17	.15	20	.64	.34
18	.19	2.9	.14	.13	16	.52	.26
19	.69	.88	.87	.91	16	.76	.55
20	.31	.88	.24	.18	15	.72	.55
21	.24	.84	.16	.15	13	.58	.55
22	.22	.81	.14	.13	12	.52	.55
23	.19	.80	.13	.13	11	.50	.55
24	.18	3.0	.13	.13	10	.49	.55
25	.16	4.4	.13	.13	12	.47	.55
26	.14	4.4	.12	.13	12	.45	.54
27	.13	4.5	.12	.12	11	.42	.49
28	.11	4.4	.11	.12	11	.37	.43
29	.13	4.3	.11	.13	11	.39	.43
30	.14	7.4	.14	.14	12	.41	.55
31	.13	9.2	.11	.15	16	.38	.48
Total	**8.13**	**95.77**	**6.48**	**7.16**	**427.4**	**17.01**	**10.71**
Mean	**.26**	**3.09**	**.21**	**.23**	**13.8**	**.55**	**.35**
Maximum	**1.6**	**9.2**	**1.1**	**1.3**	**26**	**1.2**	**.55**
Minimum	**.11**	**.53**	**.10**	**.12**	**8.0**	**.33**	**.13**
Median	**.18**	**3.0**	**.13**	**.14**	**13**	**.49**	**.34**
Mgal/d/mi^2	**.64**	**—**	**.58**	**.48**	**—**	**.65**	**—**
Inches	**1.13**	**—**	**1.03**	**.86**	**—**	**1.15**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				November			
1	0.11	9.2	0.09	0.16	15	0.31	0.55
2	.10	9.2	.08	.16	14	.37	.49
3	.12	9.4	.10	.19	15	.36	.55
4	.65	9.5	.27	1.0	16	.43	.55
5	.69	9.6	.56	.34	24	.71	.55
6	.19	9.8	.12	.21	20	.51	1.5
7	.15	9.8	.10	.19	19	.47	1.5
8	.13	9.7	.09	.16	17	.42	1.6
9	.12	9.6	.08	.16	16	.40	1.5
10	.15	9.6	.08	.15	15	.38	1.5
11	.11	9.5	.08	.16	16	.38	1.6
12	.17	9.5	.12	.33	16	.38	1.8
13	.28	9.4	.17	.35	18	.44	1.9
14	.16	9.4	.12	.17	17	.41	2.1
15	.23	9.4	.15	.26	17	.43	2.3
16	.22	9.4	.14	.23	17	.45	2.3
17	.21	8.2	.14	.24	17	.47	2.3
18	.22	6.2	.12	.18	16	.47	2.3
19	.17	3.9	.08	.16	13	e.50	2.3
20	.17	3.0	.10	.23	11	e.47	2.5
21	.26	2.9	.21	.17	12	e.47	2.5
22	.15	1.7	.10	.11	11	e.48	2.5
23	.12	.45	.09	.10	9.4	.44	2.5
24	.27	.40	.23	.32	9.5	.46	2.5
25	.66	.43	.58	.55	14	.72	2.8
26	.25	.37	.19	.14	13	.59	3.0
27	.18	.32	.09	.13	11	.53	3.0
28	1.9	.30	.60	2.3	18	1.1	3.0
29	.67	.33	.96	.42	31	1.9	.78
30	.41	.32	.21	.31	23	1.2	7.1
Total	**9.22**	**180.82**	**6.05**	**9.58**	**480.9**	**16.65**	**61.37**
Mean	**.31**	**6.03**	**.20**	**.32**	**16**	**.56**	**2.05**
Maximum	**1.9**	**9.8**	**.96**	**2.3**	**31**	**1.9**	**7.1**
Minimum	**.10**	**.30**	**.08**	**.10**	**9.4**	**.31**	**.49**
Median	**.18**	**9.2**	**.12**	**.19**	**16**	**.47**	**2.2**
Mgal/d/mi^2	**.75**	**—**	**.56**	**.67**	**—**	**.65**	**—**
Inches	**1.3**	**—**	**.97**	**1.15**	**—**	**1.13**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				December			
1	1.5	0.29	0.84	1.6	28	1.4	38
2	.55	.30	.33	.45	29	1.4	31
3	.45	.27	.20	.39	23	1.1	.84
4	.38	.23	.16	.36	20	.95	.90
5	.35	.23	.14	.33	18	.88	24
6	.31	.23	.12	.32	15	.80	24
7	2.3	.27	.81	2.6	23	1.4	11
8	1.1	.33	1.0	1.1	41	2.1	12
9	.61	.36	.27	.74	37	1.6	12
10	1.4	.39	.62	1.9	33	1.7	23
11	1.9	.45	.98	1.8	48	2.3	35
12	.77	.49	.32	1.0	41	1.8	36
13	.64	.52	.24	.89	33	1.5	36
14	.54	.52	.20	.78	29	1.3	20
15	.46	.52	.15	.71	24	1.2	20
16	.44	.54	.13	.70	21	1.1	20
17	.43	.54	.12	.65	20	1.1	20
18	.38	.52	.10	.56	19	.98	9.7
19	.39	.54	.11	.57	18	.95	.22
20	.42	.56	.19	.60	19	1.1	.26
21	.33	.56	.11	e.41	17	.92	.22
22	.34	.56	.16	.46	16	.89	.26
23	2.6	.61	.40	2.7	22	1.4	13
24	1.2	.75	1.1	1.0	49	2.4	28
25	.58	.77	.23	.70	42	1.8	19
26	.51	.78	e.15	e.56	31	1.5	19
27	.49	.85	e.15	e.56	25	1.4	25
28	.45	4.1	e.15	e.56	23	e1.2	48
29	.44	9.9	e.15	e.56	29	e1.2	48
30	.41	14	e.15	e.55	33	e.89	26
31	.51	15	e.27	e.71	35	e1.0	21
Total	**23.18**	**55.98**	**e10.05**	**e26.82**	**861**	**e41.26**	**621.4**
Mean	**.75**	**1.81**	**e.32**	**e.87**	**27.8**	**e1.33**	**20**
Maximum	**2.6**	**15**	**1.1**	**2.7**	**49**	**2.4**	**48**
Minimum	**.31**	**.23**	**.10**	**.32**	**15**	**e.80**	**.22**
Median	**.49**	**.52**	**e.19**	**e.65**	**25**	**e1.2**	**20**
Mgal/d/mi^2	**1.82**	**—**	**e.90**	**e1.8**	**—**	**e1.57**	**—**
Inches	**3.24**	**—**	**e1.6**	**e3.2**	**—**	**e2.79**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				January			
1	0.73	15	e0.34	e0.97	38	e1.3	e23
2	.54	15	e.28	e.78	38	e1.4	e26
3	.71	15	e.32	e.90	39	e1.3	e29
4	1.5	15	.83	1.7	52	2.0	37
5	.73	15	.29	.98	51	1.7	43
6	.88	15	.40	1.4	48	1.7	43
7	.87	15	.62	1.2	49	1.7	43
8	.69	15	.29	1.1	48	1.7	43
9	.61	15	.25	.92	45	1.6	43
10	.63	15	.23	.92	43	1.5	34
11	.55	15	.18	.83	41	1.4	28
12	1.0	15	.56	1.5	43	1.6	36
13	1.0	15	.64	1.4	48	1.8	42
14	5.3	15	1.5	3.9	81	4.1	43
15	1.5	15	.94	2.1	106	3.4	52
16	1.1	15	.36	1.8	84	2.8	69
17	.92	15	.28	1.6	70	2.3	60
18	.72	15	.19	e1.3	58	1.9	51
19	.65	15	.17	e1.2	50	1.7	44
20	.65	15	.15	1.2	49	1.7	44
21	.55	15	.14	e1.0	46	1.5	43
22	.50	15	.18	e.91	43	1.4	43
23	.53	15	.10	e.86	42	1.5	42
24	.48	15	.12	e.83	43	1.3	42
25	.46	15	.12	.77	42	1.2	30
26	.44	15	.12	.73	41	1.2	23
27	.40	14	.11	e.65	40	1.1	23
28	.38	14	.09	e.64	38	.99	23
29	.38	14	.09	e.64	37	.96	23
30	.37	14	.09	.58	36	.95	33
31	.34	14	.07	.53	35	.91	32
Total	**26.11**	**460**	**e10.05**	**e35.84**	**1,524**	**e51.61**	**e1,190**
Mean	**.84**	**14.8**	**e.32**	**e1.2**	**49**	**e1.7**	**e38.4**
Maximum	**5.3**	**15**	**1.5**	**3.9**	**106**	**4.1**	**69**
Minimum	**.34**	**14**	**e.07**	**e.53**	**35**	**e.91**	**e23**
Median	**.65**	**15**	**.23**	**e.97**	**43**	**e1.5**	**e42**
Mgal/d/mi^2	**2.05**	**—**	**e.90**	**e2.41**	**—**	**e1.96**	**—**
Inches	**3.67**	**—**	**e1.62**	**e4.29**	**—**	**e3.49**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				February			
1	0.34	14	0.07	e0.54	34	0.85	28
2	.33	14	.07	e.54	33	.82	23
3	.38	14	.13	.73	33	.83	20
4	.47	14	.31	.80	35	.94	15
5	.42	14	.21	.69	34	.87	12
6	.41	14	.18	.64	34	.84	12
7	.41	11	.15	.59	31	.83	16
8	.42	8.7	.14	.59	26	.83	20
9	.50	8.7	.22	.71	26	.88	20
10	2.2	8.9	1.5	2.6	42	1.9	20
11	.94	8.9	.63	1.3	47	1.8	20
12	.70	8.9	.32	1.1	41	1.4	31
13	.58	8.8	.23	1.0	37	1.2	34
14	.54	8.7	.18	.93	33	1.1	31
15	2.5	9.0	1.4	2.6	49	2.2	32
16	2.1	8.9	.82	2.0	56	2.5	39
17	1.3	9.0	.77	1.7	66	2.6	45
18	.93	9.1	.34	1.4	57	2.0	45
19	.74	9.1	.24	1.3	48	1.7	45
20	.65	9.0	.20	1.2	42	1.6	44
21	.66	9.0	.23	1.1	40	1.6	44
22	.61	9.1	.26	.98	39	1.5	34
23	.57	9.0	.23	.88	38	1.4	26
24	.52	9.0	.17	.77	36	1.3	26
25	.54	9.0	.19	.79	35	1.3	26
26	.48	9.0	.16	.70	33	1.1	26
27	.44	9.0	.13	.64	32	1.1	22
28	.44	9.0	.13	.65	30	1.0	20
Total	**21.12**	**282.8**	**9.61**	**29.47**	**1,087**	**37.99**	**776**
Mean	**.75**	**10.1**	**.34**	**1.05**	**38.8**	**1.36**	**27.7**
Maximum	**2.5**	**14**	**1.5**	**2.6**	**66**	**2.6**	**45**
Minimum	**.33**	**8.7**	**.07**	**.54**	**26**	**.82**	**12**
Median	**.54**	**9.0**	**.22**	**.84**	**35**	**1.2**	**26**
Mgal/d/mi^2	**1.84**	**—**	**.95**	**2.19**	**—**	**1.6**	**—**
Inches	**2.97**	**—**	**1.54**	**3.52**	**—**	**2.57**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				March			
1	0.50	5.1	0.20	0.68	30	1.1	20
2	.44	1.5	.18	.62	24	0.99	12
3	.39	1.6	.14	.52	22	.92	10
4	.37	1.5	.11	.49	20	.86	13
5	.38	1.5	.12	.42	20	.84	7.5
6	.39	1.5	.12	.44	19	.81	9.1
7	.49	1.5	.32	.60	20	.87	12
8	1.1	1.6	.84	1.2	28	1.5	12
9	.63	1.7	.34	.70	31	1.5	12
10	.52	1.7	.22	.59	28	1.1	16
11	.48	1.8	.19	.58	24	.96	21
12	.62	1.8	.36	1.0	25	1.1	21
13	.67	1.9	.55	.90	27	1.0	21
14	.62	1.9	.42	.78	26	.98	21
15	.68	1.9	.48	.64	26	.96	21
16	.71	2.0	.43	.56	26	1.0	21
17	.69	2.0	.36	.52	26	1.0	21
18	.69	2.0	.34	.55	26	1.1	20
19	.70	2.2	.32	.56	26	1.1	20
20	.73	2.5	.29	.60	28	1.2	20
21	.75	3.0	.30	.62	29	1.3	20
22	.78	3.6	.29	.63	31	1.4	20
23	.70	4.5	.24	.57	33	1.5	20
24	1.0	6.1	.73	1.0	37	1.5	21
25	.81	7.1	.38	.61	39	1.5	21
26	.74	7.9	.28	.56	40	1.6	21
27	.74	8.5	.26	.53	40	1.6	21
28	5.3	11	1.3	3.7	65	3.1	31
29	4.1	24	2.8	3.3	162	5.5	79
30	1.6	30	1.8	2.0	159	4.1	140
31	1.3	29	.49	1.7	136	3.5	149
Total	**29.62**	**173.9**	**15.2**	**28.17**	**1273**	**47.49**	**873.6**
Mean	**.96**	**5.61**	**.49**	**.91**	**41.1**	**1.53**	**28.2**
Maximum	**5.3**	**30**	**2.8**	**3.7**	**162**	**5.5**	**149**
Minimum	**.37**	**1.5**	**.11**	**.42**	**19**	**.81**	**7.5**
Median	**.69**	**2.0**	**.32**	**.61**	**28**	**1.1**	**20**
Mgal/d/mi^2	**2.33**	**—**	**1.36**	**1.89**	**—**	**1.8**	**—**
Inches	**4.17**	**—**	**2.41**	**3.39**	**—**	**3.2**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				April			
1	1.1	26	0.39	1.5	114	3.1	194
2	3.1	28	1.3	3.2	127	4.0	168
3	3.8	37	2.0	4.2	175	5.2	164
4	1.4	37	1.2	1.9	160	3.9	144
5	1.1	29	.44	1.7	130	3.2	100
6	.95	24	.36	1.5	100	2.6	82
7	.88	22	.31	1.4	86	2.2	67
8	1.2	23	.78	1.9	87	2.4	59
9	.82	23	.28	1.2	81	2.0	60
10	.77	21	.24	1.1	69	1.8	53
11	.61	19	.20	1.0	60	1.6	39
12	.55	17	.19	.98	53	1.5	30
13	.54	16	.19	.96	50	1.4	30
14	.50	15	.16	.93	46	1.3	30
15	.45	13	.14	.89	42	1.2	30
16	.44	12	.13	.88	39	1.1	19
17	.43	11	.11	.88	36	1.0	12
18	.39	11	.11	.88	34	.95	12
19	.37	9.3	.10	.87	31	.90	12
20	.36	8.9	.10	.91	29	.81	12
21	.50	9.3	.40	.97	30	.85	12
22	.33	8.7	.13	.73	27	.84	12
23	.89	9.2	.72	1.4	30	1.2	13
24	1.4	12	1.4	1.7	46	1.8	30
25	.77	12	.65	.94	48	1.5	40
26	.47	12	.26	.66	41	1.1	40
27	.91	12	.87	1.4	40	1.2	40
28	.67	13	.59	.82	45	1.5	39
29	.49	12	.28	.71	40	1.2	39
30	.88	12	.62	1.4	37	1.2	39
Total	**27.07**	**514.4**	**14.65**	**39.51**	**1,933**	**54.55**	**1,621**
Mean	**.90**	**17.1**	**.49**	**1.32**	**64.4**	**1.82**	**54**
Maximum	**3.8**	**37**	**2.0**	**4.2**	**175**	**5.2**	**194**
Minimum	**.33**	**8.7**	**.10**	**.66**	**27**	**.81**	**12**
Median	**.72**	**13**	**.29**	**1.0**	**46**	**1.4**	**39**
Mgal/d/mi^2	**2.2**	**—**	**1.36**	**2.74**	**—**	**2.14**	**—**
Inches	**3.81**	**—**	**2.34**	**4.74**	**—**	**3.69**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				May			
1	0.84	13	1.2	1.1	45	1.5	39
2	.53	13	.36	.81	42	1.3	31
3	.50	12	.33	.82	38	1.1	21
4	.41	12	.27	.73	34	.99	21
5	.37	11	.22	.71	32	.92	21
6	.36	9.9	.20	.69	29	.87	21
7	1.4	11	1.6	2.2	37	1.5	21
8	.65	13	.59	.89	44	1.5	21
9	.51	13	.27	.81	39	1.2	22
10	.46	12	.21	.77	36	1.0	22
11	.42	11	.18	.76	33	.94	22
12	.37	11	.15	.74	29	.85	12
13	.34	9.5	.12	.73	26	.79	.32
14	.34	8.9	.12	.72	25	.77	.34
15	.33	8.5	.11	.72	23	.73	2.6
16	.47	8.6	.62	1.1	28	.89	11
17	.32	8.1	.14	.58	24	.80	13
18	.36	8.0	.11	.56	21	.60	10
19	.31	7.8	.10	.56	21	.68	7.3
20	.28	7.4	.08	.53	19	.68	19
21	.28	7.2	.09	.55	18	.64	30
22	.65	7.7	.52	.95	23	.75	30
23	.47	7.9	.21	.69	21	.70	30
24	1.8	9.6	1.6	2.0	34	1.0	30
25	2.9	14	2.0	2.9	59	2.1	72
26	3.5	21	1.8	3.1	101	3.3	94
27	1.2	22	.62	1.4	87	2.1	71
28	.89	21	.31	1.3	64	1.7	53
29	.79	19	.38	1.5	53	1.5	39
30	.68	17	.24	1.1	48	1.4	39
31	.61	16	.22	1.0	43	1.3	39
Total	**23.34**	**371.1**	**14.97**	**33.02**	**1,176**	**36.1**	**864.56**
Mean	**.75**	**12**	**.48**	**1.07**	**37.9**	**1.16**	**27.9**
Maximum	**3.5**	**22**	**2.0**	**3.1**	**101**	**3.3**	**94**
Minimum	**.28**	**7.2**	**.08**	**.53**	**18**	**.60**	**.32**
Median	**.47**	**11**	**.24**	**.81**	**34**	**.99**	**22**
Mgal/d/mi^2	**1.84**	**—**	**1.34**	**2.22**	**—**	**1.37**	**—**
Inches	**3.27**	**—**	**2.42**	**3.96**	**—**	**2.44**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				June			
1	0.55	15	0.24	0.93	39	1.2	39
2	.51	14	.14	.86	36	1.0	22
3	.47	13	.12	.81	33	0.94	13
4	.43	12	.09	.75	29	.84	5.1
5	.39	11	.07	.70	26	.79	.24
6	.38	10	.05	.66	23	.72	.25
7	.35	9.3	.06	.63	22	.66	.28
8	1.4	8.8	.19	1.7	22	.62	.35
9	1.5	12	1.0	1.1	42	1.6	3.4
10	.47	11	.17	.60	38	1.0	19
11	.39	11	.12	.53	30	.83	44
12	.36	9.9	.11	.49	26	.72	34
13	.34	9.1	.10	.47	22	.65	13
14	.39	8.9	.41	.51	21	.64	13
15	.56	8.9	.27	.61	20	.66	6.3
16	.48	8.5	.18	.72	19	.70	.21
17	.51	8.6	.32	.54	21	.85	.23
18	.34	8.2	.12	.39	19	.70	.21
19	.30	7.8	.11	.36	19	.66	.22
20	.27	7.4	.10	.33	17	.63	.24
21	.25	7.1	.08	.33	14	.53	.31
22	.26	7.0	.10	.33	13	.37	.35
23	.21	6.7	.08	.28	13	.33	.36
24	.18	6.5	.07	.27	12	.28	.39
25	.16	6.4	.08	.26	11	e.25	.45
26	.11	6.3	.13	.26	12	e.26	.44
27	.10	6.3	.08	.25	12	e.26	.43
28	.11	6.2	.10	.25	11	e.26	.39
29	.11	7.8	.07	.24	11	e.26	.44
30	.10	10	.07	.23	13	e.26	.49
Total	**11.98**	**274.7**	**4.83**	**16.39**	**646**	**e19.47**	**218.08**
Mean	**.40**	**9.16**	**.16**	**.55**	**21.5**	**e.65**	**7.27**
Maximum	**1.5**	**15**	**1.0**	**1.7**	**42**	**1.6**	**44**
Minimum	**.10**	**6.2**	**.05**	**.23**	**11**	**e.25**	**.21**
Median	**.35**	**8.9**	**.11**	**.50**	**21**	**e.66**	**.43**
Mgal/d/mi^2	**.97**	**—**	**.45**	**1.14**	**—**	**e.76**	**—**
Inches	**1.67**	**—**	**.78**	**1.97**	**—**	**e1.32**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				July			
1	0.10	13	0.08	0.23	15	e0.26	0.49
2	.08	15	.07	.23	19	e.26	.48
3	.07	15	.06	.23	19	e.26	.51
4	.06	15	.06	.22	19	e.26	.43
5	.06	15	.06	.22	17	e.26	.42
6	.82	15	1.4	3.2	37	e2.8	.60
7	.15	7.2	.39	.16	34	e1.9	23
8	2.3	1.4	.56	2.5	24	1.6	37
9	1.2	1.5	1.3	.85	45	2.3	36
10	.34	1.5	.34	.27	35	1.3	36
11	.17	1.4	.15	.21	21	.79	16
12	.12	12	.12	.19	19	.62	.20
13	.10	15	.10	.18	26	.53	.19
14	.08	14	.10	.17	22	.46	.22
15	.06	13	.08	.16	20	.41	.24
16	.05	13	.08	.16	19	.35	.23
17	.04	13	.08	.16	18	.30	.24
18	.04	13	.08	.15	18	.30	.27
19	.03	13	.08	.14	18	.28	.30
20	.02	13	.07	.14	17	.23	.35
21	.01	13	.06	.13	16	.21	.37
22	.01	13	.17	.42	16	.20	.39
23	.01	13	.29	.15	17	.18	.38
24	.01	12	.08	.13	15	.16	.38
25	.01	12	.07	.13	15	.15	.43
26	.01	13	.07	.12	15	.14	.49
27	.01	15	.07	.11	16	.13	.49
28	.01	17	.08	.11	19	.12	.51
29	.00	17	.06	.11	19	.11	.50
30	.00	16	.07	.11	18	.10	.55
31	.01	16	.06	.11	18	.11	.55
Total	**5.98**	**377**	**6.34**	**11.4**	**646**	**e17.08**	**158.21**
Mean	**.19**	**12.2**	**.20**	**.37**	**20.8**	**e.55**	**5.1**
Maximum	**2.3**	**17**	**1.4**	**3.2**	**45**	**e2.8**	**37**
Minimum	**.00**	**1.4**	**.06**	**.11**	**15**	**e.10**	**.19**
Median	**.05**	**13**	**.08**	**.16**	**19**	**e.26**	**.43**
Mgal/d/mi^2	**.47**	**—**	**.57**	**.77**	**—**	**e.65**	**—**
Inches	**.84**	**—**	**1.01**	**1.36**	**—**	**e1.15**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				August			
1	0.02	16	0.15	0.13	18	0.10	0.58
2	2.0	17	1.2	2.1	32	.53	.44
3	.04	16	.12	.12	22	.27	.30
4	.02	16	.09	.11	20	.23	.30
5	.02	16	.08	.11	19	.23	.32
6	.01	17	.06	.11	19	.21	.30
7	.01	16	.06	.11	19	.19	.29
8	.01	16	.07	.10	18	.18	.28
9	.01	16	.06	.11	18	.18	.29
10	.01	16	.05	.11	17	.16	.28
11	.01	16	.05	.11	17	.14	.34
12	.01	16	.05	.12	17	.14	.31
13	.01	16	.05	.12	17	.13	.32
14	1.4	16	.64	1.9	23	.39	.43
15	.23	16	.91	.57	31	.31	.36
16	.03	16	.13	.12	23	.18	.29
17	.01	16	.09	.11	20	.13	.26
18	.01	15	.07	.11	18	.11	.26
19	.01	15	.06	.11	17	.11	.26
20	.01	15	.06	.11	17	.10	.26
21	.04	15	.08	.14	17	.11	.25
22	.01	15	.06	.11	17	.10	.19
23	.01	15	.05	e.16	17	.09	.23
24	.01	15	.04	e.15	16	.08	.30
25	.01	15	.04	e.16	16	.08	.31
26	.01	15	.04	e.17	16	.08	.30
27	.01	15	.04	e.15	15	.07	.30
28	.01	15	.04	e.16	16	.07	.32
29	.01	7.3	.07	e.16	13	.08	14
30	.07	2.7	.14	e.23	7.3	.10	22
31	.01	2.8	.08	e.17	5.8	.08	21
Total	**4.08**	**451.8**	**4.73**	**e8.25**	**558.1**	**4.96**	**65.67**
Mean	**.13**	**14.6**	**.15**	**e.27**	**18**	**.16**	**2.12**
Maximum	**2.0**	**17**	**1.2**	**2.1**	**32**	**.53**	**22**
Minimum	**.01**	**2.7**	**.04**	**.10**	**5.8**	**.07**	**.19**
Median	**.01**	**16**	**.06**	**e.12**	**17**	**.13**	**.30**
Mgal/d/mi^2	**.32**	**—**	**.42**	**e.55**	**—**	**.19**	**—**
Inches	**.56**	**—**	**.75**	**e.98**	**—**	**.34**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
				September			
1	0.06	11	0.10	e0.20	8.6	0.08	7.90
2	.01	16	.04	e.16	16	.07	.11
3	.01	16	.03	e.15	17	.07	.08
4	.01	16	.04	e.15	16	.07	.10
5	.01	16	.03	e.18	17	.06	.13
6	.00	16	.03	e.16	16	.06	.10
7	.00	16	.03	e.12	16	.06	.08
8	.00	16	.03	e.12	16	.06	.09
9	.00	16	.03	e.15	16	.06	.10
10	.00	16	.02	e.13	16	.06	.10
11	.00	16	.02	e.12	15	.06	.10
12	.00	16	.02	e.10	16	.05	.12
13	.00	16	.02	e.11	16	.05	.17
14	.00	16	.02	e.15	15	.05	.20
15	.63	16	.63	e.79	18	.17	.24
16	.01	16	.15	e.11	17	.08	.16
17	.03	16	.11	e.13	17	.07	.16
18	.03	19	.06	e.16	18	.07	.17
19	.00	20	.05	e.13	21	.06	.20
20	.00	20	.05	e.12	21	.07	.21
21	.00	20	.05	e.12	21	.06	.22
22	.00	20	.04	e.12	20	.05	.24
23	.00	20	.04	e.12	20	.05	.25
24	.00	20	.03	e.13	20	.05	.24
25	.00	20	.03	e.14	20	.05	.20
26	.00	15	.07	e.13	18	.05	.22
27	.00	16	.16	e.13	13	.06	.29
28	.00	21	.05	e.18	22	.05	.32
29	.17	21	.47	e.29	24	.11	.37
30	.01	20	.14	e.12	22	.06	.33
Total	**.98**	**519**	**2.59**	**e4.92**	**528.6**	**1.97**	**13.2**
Mean	**.03**	**17.3**	**.09**	**e.16**	**17.6**	**.07**	**.44**
Maximum	**.63**	**21**	**.63**	**e.79**	**24**	**.17**	**7.9**
Minimum	**.00**	**11**	**.02**	**e.10**	**8.6**	**.05**	**.08**
Median	**.00**	**16**	**.04**	**e.13**	**17**	**.06**	**.18**
Mgal/d/mi^2	**.08**	**—**	**.24**	**e.34**	**—**	**.08**	**—**
Inches	**.14**	**—**	**.42**	**e.58**	**—**	**.13**	**—**

Table 8. Daily, monthly, and annual statistics for discharge for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated; —, no data; Mgal/d/mi^2, million gallons per day per square mile; %, percent]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)	Cambridge Reservoir near Kendal Green (01104430)	Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)	Stony Brook, unnamed tributary 1, near Waltham (01104455)	Stony Brook at Route 20 at Waltham (01104460)	Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)	Stony Brook Reservoir at dam near Waltham (01104480)
Annual total	**190.70**	**3,755.90**	**105.60**	**250.40**	**11,145.80**	**345.70**	**6,483.30**
Annual mean	**.52**	**10.28**	**.29**	**.69**	**30.51**	**.95**	**17.78**
Annual mgal/d/mi^2	**1.27**	**—**	**.81**	**1.43**	**—**	**1.12**	**—**
Annual inches	**26.77**	**—**	**16.89**	**30**	**—**	**23.4**	**—**
10 percent exceeds	**1.10**	**16.16**	**.71**	**1.49**	**48.48**	**1.81**	**43.31**
50 percent exceeds	**.38**	**9.70**	**.15**	**.56**	**22.63**	**.84**	**10.99**
90 percent exceeds	**.01**	**0.63**	**.06**	**.12**	**13.58**	**.10**	**0.22**
Remarks	Good	Good	Good[1]	Good[2]	Good[1]	Good[1]	Good[1]

[1]Records that are estimated are rated as poor.
[2]Records that are estimated are rated as fair.

Table 9. Daily, monthly, and annual statistics for reservoir altitude for U.S. Geological Survey station numbers 01104430, Cambridge Reservoir near Kendal Green, 01104480, Stony Brook Reservoir in Waltham, and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.

[Units are in feet relative to the City of Cambridge datum. Add 10.34 feet to altitude to adjust to National Geodetic Vertical Datum of 1929. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	October		
1	178.40	78.50	16.68
2	178.42	77.99	16.68
3	178.47	77.50	16.68
4	178.50	77.49	16.66
5	178.55	77.56	16.63
6	178.59	77.49	16.59
7	178.64	77.35	16.53
8	178.64	77.57	16.3
9	178.62	77.81	16.12
10	178.58	77.94	16.09
11	178.55	77.96	16.09
12	178.60	77.75	16.09
13	178.63	77.40	16.05
14	178.65	77.05	16.03
15	178.64	76.84	16.06
16	178.75	77.19	16.18
17	178.78	77.53	16.22
18	178.79	77.65	16.23
19	178.87	77.66	16.31
20	178.95	77.74	16.35
21	179.00	77.68	16.4
22	179.04	77.52	16.42
23	179.08	77.30	16.44
24	179.10	77.05	16.52
25	179.08	76.86	16.52
26	179.06	76.69	16.53
27	179.06	76.52	16.56
28	179.05	76.33	16.59
29	179.04	76.15	16.61
30	179.04	76.04	16.62
31	179.01	76.11	16.62
Mean	**178.78**	**77.30**	**16.4**
Maximum	**179.10**	**78.50**	**16.68**
Minimum	**178.40**	**76.04**	**16.03**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	November		
1	178.94	76.24	16.59
2	178.90	76.31	16.57
3	178.86	76.40	16.58
4	178.83	76.46	16.58
5	178.88	76.88	16.59
6	178.86	77.21	16.58
7	178.84	77.44	16.59
8	178.81	77.63	16.59
9	178.78	77.74	16.58
10	178.75	77.81	16.59
11	178.70	77.87	16.58
12	178.69	77.94	16.58
13	178.73	78.09	16.64
14	178.70	78.21	16.66
15	178.67	78.31	16.68
16	178.63	78.44	16.72
17	178.61	78.58	16.74
18	178.59	78.79	16.71
19	178.58	78.93	16.66
20	178.58	78.96	16.61
21	178.59	78.97	16.58
22	178.59	78.98	16.55
23	178.59	78.91	16.51
24	178.60	78.77	16.48
25	178.67	78.82	16.48
26	178.72	78.98	16.48
27	178.73	78.99	16.55
28	178.79	79.04	16.55
29	178.95	79.88	16.63
30	179.01	80.29	16.62
Mean	**178.74**	**78.20**	**16.59**
Maximum	**179.01**	**80.29**	**16.74**
Minimum	**178.58**	**76.24**	**16.48**

Table 9. Daily, monthly, and annual statistics for reservoir altitude for U.S. Geological Survey station numbers 01104430, Cambridge Reservoir near Kendal Green, 01104480, Stony Brook Reservoir in Waltham, and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in feet relative to the City of Cambridge datum. Add 10.34 feet to altitude to adjust to National Geodetic Vertical Datum of 1929. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	December		
1	179.09	79.59	16.45
2	179.19	79.21	16.29
3	179.24	79.56	16.24
4	179.28	79.85	16.22
5	179.30	79.32	16.20
6	179.34	78.61	16.18
7	179.42	78.32	16.21
8	179.61	78.94	16.28
9	179.69	79.48	16.27
10	179.77	79.04	16.29
11	179.94	78.92	16.35
12	180.03	78.87	16.34
13	180.09	78.52	16.36
14	180.13	78.43	16.35
15	180.18	78.22	16.28
16	180.20	77.86	16.24
17	180.24	77.54	16.20
18	180.27	77.48	16.21
19	180.30	77.70	16.25
20	180.36	77.98	16.30
21	180.39	78.13	16.33
22	180.41	78.14	16.37
23	180.46	77.95	16.34
24	180.68	78.87	16.33
25	180.77	79.94	16.25
26	180.83	80.38	16.19
27	180.91	80.19	16.19
28	180.95	79.63	16.14
29	180.94	78.46	16.13
30	180.92	78.13	16.12
31	180.87	78.15	16.15
Mean	**180.12**	**78.76**	**16.26**
Maximum	**180.95**	**80.38**	**16.45**
Minimum	**179.09**	**77.48**	**16.12**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	January		
1	180.85	78.31	16.18
2	180.82	78.51	16.19
3	180.80	78.63	16.20
4	180.85	78.86	16.28
5	180.86	78.82	16.30
6	180.89	78.62	16.33
7	180.93	78.58	16.31
8	180.94	78.47	16.27
9	180.94	78.31	16.23
10	180.91	78.10	16.17
11	180.88	78.34	16.10
12	180.88	78.47	16.07
13	180.89	78.28	16.07
14	180.99	78.63	16.13
15	181.17	80.28	16.31
16	181.23	80.77	16.38
17	181.24	80.65	16.34
18	181.23	80.49	16.26
19	181.21	80.25	16.16
20	181.18	80.01	16.17
21	181.15	79.70	16.17
22	181.12	79.24	16.16
23	181.17	78.83	16.31
24	181.14	78.33	16.29
25	181.09	77.99	16.22
26	181.06	78.24	16.19
27	181.03	78.50	16.20
28	180.99	78.63	16.17
29	180.94	78.68	16.15
30	180.89	78.59	16.14
31	180.85	78.09	16.13
Mean	**181.00**	**78.91**	**16.21**
Maximum	**181.24**	**80.77**	**16.38**
Minimum	**180.80**	**77.99**	**16.07**

Table 9. Daily, monthly, and annual statistics for reservoir altitude for U.S. Geological Survey station numbers 01104430, Cambridge Reservoir near Kendal Green, 01104480, Stony Brook Reservoir in Waltham, and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in feet relative to the City of Cambridge datum. Add 10.34 feet to altitude to adjust to National Geodetic Vertical Datum of 1929. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	February		
1	180.80	77.85	16.07
2	180.76	77.68	16.02
3	180.71	77.74	15.99
4	180.70	77.92	15.93
5	180.66	78.16	15.92
6	180.62	78.38	15.97
7	180.58	78.50	16.02
8	180.56	78.20	16.08
9	180.55	77.82	16.13
10	180.64	77.86	16.24
11	180.73	78.67	16.24
12	180.76	79.07	16.22
13	180.77	78.75	16.23
14	180.76	78.38	16.18
15	180.84	78.35	16.19
16	180.94	78.83	16.20
17	181.04	79.27	16.19
18	181.10	79.56	16.18
19	181.11	79.42	16.16
20	181.12	78.99	16.16
21	181.15	78.42	16.17
22	181.17	77.95	16.21
23	181.16	77.98	16.20
24	181.16	78.01	16.16
25	181.18	77.97	16.12
26	181.17	77.87	16.09
27	181.15	77.76	16.07
28	181.14	77.74	16.04
Mean	**180.89**	**78.33**	**16.12**
Maximum	**181.18**	**79.56**	**16.24**
Minimum	**180.55**	**77.68**	**15.92**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	March		
1	181.19	77.79	16.08
2	181.22	77.75	16.08
3	181.23	77.94	16.05
4	181.25	77.86	16.02
5	181.27	77.81	15.98
6	181.29	77.94	15.94
7	181.30	77.80	15.92
8	181.37	77.85	15.97
9	181.48	78.20	16.07
10	181.52	78.38	16.07
11	181.54	78.11	16.07
12	181.61	77.78	16.15
13	181.69	77.53	16.22
14	181.72	77.26	16.23
15	181.75	76.97	16.23
16	181.77	76.71	16.23
17	181.80	76.47	16.24
18	181.84	76.23	16.23
19	181.86	76.02	16.23
20	181.89	75.84	16.21
21	181.93	75.74	16.21
22	181.96	75.71	16.21
23	182.00	75.77	16.20
24	182.06	75.96	16.24
25	182.10	76.28	16.26
26	182.12	76.61	16.25
27	182.14	76.93	16.24
28	182.24	77.48	16.28
29	182.56	79.99	16.27
30	182.66	80.98	16.13
31	182.64	80.50	15.97
Mean	**181.77**	**77.43**	**16.14**
Maximum	**182.66**	**80.98**	**16.28**
Minimum	**181.19**	**75.71**	**15.92**

Table 9. Daily, monthly, and annual statistics for reservoir altitude for U.S. Geological Survey station numbers 01104430, Cambridge Reservoir near Kendal Green, 01104480, Stony Brook Reservoir in Waltham, and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in feet relative to the City of Cambridge datum. Add 10.34 feet to altitude to adjust to National Geodetic Vertical Datum of 1929. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	April		
1	182.61	78.79	15.87
2	182.66	75.63	15.82
3	182.78	74.85	15.82
4	182.78	74.78	15.73
5	182.71	74.82	15.68
6	182.66	75.30	15.64
7	182.61	75.40	15.59
8	182.59	75.93	15.65
9	182.53	76.35	15.69
10	182.48	76.49	15.75
11	182.36	76.76	15.84
12	182.31	77.33	15.90
13	182.27	77.74	15.92
14	182.22	77.96	15.97
15	182.18	77.97	16.02
16	182.16	77.94	16.07
17	182.14	78.32	16.12
18	182.11	78.65	16.19
19	182.09	78.82	16.24
20	182.09	78.89	16.27
21	182.03	78.99	16.32
22	182.01	79.18	16.26
23	182.01	79.34	16.24
24	182.12	79.83	16.32
25	182.18	79.92	16.33
26	182.17	79.70	16.29
27	182.16	79.25	16.25
28	182.18	79.08	16.26
29	182.17	78.80	16.24
30	182.15	78.32	16.22
Mean	**182.32**	**77.70**	**16.02**
Maximum	**182.78**	**79.92**	**16.33**
Minimum	**182.01**	**74.78**	**15.59**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	May		
1	182.18	78.11	16.26
2	182.19	78.04	16.23
3	182.18	78.32	16.21
4	182.15	78.51	16.19
5	182.10	78.54	16.16
6	182.06	78.50	16.08
7	182.12	78.55	16.06
8	182.22	79.11	16.10
9	182.21	79.42	16.18
10	182.17	79.50	16.22
11	182.16	79.44	16.24
12	182.11	79.36	16.29
13	182.05	79.70	16.30
14	182.02	80.09	16.31
15	181.99	80.40	16.38
16	181.99	80.58	16.46
17	181.98	80.60	16.43
18	181.96	80.55	16.40
19	181.96	80.50	16.42
20	181.94	80.41	16.41
21	181.93	79.80	16.27
22	181.95	79.23	16.16
23	181.97	78.71	16.04
24	182.07	78.44	15.98
25	182.28	78.57	15.92
26	182.50	77.82	15.91
27	182.54	77.91	15.85
28	182.52	77.93	15.84
29	182.47	78.20	15.86
30	182.43	78.31	15.86
31	182.41	78.16	15.88
Mean	**182.16**	**79.07**	**16.16**
Maximum	**182.54**	**80.60**	**16.46**
Minimum	**181.93**	**77.82**	**15.84**

Table 9. Daily, monthly, and annual statistics for reservoir altitude for U.S. Geological Survey station numbers 01104430, Cambridge Reservoir near Kendal Green, 01104480, Stony Brook Reservoir in Waltham, and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in feet relative to the City of Cambridge datum. Add 10.34 feet to altitude to adjust to National Geodetic Vertical Datum of 1929. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	June		
1	182.39	77.84	15.88
2	182.34	77.60	15.87
3	182.29	77.97	15.83
4	182.24	78.32	15.78
5	182.22	78.81	15.84
6	182.16	79.18	15.86
7	182.13	79.44	15.84
8	182.11	79.62	15.84
9	182.20	80.28	15.91
10	182.21	80.70	15.96
11	182.18	80.26	16.01
12	182.14	78.55	16.07
13	182.12	78.12	16.12
14	182.10	77.74	16.15
15	182.07	77.49	16.16
16	182.03	77.64	16.20
17	182.05	78.05	16.18
18	182.02	78.43	16.13
19	181.98	78.70	16.10
20	181.98	78.96	16.05
21	181.96	79.09	15.98
22	181.91	79.13	15.92
23	181.89	78.96	15.93
24	181.89	78.72	15.94
25	181.84	78.46	15.95
26	181.83	78.18	15.98
27	181.81	77.97	15.98
28	181.75	77.72	15.96
29	181.72	77.46	15.93
30	181.68	77.30	15.87
Mean	**182.04**	**78.56**	**15.97**
Maximum	**182.39**	**80.70**	**16.20**
Minimum	**181.68**	**77.30**	**15.78**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	July		
1	181.64	77.20	15.81
2	181.57	77.23	15.81
3	181.50	77.24	15.87
4	181.37	77.26	15.96
5	181.25	77.23	16.02
6	181.17	77.69	16.12
7	180.75	78.67	16.25
8	180.83	77.82	16.26
9	181.24	77.76	16.29
10	181.40	77.71	16.15
11	181.45	77.23	16.02
12	181.45	77.17	16.02
13	181.35	77.43	16.07
14	181.26	77.62	16.11
15	181.16	77.74	16.12
16	181.08	77.77	16.13
17	181.01	77.75	16.17
18	180.95	77.73	16.23
19	180.86	77.76	16.20
20	180.78	77.77	16.11
21	180.64	77.76	16.05
22	180.57	77.73	16.03
23	180.43	77.73	16.03
24	180.28	77.68	16.01
25	180.30	77.59	16.01
26	180.06	77.52	15.99
27	179.98	77.47	15.95
28	179.54	77.53	15.92
29	179.55	77.62	15.84
30	179.41	77.64	15.91
31	179.28	77.59	15.95
Mean	**180.78**	**77.60**	**16.05**
Maximum	**181.64**	**78.67**	**16.29**
Minimum	**179.28**	**77.17**	**15.81**

Table 9. Daily, monthly, and annual statistics for reservoir altitude for U.S. Geological Survey station numbers 01104430, Cambridge Reservoir near Kendal Green, 01104480, Stony Brook Reservoir in Waltham, and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in feet relative to the City of Cambridge datum. Add 10.34 feet to altitude to adjust to National Geodetic Vertical Datum of 1929. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	August		
1	179.31	77.50	15.97
2	179.38	77.85	16.16
3	179.27	78.03	16.22
4	179.18	77.99	16.28
5	179.11	77.89	16.33
6	178.85	77.77	16.36
7	178.84	77.66	16.47
8	178.73	77.52	16.55
9	178.65	77.40	16.60
10	178.57	77.33	16.57
11	178.42	77.31	16.52
12	178.30	77.40	16.42
13	178.22	77.44	16.32
14	178.16	77.54	16.30
15	178.10	78.17	16.39
16	178.25	78.53	16.43
17	178.25	78.62	16.48
18	178.16	78.62	16.49
19	178.16	78.55	16.52
20	178.12	78.46	16.56
21	178.11	78.39	16.61
22	178.06	78.37	16.60
23	177.95	78.33	16.57
24	177.86	78.29	16.58
25	177.85	78.23	16.58
26	177.84	78.17	16.55
27	177.78	78.12	16.54
28	177.76	78.05	16.55
29	177.71	77.94	16.53
30	177.70	77.33	16.34
31	e177.71	76.58	16.05
Mean	**e178.33**	**77.92**	**16.43**
Maximum	**179.38**	**78.62**	**16.61**
Minimum	**e177.70**	**76.58**	**15.97**
Annual mean	**180.25**	**77.98**	**16.19**
Annual maximum	**182.78**	**80.98**	**16.74**
Annual minimum	**174.66**	**74.78**	**15.44**
Gage	**[1]181.34**	**[2]80.30**	**[3]17.0**
Remarks	Good[4]	Excellent[4]	Excellent

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	September		
1	177.66	75.94	15.79
2	177.51	76.02	15.65
3	177.36	76.19	15.59
4	177.21	76.30	15.57
5	177.11	76.39	15.56
6	177.01	76.47	15.55
7	176.95	76.53	15.52
8	176.86	76.59	15.48
9	176.73	76.60	15.44
10	176.63	76.57	15.46
11	176.57	76.46	15.54
12	176.51	76.33	15.56
13	176.31	76.16	15.57
14	176.22	76.05	15.64
15	176.10	e75.79	15.72
16	175.98	e75.54	15.78
17	175.90	75.42	15.88
18	175.80	75.29	16.01
19	175.71	75.24	16.09
20	175.60	75.22	16.16
21	175.49	75.28	16.21
22	175.36	75.32	16.25
23	175.22	75.46	16.26
24	175.12	75.59	16.25
25	175.03	75.74	16.26
26	174.94	75.87	16.27
27	174.88	75.83	16.27
28	174.78	75.92	16.24
29	174.71	76.24	16.25
30	174.66	76.62	16.25
Mean	**176.06**	**e75.97**	**15.87**
Maximum	**177.66**	**76.62**	**16.27**
Minimum	**174.66**	**e75.22**	**15.44**

[1]Reservoir spillway altitude prior to January 2005, 182.94 otherwise.
[2]Reservoir spillway altitude.
[3]Maximum reservoir elevation without causing localized flooding.
[4]Records that are estimated are rated as fair.

Table 10. Daily, monthly, and annual statistics for reservoir capacity for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.

[Units are in millions of gallons. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	October		
1	1,970	241	1,533
2	1,974	236	1,533
3	1,982	231	1,533
4	1,987	231	1,532
5	1,995	232	1,531
6	2,003	231	1,529
7	2,011	230	1,526
8	2,012	232	1,514
9	2,009	234	1,505
10	2,002	236	1,503
11	1,996	236	1,504
12	2,004	234	1,503
13	2,010	231	1,501
14	2,013	227	1,500
15	2,012	225	1,502
16	2,031	229	1,508
17	2,037	232	1,510
18	2,039	233	1,511
19	2,053	233	1,514
20	2,068	234	1,517
21	2,076	233	1,519
22	2,084	232	1,520
23	2,091	230	1,521
24	2,095	227	1,525
25	2,091	225	1,525
26	2,088	224	1,526
27	2,087	222	1,527
28	2,085	221	1,529
29	2,084	219	1,530
30	2,084	218	1,530
31	2,078	219	1,530
Mean	**2,037**	**230**	**1,519**
Maximum	**2,095**	**241**	**1,533**
Minimum	**1,970**	**218**	**1,500**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	November		
1	2,066	220	1,529
2	2,058	220	1,528
3	2,052	221	1,528
4	2,046	222	1,528
5	2,055	226	1,529
6	2,051	229	1,528
7	2,047	231	1,529
8	2,042	233	1,529
9	2,036	234	1,528
10	2,030	234	1,529
11	2,023	235	1,528
12	2,021	236	1,528
13	2,027	237	1,531
14	2,023	238	1,532
15	2,016	239	1,533
16	2,011	240	1,535
17	2,006	242	1,536
18	2,002	244	1,535
19	2,001	245	1,532
20	2,001	245	1,530
21	2,004	245	1,528
22	2,002	246	1,527
23	2,002	245	1,525
24	2,005	243	1,523
25	2,018	244	1,523
26	2,025	245	1,523
27	2,028	246	1,527
28	2,038	246	1,526
29	2,068	254	1,531
30	2,078	258	1,530
Mean	**2,029**	**238**	**1,529**
Maximum	**2,078**	**258**	**1,536**
Minimum	**2,001**	**220**	**1,523**

Table 10. Daily, monthly, and annual statistics for reservoir capacity for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	December		
1	2,092	251	1,521
2	2,112	248	1,513
3	2,120	251	1,511
4	2,127	254	1,510
5	2,131	249	1,509
6	2,138	242	1,508
7	2,155	239	1,509
8	2,189	245	1,513
9	2,205	250	1,513
10	2,221	246	1,513
11	2,255	245	1,517
12	2,270	244	1,516
13	2,280	241	1,517
14	2,288	240	1,517
15	2,296	238	1,513
16	2,300	235	1,511
17	2,306	232	1,509
18	2,312	231	1,510
19	2,317	233	1,512
20	2,327	236	1,514
21	2,333	237	1,516
22	2,337	237	1,518
23	2,346	236	1,516
24	2,383	244	1,516
25	2,399	255	1,512
26	2,410	259	1,509
27	2,426	257	1,508
28	2,432	252	1,506
29	2,431	240	1,505
30	2,427	237	1,505
31	2,419	238	1,506
Mean	**2,283**	**243**	**1,512**
Maximum	**2,432**	**259**	**1,521**
Minimum	**2,092**	**231**	**1,505**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	January		
1	2,414	239	1,508
2	2,409	241	1,509
3	2,405	242	1,509
4	2,414	244	1,513
5	2,416	244	1,514
6	2,423	242	1,516
7	2,429	242	1,515
8	2,430	241	1,513
9	2,430	239	1,511
10	2,425	237	1,507
11	2,419	239	1,504
12	2,419	241	1,502
13	2,422	239	1,502
14	2,440	242	1,505
15	2,472	258	1,515
16	2,484	262	1,518
17	2,487	261	1,516
18	2,485	260	1,512
19	2,480	258	1,507
20	2,475	256	1,508
21	2,469	253	1,507
22	2,463	248	1,507
23	2,473	244	1,514
24	2,466	239	1,514
25	2,458	236	1,510
26	2,453	238	1,509
27	2,448	241	1,509
28	2,440	242	1,508
29	2,431	243	1,507
30	2,422	242	1,506
31	2,414	237	1,505
Mean	**2,442**	**245**	**1,510**
Maximum	**2,487**	**262**	**1,518**
Minimum	**2,405**	**236**	**1,502**

Table 10. Daily, monthly, and annual statistics for reservoir capacity for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	February		
1	2,406	235	1,503
2	2,398	233	1,500
3	2,390	234	1,498
4	2,387	235	1,495
5	2,381	238	1,495
6	2,373	240	1,497
7	2,366	241	1,500
8	2,363	238	1,503
9	2,362	234	1,505
10	2,376	235	1,511
11	2,393	243	1,511
12	2,398	246	1,510
13	2,400	243	1,510
14	2,399	240	1,508
15	2,413	239	1,509
16	2,430	244	1,509
17	2,449	248	1,508
18	2,460	251	1,508
19	2,462	250	1,507
20	2,463	246	1,507
21	2,469	240	1,508
22	2,472	236	1,509
23	2,471	236	1,509
24	2,472	236	1,507
25	2,474	236	1,505
26	2,474	235	1,504
27	2,470	234	1,502
28	2,468	234	1,501
Mean	**2,423**	**239**	**1,505**
Maximum	**2,474**	**251**	**1,511**
Minimum	**2,362**	**233**	**1,495**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	March		
1	2,476	234	1,503
2	2,481	234	1,503
3	2,485	236	1,501
4	2,488	235	1,500
5	2,491	234	1,498
6	2,495	236	1,496
7	2,497	234	1,495
8	2,510	235	1,497
9	2,531	238	1,503
10	2,538	240	1,502
11	2,542	237	1,503
12	2,556	234	1,507
13	2,571	232	1,510
14	2,577	229	1,510
15	2,581	227	1,510
16	2,586	224	1,511
17	2,592	222	1,511
18	2,598	220	1,511
19	2,604	218	1,511
20	2,610	216	1,509
21	2,617	215	1,510
22	2,623	215	1,509
23	2,630	216	1,509
24	2,636	217	1,511
25	2,640	220	1,512
26	2,643	223	1,511
27	2,644	226	1,511
28	2,654	231	1,513
29	2,686	255	1,513
30	2,696	264	1,506
31	2,695	260	1,497
Mean	**2,580**	**231**	**1,506**
Maximum	**2,696**	**264**	**1,513**
Minimum	**2,476**	**215**	**1,495**

Table 10. Daily, monthly, and annual statistics for reservoir capacity for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
		April	
1	2,691	244	1,492
2	2,696	214	1,490
3	2,708	205	1,490
4	2,708	204	1,485
5	2,701	205	1,483
6	2,696	212	1,481
7	2,691	212	1,478
8	2,689	217	1,481
9	2,683	221	1,483
10	2,678	222	1,486
11	2,666	225	1,491
12	2,661	230	1,494
13	2,657	234	1,495
14	2,652	236	1,497
15	2,648	236	1,500
16	2,646	236	1,502
17	2,644	239	1,505
18	2,641	242	1,509
19	2,639	244	1,511
20	2,639	245	1,513
21	2,632	246	1,515
22	2,631	247	1,512
23	2,632	249	1,511
24	2,643	254	1,515
25	2,648	255	1,515
26	2,647	253	1,514
27	2,647	248	1,511
28	2,648	246	1,512
29	2,647	244	1,511
30	2,645	239	1,510
Mean	**2,662**	**233**	**1,500**
Maximum	**2,708**	**255**	**1,515**
Minimum	**2,631**	**204**	**1,478**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
		May	
1	2,648	237	1,512
2	2,649	236	1,511
3	2,648	239	1,509
4	2,645	241	1,508
5	2,640	241	1,507
6	2,636	241	1,503
7	2,642	241	1,502
8	2,652	247	1,504
9	2,651	250	1,508
10	2,647	251	1,510
11	2,647	250	1,511
12	2,641	249	1,513
13	2,635	253	1,514
14	2,632	256	1,515
15	2,628	259	1,518
16	2,628	261	1,522
17	2,626	261	1,521
18	2,622	260	1,519
19	2,623	260	1,520
20	2,618	259	1,520
21	2,617	254	1,513
22	2,622	248	1,507
23	2,624	243	1,501
24	2,637	240	1,498
25	2,658	242	1,495
26	2,680	234	1,494
27	2,684	235	1,491
28	2,682	235	1,491
29	2,677	238	1,492
30	2,673	239	1,492
31	2,671	238	1,493
Mean	**2,645**	**246**	**1,507**
Maximum	**2,684**	**261**	**1,522**
Minimum	**2,617**	**234**	**1,491**

Table 10. Daily, monthly, and annual statistics for reservoir capacity for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	June		
1	2,669	235	1,493
2	2,664	232	1,492
3	2,659	236	1,490
4	2,654	239	1,488
5	2,652	244	1,491
6	2,647	247	1,491
7	2,644	250	1,491
8	2,641	252	1,491
9	2,651	258	1,494
10	2,651	262	1,497
11	2,648	258	1,499
12	2,644	241	1,502
13	2,642	237	1,505
14	2,640	234	1,506
15	2,637	231	1,507
16	2,633	233	1,509
17	2,635	237	1,508
18	2,632	240	1,506
19	2,626	243	1,504
20	2,626	245	1,502
21	2,623	247	1,498
22	2,614	247	1,495
23	2,610	245	1,495
24	2,610	243	1,496
25	2,600	240	1,497
26	2,598	238	1,498
27	2,593	236	1,498
28	2,583	233	1,497
29	2,575	231	1,495
30	2,569	230	1,492
Mean	**2,629**	**241**	**1,498**
Maximum	**2,669**	**262**	**1,509**
Minimum	**2,569**	**230**	**1,488**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	July		
1	2,560	229	1,489
2	2,547	229	1,489
3	2,535	229	1,492
4	2,510	229	1,497
5	2,488	229	1,500
6	2,472	233	1,505
7	2,396	243	1,512
8	2,410	234	1,512
9	2,485	234	1,514
10	2,516	233	1,507
11	2,524	229	1,500
12	2,525	228	1,500
13	2,507	231	1,502
14	2,489	233	1,504
15	2,471	234	1,505
16	2,457	234	1,505
17	2,443	234	1,507
18	2,433	234	1,511
19	2,416	234	1,509
20	2,402	234	1,505
21	2,377	234	1,501
22	2,364	234	1,500
23	2,339	234	1,500
24	2,314	233	1,499
25	2,317	232	1,499
26	2,277	232	1,498
27	2,261	231	1,496
28	2,177	232	1,495
29	2,178	233	1,491
30	2,153	233	1,494
31	2,129	232	1,496
Mean	**2,402**	**232**	**1,501**
Maximum	**2,560**	**243**	**1,514**
Minimum	**2,129**	**228**	**1,489**

Table 10. Daily, monthly, and annual statistics for reservoir capacity for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in millions of gallons. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	August		
1	2,133	231	1,497
2	2,146	235	1,507
3	2,127	236	1,510
4	2,110	236	1,513
5	2,096	235	1,515
6	2,049	234	1,517
7	2,047	233	1,523
8	2,027	232	1,527
9	2,013	230	1,529
10	1,999	230	1,527
11	1,974	230	1,525
12	1,952	231	1,520
13	1,940	231	1,515
14	1,929	232	1,514
15	1,919	238	1,518
16	1,944	241	1,521
17	1,944	242	1,523
18	1,928	242	1,524
19	1,929	241	1,525
20	1,921	241	1,527
21	1,921	240	1,530
22	1,912	240	1,529
23	1,894	239	1,528
24	1,878	239	1,528
25	1,877	238	1,528
26	1,875	238	1,527
27	1,866	237	1,526
28	1,862	237	1,527
29	1,855	236	1,526
30	1,852	230	1,516
31	e1,853	223	1,502
Mean	**1,960**	**235**	**1,521**
Maximum	**2,146**	**242**	**1,530**
Minimum	**1,852**	**223**	**1,497**
Annual mean	**2,308**	**236**	**1,508**
Annual maximum	**2,708**	**264**	**1,536**
Annual minimum	**1,398**	**204**	**1,470**
Remarks	Excellent[1]	Excellent[2]	Excellent[3]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	September		
1	1,846	217	1,488
2	1,822	218	1,481
3	1,797	219	1,478
4	1,774	220	1,477
5	1,758	221	1,477
6	1,742	222	1,476
7	1,733	223	1,474
8	1,720	223	1,472
9	1,700	223	1,470
10	1,686	223	1,471
11	1,676	222	1,475
12	1,668	221	1,477
13	1,638	219	1,477
14	1,625	e217	1,480
15	1,607	e213	1,484
16	1,591	e212	1,488
17	1,580	e212	1,493
18	1,565	212	1,499
19	1,552	211	1,503
20	1,537	211	1,507
21	1,522	211	1,510
22	1,505	212	1,512
23	1,487	213	1,512
24	1,473	214	1,511
25	1,460	215	1,512
26	1,447	217	1,512
27	1,437	216	1,513
28	1,419	217	1,511
29	1,406	220	1,511
30	1,398	223	1,512
Mean	**1,606**	**217**	**1,492**
Maximum	**1,846**	**223**	**1,513**
Minimum	**1,398**	**211**	**1,470**

[1]Reservoir storage capacity at spillway altitude is 2,503 million gallons prior to January 2005, otherwise storage capacity is 2,723 million gallons.
[2]Reservoir storage capacity at spillway altitude is 258 million gallons.
[3]Maximum reservoir storage capacity without causing localized flooding is 1,549 million gallons.

Table 11. Daily, monthly, and annual statistics for precipitation for U.S. Geological Survey station numbers 01104430, Cambridge Reservoir near Kendal Green, 01104480, Stony Brook Reservoir in Waltham, and 422302071083801, Fresh Pond Reservoir at Cambridge, water year 2005.

[Units are in inches. e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	October		
1	0.00	0.00	0.00
2	.17	.05	.05
3	.00	.00	.00
4	.00	.00	.00
5	.00	.00	.00
6	.00	.00	.00
7	.00	.00	.00
8	.00	.00	.00
9	.00	.00	.00
10	.00	.00	.00
11	.00	.00	.00
12	.07	.04	.08
13	.00	.00	.00
14	.04	.03	.02
15	.57	.50	.43
16	.53	.54	.54
17	.00	.00	.00
18	.00	.00	.00
19	.64	.59	.52
20	.00	.00	.00
21	.00	.00	.00
22	.02	.01	.01
23	.00	.00	.00
24	.00	.00	.00
25	.00	.00	.00
26	.00	.00	.00
27	.00	.00	.00
28	.00	.00	.00
29	.00	.00	.00
30	.45	.08	.04
31	.00	.00	.00
Total	**2.49**	**1.84**	**1.69**
Maximum	**.64**	**.59**	**.54**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	November		
1	0.00	0.00	0.00
2	.01	.00	.01
3	.05	.03	.03
4	.68	.73	.76
5	.02	.01	.00
6	.00	.00	.00
7	.00	.00	.00
8	.00	.00	.00
9	.00	.00	.00
10	.00	.00	.00
11	.00	.00	.00
12	.02	.20	.10
13	.03	.13	.16
14	.20	.00	.05
15	.59	.00	.00
16	.10	.00	.00
17	.08	.00	.00
18	.00	.00	.00
19	.00	.00	.00
20	.15	.15	.08
21	.03	.03	.02
22	.00	.00	.00
23	.00	.00	.00
24	.26	.27	.26
25	.34	.29	.27
26	.00	.00	.00
27	.00	.00	.00
28	1.19	1.21	1.14
29	.00	.00	.00
30	.00	.00	.00
Total	**3.75**	**3.05**	**2.88**
Maximum	**1.19**	**1.21**	**1.14**

Table 11. Daily, monthly, and annual statistics for precipitation for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in inches; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	December		
1	1.02	0.71	0.63
2	.00	.00	.00
3	.00	.00	.00
4	.00	.00	.00
5	.00	.00	.00
6	.00	.01	.00
7	1.31	1.02	1.20
8	.06	.03	.05
9	.00	.00	.00
10	.84	.76	.68
11	.10	.09	.09
12	.00	.00	.00
13	.01	.00	.00
14	.00	.00	.00
15	.00	.00	.00
16	.00	.00	.00
17	.00	.00	.00
18	.00	.00	.00
19	.06	.04	.02
20	.03	.06	.07
21	.00	.00	.00
22	.51	.00	.00
23	1.14	1.12	1.10
24	.00	.00	.00
25	.00	.00	.00
26	e.66	.27	.18
27	.00	.00	.01
28	.00	.00	.00
29	.00	.00	.00
30	.00	.00	.00
31	.00	.00	.00
Total	**e5.74**	**4.11**	**4.03**
Maximum	**1.31**	**1.12**	**1.20**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	January		
1	0.00	0.00	0.00
2	.04	.03	.03
3	.22	.22	.19
4	.31	.30	.30
5	.02	.12	.10
6	e.90	.92	.84
7	.00	.00	.00
8	e.60	.60	.50
9	.00	.00	.03
10	.00	.00	.00
11	.01	.02	.00
12	e.50	.48	.34
13	.00	.00	.00
14	.63	.57	.51
15	.00	.00	.00
16	.00	.00	.00
17	.00	.00	.00
18	.01	.00	.00
19	.07	.08	.06
20	.00	.03	.02
21	.00	.00	.00
22	.49	.55	.08
23	.88	.20	.00
24	.12	.00	.00
25	.00	.00	.03
26	.34	.25	.17
27	.00	.00	.00
28	.00	.00	.00
29	.00	.00	.00
30	.00	.00	.00
31	.00	.00	.00
Total	**e5.14**	**4.37**	**3.20**
Maximum	**e.90**	**.92**	**.84**

Table 11. Daily, monthly, and annual statistics for precipitation for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in inches; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	February		
1	0.00	0.00	0.00
2	.00	.00	.00
3	.65	.22	.22
4	.43	.03	.04
5	.00	.00	.00
6	.00	.00	.00
7	.00	.00	.00
8	.00	.00	.00
9	.02	.02	.00
10	1.01	.71	.76
11	.04	.00	.01
12	.00	.00	.00
13	.00	.00	.00
14	.07	.04	.02
15	.52	.50	.38
16	.28	.24	.18
17	.00	.00	.00
18	.00	.00	.00
19	.00	.00	.00
20	.00	.00	.00
21	.39	.34	.34
22	.00	.00	.00
23	.02	.01	.00
24	.03	.03	.01
25	.12	.02	.01
26	.00	.00	.00
27	.00	.00	.00
28	.24	.30	.06
Mean	**3.82**	**2.46**	**2.03**
Maximum	**1.01**	**.71**	**.76**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	March		
1	0.36	0.16	0.21
2	.00	.00	.00
3	.00	.00	.00
4	.00	.00	.00
5	.00	.00	.00
6	.00	.00	.00
7	.00	.00	.00
8	.85	.37	.44
9	.04	.00	.00
10	.00	.00	.00
11	.08	.05	.05
12	.99	.86	.89
13	.00	.00	.00
14	.00	.00	.00
15	.00	.00	.00
16	.00	.00	.00
17	.00	.00	.00
18	.00	.00	.00
19	.00	.00	.00
20	.00	.00	.00
21	.00	.00	.00
22	.34	.00	.00
23	.07	.06	.03
24	.30	.27	.18
25	.00	.00	.00
26	.00	.00	.00
27	.00	.00	.00
28	1.80	1.60	1.33
29	.40	.42	.43
30	.00	.00	.00
31	.00	.00	.00
Total	**5.23**	**3.79**	**3.56**
Maximum	**1.80**	**1.60**	**1.33**

Table 11. Daily, monthly, and annual statistics for precipitation for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in inches; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	April		
1	0.01	0.02	0.02
2	.95	.98	.94
3	.62	.64	.62
4	.01	.00	.00
5	.00	.00	.00
6	.00	.00	.00
7	.00	.00	.00
8	.34	.37	.39
9	.00	.00	.00
10	.00	.00	.00
11	.00	.00	.00
12	.03	.01	.01
13	.00	.00	.00
14	.00	.00	.00
15	.00	.00	.00
16	.00	.00	.00
17	.00	.00	.00
18	.23	.00	.00
19	.00	.00	.00
20	.11	.06	.05
21	.17	.13	.15
22	.05	.03	.04
23	.47	.45	.42
24	.57	.61	.50
25	.18	.14	.17
26	.00	.00	.00
27	.52	.55	.62
28	.08	.06	.02
29	.00	.00	.00
30	.49	.45	.48
Total	**4.83**	**4.50**	**4.43**
Maximum	**.95**	**.98**	**.94**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	May		
1	0.16	0.16	0.13
2	.07	.04	.03
3	.00	.01	.02
4	.00	.00	.00
5	.00	.00	.00
6	.00	.00	.00
7	.94	.72	.60
8	.04	.02	.02
9	.00	.00	.00
10	.00	.00	.00
11	.00	.00	.00
12	.20	.00	.00
13	.00	.00	.00
14	.00	.00	.00
15	.00	.00	.00
16	.62	.23	.27
17	.27	.00	.00
18	.01	.00	.17
19	.32	.03	.02
20	.00	.00	.00
21	.15	.11	.22
22	.22	.16	.07
23	.22	.18	.16
24	.90	.75	.97
25	1.14	1.23	.85
26	.61	.60	.59
27	.01	.00	.01
28	.06	.11	.17
29	.08	.05	.04
30	.01	.00	.00
31	.00	.00	.00
Total	**6.03**	**4.40**	**4.34**
Maximum	**1.14**	**1.23**	**.97**

Table 11. Daily, monthly, and annual statistics for precipitation for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in inches; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	June		
1	0.00	0.00	0.00
2	.00	.00	.00
3	.00	.00	.00
4	.00	.00	.02
5	.00	.00	.00
6	.00	.00	.00
7	.00	.00	.01
8	.81	.79	.60
9	.21	.26	.21
10	.00	.00	.00
11	.00	.00	.00
12	.33	.00	.00
13	.00	.00	.00
14	.06	.01	.25
15	.02	.10	.18
16	.18	.26	.40
17	.04	.12	.06
18	.00	.00	.00
19	.00	.00	.00
20	.00	.00	.00
21	.00	.00	.00
22	.08	.06	.19
23	.00	.00	.00
24	.00	.00	.01
25	.00	.00	.00
26	.00	.00	.01
27	.00	.00	.00
28	.04	.03	.00
29	.02	.16	.03
30	.00	.00	.00
Total	**1.79**	**1.79**	**1.97**
Maximum	**.81**	**.79**	**.60**

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	July		
1	0.04	0.05	0.01
2	.00	.00	.01
3	.00	.00	.00
4	.00	.00	.00
5	.00	.00	.00
6	2.16	3.15	1.99
7	.01	.00	.00
8	1.54	1.42	1.06
9	.31	.21	.12
10	.01	.00	.00
11	.00	.00	.00
12	.00	.00	.00
13	.00	.00	.00
14	.00	.00	.00
15	.36	.00	.01
16	.00	.00	.00
17	.00	.00	.00
18	.00	.01	.16
19	.01	.01	.00
20	.00	.00	.04
21	.00	.00	.00
22	.40	.04	.58
23	.00	.00	.01
24	.00	.00	.00
25	.00	.00	.00
26	.00	.00	.01
27	.06	.03	.01
28	.00	.00	.01
29	.00	.00	.00
30	.00	.00	.00
31	.00	.00	.00
Total	**4.90**	**4.92**	**4.02**
Maximum	**2.16**	**3.15**	**1.99**

Table 11. Daily, monthly, and annual statistics for precipitation for U.S. Geological Survey stations 01104430, Hobbs Brook below Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in inches; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)	Stony Brook Reservoir at dam near Waltham (01104480)	Fresh Pond gate house at Cambridge (422302071083801)
	August		
1	0.19	0.04	0.07
2	1.16	.90	1.34
3	.00	.00	.00
4	.00	.00	.00
5	.00	.12	.11
6	.00	.00	.00
7	.00	.00	.00
8	.00	.00	.00
9	.02	.01	.02
10	.00	.00	.00
11	.00	.00	.08
12	.02	.00	.00
13	.00	.00	.02
14	1.88	1.26	.64
15	.18	.33	.33
16	.00	.01	.00
17	.00	.00	.00
18	.00	.00	.00
19	.00	.00	.00
20	.00	.00	.00
21	.32	.13	.10
22	.00	.00	.00
23	.00	.00	.03
24	.01	.00	.00
25	.36	.00	.02
26	.00	.00	.00
27	.00	.00	.00
28	.00	.00	.00
29	.08	.19	.53
30	.15	.27	.19
31	.04	.09	.05
Total	**4.41**	**3.35**	**3.53**
Maximum	**1.88**	**1.26**	**1.34**
	September		
1	0.10	0.07	0.02
2	.00	.00	.00
3	.00	.00	.00
4	.02	.00	.00
5	.28	.00	.00
6	.00	.00	.00
7	.00	.00	.00
8	.30	.00	.00
9	.00	.00	.00
10	.00	.00	.01
11	.00	.00	.00
12	.00	.00	.01
13	.00	.00	.01
14	.00	.00	.00
15	.62	.91	.77
16	.10	.12	.10
17	.04	.02	.00
18	.01	.00	.01
19	.00	.00	.01
20	.03	.12	.02
21	.00	.00	.00
22	.00	.00	.00
23	.35	.00	.01
24	.00	.00	.00
25	.00	.00	.00
26	.15	.18	.16
27	.03	.05	.03
28	.00	.00	.00
29	.50	.53	.35
30	.12	.00	.00
Total	**2.65**	**2.00**	**1.51**
Maximum	**.62**	**.91**	**.77**
Annual total	**50.78**	**40.58**	**37.19**
Annual maximum	**2.16**	**3.15**	**1.99**
Remarks	Excellent[1]	Fair	Excellent

[1]Records that are estimated are rated as poor.

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				October					
1	20.8	11.5	15.2	21.6	11.4	15.3	22.6	12.6	16.2
2	19.2	11.9	15.0	19.6	11.6	14.8	20.1	12.4	15.7
3	16.6	6.9	12.7	17.1	7.4	12.8	17.0	8.6	13.6
4	19.3	5.0	11.9	19.8	4.9	12.5	20.4	6.8	13.9
5	13.9	2.9	9.8	14.3	2.9	9.9	15.4	5.5	11.0
6	16.1	.3	7.7	16.8	1.6	8.8	17.3	2.6	10.1
7	20.4	4.7	12.0	23.0	5.1	12.9	23.2	7.3	14.1
8	23.4	7.3	14.8	24.1	8.0	15.6	24.9	9.8	16.9
9	21.6	12.5	16.3	21.3	11.9	16.2	22.4	13.1	17.3
10	17.9	10.6	15.1	18.2	11.0	15.1	18.5	11.6	15.8
11	16.6	9.6	12.5	16.3	9.8	12.4	17.1	10.7	13.3
12	16.1	8.3	11.6	16.4	9.5	11.8	16.4	10.0	12.2
13	19.8	3.8	10.8	22.0	5.3	12.2	21.5	7.4	13.4
14	15.8	5.5	11.3	15.4	6.7	11.4	16.1	7.9	12.4
15	14.9	12.9	13.7	14.5	12.7	13.4	15.3	13.1	13.9
16	17.0	9.9	13.7	16.9	9.9	13.7	17.6	11.3	14.7
17	13.6	5.6	9.5	13.1	6.6	9.8	13.6	7.7	10.8
18	13.9	3.8	8.4	13.4	4.7	9.2	13.9	6.1	10.1
19	9.4	7.0	8.4	9.2	7.2	8.2	10.3	7.8	8.9
20	10.1	5.6	7.9	10.3	5.9	7.9	10.9	6.6	8.6
21	10.0	5.0	7.6	10.1	5.4	7.7	10.6	5.7	8.2
22	10.0	7.2	8.4	10.0	7.1	8.3	10.6	7.4	8.9
23	9.8	6.2	8.2	9.6	6.3	8.0	10.5	6.7	8.6
24	9.4	7.8	8.3	9.2	7.2	8.0	10.4	7.6	8.7
25	11.1	6.6	8.7	10.8	6.9	8.6	11.6	7.4	9.2
26	13.0	3.3	7.3	13.0	3.4	7.7	13.5	5.2	8.8
27	14.7	2.8	9.5	14.2	5.1	9.6	14.7	5.5	10.6
28	11.6	.0	6.0	12.1	1.4	6.5	11.9	2.8	7.5
29	14.5	.0	7.0	16.0	.9	7.5	14.9	2.8	8.8
30	15.6	4.2	10.1	15.5	4.7	9.9	16.0	5.8	10.9
31	21.1	12.2	16.5	19.7	13.1	16.6	20.2	13.3	70.0
Month	**23.4**	**.0**	**10.8**	**24.1**	**.9**	**11.0**	**24.9**	**2.6**	**11.9**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				November					
1	14.8	3.5	11.0	14.0	5.4	11.2	14.6	5.8	11.4
2	11.3	1.0	7.3	11.6	2.2	7.8	12.5	3.4	8.8
3	12.4	2.1	9.1	12.6	2.0	9.2	13.1	3.1	9.2
4	9.2	–2.3	4.6	8.9	–1.4	4.7	10.0	.2	6.2
5	10.8	5.6	8.1	10.4	6.2	8.2	11.0	5.6	8.7
6	12.9	3.1	9.0	12.9	3.5	9.2	13.4	5.2	9.9
7	19.1	4.2	12.6	18.8	6.5	13.5	19.0	7.8	14.2
8	14.4	1.6	7.2	14.8	2.0	7.3	15.0	1.6	7.3
9	3.5	–3.9	–.1	3.4	–2.8	.2	3.9	–2.2	.8
10	4.4	–5.9	–.7	4.5	–5.5	–.3	4.6	–4.3	.8
11	14.2	1.1	7.4	14.0	1.0	8.1	14.3	3.1	9.0
12	5.8	–1.1	1.7	6.1	–1.1	1.8	5.9	–.9	2.2
13	4.6	–2.2	.0	5.1	–2.0	.2	5.2	–1.9	.7
14	8.2	–8.3	.1	8.7	–5.0	1.4	8.9	–4.1	2.5
15	12.9	–3.2	3.9	13.5	–3.1	4.5	13.4	.7	7.4
16	7.7	–1.5	2.8	8.0	.5	3.7	8.5	1.9	5.6
17	10.0	–1.6	3.7	10.6	–.6	4.5	10.6	.3	6.2
18	15.2	4.3	8.9	14.9	4.9	9.7	15.0	7.0	10.9
19	16.1	1.3	9.6	15.4	3.5	10.1	15.8	6.4	11.6
20	8.6	–1.1	4.4	9.0	.4	4.8	9.1	2.7	6.1
21	6.9	4.6	6.0	6.9	4.6	5.9	7.6	5.2	6.6
22	10.3	–.8	5.3	9.7	.8	6.3	10.4	2.6	7.6
23	11.4	–3.1	2.5	11.5	–1.4	4.3	12.2	.0	5.4
24	15.2	1.5	8.2	15.1	2.8	8.3	16.1	5.5	9.7
25	18.5	2.8	13.7	18.4	3.0	13.7	18.4	4.0	14.4
26	4.4	–4.0	.3	4.1	–2.0	1.0	4.7	–.3	2.1
27	9.7	–5.0	2.2	9.5	–3.7	3.1	10.3	–1.7	4.6
28	13.8	3.9	9.1	14.0	1.9	8.7	13.9	6.8	10.0
29	9.8	–.4	5.5	9.6	.5	5.8	10.1	2.8	6.7
30	8.7	.6	4.3	8.4	.5	4.7	9.1	2.6	5.8
Month	**19.1**	**–8.3**	**5.6**	**18.8**	**–5.5**	**6.1**	**19.0**	**–4.3**	**7.1**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				December					
1	13.9	3.7	8.8	13.9	4.7	8.9	14.7	6.6	9.7
2	8.4	–1.6	3.5	7.7	.2	4.7	8.2	2.4	5.6
3	7.9	–1.5	2.9	7.3	–.8	3.1	7.7	1.5	4.3
4	4.0	–3.5	.6	3.7	–2.2	1.1	4.5	–.7	1.9
5	10.2	–2.3	5.0	9.8	–1.8	5.2	10.0	–1.5	5.5
6	–1.2	–5.1	–3.0	–1.2	–4.8	–2.7	–.6	–4.2	–2.2
7	7.6	–2.7	2.6	7.6	–2.5	3.1	8.4	–1.6	4.8
8	11.3	1.2	5.6	10.9	1.2	6.0	11.3	2.0	6.5
9	5.6	–1.1	2.8	5.5	.4	3.6	6.6	2.3	4.8
10	7.0	3.9	5.6	6.9	4.0	5.5	7.5	5.5	6.2
11	7.0	3.0	5.1	7.0	3.5	5.3	7.7	4.0	6.1
12	5.9	1.3	3.5	6.2	1.6	3.9	7.1	2.8	4.6
13	8.7	1.6	4.3	8.2	1.7	4.5	8.5	2.8	5.4
14	1.8	–6.8	–2.3	2.4	–5.9	–1.9	2.8	–5.8	–1.4
15	–2.7	–9.3	–6.3	–2.6	–8.2	–5.9	–2.3	–7.7	–5.2
16	5.5	–10.1	–2.6	5.7	–9.7	–1.9	6.1	–7.4	–.7
17	5.8	–6.1	1.5	5.1	–4.4	1.8	5.5	–2.6	2.5
18	2.9	–9.3	–3.0	2.7	–8.3	–2.7	2.9	–6.0	–1.3
19	5.1	–3.1	.6	5.0	–3.5	.8	5.8	–2.0	2.0
20	1.5	–15.2	–8.4	1.2	–14.7	–8.1	3.0	–13.8	–7.3
21	–1.5	–16.4	–9.4	–.9	–15.6	–8.3	–.4	–14.8	–7.3
22	8.0	–9.8	–1.1	8.8	–8.0	1.1	9.8	–4.9	2.9
23	16.7	1.0	9.9	16.6	1.8	9.9	17.1	3.3	11.4
24	10.6	–2.9	.7	10.7	–2.4	.9	11.4	–2.0	1.4
25	–.6	–8.1	–3.8	–.8	–7.3	–3.6	.0	–5.5	–2.6
26	–4.3	–6.4	–5.2	–4.1	–6.0	–4.9	–3.0	–5.9	–4.4
27	–4.4	–12.8	–7.5	–4.0	–11.1	–6.8	–3.4	–10.4	–6.4
28	–2.3	–16.5	–7.3	–2.3	–13.0	–6.6	–2.1	–12.4	–6.1
29	5.1	–2.7	.5	4.8	–2.5	.9	5.1	–2.1	1.5
30	3.4	–6.3	–.7	3.6	–4.7	.0	4.5	–2.2	1.1
31	8.2	–6.4	2.6	8.3	–5.0	2.9	8.8	–3.0	4.5
Month	**16.7**	**–16.5**	**.2**	**16.6**	**–15.6**	**.6**	**17.1**	**–14.8**	**1.5**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				January					
1	11.0	–0.3	5.8	11.1	0.9	6.5	11.4	1.5	7.2
2	3.0	–2.9	.0	3.3	–2.3	.3	4.5	–2.3	.7
3	11.8	3.0	7.9	11.4	3.3	8.3	11.6	4.5	8.9
4	7.0	1.0	4.7	6.9	2.6	5.2	7.6	3.6	5.5
5	1.7	–3.0	–.6	2.7	–2.7	–.3	3.7	–2.3	.3
6	2.0	–4.8	–1.6	2.0	–4.7	–1.5	3.1	–4.3	–.6
7	3.7	–4.8	.1	3.4	–3.4	.6	3.8	–1.5	1.3
8	–.2	–4.8	–1.7	–.3	–3.1	–1.5	1.1	–1.8	–.6
9	.0	–7.0	–2.4	–.2	–5.1	–2.2	.3	–4.1	–1.4
10	4.2	–1.2	1.4	3.9	–1.2	1.5	4.4	–.5	2.1
11	1.2	–3.6	–.6	2.0	–2.5	–.4	1.9	–1.2	.4
12	2.8	–1.7	.9	2.8	–1.9	.9	3.4	–.8	1.7
13	13.4	–.6	3.3	14.0	–.8	3.3	14.8	–.6	3.9
14	16.7	–.2	8.1	16.9	.0	8.3	18.1	.3	9.0
15	–.2	–5.7	–3.0	.0	–5.3	–2.8	.3	–4.1	–2.1
16	–2.4	–7.3	–4.7	–2.3	–6.6	–4.6	–1.5	–5.8	–3.9
17	–4.4	–11.5	–7.0	–4.6	–11.0	–6.7	–3.9	–10.8	–6.4
18	–11.0	–16.8	–13.8	–10.4	–16.2	–13.2	–10.4	–15.0	–12.7
19	–4.4	–18.2	–10.7	–4.6	–17.6	–10.5	–3.5	–16.2	–9.6
20	–2.1	–10.0	–6.3	–2.9	–9.6	–6.3	–2.3	–9.9	–5.8
21	–10.0	–18.1	–14.8	–9.6	–17.5	–14.5	–9.9	–16.6	–13.9
22	–4.3	–21.0	–14.0	–3.9	–20.1	–13.5	–3.3	–19.1	–12.5
23	–4.4	–15.9	–11.7	–4.2	–15.4	–11.1	–3.7	–15.0	–10.7
24	–4.5	–20.3	–11.9	–5.0	–17.0	–11.0	–4.4	–15.2	–10.1
25	–3.2	–13.3	–6.9	–3.5	–9.3	–6.4	–3.0	–8.8	–6.1
26	–5.9	–9.5	–7.6	–5.5	–9.3	–7.4	–4.8	–9.3	–6.9
27	–9.2	–15.6	–12.0	–9.1	–15.3	–11.8	–8.6	–14.9	–11.5
28	–6.1	–17.8	–12.9	–5.8	–18.0	–13.0	–5.8	–16.8	–11.4
29	3.0	–19.8	–8.4	2.9	–20.4	–8.0	2.7	–16.4	–6.1
30	3.2	–9.6	–2.5	4.5	–5.7	–1.8	4.2	–5.4	–.9
31	–1.5	–13.5	–6.0	–1.1	–13.1	–5.3	–1.2	–11.2	–5.0
Month	**16.7**	**–21.0**	**–4.2**	**16.9**	**–20.4**	**–3.8**	**18.1**	**–19.1**	**–3.1**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				February					
1	3.0	–16.0	–7.6	4.4	–16.4	–6.7	3.8	–13.7	–5.9
2	2.7	–14.5	–5.5	3.8	–13.8	–4.8	3.4	–12.1	–3.9
3	3.4	–9.4	–2.1	4.0	–7.8	–1.7	3.7	–5.8	–.9
4	2.1	–3.1	.5	2.0	–2.5	.6	2.6	–2.2	1.0
5	11.5	–5.0	1.8	12.0	–4.8	2.2	12.7	–1.9	3.5
6	6.6	–4.6	.7	8.2	–3.6	1.5	7.1	–3.5	2.3
7	11.2	–6.5	.4	11.6	–5.6	1.5	12.1	–5.0	2.0
8	10.0	–3.7	2.0	11.2	–3.2	3.3	11.5	–1.4	5.2
9	10.2	–1.4	4.3	11.1	–.8	5.0	11.0	1.1	6.5
10	4.0	.0	2.5	4.2	–.3	2.3	5.7	.6	3.0
11	.0	–4.7	–2.6	–.1	–4.7	–2.4	.8	–3.5	–1.6
12	4.1	–7.2	–1.6	3.1	–4.5	–1.0	3.9	–3.1	.1
13	2.7	–5.3	–1.4	2.4	–5.1	–1.5	2.7	–4.5	–.6
14	4.2	–9.3	–1.6	3.9	–8.7	–1.6	4.8	–7.0	–.5
15	10.4	–.3	5.8	10.2	.9	6.2	10.5	2.5	7.3
16	12.7	–1.1	5.1	12.4	–1.0	5.1	13.0	.9	6.6
17	3.9	–2.4	.9	3.7	–2.4	.9	4.3	–1.0	1.6
18	1.1	–8.3	–3.2	–.4	–8.3	–3.4	.2	–7.1	–2.7
19	–2.5	–11.4	–7.4	–2.8	–11.4	–7.5	–2.5	–10.8	–6.6
20	–.9	–7.8	–4.5	–1.2	–8.0	–4.7	–1.0	–6.4	–4.0
21	–.4	–6.2	–2.8	–.5	–5.3	–2.8	.5	–4.9	–2.0
22	–.1	–5.6	–3.0	.0	–5.4	–3.0	.1	–5.2	–2.6
23	2.3	–5.4	–1.4	2.0	–5.9	–1.3	2.2	–4.6	–.5
24	–2.8	–10.9	–6.5	–3.2	–11.2	–6.5	–3.5	–9.8	–5.9
25	–1.9	–11.4	–5.7	–2.4	–9.1	–5.5	–1.3	–7.5	–4.8
26	1.1	–17.1	–6.3	.5	–16.0	–5.8	1.3	–10.5	–3.7
27	1.0	–9.8	–4.6	.6	–8.4	–4.2	.9	–7.2	–3.0
28	1.1	–11.4	–3.8	1.2	–10.4	–3.7	1.6	–6.8	–2.0
Month	**12.7**	**–17.1**	**–1.7**	**12.4**	**–16.4**	**–1.4**	**13.0**	**–13.7**	**–.4**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				March					
1	–1.0	–4.3	–2.4	–0.9	–4.3	–2.4	–0.5	–3.7	–1.7
2	1.2	–5.7	–2.7	.8	–5.0	–2.4	1.1	–4.4	–1.9
3	–1.6	–8.8	–5.0	–2.0	–7.5	–4.9	–1.6	–6.6	–4.2
4	1.2	–14.4	–5.9	.0	–14.9	–5.4	.6	–8.8	–3.8
5	5.4	–11.0	–2.5	5.2	–7.0	–.8	5.3	–5.9	–.3
6	6.1	–7.7	.5	5.8	–5.5	1.3	5.9	–2.7	2.0
7	9.8	–.7	5.5	9.7	1.8	6.0	10.2	2.5	6.5
8	7.1	–9.8	.6	7.2	–9.6	.9	8.1	–8.5	1.8
9	–5.1	–12.8	–8.7	–5.6	–12.6	–8.6	–4.9	–11.6	–7.8
10	–.7	–16.4	–8.4	–1.2	–14.1	–7.3	–.8	–10.3	–5.6
11	1.1	–12.7	–4.0	.5	–11.2	–3.9	1.4	–7.9	–2.1
12	.7	–1.2	.3	.7	–1.3	.1	1.5	–.6	.7
13	4.2	–5.3	–.3	4.2	–5.2	–.1	4.3	–2.5	.6
14	5.1	–4.7	.3	4.3	–4.5	.1	4.8	–3.5	.9
15	7.3	–2.3	2.1	7.1	–2.2	2.0	7.4	–1.1	2.7
16	6.5	–2.8	1.8	6.0	–2.2	1.9	6.5	–.5	2.8
17	7.5	–6.5	.4	7.3	–6.4	.6	7.4	–2.6	2.0
18	6.5	–4.6	1.2	6.1	–4.2	1.0	6.6	–2.5	2.2
19	8.6	–4.2	1.6	8.0	–2.6	1.9	8.7	–1.4	3.3
20	10.6	–5.5	2.9	9.2	–5.3	2.7	9.9	–1.9	4.6
21	6.2	–2.9	2.6	6.9	–2.1	2.9	6.3	–.6	3.7
22	12.4	–3.3	4.0	11.8	–2.8	4.9	12.3	–1.2	6.4
23	6.0	–1.4	2.7	6.3	–1.0	2.8	7.1	.8	4.0
24	4.6	–2.4	1.0	4.6	–2.1	1.3	5.5	–1.1	2.0
25	9.5	–2.4	4.3	8.4	–2.2	3.7	8.8	–.2	4.7
26	5.6	–2.9	1.3	5.6	–2.1	1.3	4.9	–1.6	1.8
27	11.6	–4.1	3.8	11.2	–4.5	3.5	11.5	–2.0	4.7
28	5.4	.9	3.5	5.6	1.1	3.6	6.3	2.3	4.3
29	10.3	3.6	6.7	10.7	3.4	6.3	11.0	4.2	7.5
30	13.2	.7	6.5	12.6	1.0	6.1	11.4	2.1	7.0
31	10.0	–.3	5.0	9.6	–.6	5.0	9.4	1.2	5.7
Month	**13.2**	**–16.4**	**.60**	**12.6**	**–14.9**	**.8**	**12.3**	**–11.6**	**1.8**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				April					
1	13.7	3.2	7.2	13.0	3.4	7.3	11.2	4.0	7.4
2	10.2	3.0	5.9	10.7	3.1	6.0	10.5	3.4	6.3
3	12.5	5.4	9.2	12.2	5.4	9.2	12.7	6.5	10.0
4	11.6	3.5	6.8	10.6	3.6	6.7	11.0	4.5	7.3
5	17.1	.2	9.0	16.4	1.1	9.0	16.9	3.2	9.7
6	19.8	2.8	11.1	19.7	4.4	11.5	17.6	6.0	11.7
7	20.0	6.3	13.2	21.3	7.3	13.4	19.1	8.0	12.6
8	15.2	6.6	10.7	16.2	6.1	10.8	14.2	7.4	11.2
9	14.9	2.7	9.0	14.5	3.5	8.7	12.8	5.3	9.1
10	21.1	.1	11.6	20.7	1.0	11.6	21.2	3.1	12.6
11	11.8	3.7	6.9	11.9	4.2	6.6	13.4	4.8	7.0
12	10.3	–.8	3.6	9.7	–.3	3.2	9.4	.3	3.8
13	10.9	–1.6	4.3	11.7	–.3	4.6	10.7	.5	5.0
14	13.0	.4	7.2	11.8	1.5	7.0	11.8	4.1	7.8
15	11.2	–.6	5.7	9.5	.8	5.8	10.4	1.9	6.2
16	14.2	–2.3	6.3	13.4	–1.2	6.6	13.0	.9	7.4
17	23.9	–.9	11.7	23.9	.2	12.1	24.5	2.9	12.7
18	21.4	6.2	14.1	21.0	8.1	14.4	21.4	11.2	16.1
19	25.3	2.0	14.7	25.4	4.0	15.5	25.4	6.6	16.6
20	30.3	10.4	20.9	29.0	11.0	21.7	29.9	11.5	22.0
21	14.4	3.9	10.1	14.2	5.2	9.7	14.4	5.9	10.4
22	17.0	–.7	8.7	16.5	.9	8.9	16.3	3.3	9.9
23	14.9	5.8	10.6	15.8	6.4	11.0	16.8	6.9	11.8
24	17.0	5.1	13.2	16.2	6.0	13.1	16.8	7.7	13.7
25	10.9	3.5	7.4	11.2	4.9	7.8	10.9	5.3	8.5
26	20.9	1.4	11.7	20.3	2.8	12.2	21.1	5.3	13.2
27	12.5	9.6	11.3	12.5	9.8	11.3	13.6	9.6	11.5
28	15.9	7.9	11.1	15.1	8.0	11.0	15.7	8.4	11.4
29	17.6	3.6	11.3	17.6	5.3	11.2	18.1	5.9	11.8
30	13.6	8.1	11.6	13.4	8.5	11.5	14.3	9.5	12.2
Month	**30.3**	**–2.3**	**9.9**	**29.0**	**–1.2**	**10.0**	**29.9**	**.3**	**10.6**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				May					
1	14.2	6.6	12.3	14.1	8.8	12.6	14.7	9.5	13.4
2	17.4	3.1	10.5	16.6	5.8	11.1	17.2	6.2	11.8
3	15.1	3.8	9.4	13.8	4.6	9.5	14.3	5.6	10.3
4	14.7	2.6	9.8	13.3	4.5	10.0	13.7	6.0	10.9
5	15.7	.6	9.3	14.5	3.0	9.6	14.7	3.8	10.5
6	13.2	2.6	8.8	12.8	3.3	8.8	13.1	5.3	9.6
7	9.8	5.6	7.0	9.3	5.5	6.6	9.7	5.9	7.1
8	10.4	6.0	8.3	10.1	5.8	8.0	10.5	5.9	8.3
9	14.1	8.3	10.4	13.6	7.9	10.0	13.6	8.3	10.2
10	19.6	9.6	13.5	18.7	9.7	13.3	19.5	10.5	13.8
11	26.5	8.0	16.7	25.0	7.9	16.1	26.6	9.7	17.2
12	16.7	7.0	13.1	16.0	7.9	12.8	17.6	8.8	13.6
13	17.9	–.1	10.1	17.7	2.2	9.9	17.8	3.8	11.1
14	19.3	6.9	13.4	18.8	7.6	13.2	18.4	9.6	13.9
15	16.3	7.1	12.0	15.6	7.1	11.8	15.9	7.3	11.5
16	15.4	6.4	9.7	15.6	6.3	9.5	14.5	6.6	9.6
17	18.6	9.5	13.1	17.9	9.6	12.8	18.2	10.3	13.0
18	15.5	8.6	10.8	14.7	9.0	10.8	15.5	9.0	10.5
19	17.3	6.3	11.9	17.7	7.3	11.9	17.6	7.9	12.6
20	20.1	6.3	13.3	19.4	7.1	13.1	19.7	8.7	14.2
21	12.9	7.5	9.9	12.8	7.5	9.6	12.5	8.5	10.1
22	12.8	7.4	9.9	12.6	7.6	9.8	13.2	8.0	10.2
23	11.1	7.5	9.1	10.8	7.6	8.8	11.4	7.8	9.2
24	8.8	6.9	7.8	8.3	6.5	7.3	8.7	6.9	7.8
25	10.2	6.6	8.1	9.5	6.0	7.4	9.9	6.6	7.9
26	11.6	8.8	10.0	11.3	8.0	9.5	12.1	8.2	9.9
27	18.7	10.7	13.9	18.1	10.6	13.6	18.1	11.0	14.0
28	25.4	10.9	17.7	24.9	10.4	17.6	25.9	12.1	18.7
29	22.8	12.9	15.9	21.7	12.4	15.4	22.0	13.4	15.9
30	22.9	11.7	16.1	21.8	11.6	15.8	22.5	12.6	16.6
31	14.2	11.1	12.8	14.1	10.8	12.4	14.5	11.1	12.7
Month	**26.5**	**–.1**	**11.4**	**25.0**	**2.2**	**11.2**	**26.6**	**3.8**	**11.8**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June					
1	18.8	9.2	13.7	18.5	9.2	13.6	17.8	10.3	13.9
2	25.2	10.5	16.9	24.4	10.3	16.4	25.6	10.9	17.2
3	25.4	10.6	18.1	24.9	10.6	18.0	26.1	11.2	18.7
4	29.1	14.2	21.6	29.5	14.4	21.7	29.7	15.8	22.5
5	31.2	15.6	23.7	30.7	15.9	23.5	31.0	16.9	24.5
6	22.6	12.4	16.2	22.6	11.9	15.9	21.2	12.3	15.7
7	29.8	17.3	23.4	30.3	18.0	24.1	31.1	19.4	25.0
8	30.4	14.8	23.2	31.9	15.7	23.7	32.3	18.7	25.2
9	26.1	17.5	21.8	25.7	17.8	21.7	25.3	18.9	21.8
10	28.3	17.1	23.2	27.6	17.2	23.3	28.6	18.0	24.4
11	30.8	20.8	25.4	31.4	20.7	25.6	32.5	21.3	26.5
12	29.9	21.1	25.3	30.3	21.0	25.5	31.8	22.0	26.5
13	31.4	22.5	26.3	31.9	22.7	26.7	31.8	23.8	27.6
14	26.0	12.6	19.6	25.7	12.7	20.0	26.5	12.5	20.1
15	12.9	9.9	10.9	12.8	9.4	10.4	13.4	9.9	10.9
16	16.7	9.7	12.6	16.4	9.7	12.2	15.9	10.0	12.4
17	22.4	10.9	15.0	22.1	10.8	14.5	22.8	11.0	14.5
18	19.9	13.1	15.3	19.9	12.5	14.8	19.0	12.5	14.9
19	17.2	10.0	14.3	18.4	10.1	14.1	17.8	11.9	14.6
20	25.0	8.2	17.3	26.0	9.1	17.1	25.5	9.8	17.9
21	27.8	12.1	20.3	27.8	11.5	20.7	28.7	13.2	21.7
22	22.0	16.4	19.0	22.4	15.9	19.2	23.3	17.4	20.0
23	23.6	9.6	18.1	24.4	11.1	18.0	24.7	12.5	19.0
24	28.7	12.5	21.7	29.0	13.3	22.1	29.9	15.5	23.1
25	32.9	17.9	25.2	32.6	18.6	26.0	34.0	19.5	27.0
26	33.6	20.2	26.6	34.1	20.3	26.7	35.4	22.3	27.9
27	31.3	19.6	25.2	30.8	20.5	25.3	29.5	22.4	25.4
28	26.4	22.5	23.9	26.4	22.5	23.9	28.4	23.8	25.1
29	29.0	21.2	23.9	29.0	21.0	23.9	29.6	22.5	25.0
30	27.6	18.5	23.0	26.1	18.5	22.5	26.9	18.4	23.4
Month	**33.6**	**8.2**	**20.4**	**34.1**	**9.1**	**20.4**	**35.4**	**9.8**	**21.1**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				July					
1	24.9	16.9	20.3	24.8	16.6	20.0	24.6	16.9	20.2
2	26.6	17.7	22.9	25.4	17.8	22.6	26.2	20.7	23.8
3	25.7	12.4	20.1	25.6	13.0	20.1	25.9	14.8	21.2
4	27.5	12.3	19.7	27.0	13.0	20.4	26.3	15.0	21.1
5	29.4	13.1	22.2	29.1	13.8	22.5	30.6	16.0	23.7
6	22.8	16.2	19.8	22.7	15.6	19.5	23.3	16.0	20.2
7	18.5	15.4	16.9	18.6	15.0	16.4	18.4	15.9	17.0
8	16.7	13.5	15.5	16.4	12.9	14.9	17.0	13.4	15.4
9	24.4	13.0	17.6	24.3	12.9	17.3	25.7	13.4	18.1
10	30.5	16.4	23.0	30.0	17.0	23.2	31.2	17.8	24.3
11	31.7	20.1	26.4	30.4	21.2	26.1	31.7	21.6	27.5
12	24.9	17.2	21.2	24.0	17.1	20.8	23.6	18.0	21.1
13	25.5	16.0	21.0	25.3	15.9	20.7	26.5	17.1	21.9
14	28.2	18.6	23.4	28.4	18.6	23.4	29.8	19.8	24.6
15	28.6	19.6	24.0	28.0	19.9	23.8	28.6	22.1	24.7
16	28.5	18.4	23.3	29.0	18.7	23.4	31.4	20.3	25.3
17	27.5	20.2	23.3	27.3	20.7	23.7	30.2	21.7	25.1
18	29.0	21.9	24.6	29.5	23.1	25.2	30.7	24.2	26.3
19	31.6	21.7	25.8	32.2	23.2	26.6	33.3	24.5	28.0
20	30.9	20.1	25.6	30.2	21.5	25.9	31.2	23.0	27.5
21	29.1	18.3	23.8	29.2	19.1	24.3	30.5	22.0	26.0
22	31.3	18.3	25.0	31.9	18.8	25.4	32.5	20.9	26.9
23	27.1	17.7	22.8	26.5	19.0	22.6	27.2	20.4	23.7
24	26.8	14.9	20.9	28.0	16.1	21.5	28.1	18.3	22.7
25	27.2	17.4	22.9	28.8	19.2	23.9	29.3	21.0	25.1
26	31.4	18.4	25.0	33.0	19.1	26.5	34.0	21.3	27.9
27	33.3	20.6	27.0	33.4	20.8	27.6	35.2	21.8	28.9
28	23.9	14.5	20.4	23.6	15.6	20.6	23.6	18.0	21.2
29	26.6	12.7	20.2	27.7	13.5	21.3	28.1	15.7	22.5
30	26.6	17.5	21.4	26.4	18.5	21.8	26.2	19.7	22.4
31	21.5	16.6	19.4	21.6	17.3	19.5	21.7	19.1	20.3
Month	**33.3**	**12.3**	**22.1**	**33.4**	**12.9**	**22.3**	**35.2**	**13.4**	**23.4**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				August					
1	27.2	18.0	21.5	27.7	18.2	22.2	29.1	18.9	23.1
2	29.5	18.7	23.7	29.8	18.2	23.9	30.3	19.0	25.0
3	30.1	18.7	24.3	29.6	20.6	24.8	29.2	21.9	25.4
4	28.9	18.9	24.0	28.9	19.0	23.9	28.1	20.7	24.4
5	32.3	21.1	25.3	32.7	21.0	25.1	34.5	22.2	26.2
6	27.6	17.3	23.0	28.5	18.3	22.8	27.6	20.5	24.0
7	28.4	16.1	22.3	29.0	16.2	23.0	30.2	18.1	24.2
8	31.6	18.1	24.7	32.0	18.5	24.7	32.8	19.9	26.0
9	29.0	21.1	24.4	29.1	21.3	24.7	30.7	22.8	25.9
10	30.6	20.1	24.8	30.6	20.5	25.2	32.3	22.0	26.4
11	31.0	20.6	25.5	30.7	20.5	25.3	31.7	22.1	26.0
12	29.2	21.4	24.7	28.7	21.4	24.9	28.2	22.1	25.2
13	32.6	22.8	27.3	32.8	23.7	27.8	33.7	25.2	28.9
14	32.0	19.1	24.5	31.2	19.3	24.3	31.9	19.9	25.3
15	20.4	16.0	19.1	20.2	16.3	18.7	20.9	17.7	19.4
16	24.5	14.2	19.7	24.7	14.0	19.5	24.2	15.4	20.0
17	28.4	17.7	22.7	27.0	17.2	22.3	27.8	19.0	23.6
18	24.2	15.1	19.8	24.7	15.2	19.8	25.9	16.4	21.1
19	25.3	14.3	19.8	24.9	14.6	19.9	24.4	16.5	20.7
20	26.1	18.9	22.2	25.9	18.6	22.1	25.8	19.3	22.1
21	29.7	20.2	23.9	29.7	20.9	24.5	31.7	21.8	25.7
22	28.2	18.0	22.5	27.7	18.0	23.1	28.2	20.6	24.4
23	25.6	14.9	19.7	24.7	15.6	19.9	25.4	17.2	21.2
24	24.0	15.6	19.3	22.8	16.0	19.1	24.1	17.3	20.3
25	25.3	14.4	19.3	25.3	14.2	19.2	25.9	15.7	20.1
26	27.3	13.1	19.8	28.9	13.9	20.7	29.9	16.0	22.1
27	27.5	14.0	20.9	27.8	14.4	21.4	29.2	17.0	23.0
28	28.1	17.5	22.2	28.0	17.1	22.8	29.9	19.5	24.5
29	28.9	21.9	24.0	29.3	21.4	23.9	30.8	21.9	25.0
30	23.1	21.6	22.2	22.9	21.1	21.8	23.5	21.9	22.7
31	27.3	22.2	24.6	26.9	21.9	24.3	28.2	23.0	25.6
Month	**32.6**	**13.1**	**22.6**	**32.8**	**13.9**	**22.8**	**34.5**	**15.4**	**23.8**

Table 12. Daily, monthly, and annual statistics for air temperature for U.S. Geological Survey stations 01104430, Cambridge Reservoir near Kendal Green; 01104480, Stony Brook Reservoir in Waltham; and 422302071083801, Fresh Pond Reservoir at Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated]

Month and date	Cambridge Reservoir near Kendal Green (01104430)			Stony Brook Reservoir at dam near Waltham (01104480)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				September					
1	27.8	18.3	22.7	27.1	19.2	23.0	27.9	20.4	24.0
2	28.0	15.9	21.7	28.4	15.9	22.3	28.9	17.7	23.7
3	26.2	15.9	21.0	25.7	17.2	21.3	26.5	19.1	22.6
4	25.9	15.0	19.4	24.6	14.8	19.3	24.7	17.4	20.6
5	23.1	12.1	17.7	23.0	12.5	17.7	23.2	15.2	18.9
6	25.0	11.0	17.8	24.6	12.0	18.0	25.2	12.6	19.0
7	27.4	12.3	19.7	28.8	12.5	20.2	29.7	14.6	21.4
8	28.0	13.8	21.1	28.9	14.1	21.5	30.1	15.9	22.8
9	23.7	15.0	19.6	23.4	16.1	19.8	23.5	17.9	20.7
10	21.4	11.0	16.3	21.6	11.4	16.4	22.0	13.5	17.6
11	22.5	8.4	16.1	23.8	9.2	16.2	24.8	11.3	17.8
12	30.7	16.0	22.8	30.7	16.1	23.4	31.4	17.3	24.2
13	29.0	18.4	22.9	27.8	18.6	22.9	26.9	19.8	23.2
14	29.4	19.3	23.7	30.4	19.2	23.8	31.2	20.0	24.7
15	23.6	21.0	22.1	23.7	20.0	21.9	24.6	20.7	22.8
16	21.4	18.0	19.9	21.0	17.6	19.3	22.0	18.1	20.0
17	21.3	17.2	18.8	20.8	16.8	18.3	21.0	17.4	18.9
18	23.6	15.2	19.7	23.3	15.6	19.5	23.6	17.2	20.5
19	26.1	13.7	19.0	26.8	13.4	19.5	28.0	14.9	21.1
20	24.1	15.2	20.0	24.0	15.3	20.0	24.8	17.6	21.5
21	24.9	13.3	19.2	25.4	15.6	19.9	26.5	17.2	21.2
22	27.8	13.3	20.8	28.2	13.5	21.3	29.4	15.3	22.5
23	25.9	15.4	20.6	24.9	15.8	20.6	26.3	16.7	21.5
24	19.0	8.2	13.4	19.2	8.4	13.9	19.1	10.7	15.2
25	18.3	6.4	13.4	19.0	6.0	13.8	19.5	7.6	15.1
26	22.5	16.5	19.9	22.6	16.4	20.0	23.6	17.5	20.8
27	20.8	9.3	17.8	20.6	11.3	17.9	21.6	13.2	19.0
28	20.9	6.9	14.0	22.2	7.8	14.7	22.2	9.2	15.8
29	23.2	8.7	15.2	23.2	9.7	15.2	24.7	11.2	17.0
30	15.9	6.2	10.3	17.0	7.1	10.9	18.0	8.6	12.5
Month	**30.7**	**6.2**	**18.9**	**30.7**	**6.0**	**19.1**	**31.4**	**7.6**	**20.2**
Year	**33.6**	**–21.0**	**9.8**	**34.1**	**–20.4**	**10.0**	**35.4**	**–19.1**	**10.8**
Remarks		Good			Good			Good	

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
October																					
1	15.8	13.7	14.7	19.5	18.6	19.1	17.2	15.0	16.0	16.2	15.1	15.4	16.1	14.2	15.1	17.7	14.7	16.0	20.8	20.3	20.5
2	15.5	13.9	14.6	19.2	18.7	18.9	16.5	15.0	15.6	17.1	14.9	15.2	15.5	14.6	15.1	16.2	15.0	15.6	20.5	20.2	20.4
3	15.4	12.4	14.2	19.2	18.2	18.7	16.4	13.3	15.4	16.0	14.2	14.8	15.9	13.8	15.1	16.2	14.2	15.2	20.5	19.9	20.2
4	14.4	11.4	12.9	18.8	18.1	18.4	16.2	12.2	14.1	14.6	13.8	14.2	14.9	12.3	13.7	15.9	12.7	14.3	20.4	19.8	20.1
5	13.6	10.6	12.4	18.2	17.2	17.8	14.6	11.5	13.5	14.4	13.4	13.9	14.3	12.4	13.6	14.9	12.3	13.5	20.1	19.3	19.6
6	12.3	9.2	10.7	17.8	16.9	17.3	14.2	9.8	11.9	13.8	13.0	13.4	12.7	10.5	11.7	13.4	10.6	12.1	19.6	19.1	19.3
7	13.6	10.3	11.8	17.7	16.6	17.1	16.0	11.1	13.3	14.1	13.2	13.6	13.3	10.6	11.9	14.4	11.2	12.8	19.5	19.0	19.2
8	14.6	11.4	13.0	17.6	16.8	17.2	17.0	12.3	14.5	14.2	13.4	13.8	14.5	11.6	12.9	15.2	12.5	13.8	19.6	18.8	19.2
9	15.1	13.0	14.0	17.4	17.1	17.2	17.0	14.2	15.4	14.2	13.8	14.0	15.8	13.6	14.6	15.5	14.0	14.7	19.4	19.0	19.2
10	14.3	12.9	13.9	17.6	17.0	17.3	15.9	13.9	15.2	14.1	13.7	14.0	15.8	14.7	15.2	15.0	13.7	14.6	19.3	18.6	19.0
11	13.5	12.1	12.7	17.5	16.7	17.1	15.0	12.9	13.8	13.7	13.4	13.6	15.3	13.6	14.4	14.0	12.8	13.4	18.9	18.3	18.6
12	12.4	11.3	11.8	16.7	16.1	16.4	14.3	12.0	12.9	13.5	13.1	13.4	13.6	12.0	12.6	13.1	12.1	12.6	18.3	17.8	18.1
13	12.7	10.2	11.5	16.4	15.6	16.0	15.1	10.3	12.6	13.6	12.9	13.2	13.4	10.6	12.0	13.4	11.1	12.3	18.6	17.5	18.0
14	12.5	10.3	11.5	16.3	15.5	15.9	14.0	10.7	12.5	13.6	13.0	13.3	12.6	10.5	11.6	13.1	11.4	12.4	17.9	17.6	17.8
15	14.1	12.3	12.8	16.2	15.8	15.9	15.1	13.5	14.4	15.2	13.5	14.0	13.9	12.6	13.2	13.7	13.0	13.3	17.6	17.5	17.6
16	14.1	12.5	13.6	15.9	15.6	15.8	15.0	13.2	14.3	15.4	13.8	14.5	14.4	13.3	13.8	14.4	13.3	13.8	17.7	17.3	17.5
17	12.5	11.0	11.9	15.7	15.3	15.5	13.8	11.5	12.6	13.8	13.3	13.5	13.3	11.9	12.6	13.3	11.9	12.6	17.4	16.8	17.2
18	11.7	9.9	10.7	15.4	14.7	15.0	13.5	10.1	11.6	13.3	13.0	13.2	12.1	10.7	11.4	12.2	10.8	11.6	16.8	16.5	16.6
19	11.2	10.4	10.9	14.8	14.2	14.5	13.0	11.0	11.9	13.1	11.4	12.5	11.0	10.6	10.7	11.6	10.9	11.3	16.6	16.1	16.4
20	11.1	9.4	10.4	14.3	13.5	13.9	12.4	10.2	11.3	13.3	12.9	13.1	10.8	9.9	10.4	11.2	10.3	10.7	16.2	15.7	16.0
21	10.4	9.3	9.8	13.6	13.1	13.4	11.7	9.9	10.6	13.2	12.8	13.0	10.0	9.2	9.7	10.6	9.8	10.2	15.8	15.4	15.6
22	10.4	9.7	10.0	13.2	12.5	12.9	11.4	10.2	10.7	13.2	12.8	13.0	10.0	9.3	9.6	10.5	9.9	10.2	15.4	15.0	15.2
23	10.1	9.3	9.6	12.6	11.9	12.3	11.0	9.7	10.3	13.0	12.7	12.8	9.5	8.9	9.2	10.1	9.4	9.8	15.0	14.6	14.8
24	10.2	9.6	9.9	12.0	11.7	11.9	11.1	10.0	10.5	13.0	12.8	12.9	9.6	8.9	9.2	10.1	9.6	9.8	14.6	14.3	14.4
25	10.9	9.7	10.2	12.0	11.7	11.8	12.1	10.1	10.9	13.3	12.8	12.9	10.2	9.1	9.6	10.5	9.6	10.1	14.5	14.2	14.3
26	10.8	8.9	9.8	12.3	11.5	11.8	12.3	9.0	10.6	12.9	12.4	12.7	10.4	8.7	9.6	10.8	8.9	9.9	14.4	13.9	14.1
27	10.8	8.1	9.5	12.1	11.6	11.8	12.7	8.3	10.3	13.0	12.2	12.6	10.2	8.0	9.1	11.1	9.2	10.1	14.3	13.8	14.0
28	9.8	7.9	8.9	11.9	11.3	11.6	11.3	8.0	9.6	12.8	12.1	12.5	9.8	8.0	8.9	10.3	8.7	9.4	14.0	13.6	13.8
29	10.2	7.6	8.9	11.5	11.2	11.4	11.8	7.3	9.3	12.9	12.1	12.5	9.7	7.4	8.4	10.3	8.5	9.4	13.8	13.4	13.6
30	11.4	8.5	9.6	11.4	11.1	11.2	12.8	8.8	10.4	13.1	12.4	12.7	10.3	8.3	9.0	11.2	9.2	9.9	13.6	13.4	13.5
31	13.4	11.4	12.3	11.5	11.2	11.3	15.6	12.0	13.8	13.3	13.1	13.2	12.6	10.3	11.4	12.7	11.2	11.9	14.1	13.5	13.7
Month	**15.8**	**7.6**	**11.6**	**19.5**	**11.1**	**15.0**	**17.2**	**7.3**	**12.6**	**17.1**	**11.4**	**13.5**	**16.1**	**7.4**	**11.8**	**17.7**	**8.5**	**12.2**	**20.8**	**13.4**	**17.0**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
November																					
1	12.0	9.7	11.1	11.9	11.2	11.5	13.1	9.0	11.4	13.1	12.5	12.8	12.0	10.1	11.1	11.6	10.1	11.0	13.7	13.2	13.4
2	10.2	8.2	9.3	11.6	11.2	11.4	10.6	7.1	9.2	12.7	12.1	12.4	10.1	8.8	9.6	10.6	9.0	10.0	13.4	13.2	13.3
3	10.9	8.3	10.1	11.8	11.1	11.4	12.1	7.3	10.5	12.9	12.1	12.6	11.1	9.0	10.2	10.8	8.8	10.2	13.2	12.8	13.0
4	9.4	6.8	8.0	11.2	10.7	10.9	11.3	5.3	7.7	12.5	9.4	11.6	9.0	7.5	8.5	9.4	7.5	8.7	13.0	12.6	12.8
5	9.4	7.4	8.6	10.9	10.4	10.7	10.6	6.9	8.9	12.1	9.7	11.6	9.4	7.9	8.8	9.5	8.0	8.9	12.7	12.0	12.4
6	9.3	7.0	8.2	10.5	10.1	10.2	9.8	6.6	8.2	12.3	11.6	11.9	8.4	7.2	7.9	9.0	7.4	8.2	12.2	11.9	12.0
7	10.9	7.9	9.5	10.2	9.9	10.0	12.0	7.5	9.8	12.7	12.1	12.4	9.7	7.5	8.6	10.3	7.9	9.2	12.2	11.7	12.0
8	10.5	7.5	9.1	10.3	9.7	10.0	10.8	6.6	8.9	12.7	11.9	12.3	9.6	7.7	8.9	10.3	7.8	9.0	12.1	11.5	11.8
9	7.5	5.0	6.3	9.8	9.1	9.5	7.0	3.5	5.4	12.1	11.3	11.6	7.7	5.3	6.6	7.8	5.6	6.7	11.5	10.9	11.2
10	6.6	3.6	5.1	9.1	8.6	8.8	5.9	2.0	4.0	11.5	10.9	11.2	6.0	4.2	5.1	6.4	4.3	5.4	11.2	10.6	10.9
11	8.2	5.4	6.8	8.7	8.4	8.5	8.4	4.1	6.3	12.1	11.4	11.7	7.2	5.0	6.0	8.0	5.4	6.7	10.7	10.4	10.6
12	7.1	4.3	5.9	8.4	7.6	8.0	6.8	3.7	5.4	12.1	8.4	10.7	6.5	4.7	5.9	6.9	4.6	6.0	10.4	9.9	10.2
13	4.4	2.7	3.6	7.6	6.6	7.1	6.3	2.6	4.2	10.4	7.2	9.1	4.7	3.1	3.8	4.7	3.0	3.9	9.9	9.2	9.6
14	5.0	2.4	3.8	6.8	6.3	6.6	6.2	1.7	4.0	11.0	10.1	10.6	4.3	2.2	3.3	5.3	2.9	4.2	9.4	9.0	9.2
15	6.6	3.4	4.8	7.0	6.3	6.6	8.2	3.2	5.4	11.3	10.6	10.9	5.4	3.0	4.0	6.3	4.0	5.1	9.4	9.0	9.2
16	6.4	4.3	5.3	6.6	6.4	6.5	7.6	4.8	6.1	11.3	10.6	10.9	5.2	3.9	4.5	6.2	4.6	5.4	9.3	9.0	9.1
17	7.2	4.7	6.0	6.6	6.3	6.4	8.8	4.5	6.5	11.3	10.7	11.0	5.8	4.0	4.8	6.6	4.6	5.7	9.3	8.8	9.1
18	8.9	6.6	7.7	6.5	6.3	6.4	10.3	7.0	8.5	12.1	11.3	11.7	6.8	5.2	6.0	8.0	6.3	7.2	9.2	9.0	9.1
19	10.1	6.9	8.7	7.0	6.3	6.6	11.2	4.3	9.1	12.4	11.6	12.0	8.0	6.2	6.9	—	—	—	9.4	9.1	9.3
20	8.0	5.8	7.0	6.8	6.5	6.6	8.5	5.0	6.9	12.0	9.3	11.5	6.5	5.0	5.8	—	—	—	9.2	9.0	9.1
21	8.2	7.4	7.8	6.8	6.6	6.6	8.9	7.8	8.7	11.9	9.8	11.3	6.7	6.1	6.4	—	—	—	9.1	8.9	9.0
22	8.7	6.4	7.9	7.8	6.5	6.7	9.2	5.9	7.8	13.4	11.5	11.8	7.2	5.8	6.6	—	—	—	9.0	8.8	8.9
23	7.5	5.0	6.2	6.8	6.3	6.5	8.3	4.0	6.0	11.8	11.1	11.5	6.0	4.4	5.2	7.6	5.6	6.5	8.9	8.6	8.8
24	9.6	6.0	7.8	7.1	6.4	6.7	11.0	5.3	7.7	12.1	11.2	11.7	8.0	4.6	5.7	9.0	6.4	7.6	8.9	8.6	8.8
25	12.4	8.8	11.2	7.3	6.9	7.1	13.2	10.2	12.0	14.0	11.6	12.8	10.3	7.3	9.2	11.3	8.4	10.1	9.4	8.7	9.0
26	8.8	4.6	6.2	7.0	6.5	6.7	10.2	4.6	7.2	11.6	10.7	11.0	8.4	4.2	6.0	8.4	5.5	6.6	9.0	8.4	8.7
27	6.8	3.9	5.4	6.8	6.2	6.5	7.8	3.6	5.6	11.5	10.5	11.0	4.8	3.1	4.1	6.6	4.5	5.6	8.6	8.3	8.4
28	10.3	6.0	7.8	7.1	6.4	6.7	10.8	5.8	8.1	12.3	10.5	11.2	8.9	4.3	5.8	9.0	5.4	6.9	8.4	8.3	8.3
29	9.1	6.2	7.4	7.0	6.4	6.7	10.3	7.1	8.5	10.8	9.8	10.3	7.6	5.1	6.0	8.1	5.8	6.9	8.4	8.1	8.3
30	8.0	6.1	7.0	6.9	6.4	6.6	9.4	7.0	7.9	11.1	10.2	10.7	5.9	4.6	5.3	7.3	5.5	6.3	8.4	8.0	8.2
Month	**12.4**	**2.4**	**7.3**	**11.9**	**6.2**	**8.0**	**13.2**	**1.7**	**7.5**	**14.0**	**7.2**	**11.5**	**12.0**	**2.2**	**6.6**	**e11.6**	**e2.9**	**e7.2**	**13.7**	**8.0**	**10.1**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
										December											
1	10.0	7.2	8.2	7.2	6.5	6.8	10.7	7.8	9.1	11.6	9.6	10.8	7.6	5.5	6.4	8.8	6.6	7.5	8.3	8.0	8.2
2	7.7	6.1	6.8	6.8	6.2	6.4	9.2	6.8	7.9	10.6	9.8	10.2	6.1	4.8	5.3	7.0	5.6	6.2	8.0	7.8	7.9
3	7.6	5.8	6.6	6.6	6.0	6.3	8.8	6.3	7.3	10.7	10.0	10.4	5.2	4.1	4.7	6.8	5.0	5.8	8.0	7.7	7.8
4	6.3	4.9	5.5	6.2	5.6	5.9	7.3	5.2	6.0	10.3	9.8	10.0	4.6	3.4	3.8	5.7	4.2	5.0	7.8	7.5	7.6
5	7.2	4.7	6.0	6.2	5.2	5.8	8.4	4.6	6.5	10.6	9.9	10.3	4.8	3.4	4.0	6.2	4.5	5.3	7.5	7.0	7.3
6	4.7	3.5	4.0	5.2	4.7	5.0	4.9	3.3	4.0	9.9	9.3	9.5	3.6	2.2	2.5	4.5	3.5	4.0	7.0	6.7	6.9
7	4.8	3.7	4.2	5.3	4.7	4.9	7.4	3.9	5.5	9.6	5.7	7.2	4.1	2.3	3.1	5.3	3.9	4.6	6.8	6.7	6.7
8	7.3	4.6	6.0	5.5	5.0	5.2	7.5	5.4	6.3	9.7	7.1	8.7	4.4	3.3	3.9	6.9	5.0	5.7	6.9	6.7	6.8
9	6.9	5.3	6.2	5.3	4.9	5.1	7.8	5.6	6.6	9.9	9.0	9.5	4.0	2.9	3.6	6.3	4.6	5.6	7.0	6.6	6.8
10	7.2	6.3	6.8	5.4	5.1	5.3	8.3	6.9	7.8	9.9	7.3	9.0	5.4	4.0	4.5	6.6	5.9	6.3	6.9	6.7	6.7
11	7.5	6.1	6.9	5.4	5.2	5.3	7.7	6.7	7.1	9.9	7.3	9.1	5.4	5.1	5.3	7.1	6.6	6.8	6.8	6.7	6.8
12	7.4	6.4	7.0	5.4	5.0	5.2	7.9	6.7	7.3	9.9	9.5	9.8	5.2	4.5	4.9	6.8	6.0	6.5	6.8	6.5	6.6
13	7.9	6.4	7.0	5.3	5.0	5.2	8.7	6.7	7.5	10.3	9.6	9.9	5.3	4.4	4.8	7.2	5.9	6.5	6.7	6.4	6.5
14	6.4	3.2	5.0	5.0	3.9	4.5	6.7	3.5	5.4	9.8	8.6	9.2	4.6	1.7	3.4	6.1	3.5	4.9	6.4	5.8	6.1
15	3.7	2.2	2.8	3.9	3.2	3.5	4.5	2.4	3.1	8.9	8.3	8.5	1.7	.6	1.0	4.2	3.0	3.5	5.8	5.3	5.5
16	4.7	1.7	3.2	4.0	3.3	3.6	5.5	1.8	3.5	9.5	8.4	8.9	1.8	.3	1.1	5.0	2.8	3.8	5.5	5.2	5.3
17	5.4	3.0	4.3	4.0	3.2	3.6	6.3	3.3	4.7	9.5	8.9	9.2	2.8	1.6	2.0	5.0	3.8	4.5	5.2	4.8	5.0
18	4.2	1.7	3.0	3.6	2.4	3.0	5.2	1.9	3.5	9.6	8.6	9.0	2.0	.6	1.4	5.1	3.1	4.1	5.2	4.6	4.9
19	5.4	2.9	4.3	3.2	2.6	2.9	6.4	3.4	4.9	9.9	9.0	9.4	3.1	1.5	2.3	5.6	4.0	4.8	5.2	4.6	4.9
20	5.1	.0	2.2	3.2	1.7	2.3	5.9	–.3	3.0	9.4	6.9	7.9	3.0	.2	1.4	5.0	1.9	3.3	5.0	3.8	4.4
21	1.7	.0	.8	2.4	1.7	2.0	1.5	–.4	.3	9.1	7.7	8.4	.8	.2	.5	3.7	1.7	2.6	3.9	3.5	3.7
22	4.0	1.0	2.5	2.4	1.8	2.1	5.2	.5	2.8	9.5	8.6	9.1	2.0	.5	1.2	4.8	2.8	3.8	4.1	3.7	3.9
23	10.4	3.7	6.1	3.2	2.2	2.6	10.8	4.9	7.3	12.9	8.3	9.8	8.2	1.9	3.5	8.4	4.4	5.6	4.2	3.7	3.9
24	7.4	3.7	4.8	2.8	1.9	2.4	10.2	4.6	6.6	8.3	7.3	7.7	5.0	1.4	2.4	5.8	3.8	4.5	4.2	3.7	4.0
25	4.0	2.3	3.2	2.4	1.7	2.1	5.3	3.1	4.1	8.3	7.6	7.9	1.5	.5	1.1	4.4	3.1	3.6	3.9	3.5	3.7
26	2.7	.0	1.8	2.1	1.2	1.8	—	—	—	—	—	e7.9	1.0	.3	.7	3.4	1.7	2.8	3.5	2.5	3.2
27	2.2	.5	1.2	1.3	.9	1.1	—	—	—	—	—	e7.6	.6	.3	.4	3.0	1.9	2.4	2.6	2.3	2.5
28	2.2	.0	1.2	1.7	.8	1.2	—	—	—	—	—	e7.5	.7	.3	.5	—	—	—	2.5	2.1	2.3
29	4.4	2.2	3.4	1.6	1.4	1.5	—	—	—	—	—	e8.5	1.6	.6	1.1	—	—	—	2.4	1.8	2.2
30	5.3	2.5	4.0	1.6	1.4	1.5	—	—	—	—	—	e8.3	2.1	.8	1.5	—	—	—	2.6	2.1	2.4
31	5.1	2.3	3.9	1.7	1.5	1.6	—	—	—	—	—	e8.2	2.2	.7	1.4	—	—	—	2.8	2.5	2.6
Month	**10.4**	**.0**	**4.5**	**7.2**	**.8**	**3.7**	**e10.8**	**e–.4**	**e5.5**	**e12.9**	**e5.7**	**8.9**	**8.2**	**.2**	**2.7**	**e8.8**	**e1.7**	**e4.8**	**8.3**	**1.8**	**5.3**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											January										
1	5.7	3.4	4.5	2.0	1.6	1.8	—	—	—	—	—	e8.2	2.7	1.6	2.0	—	—	—	2.7	2.5	2.6
2	4.5	2.6	3.6	2.0	1.4	1.7	—	—	—	—	—	e8.4	2.0	1.0	1.6	—	—	—	2.6	2.3	2.5
3	6.9	4.5	5.8	1.9	1.4	1.7	—	—	—	—	—	e9.5	3.4	2.0	2.8	—	—	—	3.1	2.5	2.8
4	6.1	4.4	5.3	1.8	1.6	1.7	7.1	5.5	6.2	8.8	6.6	7.9	3.4	2.6	3.0	6.0	4.9	5.3	3.3	2.9	3.1
5	5.2	3.8	4.5	2.1	1.8	2.0	5.5	4.2	5.1	8.5	6.2	8.0	2.6	1.7	2.1	5.0	4.0	4.4	3.1	2.7	2.9
6	3.8	.2	2.2	1.9	1.5	1.7	4.5	.2	2.6	8.0	1.1	6.0	1.7	.2	.9	4.0	1.8	3.2	2.7	2.4	2.6
7	4.4	2.8	3.5	1.9	1.4	1.6	5.1	2.9	3.9	7.7	6.2	7.1	2.0	1.1	1.5	4.7	3.5	3.9	2.7	2.3	2.5
8	3.9	1.1	2.8	1.9	1.7	1.8	4.3	.4	3.1	8.2	2.9	6.9	1.4	.4	.9	4.0	2.4	3.4	2.8	2.3	2.6
9	4.0	1.9	3.2	1.9	1.7	1.8	4.8	2.4	3.7	8.3	7.3	7.9	1.7	.6	1.2	4.3	2.9	3.7	2.5	2.1	2.3
10	5.1	3.6	4.2	2.2	1.9	2.1	5.8	4.1	4.6	8.6	8.2	8.3	2.3	1.5	1.7	4.8	3.9	4.2	2.5	2.2	2.4
11	4.4	3.1	3.7	2.2	2.0	2.1	5.3	3.5	4.2	8.7	8.1	8.4	2.1	1.2	1.6	4.6	3.6	4.1	2.4	1.9	2.2
12	3.8	2.9	3.3	2.4	2.2	2.3	5.0	2.8	3.7	8.4	4.2	6.5	2.0	1.3	1.7	4.2	3.6	3.9	2.5	2.3	2.4
13	5.2	3.2	4.2	2.4	2.1	2.3	5.7	3.3	4.4	8.3	5.7	7.5	2.9	1.8	2.1	5.4	4.1	4.5	2.6	2.3	2.4
14	6.7	3.8	4.7	2.9	2.4	2.6	8.7	3.3	5.8	11.9	6.0	7.4	5.0	2.5	3.6	6.9	4.6	5.6	3.1	2.4	2.7
15	4.6	3.2	3.9	2.6	2.2	2.4	5.2	3.3	4.2	7.5	6.7	7.0	2.5	1.1	1.8	4.6	3.5	4.0	2.7	2.3	2.6
16	4.2	2.7	3.4	2.5	2.2	2.4	4.6	2.8	3.7	7.6	7.0	7.3	1.4	.7	1.0	4.1	3.3	3.6	2.6	2.3	2.5
17	3.8	1.6	2.8	2.4	2.1	2.2	4.0	1.3	2.7	7.7	7.0	7.3	1.3	.3	.8	4.0	2.8	3.3	2.4	1.7	2.0
18	1.6	.0	.5	2.2	1.8	2.0	1.3	–.4	.2	7.2	6.8	7.0	.5	.2	.3	2.9	2.0	2.4	1.7	1.0	1.3
19	2.0	–.1	.9	2.1	1.7	1.9	.9	–.4	.0	7.9	7.0	7.4	.6	.1	.4	3.3	1.8	2.6	1.7	.9	1.4
20	3.0	1.1	1.9	2.1	1.8	2.0	3.1	.6	1.4	7.9	7.3	7.6	1.1	.4	.7	3.5	2.6	3.0	1.7	1.3	1.5
21	1.1	–.3	.1	2.3	2.1	2.2	.6	–.5	–.3	7.3	6.7	7.0	.5	.1	.2	2.6	1.4	1.9	1.3	1.0	1.2
22	.3	–.6	–.1	2.3	2.2	2.2	–.3	–.4	–.4	7.6	6.2	7.0	.4	.0	.1	2.3	.9	1.6	1.6	1.2	1.4
23	–.2	–.6	–.4	2.4	2.1	2.2	–.4	–.4	–.4	7.1	6.0	6.6	.1	–.1	.0	2.0	.9	1.4	1.3	1.0	1.1
24	.8	–.2	.4	2.4	2.2	2.3	–.4	–.4	–.4	7.6	6.7	7.2	.3	.0	.1	2.3	1.3	1.8	1.3	1.1	1.2
25	1.6	.6	1.1	2.5	2.3	2.4	–.4	–.4	–.4	7.8	7.3	7.6	.5	.1	.3	2.8	2.0	2.4	1.3	1.0	1.2
26	1.4	.7	1.0	2.5	2.3	2.4	–.3	–.4	–.3	7.7	7.2	7.5	.4	.2	.3	2.5	1.9	2.2	1.3	1.2	1.3
27	1.3	–.1	.6	2.5	2.4	2.5	–.2	–.4	–.3	7.7	7.0	7.3	.7	.0	.2	2.1	1.1	1.7	1.2	1.1	1.2
28	1.0	–.3	.2	2.6	2.4	2.5	–.2	–.4	–.3	7.7	6.7	7.1	.6	–.1	.2	2.0	.8	1.3	1.2	1.1	1.2
29	1.4	–.3	.5	2.6	2.4	2.5	.1	–.4	–.3	8.1	6.7	7.4	.8	–.1	.3	2.4	.8	1.6	1.2	1.2	1.2
30	2.7	.7	1.6	2.6	2.4	2.5	1.5	.1	.7	8.3	7.6	8.0	1.7	.5	.9	3.3	2.1	2.5	1.3	1.2	1.2
31	2.4	.1	1.1	2.6	2.4	2.5	2.0	–.4	.6	8.3	7.5	7.8	1.6	.3	.8	3.0	1.3	2.1	1.3	1.2	1.2
Month	**6.9**	**–.6**	**2.4**	**2.9**	**1.4**	**2.1**	**e8.7**	**e–.5**	**e2.1**	**e11.9**	**e1.1**	**e7.5**	**5.0**	**–.1**	**1.1**	**e6.9**	**e.8**	**e3.1**	**3.3**	**.9**	**2.0**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February																					
1	2.0	–0.3	0.7	2.6	2.5	2.5	1.0	–0.4	0.0	8.4	7.0	7.6	1.6	0.0	0.6	2.9	0.8	1.7	1.3	1.2	1.2
2	2.3	–.2	.9	2.7	2.5	2.6	1.8	–.4	.3	8.4	7.2	7.8	1.8	.1	.8	3.1	.9	2.0	1.3	1.2	1.3
3	3.0	.0	1.4	2.7	2.5	2.6	3.1	–.3	1.0	8.5	4.7	7.1	2.0	.3	1.1	3.5	1.4	2.4	1.3	1.2	1.3
4	2.7	1.1	2.0	2.7	2.5	2.6	3.5	2.1	2.8	7.6	5.0	6.7	1.9	1.1	1.5	3.4	2.2	2.9	1.3	1.2	1.3
5	4.5	.8	2.4	2.7	2.5	2.6	6.0	.8	2.9	8.0	7.5	7.6	2.9	.7	1.6	4.2	2.2	3.0	1.3	1.2	1.3
6	4.6	1.0	2.5	2.7	2.5	2.6	6.3	1.3	3.2	8.2	7.6	7.8	3.0	.8	1.7	4.4	2.4	3.1	1.4	1.3	1.3
7	4.7	.8	2.5	2.9	2.6	2.7	6.6	.9	3.2	8.6	7.5	8.0	3.0	.8	1.7	4.4	2.0	3.1	1.4	1.3	1.4
8	4.7	1.9	3.1	2.9	2.7	2.8	6.1	2.0	3.8	8.8	7.8	8.2	2.9	1.1	1.9	4.5	2.6	3.4	1.4	1.4	1.4
9	5.2	2.4	3.7	3.0	2.8	2.9	7.2	2.8	4.6	8.6	7.8	8.1	3.6	1.4	2.3	5.1	3.0	3.9	1.5	1.4	1.5
10	3.7	1.4	2.0	3.0	2.8	2.9	4.7	1.7	2.7	7.8	3.2	4.6	2.5	.7	1.8	3.8	2.3	3.1	1.5	1.1	1.3
11	3.4	1.4	2.1	3.0	2.8	2.9	4.1	1.9	2.6	6.5	4.3	5.8	1.9	.6	1.0	3.2	2.1	2.5	1.2	1.0	1.1
12	4.4	1.1	2.5	3.0	2.8	2.9	5.4	1.4	3.0	7.5	6.2	6.8	2.3	.5	1.2	3.7	1.9	2.6	1.4	1.2	1.3
13	4.8	1.6	2.7	3.1	2.9	3.0	6.2	1.8	3.3	7.8	6.8	7.1	2.8	.7	1.4	3.9	2.1	2.8	1.4	1.2	1.3
14	4.2	.6	2.4	3.2	3.0	3.1	5.6	.6	2.9	7.8	6.5	7.1	2.4	.4	1.3	3.8	1.5	2.7	1.5	1.3	1.4
15	4.1	1.8	2.8	3.3	3.1	3.2	5.0	2.2	3.5	7.0	3.8	5.6	3.3	1.5	2.2	4.5	3.0	3.5	1.5	1.3	1.4
16	5.7	2.4	3.7	3.4	3.1	3.2	6.8	3.2	5.0	7.5	5.6	6.5	3.3	1.1	2.1	5.1	3.0	3.9	1.5	1.3	1.4
17	4.7	2.4	3.3	3.4	3.1	3.2	5.6	3.1	4.2	7.0	5.5	6.2	2.6	1.0	1.7	4.4	2.9	3.6	1.8	1.3	1.5
18	5.0	1.2	2.9	3.4	3.1	3.2	6.1	1.6	3.6	7.3	6.1	6.5	2.6	.7	1.5	4.4	2.4	3.3	1.6	1.2	1.4
19	3.5	.3	1.5	3.4	3.2	3.3	4.6	.6	1.9	7.1	5.9	6.3	2.1	.4	1.0	3.7	1.8	2.6	1.5	1.0	1.2
20	4.0	.8	1.9	3.4	3.2	3.3	5.3	.6	2.2	7.4	6.4	6.8	2.6	.6	1.4	4.2	2.2	3.0	1.4	1.0	1.2
21	2.2	.6	1.6	3.4	3.2	3.3	2.7	.3	1.7	6.8	5.7	6.5	1.5	.6	1.1	3.2	2.1	2.8	1.5	1.2	1.4
22	3.8	1.7	2.6	3.5	3.3	3.4	4.1	1.8	2.8	7.6	6.6	7.1	2.3	1.1	1.6	3.8	2.8	3.2	1.4	1.1	1.3
23	4.8	1.4	3.0	3.5	3.3	3.3	5.3	1.5	3.2	7.8	7.0	7.3	3.1	1.1	1.8	4.4	2.5	3.3	1.4	1.2	1.3
24	3.9	.0	1.6	3.5	3.3	3.4	5.0	–.2	1.8	7.7	6.6	7.0	2.3	.3	1.2	3.9	1.8	2.7	1.5	1.1	1.3
25	3.9	.2	1.6	3.5	3.3	3.4	5.0	–.2	1.6	7.6	6.3	6.9	2.6	.4	1.3	3.6	1.9	2.6	1.4	1.1	1.3
26	3.4	–.3	1.4	3.5	3.3	3.4	5.1	–.5	1.6	8.0	6.4	7.2	2.4	.2	1.2	3.8	1.3	2.5	1.5	1.3	1.4
27	3.9	.1	1.5	3.5	3.3	3.4	5.6	–.4	1.7	7.8	6.8	7.2	2.9	.4	1.3	3.9	1.7	2.6	1.5	1.2	1.3
28	3.1	–.1	1.5	3.6	3.3	3.5	4.2	–.4	1.5	7.9	6.0	7.2	2.2	.4	1.3	3.6	.6	2.6	1.6	1.3	1.5
Month	**5.7**	**–.3**	**2.2**	**3.6**	**2.5**	**3.0**	**7.2**	**–.5**	**2.6**	**8.8**	**3.2**	**7.0**	**3.6**	**.0**	**1.4**	**5.1**	**.6**	**2.9**	**1.8**	**1.0**	**1.3**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
March																					
1	2.5	–0.2	1.3	3.6	3.2	3.4	2.4	–0.4	1.0	7.3	5.6	6.7	2.0	0.3	1.1	3.3	0.6	2.5	1.6	1.2	1.4
2	3.1	1.2	2.0	3.4	3.2	3.3	4.4	.9	2.3	7.6	6.6	7.2	2.2	.6	1.3	3.5	2.2	2.8	1.6	1.2	1.3
3	3.0	.1	1.2	3.4	3.1	3.3	5.0	–.4	1.4	7.6	6.8	7.1	2.3	.1	.9	3.4	1.4	2.2	1.3	1.0	1.1
4	3.0	–.3	1.0	3.5	3.1	3.3	4.8	–.5	.9	7.8	6.5	7.1	1.9	.0	.8	3.7	.8	2.1	1.2	.9	1.1
5	4.5	–.1	1.7	3.5	3.2	3.3	6.9	–.5	1.9	8.2	6.8	7.4	3.1	.1	1.3	4.4	1.4	2.7	1.4	1.0	1.2
6	4.8	.5	2.6	3.6	3.2	3.4	6.8	.1	3.1	8.2	7.2	7.7	3.1	.3	1.8	4.5	2.0	3.2	1.6	1.2	1.4
7	5.8	2.3	3.8	3.6	3.3	3.5	7.2	2.8	4.4	8.2	6.7	7.6	4.0	1.5	2.6	5.2	3.0	4.0	1.7	1.4	1.5
8	3.7	–.7	2.2	3.6	3.1	3.4	4.7	–.2	3.3	7.4	3.6	5.8	2.9	–.1	1.9	3.9	.2	2.8	1.6	.4	1.3
9	1.7	–.5	.4	3.5	3.1	3.3	3.8	–.5	.8	6.2	4.7	5.4	.8	.0	.3	2.5	.5	1.3	.9	.5	.7
10	3.2	–.3	1.0	3.6	3.2	3.4	4.9	–.5	1.2	7.3	5.7	6.4	1.6	.1	.6	3.2	.4	1.6	1.2	.7	.9
11	3.0	–.1	1.4	3.5	3.2	3.3	4.5	–.5	1.8	7.6	6.1	6.7	1.5	.1	.8	3.2	.8	2.0	1.3	.9	1.1
12	2.6	.5	1.6	3.5	3.3	3.4	3.3	.9	2.4	7.4	2.5	5.3	1.4	.3	.8	2.8	1.3	2.2	1.2	1.0	1.2
13	4.0	1.2	2.4	3.5	3.2	3.4	3.9	2.2	2.8	6.9	4.9	6.4	3.2	.6	1.5	4.0	2.2	2.7	1.5	1.0	1.3
14	6.1	1.0	2.9	3.6	3.2	3.4	7.4	1.6	3.9	7.9	6.7	7.1	4.1	.4	1.8	5.1	1.7	3.0	1.5	1.0	1.2
15	6.9	1.5	3.4	3.6	3.2	3.4	8.1	2.3	4.4	8.4	6.9	7.3	4.5	.6	2.2	5.4	2.0	3.3	1.4	.9	1.1
16	7.2	1.9	3.7	3.6	3.2	3.4	8.3	3.0	4.8	8.5	7.0	7.5	4.7	.9	2.4	5.6	2.3	3.6	1.7	1.0	1.3
17	7.2	1.1	3.5	3.6	3.2	3.4	8.8	2.4	4.8	8.7	6.9	7.6	4.7	.6	2.4	5.8	2.0	3.6	2.2	1.2	1.6
18	7.0	1.6	3.7	3.6	3.2	3.4	9.2	3.0	5.1	9.0	7.1	7.7	4.8	1.1	2.6	5.9	2.5	3.8	2.3	1.4	1.8
19	7.6	1.5	3.8	3.6	3.2	3.3	9.4	2.7	5.1	9.0	7.0	7.7	5.3	1.0	2.9	6.4	2.4	4.0	2.2	1.2	1.7
20	7.1	1.3	3.9	3.5	3.1	3.3	9.2	2.7	5.3	8.9	6.9	7.7	4.7	1.2	3.0	6.3	2.4	4.2	2.4	1.7	2.0
21	6.3	2.8	4.3	3.4	3.1	3.2	7.9	4.0	5.7	8.6	7.2	7.9	4.6	2.6	3.4	5.9	3.5	4.5	2.5	1.9	2.2
22	8.5	2.0	4.6	3.6	3.0	3.3	10.7	3.2	5.9	9.5	7.0	7.9	6.3	1.7	3.8	7.8	3.0	5.0	2.9	2.1	2.5
23	5.5	2.9	4.1	3.5	3.2	3.4	6.8	3.6	5.2	8.3	7.2	7.7	4.2	2.6	3.4	5.6	3.5	4.5	2.7	2.0	2.4
24	4.7	2.0	3.2	3.8	3.2	3.5	5.1	2.9	4.2	7.3	3.7	6.1	3.8	2.1	2.9	5.3	3.1	4.0	2.6	2.2	2.3
25	7.3	2.3	4.3	3.8	3.3	3.5	8.4	3.0	5.2	9.0	7.0	7.7	5.3	1.9	3.6	7.3	3.2	5.0	2.7	2.1	2.4
26	8.3	1.8	4.4	4.0	3.4	3.7	10.1	3.1	5.7	9.3	6.8	7.8	6.3	2.2	4.1	8.1	3.1	5.2	3.6	2.1	2.7
27	9.3	2.3	5.2	4.4	3.8	4.0	11.2	3.2	6.3	9.9	7.1	8.2	7.2	2.8	4.9	9.0	3.5	6.1	3.8	2.6	3.1
28	4.7	3.4	4.2	4.3	4.1	4.1	6.3	4.8	5.5	8.1	5.3	6.8	5.0	3.5	4.4	5.8	4.3	5.0	3.1	2.9	3.0
29	5.7	3.4	4.7	4.3	4.0	4.1	5.0	3.6	4.4	7.5	5.1	6.6	4.3	3.2	3.7	5.6	4.2	4.9	3.3	2.9	3.1
30	9.5	3.9	6.1	4.5	4.1	4.3	10.3	3.3	6.3	10.1	6.7	8.0	7.5	2.9	5.0	9.3	4.3	6.4	4.2	2.7	3.5
31	9.7	4.1	6.4	5.1	4.3	4.7	11.0	5.1	7.4	10.1	7.4	8.5	8.2	3.9	6.0	9.5	5.1	7.1	4.3	3.4	3.8
Month	**9.7**	**–.7**	**3.2**	**5.1**	**3.0**	**3.5**	**11.2**	**–.5**	**4.0**	**10.1**	**2.5**	**7.2**	**8.2**	**–.1**	**2.5**	**9.5**	**.2**	**3.7**	**4.3**	**.4**	**1.8**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
										April											
1	9.7	5.5	6.9	5.7	5.0	5.3	11.8	6.4	8.1	10.3	8.3	9.0	8.9	5.5	7.0	10.1	6.6	8.0	4.6	3.6	4.0
2	6.4	5.0	5.7	5.6	4.7	5.0	6.9	5.3	6.3	8.9	6.0	7.8	7.1	5.7	6.1	7.7	6.3	6.9	4.1	3.9	4.0
3	8.7	6.2	7.3	5.3	4.3	4.8	10.3	6.9	8.6	9.7	8.4	8.9	8.4	6.1	7.1	9.6	7.2	8.1	4.6	4.1	4.4
4	8.6	5.8	6.8	5.4	4.7	5.0	10.5	6.9	8.0	9.7	8.2	8.8	8.2	6.1	7.0	9.4	7.2	8.1	5.6	4.5	5.0
5	11.0	4.8	7.3	6.8	4.9	5.7	12.6	5.9	8.5	10.8	8.1	9.2	10.3	5.5	7.7	11.4	6.5	8.8	5.7	4.7	5.2
6	11.0	5.8	8.1	7.8	6.0	6.7	12.6	6.7	9.1	11.0	8.9	9.8	11.2	7.3	9.1	11.8	7.8	9.7	6.1	5.3	5.7
7	11.0	6.8	8.7	9.1	6.4	7.5	13.1	7.8	9.9	11.1	9.5	10.2	11.6	8.7	10.2	12.1	8.9	10.6	6.6	5.3	6.1
8	11.6	7.4	9.4	8.8	6.4	7.6	13.2	9.3	11.0	12.9	10.0	11.0	12.4	10.1	11.1	12.6	10.1	11.2	7.9	6.0	7.3
9	12.2	5.5	8.3	9.8	7.9	8.8	15.0	7.5	10.4	11.6	9.3	10.2	13.0	8.6	10.7	13.4	8.3	10.7	8.1	6.3	7.3
10	12.6	5.3	8.6	11.1	7.9	9.3	15.5	6.7	10.4	11.8	9.3	10.4	13.6	8.6	11.0	13.9	8.2	11.1	10.8	7.8	9.1
11	11.4	5.8	8.1	10.6	9.7	10.2	14.0	6.8	9.7	11.2	9.4	10.1	12.7	9.4	11.1	12.6	8.8	10.7	10.3	6.4	8.6
12	9.5	4.4	6.7	10.1	9.3	9.6	12.1	5.5	8.3	10.6	9.0	9.7	10.8	8.1	9.6	11.0	7.4	9.1	9.7	6.3	8.8
13	10.7	4.5	7.3	10.1	8.4	9.3	13.0	5.4	8.7	11.0	9.0	9.8	11.3	7.5	9.3	11.7	7.1	9.3	9.8	8.3	8.9
14	12.2	5.2	8.0	10.2	9.0	9.6	14.6	6.1	9.5	11.4	9.3	10.1	12.2	8.0	10.0	12.7	7.8	10.0	9.5	7.5	8.9
15	11.4	4.6	7.4	10.6	9.4	9.9	14.2	5.5	9.2	11.1	9.1	9.9	12.1	7.9	9.9	12.4	7.6	9.8	9.3	8.3	8.9
16	11.9	4.2	7.6	11.2	9.4	10.2	15.0	5.1	9.4	11.3	9.0	10.0	12.3	7.7	10.0	12.6	7.2	9.9	9.8	8.7	9.2
17	13.7	5.1	9.0	11.7	9.2	10.5	16.8	5.9	10.8	11.8	9.3	10.4	14.1	8.4	11.2	14.3	8.0	11.1	12.9	9.4	9.9
18	14.1	7.0	10.1	12.8	10.8	11.8	16.8	8.3	12.0	11.9	10.1	10.8	15.5	10.5	13.0	15.4	10.3	12.7	13.8	10.1	11.9
19	14.7	6.6	10.4	12.9	10.8	11.4	17.7	7.7	12.3	12.2	10.0	10.9	16.3	10.7	13.6	15.9	10.1	13.1	13.6	10.2	12.0
20	16.8	9.4	12.7	12.2	10.6	11.1	18.9	10.5	14.2	13.9	10.8	11.6	17.8	13.0	15.4	17.7	12.2	14.8	14.4	13.0	13.6
21	14.4	8.5	11.3	13.6	11.9	12.8	16.3	10.2	12.7	13.1	10.7	11.7	16.7	13.4	15.0	15.9	12.1	13.9	14.5	12.0	13.7
22	13.4	6.1	9.4	13.1	10.9	12.3	16.8	7.0	11.2	11.9	9.9	10.8	15.5	10.9	13.2	15.1	9.7	12.4	13.8	12.9	13.4
23	10.8	8.2	9.5	12.4	11.3	12.0	12.4	9.5	10.9	14.0	10.4	11.7	13.2	12.0	12.4	12.7	11.3	12.0	13.6	12.5	13.1
24	13.2	9.3	11.2	12.4	12.0	12.2	14.9	11.4	12.9	14.1	11.3	12.7	14.4	12.3	13.0	14.6	11.8	12.9	13.7	13.1	13.4
25	11.0	7.8	9.2	12.3	11.7	12.0	12.4	9.0	10.9	11.6	9.9	10.9	13.0	11.3	12.1	13.0	10.4	11.5	13.7	13.2	13.4
26	13.7	6.6	9.9	12.0	11.6	11.8	16.2	7.5	11.3	12.2	10.1	11.1	14.3	9.7	12.0	14.4	8.9	11.7	13.9	12.9	13.4
27	11.0	9.3	10.0	12.5	11.9	12.2	12.2	10.2	11.1	12.9	10.9	11.7	13.0	12.1	12.3	12.0	11.6	11.7	13.7	13.1	13.3
28	12.4	9.0	10.2	12.9	12.2	12.5	14.3	10.4	11.8	12.1	11.0	11.4	13.6	11.4	12.4	13.2	10.9	12.0	13.6	12.9	13.2
29	14.5	7.3	10.5	12.4	11.9	12.2	17.7	8.4	12.3	12.5	10.2	11.2	15.1	10.5	12.7	15.0	9.4	12.2	13.7	12.6	13.2
30	11.6	9.0	10.1	12.7	12.3	12.5	12.6	10.1	11.2	13.7	10.9	11.7	13.7	12.3	12.6	12.8	11.4	11.9	13.4	13.1	13.2
Month	**16.8**	**4.2**	**8.9**	**13.6**	**4.3**	**9.7**	**18.9**	**5.1**	**10.4**	**14.1**	**6.0**	**10.4**	**17.8**	**5.5**	**10.9**	**17.7**	**6.3**	**10.9**	**14.5**	**3.6**	**9.7**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											May										
1	11.9	9.2	10.9	12.9	12.5	12.7	13.3	11.2	12.5	13.9	11.2	12.2	13.3	12.1	12.6	12.8	11.2	12.2	13.5	13.1	13.3
2	13.8	7.5	10.2	12.7	12.3	12.5	16.3	9.1	12.1	12.3	10.4	11.2	14.1	10.4	12.4	14.1	9.6	11.8	13.6	12.7	13.3
3	13.1	7.8	10.2	13.1	12.3	12.6	16.4	9.3	12.0	12.0	10.5	11.2	14.1	11.0	12.7	13.9	10.1	12.0	13.9	12.9	13.4
4	12.4	7.5	9.7	13.7	12.6	13.1	14.7	8.6	11.4	11.9	10.4	11.1	14.2	11.0	12.6	13.2	10.1	11.7	14.1	12.9	13.4
5	14.5	6.7	10.2	15.2	12.9	14.0	17.8	7.7	12.0	12.4	10.2	11.1	15.4	10.4	12.9	15.0	9.5	12.2	14.0	12.9	13.3
6	11.3	7.4	9.4	14.1	13.3	13.7	13.3	8.4	10.8	11.5	10.5	11.0	13.6	11.4	12.6	12.6	10.4	11.7	13.8	13.0	13.5
7	9.0	7.6	8.5	13.7	12.5	13.2	10.4	8.8	9.6	10.9	9.3	10.2	12.4	9.9	11.0	11.2	9.3	10.2	13.5	12.1	12.8
8	9.6	7.2	8.4	12.6	12.1	12.3	10.3	7.9	9.0	10.9	10.0	10.4	10.7	9.3	10.0	10.3	8.7	9.5	12.2	11.9	12.1
9	11.8	8.5	9.8	12.8	12.0	12.3	12.9	9.2	10.5	11.6	10.6	11.0	12.2	10.0	10.9	11.9	9.5	10.5	12.4	11.9	12.1
10	15.6	9.4	11.7	15.1	12.4	13.6	17.9	10.2	12.8	12.9	11.0	11.7	15.8	11.2	13.2	15.7	10.5	12.7	13.4	12.1	12.5
11	17.3	9.5	13.0	14.1	12.3	12.8	19.6	10.1	14.2	13.3	11.1	12.0	18.3	12.6	15.3	17.6	11.8	14.6	15.8	13.1	14.2
12	15.3	9.5	12.4	14.8	12.4	13.9	17.3	10.4	13.5	12.3	11.1	11.8	17.9	14.6	16.0	16.1	13.2	14.7	16.3	13.4	15.5
13	14.2	7.1	10.4	15.1	13.7	14.3	16.7	8.0	11.9	12.1	10.4	11.1	16.7	11.8	14.3	14.9	10.5	12.8	15.2	14.2	14.7
14	13.1	9.1	10.8	14.5	13.9	14.2	14.5	10.0	11.9	12.1	11.0	11.4	15.5	13.0	14.2	14.2	11.8	12.9	14.6	14.0	14.4
15	12.6	10.1	11.3	15.1	14.0	14.5	13.6	10.9	12.3	11.8	11.3	11.6	15.0	13.7	14.4	13.8	12.3	13.1	14.7	14.3	14.5
16	11.5	9.1	10.2	15.1	14.2	14.6	12.0	10.1	10.8	12.0	10.3	11.3	14.2	12.3	13.1	13.2	11.4	12.1	14.8	14.1	14.4
17	15.0	9.7	11.7	15.9	14.2	14.9	16.4	10.4	12.4	12.0	11.3	11.6	15.9	12.7	14.2	15.0	11.6	13.2	15.6	14.2	14.6
18	13.6	10.1	11.2	16.2	14.8	15.3	14.6	10.8	11.9	11.8	11.3	11.5	15.4	13.3	14.3	14.4	10.9	12.5	15.3	14.5	14.9
19	13.7	9.2	11.5	16.2	14.6	15.4	15.4	9.8	12.4	11.9	11.1	11.4	16.0	12.6	14.3	14.2	11.0	12.8	15.7	14.5	15.0
20	14.0	9.1	11.4	15.8	14.3	15.0	15.5	9.9	12.5	11.9	11.0	11.5	16.0	12.7	14.3	14.5	11.9	13.1	15.8	15.2	15.4
21	11.8	9.6	10.6	15.1	14.2	14.7	12.8	10.5	11.4	11.6	11.2	11.3	14.6	12.9	13.7	12.9	11.8	12.4	15.6	14.6	15.2
22	11.2	9.4	10.3	15.0	14.4	14.7	11.6	10.3	10.9	11.5	10.7	11.2	13.5	11.9	12.7	12.6	11.2	11.9	15.1	14.5	14.8
23	10.3	9.4	9.9	14.7	14.2	14.6	11.1	10.1	10.6	11.7	10.9	11.2	12.8	11.7	12.3	12.0	11.1	11.5	14.8	14.2	14.5
24	9.6	8.7	9.1	14.3	13.6	13.9	10.9	9.5	10.0	11.0	9.3	10.6	11.7	10.3	11.0	11.1	9.8	10.5	14.3	13.3	13.9
25	9.0	7.9	8.4	13.7	12.6	13.1	10.0	8.4	8.8	10.4	8.6	9.7	10.3	9.6	9.8	9.8	9.2	9.4	13.3	12.6	12.9
26	10.1	8.5	9.4	12.8	12.3	12.5	10.6	8.7	9.6	11.3	9.0	10.5	10.5	9.5	10.0	10.3	9.2	9.8	12.7	12.3	12.4
27	12.1	9.7	10.8	13.6	12.4	12.9	13.2	10.6	11.8	12.2	11.0	11.5	13.1	10.4	11.6	13.3	10.1	11.5	13.5	12.4	12.9
28	14.6	9.9	12.2	13.9	12.8	13.3	17.2	11.2	13.7	14.1	11.4	12.3	16.9	12.2	14.5	17.0	11.6	14.1	15.4	13.0	14.3
29	15.2	11.1	12.5	18.1	13.5	15.4	16.9	12.3	13.8	18.4	12.2	13.3	17.7	14.7	16.1	17.2	13.7	15.2	16.5	14.2	15.2
30	14.1	10.7	12.3	17.8	14.9	16.3	16.5	12.3	13.8	13.2	12.1	12.6	17.6	15.1	16.4	16.5	13.5	15.0	17.3	15.2	16.0
31	12.2	11.0	11.4	16.7	16.2	16.4	13.7	12.5	12.9	12.4	12.0	12.2	16.4	14.9	15.4	14.6	13.2	13.7	17.0	15.2	16.3
Month	**17.3**	**6.7**	**10.6**	**18.1**	**12.0**	**14.0**	**19.6**	**7.7**	**11.7**	**18.4**	**8.6**	**11.4**	**18.3**	**9.3**	**13.2**	**17.6**	**8.7**	**12.3**	**17.3**	**11.9**	**14.1**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
										June											
1	13.3	10.2	11.6	17.8	15.8	16.5	15.7	11.5	13.1	12.8	11.8	12.2	16.5	13.9	15.1	15.8	12.2	13.8	17.0	15.6	16.2
2	16.2	10.8	13.1	16.6	14.2	15.3	17.8	11.9	14.3	13.4	11.9	12.5	18.6	14.7	16.5	17.5	12.9	15.0	18.2	16.8	17.3
3	16.4	11.6	13.8	16.0	14.8	15.1	17.7	12.3	14.8	13.4	12.1	12.6	18.9	15.6	17.4	17.4	13.9	15.6	20.0	17.8	18.9
4	17.4	12.5	14.8	21.4	15.8	18.2	18.9	13.4	15.9	13.5	12.4	12.9	21.0	16.7	18.8	—	—	—	20.0	18.1	19.1
5	17.4	13.0	15.2	21.4	17.7	19.6	18.9	14.1	16.4	13.4	12.6	12.9	21.7	18.3	20.1	19.7	16.4	18.0	22.4	18.2	19.6
6	15.7	12.8	14.1	21.1	18.2	19.6	16.9	13.4	15.0	13.0	12.3	12.6	20.8	18.2	19.3	18.2	15.6	16.7	21.3	19.1	20.5
7	18.1	13.8	15.8	18.4	16.4	17.1	20.0	14.5	17.0	13.5	12.5	12.9	22.3	18.3	20.1	19.1	16.0	17.4	23.0	20.9	21.8
8	21.2	13.8	16.5	19.8	18.0	18.8	22.7	14.6	17.5	23.9	12.4	13.8	23.0	18.5	20.8	19.3	15.0	17.0	25.1	20.2	22.1
9	20.8	15.9	18.0	22.2	19.4	20.8	20.8	17.2	19.4	21.5	14.0	16.2	22.2	20.2	21.3	20.8	17.7	19.9	23.7	21.3	22.1
10	19.2	15.2	17.0	21.7	18.3	19.9	20.6	16.4	18.3	14.4	13.7	14.0	23.3	20.3	21.7	20.7	18.4	19.4	24.7	22.5	23.7
11	19.2	16.0	17.6	21.4	19.9	20.6	20.9	17.0	18.7	14.0	13.5	13.7	24.4	21.2	22.8	21.4	18.7	20.0	26.3	23.3	24.2
12	19.2	16.4	17.7	21.4	20.5	21.0	20.4	17.0	18.5	13.7	13.2	13.4	24.2	22.2	23.3	21.2	19.4	20.3	28.0	23.5	25.6
13	19.3	16.6	17.9	23.2	21.0	21.8	20.4	17.0	18.4	13.7	13.2	13.4	24.7	22.4	23.5	21.4	19.4	20.4	27.4	24.2	25.5
14	18.6	14.6	16.9	23.5	21.2	22.3	22.6	16.5	17.7	20.0	13.0	13.9	24.1	20.6	22.8	20.8	17.6	19.8	26.7	24.4	25.3
15	14.6	12.3	13.3	21.4	18.6	19.8	16.5	13.0	14.6	15.2	12.5	13.1	20.6	16.2	18.0	17.6	14.4	15.8	25.3	22.5	23.7
16	14.1	12.1	12.8	18.7	17.5	18.1	14.5	12.5	13.3	15.3	12.3	12.7	16.7	15.3	16.0	15.2	13.9	14.5	22.5	21.7	22.2
17	16.0	12.9	14.1	17.8	17.1	17.4	16.6	13.0	14.4	14.4	12.7	13.2	18.0	15.2	16.4	16.8	14.2	15.3	23.0	21.3	21.7
18	15.0	13.3	14.0	17.9	16.9	17.3	15.6	13.1	14.0	12.7	12.4	12.6	18.2	16.1	17.0	16.9	15.0	15.7	21.9	21.3	21.5
19	13.8	12.6	13.3	17.3	16.2	16.8	14.0	12.4	13.3	12.4	12.2	12.3	17.1	15.6	16.4	15.8	14.5	15.2	21.5	21.0	21.3
20	16.1	11.4	13.7	17.1	15.9	16.4	17.4	11.2	14.1	12.5	11.9	12.2	19.2	14.3	16.7	17.5	13.5	15.4	22.0	20.7	21.2
21	17.1	13.4	15.2	16.2	15.7	16.0	18.2	12.8	15.4	12.6	12.0	12.3	20.5	16.4	18.3	18.1	14.9	16.6	23.8	21.7	22.6
22	15.9	14.4	15.2	16.4	15.8	16.0	15.9	14.2	15.0	13.5	12.2	12.5	19.2	17.7	18.4	17.4	16.0	16.7	23.3	22.2	22.6
23	16.1	12.6	14.4	16.2	15.5	15.9	17.1	12.2	14.6	12.3	11.9	12.1	20.0	15.8	17.9	16.9	14.4	15.8	23.7	21.6	22.6
24	17.2	13.9	15.6	15.9	15.2	15.6	18.5	13.2	15.8	12.5	12.0	12.2	21.0	16.9	18.9	17.6	14.8	16.4	23.6	22.2	22.9
25	19.4	15.4	17.2	16.2	15.5	15.8	20.7	15.1	17.8	12.6	12.2	12.4	—	—	—	—	—	—	24.8	22.8	23.7
26	19.8	16.7	18.1	16.8	15.9	16.4	22.1	17.1	19.3	12.6	12.2	12.4	—	—	—	—	—	—	25.6	23.9	24.2
27	19.9	17.0	18.3	17.0	16.1	16.5	22.8	17.9	20.1	12.6	12.3	12.4	—	—	—	—	—	—	26.8	23.8	24.7
28	19.3	17.6	18.3	16.9	16.1	16.5	21.2	19.4	20.1	13.7	12.3	12.6	—	—	—	—	—	—	26.5	24.4	25.6
29	19.3	17.6	18.4	16.9	15.2	16.3	21.7	19.0	20.1	13.2	12.4	12.5	—	—	—	—	—	—	26.2	25.5	25.8
30	19.0	17.4	18.0	16.2	15.4	15.8	22.1	19.0	20.0	12.5	12.4	12.4	—	—	—	—	—	—	25.6	23.8	24.9
Month	**21.2**	**10.2**	**15.7**	**23.5**	**14.2**	**17.8**	**22.8**	**11.2**	**16.6**	**23.9**	**11.8**	**12.9**	**e24.7**	**e13.9**	**e19.1**	**e21.4**	**e12.2**	**e17.0**	**28.0**	**15.6**	**22.4**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
July																					
1	17.9	16.3	17.2	16.1	15.1	15.6	20.0	17.8	19.0	12.5	12.3	12.4	—	—	—	—	—	—	24.9	23.9	24.2
2	18.6	16.6	17.7	15.9	15.1	15.5	22.2	18.4	20.0	12.6	12.3	12.4	—	—	—	—	—	—	25.7	24.1	24.8
3	17.6	15.0	16.4	16.0	15.3	15.6	21.8	16.3	18.9	12.5	12.2	12.3	—	—	—	—	—	—	24.7	23.6	24.2
4	17.5	14.8	16.2	16.1	15.2	15.6	21.9	16.0	18.8	12.3	12.0	12.2	—	—	—	—	—	—	24.3	23.7	24.0
5	18.9	15.2	17.1	16.0	15.2	15.7	23.3	16.4	19.7	12.4	12.0	12.2	—	—	—	—	—	—	25.4	23.6	24.4
6	21.4	16.9	19.3	16.6	15.5	15.7	22.4	18.9	21.0	23.1	12.2	17.9	—	—	—	—	—	—	25.1	23.3	24.2
7	18.4	15.9	16.8	24.2	15.4	20.2	20.7	17.2	18.3	18.4	13.0	13.9	—	—	—	—	—	—	23.3	21.9	22.6
8	16.8	15.5	15.8	23.9	22.4	23.3	17.5	15.2	16.8	17.1	12.8	14.3	—	—	—	18.2	16.0	17.3	22.0	20.8	21.6
9	19.9	15.2	16.6	22.6	21.7	22.1	20.4	15.2	16.6	20.8	14.8	15.9	—	—	—	19.4	16.0	17.4	21.5	20.5	21.0
10	19.5	16.6	18.0	24.0	21.7	22.9	21.5	17.5	19.3	16.6	14.0	14.8	—	—	—	22.0	17.1	19.3	23.0	20.9	21.8
11	20.1	17.3	18.6	25.9	23.0	24.3	22.3	18.3	20.0	14.1	13.6	13.9	—	—	—	22.6	19.1	20.7	23.6	22.0	22.8
12	19.1	16.9	17.9	25.5	16.4	19.7	21.6	17.8	19.4	13.6	13.2	13.4	—	—	—	21.5	19.1	20.2	23.5	22.1	22.9
13	18.6	16.5	17.5	16.9	16.1	16.4	21.4	17.6	19.3	13.4	13.0	13.2	—	—	—	20.5	18.4	19.4	24.5	23.0	23.6
14	19.4	17.1	18.1	17.1	16.1	16.5	22.4	18.5	20.3	13.4	13.0	13.2	—	—	—	20.9	18.7	19.7	25.3	23.6	24.4
15	19.9	17.7	18.7	17.3	16.2	16.7	23.3	19.6	21.0	13.4	13.0	13.2	—	—	—	21.0	19.3	20.1	25.5	23.8	24.7
16	19.6	17.1	18.3	17.1	16.4	16.8	23.5	19.1	21.1	13.3	13.0	13.1	—	—	—	20.7	18.9	19.8	26.9	25.1	25.6
17	19.3	17.8	18.5	17.2	16.5	16.9	22.9	20.1	21.3	13.2	13.0	13.1	—	—	—	20.0	18.9	19.5	26.6	25.3	25.9
18	19.9	18.3	18.9	17.2	16.6	17.0	23.6	21.0	21.9	13.2	13.0	13.1	—	—	—	20.3	19.1	19.6	26.7	25.3	26.0
19	20.9	18.4	19.6	17.5	16.5	17.1	25.7	21.1	22.9	13.4	13.0	13.1	—	—	—	21.2	19.5	20.2	28.2	25.4	26.8
20	20.2	18.2	19.2	17.8	16.7	17.4	25.4	20.6	22.6	13.4	12.9	13.1	—	—	—	20.4	19.1	19.8	28.5	26.1	27.3
21	19.4	17.1	18.3	18.1	17.1	17.5	24.4	19.9	22.0	13.1	12.9	13.0	—	—	—	19.5	18.1	18.8	28.3	26.5	27.2
22	19.6	16.9	18.3	18.1	17.3	17.7	27.6	19.9	22.4	25.5	12.9	13.9	—	—	—	19.4	17.5	18.5	28.3	26.5	27.4
23	19.5	17.1	18.2	18.5	17.1	17.9	23.9	19.9	22.4	21.2	13.2	14.4	—	—	—	18.5	16.7	17.7	28.2	26.4	27.3
24	18.4	15.6	17.1	18.3	17.6	17.9	22.6	17.5	19.9	13.2	12.9	13.0	—	—	—	17.5	15.5	16.5	26.5	25.5	26.0
25	19.2	16.6	18.0	18.5	17.6	18.0	22.2	19.0	20.5	13.1	13.0	13.0	—	—	—	17.8	16.2	17.0	25.7	25.3	25.5
26	19.6	17.0	18.5	18.6	17.8	18.1	24.4	19.3	21.7	13.1	12.9	13.0	—	—	—	18.6	16.5	17.4	26.5	25.0	25.7
27	21.8	18.8	20.1	20.0	17.8	18.7	26.0	21.0	23.0	13.3	13.0	13.1	—	—	—	19.6	17.1	18.1	27.0	25.7	26.3
28	20.3	17.1	19.0	21.0	19.2	20.0	21.7	18.3	20.3	13.3	12.9	13.0	—	—	—	17.5	15.2	16.6	26.7	25.2	25.7
29	18.8	16.1	17.6	20.2	19.1	19.6	22.1	16.6	19.4	12.9	12.8	12.9	—	—	—	16.9	14.2	15.6	25.6	24.8	25.2
30	18.8	16.9	17.7	20.8	19.6	20.2	22.7	18.9	20.5	13.0	12.8	12.9	—	—	—	16.9	15.2	15.9	25.1	24.7	24.9
	17.3	16.6	16.9	20.8	20.1	20.5	20.0	18.6	19.4	12.9	12.8	12.8	—	—	—	15.4	14.8	15.1	24.8	23.8	24.4
Month	**21.8**	**14.8**	**17.9**	**25.9**	**15.1**	**18.3**	**27.6**	**15.2**	**20.3**	**25.5**	**12.0**	**13.4**	**—**	**—**	**—**	**e22.6**	**e14.2**	**e18.3**	**28.5**	**20.5**	**24.8**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											August										
1	19.8	16.2	17.9	21.1	20.1	20.6	22.6	19.0	20.5	16.6	12.8	13.5	—	—	—	17.0	14.7	15.6	24.8	23.7	24.1
2	21.9	18.9	20.8	21.8	20.4	21.0	23.4	21.2	22.3	22.4	13.0	16.5	—	—	—	20.1	15.8	18.6	26.0	24.0	24.8
3	20.9	19.1	20.0	21.8	20.7	21.2	23.8	20.5	22.0	14.2	13.6	13.8	—	—	—	18.9	17.6	18.3	25.5	24.4	24.9
4	20.6	18.5	19.6	21.5	20.7	21.2	24.3	20.4	22.1	13.6	13.4	13.5	—	—	—	18.6	16.9	17.7	25.7	24.6	24.9
5	21.7	19.0	20.3	22.4	20.8	21.4	25.7	21.2	22.9	13.7	13.3	13.4	—	—	—	20.2	17.0	18.1	26.6	25.2	25.7
6	20.2	18.6	19.3	22.2	21.4	21.8	23.7	20.2	21.7	13.5	13.2	13.3	—	—	—	18.0	16.3	17.1	25.9	25.2	25.4
7	19.9	17.7	19.0	22.1	21.6	21.8	23.6	18.9	21.2	13.2	13.0	13.1	—	—	—	17.7	15.4	16.5	26.1	24.9	25.4
8	20.7	18.3	19.6	22.4	21.5	22.0	24.5	19.9	22.1	13.2	13.0	13.1	—	—	—	18.0	15.7	16.8	26.7	25.1	25.7
9	20.5	19.2	19.8	22.6	21.6	22.2	23.9	21.2	22.4	13.3	13.0	13.1	—	—	—	18.0	16.3	17.0	26.4	25.2	25.8
10	21.3	18.9	20.1	22.7	22.0	22.4	24.8	20.5	22.5	13.2	13.0	13.0	—	—	—	18.3	16.0	17.0	26.2	25.2	25.6
11	21.8	19.4	20.5	23.2	22.0	22.6	24.8	21.0	22.8	13.2	12.9	13.0	—	—	—	18.4	16.2	17.1	26.8	25.4	25.8
12	22.3	19.2	20.9	23.0	22.0	22.6	24.6	21.0	22.5	13.2	13.0	13.0	—	—	—	18.0	16.2	16.9	26.4	25.5	25.9
13	23.4	20.3	21.8	23.7	22.6	22.9	26.1	21.6	23.6	13.2	13.0	13.1	—	—	—	19.3	16.6	17.7	27.3	26.0	26.5
14	25.5	20.7	22.3	23.6	22.4	23.1	25.6	21.9	23.1	27.0	13.0	16.5	—	—	—	23.5	16.7	18.4	27.0	26.3	26.6
15	23.7	20.1	22.0	24.4	23.2	23.8	22.7	18.8	20.7	22.0	14.7	18.0	—	—	—	19.1	17.5	18.2	26.3	25.0	25.6
16	20.6	18.7	19.8	23.8	23.0	23.4	20.8	17.6	19.2	14.7	13.8	14.1	—	—	—	17.7	16.2	17.0	25.1	24.5	24.8
17	21.1	19.2	20.1	23.9	23.1	23.5	21.9	18.5	20.0	13.9	13.7	13.8	—	—	—	17.9	16.3	17.0	25.9	24.5	25.2
18	19.6	17.8	18.8	24.1	23.1	23.7	20.4	17.1	18.8	13.7	13.4	13.5	—	—	—	16.9	15.1	16.0	25.7	24.5	25.1
19	19.3	17.6	18.6	24.2	23.6	23.9	20.4	17.0	18.6	13.5	13.3	13.4	—	—	—	16.8	14.8	15.8	24.9	24.4	24.6
20	20.5	18.1	19.2	24.3	23.6	24.0	21.7	18.2	19.7	13.5	13.3	13.4	—	—	—	17.3	15.5	16.3	24.8	24.2	24.4
21	22.7	18.7	20.8	24.5	23.6	24.1	22.4	19.6	20.6	19.8	13.3	14.6	—	—	—	18.5	16.2	17.2	25.6	24.6	25.0
22	21.5	19.3	20.4	24.9	24.1	24.4	22.0	18.3	20.0	13.7	13.4	13.5	—	—	—	17.9	16.1	16.9	25.7	24.8	25.2
23	20.0	17.8	19.0	24.9	24.2	24.5	20.5	16.7	18.5	—	—	—	—	—	—	16.9	15.0	15.9	25.3	24.4	24.8
24	19.2	17.6	18.3	25.4	24.6	24.9	19.2	16.9	17.9	—	—	—	—	—	—	16.1	14.9	15.5	25.0	24.2	24.6
25	19.0	16.6	18.0	25.2	24.5	24.8	19.8	15.9	17.7	—	—	—	—	—	—	16.3	14.1	15.2	24.7	23.8	24.2
26	19.2	16.4	18.0	25.3	24.6	24.9	20.5	15.8	17.9	—	—	—	—	—	—	16.7	14.1	15.3	25.1	23.9	24.4
27	19.6	16.9	18.4	25.1	24.8	24.9	20.8	16.1	18.3	—	—	—	—	—	—	16.8	14.4	15.6	25.2	24.2	24.7
28	20.9	18.1	19.4	25.3	24.8	25.0	20.8	17.4	19.1	—	—	—	—	—	—	17.1	14.9	16.0	24.9	24.3	24.6
29	21.3	19.2	20.2	25.3	22.2	23.7	21.8	19.2	20.2	—	—	—	—	—	—	17.8	16.0	16.8	25.3	24.6	24.9
30	21.8	18.6	20.6	23.3	22.4	22.7	19.8	19.1	19.4	—	—	—	—	—	—	18.3	16.3	16.9	25.3	25.0	25.1
31	22.1	20.2	21.2	23.1	22.2	22.6	21.3	19.1	20.2	—	—	—	—	—	—	18.6	16.5	17.5	25.5	25.0	25.2
Month	**25.5**	**16.2**	**19.8**	**25.4**	**20.1**	**23.1**	**26.1**	**15.8**	**20.6**	**e27**	**e12.8**	**e13.9**	**—**	**—**	**—**	**23.5**	**14.1**	**16.8**	**27.3**	**23.7**	**25.1**

Table 13. Daily, monthly, and annual statistics for water temperature for U.S. Geological Survey stations in the drinking–water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in degrees Celsius. Max, maximum; Min, minimum; e, estimated; —, no data]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											September										
1	22.8	20.1	21.7	25.6	22.4	24.3	21.3	18.5	19.9	—	—	—	—	—	—	18.2	16.4	17.4	26.1	25.0	25.5
2	21.0	18.7	19.9	25.7	25.1	25.4	21.0	16.6	18.7	—	—	—	—	—	—	17.9	15.4	16.6	26.4	24.9	25.6
3	20.4	18.2	19.3	25.9	25.4	25.6	19.6	16.3	17.9	—	—	—	—	—	—	17.3	15.3	16.2	26.2	24.9	25.5
4	19.9	17.3	18.6	26.2	25.4	25.8	19.3	15.5	17.0	—	—	—	—	—	—	16.8	14.8	15.7	25.8	24.8	25.2
5	19.0	16.1	17.6	26.0	25.5	25.7	17.7	14.5	16.0	—	—	—	—	—	—	16.1	13.8	14.9	25.3	24.3	24.8
6	18.8	15.0	16.9	25.7	25.2	25.5	17.7	13.3	15.4	—	—	—	—	—	—	15.9	13.1	14.4	25.4	24.4	24.9
7	19.3	15.8	17.6	25.5	25.0	25.3	18.8	13.9	16.2	—	—	—	—	—	—	16.5	13.5	14.9	26.0	24.5	25.1
8	20.1	16.5	18.3	25.5	24.9	25.2	19.5	14.8	17.1	—	—	—	—	—	—	17.0	14.2	15.5	27.0	24.7	25.5
9	18.7	16.9	18.0	25.6	25.1	25.3	17.6	15.8	16.8	—	—	—	—	—	—	16.0	14.8	15.4	25.8	24.3	25.0
10	17.4	14.5	16.2	25.7	25.0	25.3	16.1	13.7	15.0	—	—	—	—	—	—	15.1	13.0	14.3	25.2	23.8	24.4
11	16.9	12.5	15.0	25.3	24.4	24.8	16.4	12.6	14.4	—	—	—	—	—	—	14.9	11.8	13.4	25.1	23.5	24.3
12	20.0	15.1	17.6	24.9	24.2	24.5	19.7	14.6	16.8	—	—	—	—	—	—	17.4	13.8	15.4	25.5	23.9	24.7
13	20.8	17.0	18.9	25.1	24.6	24.8	20.1	16.6	18.3	—	—	—	—	—	—	17.4	15.2	16.1	25.4	24.7	25.0
14	21.4	18.1	19.8	24.9	24.4	24.7	21.0	17.5	19.1	—	—	—	—	—	—	18.0	15.5	16.6	26.1	24.7	25.3
15	23.0	18.9	20.8	25.1	24.6	24.8	20.5	18.2	19.7	—	—	—	—	—	—	20.7	16.3	17.6	26.0	25.2	25.6
16	21.1	18.2	19.6	25.4	24.8	25.1	19.6	17.7	18.6	—	—	—	—	—	—	17.4	16.2	16.7	25.4	24.6	25.1
17	19.1	17.7	18.0	25.2	24.5	24.8	18.1	17.1	17.7	—	—	—	—	—	—	16.4	15.7	16.0	24.7	24.2	24.4
18	18.8	17.2	18.4	24.8	24.3	24.6	18.4	16.5	17.4	—	—	—	—	—	—	16.6	15.4	15.9	25.9	24.2	25.0
19	18.1	15.9	17.2	24.8	24.1	24.4	19.0	14.7	16.7	—	—	—	—	—	—	16.7	14.3	15.5	26.5	24.4	25.3
20	18.0	16.5	17.2	24.5	24.1	24.3	18.2	15.4	16.8	—	—	—	—	—	—	16.7	14.9	15.8	25.8	25.0	25.2
21	18.3	16.1	17.3	24.3	23.8	24.1	18.2	15.0	16.6	—	—	—	—	—	—	16.7	14.7	15.7	25.2	24.2	24.8
22	18.8	15.7	17.3	24.2	23.6	23.9	18.5	14.4	16.4	—	—	—	—	—	—	17.0	14.3	15.6	25.5	24.2	24.8
23	18.4	16.0	17.4	24.4	23.6	23.9	18.2	15.7	16.9	—	—	—	—	—	—	16.7	14.8	15.8	25.1	24.3	24.8
24	16.2	13.2	14.9	23.9	23.0	23.5	15.7	12.9	14.1	—	—	—	—	—	—	14.8	11.9	13.5	24.6	23.8	24.1
25	14.8	11.8	13.8	23.5	22.7	23.0	14.8	11.7	13.3	—	—	—	—	—	—	13.5	10.5	12.2	24.2	23.4	23.8
26	17.2	14.6	16.1	22.9	22.3	22.6	17.1	14.8	16.0	—	—	—	—	—	—	15.7	13.4	14.7	24.0	23.4	23.8
27	17.9	14.0	16.5	23.2	22.2	22.6	17.4	13.8	16.4	—	—	—	—	—	—	16.0	13.1	15.2	24.8	23.4	24.1
28	16.0	12.2	14.2	22.6	21.7	22.1	15.6	12.3	13.9	—	—	—	—	—	—	14.2	11.4	13.0	24.6	23.7	24.1
29	18.4	13.7	15.7	21.8	21.3	21.6	18.0	13.5	15.0	—	—	—	—	—	—	17.5	12.6	14.0	24.3	23.7	24.1
30	15.3	12.3	13.4	21.7	20.6	21.1	14.5	12.4	13.5	—	—	—	—	—	—	12.7	10.7	11.7	24.4	23.1	23.7
Month	**23.0**	**11.8**	**17.4**	**26.2**	**20.6**	**24.3**	**21.3**	**11.7**	**16.6**	**—**	**—**	**—**	**—**	**—**	**—**	**20.7**	**10.5**	**15.2**	**27.0**	**23.1**	**24.8**
Year	**25.5**	**–.7**	**10.2**	**26.2**	**.8**	**11.9**	**27.6**	**e–.5**	**e11.1**	**—**	**—**	**—**	**e24.7**	**–.1**	**e7.5**	**e23.5**	**e.2**	**e10.3**	**28.5**	**.4**	**13.3**
Results		Good			Good			Good[1]			Good			Good[2]			Excellent[2]			Good	

[1]Records between 06/01/05 and 09/30/05 are rated as poor.

[2]Records that are estimated are rated as poor.

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
October																					
1	1,340	1,170	1,260	730	724	727	1,310	1,120	1,170	966	485	781	333	296	314	231	223	227	580	576	578
2	1,570	1,080	1,370	730	721	726	1,490	1,170	1,280	992	607	957	398	332	339	238	227	230	579	553	575
3	1,570	1,160	1,330	731	719	726	1,540	1,120	1,250	1,050	631	962	357	333	347	247	235	240	556	549	553
4	1,590	1,450	1,530	728	722	725	1,480	1,130	1,290	1,080	1,040	1,060	412	355	384	736	237	312	561	555	558
5	1,720	1,500	1,640	726	720	723	1,640	1,480	1,540	1,120	1,080	1,100	404	396	400	278	230	239	560	556	558
6	1,770	1,700	1,730	725	716	721	1,780	1,640	1,710	1,130	1,120	1,120	406	397	403	235	226	229	563	557	560
7	1,920	1,760	1,830	724	717	720	1,820	1,780	1,790	1,140	1,120	1,130	399	393	396	248	221	228	566	560	563
8	1,890	1,780	1,820	723	715	719	1,870	1,820	1,840	1,140	1,140	1,140	435	396	402	264	248	257	576	565	570
9	1,940	1,810	1,870	722	716	718	1,910	1,870	1,890	1,140	1,130	1,140	535	435	511	267	259	263	583	576	580
10	2,000	1,900	1,950	720	716	718	1,930	1,890	1,910	1,130	1,100	1,110	558	535	546	276	267	272	589	583	586
11	2,050	1,840	1,980	722	711	719	1,960	1,930	1,950	1,140	1,130	1,130	566	527	557	282	275	279	593	587	590
12	2,150	1,810	2,040	724	714	718	1,980	1,960	1,960	1,140	999	1,100	527	451	473	282	278	279	592	590	591
13	2,150	1,960	2,050	720	711	717	1,970	1,940	1,960	1,150	1,130	1,130	456	451	454	285	271	278	598	590	593
14	2,110	2,050	2,080	718	708	716	1,940	1,860	1,900	1,150	1,140	1,140	519	441	456	278	272	275	603	593	598
15	2,200	791	1,970	718	709	715	1,870	700	1,760	1,150	124	800	603	432	537	279	195	267	610	600	606
16	1,220	218	751	714	703	711	700	120	290	970	43	586	486	333	443	239	141	222	611	608	610
17	1,590	1,220	1,410	713	700	710	1,050	519	792	1,070	970	1,030	435	425	432	244	238	241	611	609	610
18	1,770	1,590	1,670	713	704	711	1,440	1,050	1,260	1,110	1,070	1,090	450	424	439	248	239	245	609	604	607
19	1,770	589	1,090	712	701	709	1,520	289	810	1,110	120	424	471	333	383	249	206	227	605	601	603
20	1,490	922	1,260	710	699	706	864	312	563	995	777	916	384	372	379	242	228	236	601	596	599
21	1,660	1,490	1,580	706	702	704	1,330	864	1,110	1,060	995	1,030	378	373	376	248	240	244	597	591	594
22	1,750	1,660	1,690	704	698	702	1,570	1,330	1,450	1,080	1,060	1,070	386	377	382	252	247	250	592	586	589
23	1,830	1,740	1,770	701	689	699	1,740	1,570	1,660	1,100	1,060	1,090	395	385	392	255	250	253	586	583	585
24	1,910	1,800	1,850	699	695	697	1,820	1,740	1,780	1,110	1,100	1,100	440	395	403	257	253	255	583	578	580
25	1,960	1,900	1,930	697	686	695	1,860	1,820	1,840	1,110	986	1,090	491	440	471	259	257	258	578	572	575
26	1,980	1,910	1,950	704	692	697	1,940	1,860	1,900	1,140	1,090	1,120	499	486	490	262	258	259	572	558	562
27	2,030	1,980	2,000	704	687	697	1,990	1,940	1,950	1,130	1,130	1,130	503	499	501	263	261	262	559	556	558
28	2,050	2,010	2,020	698	686	695	2,030	1,990	2,010	1,140	1,130	1,130	509	503	507	268	263	267	557	554	556
29	2,090	2,050	2,080	697	686	694	2,040	2,000	2,020	1,130	1,130	1,130	521	509	515	268	264	266	556	554	555
30	2,100	2,070	2,090	695	686	692	2,060	2,040	2,050	1,130	1,000	1,080	570	516	531	269	263	265	554	552	553
31	2,070	2,010	2,030	696	679	692	2,050	2,020	2,040	1,120	1,050	1,100	575	559	570	277	266	270	552	548	551
Month	**2,200**	**218**	**1,730**	**731**	**679**	**710**	**2,060**	**120**	**1,570**	**1,150**	**43**	**1,030**	**603**	**296**	**443**	**736**	**141**	**255**	**611**	**548**	**579**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
November																					
1	2,110	2,030	2,080	697	677	694	2,020	1,990	2,010	1,130	1,120	1,120	586	560	575	278	268	275	548	543	546
2	2,190	2,110	2,150	696	685	693	1,990	1,930	1,950	1,130	1,120	1,120	590	586	589	275	266	269	544	540	542
3	2,190	2,170	2,180	697	684	693	2,010	1,930	1,960	1,120	1,090	1,110	588	572	580	273	267	270	541	536	538
4	2,210	414	2,040	696	681	689	2,040	834	1,930	1,120	52	932	611	415	570	275	169	262	537	535	536
5	1,320	301	885	691	678	687	834	224	372	971	70	700	518	415	506	251	179	240	535	530	533
6	1,620	1,320	1,500	688	676	685	832	497	622	1,050	971	1,020	511	506	509	254	251	252	531	529	530
7	1,730	1,620	1,670	688	676	685	1,130	832	961	1,070	1,050	1,060	527	508	519	258	253	255	532	528	530
8	1,870	1,730	1,810	690	673	685	1,590	1,130	1,420	1,100	1,070	1,080	548	527	538	265	256	259	536	532	534
9	1,940	1,870	1,900	687	675	683	1,780	1,590	1,680	1,110	1,100	1,110	560	548	554	263	259	261	539	535	537
10	2,000	1,470	1,830	684	673	681	1,890	1,780	1,840	1,110	1,110	1,110	571	560	568	265	262	263	541	538	540
11	2,000	1,880	1,920	683	670	680	1,950	1,880	1,910	1,110	1,100	1,110	574	570	572	266	264	265	541	537	539
12	4,820	1,760	2,270	682	669	678	2,020	1,940	1,980	11,000	879	2,660	755	573	600	266	251	262	537	533	535
13	10,800	4,820	7,420	675	662	670	3,820	2,020	3,030	22,300	2,450	11,000	1,150	615	813	266	251	256	535	532	533
14	6,880	4,960	6,200	670	661	667	5,980	3,650	5,020	2,450	1,250	1,580	616	571	591	265	258	262	534	531	533
15	4,960	2,810	3,850	672	659	667	6,080	4,240	5,650	1,250	799	1,070	578	560	568	266	261	263	534	532	533
16	2,810	2,230	2,360	669	662	665	4,240	2,190	2,890	1,030	789	929	567	558	563	262	259	261	534	531	533
17	2,260	2,140	2,200	668	663	665	2,190	1,920	2,000	1,040	630	907	567	538	556	262	259	260	535	531	533
18	2,190	1,990	2,060	668	663	666	1,920	1,660	1,780	1,030	923	977	538	508	528	262	256	259	534	532	533
19	2,020	1,950	1,970	674	661	668	1,680	1,570	1,610	1,070	1,030	1,060	508	472	494	—	—	e261	534	531	532
20	2,230	1,720	2,060	671	660	668	2,400	1,590	1,740	4,690	1,070	1,260	840	461	484	—	—	e262	533	531	532
21	2,910	2,000	2,360	673	662	668	2,060	1,700	1,960	2,300	1,030	1,230	579	461	475	—	—	e261	533	531	532
22	2,000	1,950	1,970	696	666	680	1,890	1,770	1,820	1,290	745	1,190	463	452	460	—	—	e261	532	531	532
23	2,270	1,950	2,160	694	690	692	1,980	1,830	1,910	1,310	1,280	1,300	452	408	422	279	274	e261	532	531	531
24	3,590	1,570	2,260	694	689	692	2,110	1,510	1,970	1,670	312	1,130	560	386	413	283	233	e260	533	530	532
25	2,060	1,000	1,360	695	686	693	1,570	569	900	1,020	162	673	490	354	391	272	229	258	533	530	532
26	1,750	1,310	1,540	693	688	691	936	735	793	1,160	755	1,070	379	372	375	264	261	263	531	529	530
27	1,890	1,750	1,840	690	685	688	1,410	936	1,170	1,200	1,160	1,180	383	375	380	267	264	265	531	529	530
28	1,880	297	1,360	691	669	686	1,560	137	1,060	1,210	41	792	478	218	353	268	141	239	531	527	529
29	1,220	378	955	686	679	683	972	222	555	786	292	612	346	316	333	238	207	223	528	526	527
30	1,360	1,140	1,300	685	681	683	1,490	972	1,250	855	786	830	325	317	321	249	238	243	527	524	526
Month	**10,800**	**297**	**2,250**	**697**	**659**	**681**	**6,080**	**137**	**1,860**	**22,300**	**41**	**1,430**	**1,150**	**218**	**507**	**e283**	**e141**	**e258**	**548**	**524**	**533**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											December										
1	1,410	308	871	686	677	682	1,550	221	931	950	81	528	349	249	307	252	179	230	527	524	525
2	1,180	785	1,050	681	677	679	1,160	425	729	772	600	711	319	303	312	243	230	237	527	525	526
3	1,290	1,170	1,230	680	676	678	1,630	1,160	1,410	812	761	787	309	302	305	252	243	247	526	524	525
4	1,390	1,290	1,340	678	673	675	1,840	1,630	1,730	838	812	827	314	285	306	258	252	255	525	523	524
5	1,500	1,380	1,430	734	673	686	1,950	1,840	1,890	856	831	844	319	287	308	261	258	259	526	523	524
6	1,550	1,500	1,530	733	726	730	2,080	1,930	2,010	1,970	838	954	352	308	323	265	260	263	525	522	524
7	6,180	497	3,040	730	716	724	4,910	332	2,230	18,500	157	3,840	1,370	307	534	277	180	239	522	521	522
8	1,150	496	917	722	716	719	1,080	336	714	646	295	528	328	306	318	231	204	218	521	519	521
9	1,230	1,140	1,190	724	717	721	1,710	1,080	1,460	705	646	680	307	287	292	239	231	235	520	518	519
10	1,240	403	1,030	724	713	721	1,860	388	1,450	775	96	497	309	267	298	239	169	229	520	519	519
11	917	327	669	720	714	716	996	197	516	607	90	468	293	245	284	221	153	206	519	517	518
12	1,100	917	1,020	718	714	716	1,620	996	1,380	686	607	650	284	276	280	233	221	227	518	516	517
13	1,200	1,100	1,140	717	713	716	1,870	1,620	1,740	724	686	701	306	283	294	238	233	235	518	516	517
14	1,260	1,150	1,230	717	713	715	2,050	1,870	1,960	777	724	753	309	299	305	244	238	241	518	515	517
15	1,340	1,260	1,300	717	710	714	2,140	2,050	2,090	808	777	790	328	307	317	250	244	246	516	514	515
16	1,370	1,210	1,330	714	710	712	2,180	2,130	2,160	828	806	817	341	327	337	254	250	252	515	513	514
17	1,410	1,330	1,360	714	709	712	2,210	2,140	2,170	844	807	824	344	339	341	257	253	254	514	512	513
18	1,460	1,400	1,430	715	710	713	2,300	2,210	2,260	871	843	859	348	340	345	259	254	257	513	510	512
19	1,450	1,380	1,430	714	709	712	2,390	2,270	2,300	2,530	857	1,000	423	346	354	285	256	259	512	510	511
20	6,080	1,450	4,730	713	707	711	4,060	2,310	2,960	21,600	1,530	7,750	1,050	377	606	286	252	257	511	508	510
21	3,930	2,040	2,520	714	708	711	5,460	4,060	4,890	1,530	1,140	1,280	378	364	370	264	260	262	510	507	508
22	2,580	1,930	2,110	717	710	713	4,430	3,830	4,120	2,020	992	1,310	410	367	377	275	261	265	508	505	507
23	3,890	663	2,320	715	694	711	4,580	428	3,650	4,800	168	1,810	728	306	400	319	145	258	508	505	507
24	1,150	617	952	709	697	703	1,530	422	976	676	323	e530	356	289	312	229	209	222	507	503	505
25	1,220	1,140	1,190	710	700	703	2,100	1,530	1,860	719	676	e655	289	279	284	233	229	231	504	501	503
26	2,380	1,220	1,610	711	703	708	—	—	e1,930	—	—	e2,720	579	280	346	238	232	236	503	499	501
27	2,310	1,500	1,900	706	698	702	—	—	e1,970	—	—	e939	419	322	343	244	234	239	503	500	501
28	2,070	1,440	1,630	703	692	699	—	—	e1,870	—	—	e708	359	321	329	—	—	e240	500	496	498
29	1,640	1,410	1,490	694	668	683	—	—	e1,810	—	—	e1,050	454	359	416	—	—	e240	497	495	496
30	1,620	1,440	1,510	676	661	669	—	—	e1,750	—	—	e1,010	465	438	450	—	—	e241	495	492	494
31	2,360	1,430	1,670	673	657	667	—	—	e1,730	—	—	e957	519	458	475	—	—	e240	494	492	493
Month	**6,180**	**308**	**1,550**	**734**	**657**	**704**	**e5,460**	**e197**	**e1,960**	**e21,600**	**e81**	**e1,220**	**1,370**	**245**	**351**	**e319**	**e145**	**e243**	**527**	**492**	**512**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
										January											
1	2,250	1,230	1,510	679	661	671	—	—	e1,570	—	—	e1,010	473	447	455	—	—	e241	493	490	492
2	1,580	1,230	1,310	677	662	670	—	—	e1,470	—	—	e1,130	473	443	447	—	—	e241	492	490	491
3	1,630	1,100	1,320	676	661	670	—	—	e1,390	—	—	e815	486	429	441	—	—	e242	491	489	490
4	1,820	847	1,030	675	663	670	2,640	767	1,270	787	278	e957	473	398	416	251	228	242	489	486	488
5	2,370	1,020	1,590	673	661	668	3,090	1,320	2,010	6,090	787	1,860	591	416	443	336	251	268	488	485	487
6	8,850	1,540	3,960	675	660	668	7,560	2,760	3,600	17,300	1,040	5,890	1,720	428	648	358	250	277	488	486	487
7	6,050	1,930	3,070	671	656	664	7,550	2,950	4,740	3,870	1,210	1,860	524	463	477	358	282	308	488	485	487
8	5,610	1,500	2,340	669	654	663	3,490	2,610	2,850	11,800	1,110	4,680	1,170	467	575	283	263	271	487	483	486
9	5,830	2,220	3,410	671	654	663	6,380	3,490	5,480	7,950	1,800	3,340	572	476	496	292	270	279	485	483	485
10	2,730	1,780	2,170	673	659	667	6,560	4,130	5,610	1,800	1,440	1,550	500	476	484	281	275	279	484	482	483
11	2,280	1,630	1,780	674	660	668	4,130	3,520	3,880	1,440	1,220	1,310	518	483	485	280	276	278	484	481	483
12	11,800	1,630	5,370	668	650	661	7,180	3,490	4,350	16,200	1,150	5,750	1,240	510	696	778	273	360	483	482	483
13	2,980	1,720	2,000	659	645	652	3,790	2,100	2,840	1,150	526	917	519	491	503	328	280	296	482	481	482
14	1,760	615	915	674	653	664	2,100	745	1,040	781	296	572	501	375	445	286	231	258	483	480	481
15	1,040	818	961	672	655	663	2,470	985	1,860	831	781	820	375	339	345	259	249	255	481	479	480
16	1,190	1,040	1,100	668	655	663	2,600	2,470	2,550	5,080	831	989	388	339	344	265	258	263	481	479	480
17	2,080	1,190	1,800	675	659	667	3,990	2,600	2,850	5,460	909	1,870	443	353	374	277	263	269	481	478	479
18	1,550	1,420	1,450	681	670	676	4,190	3,380	3,740	968	915	948	395	359	378	282	274	277	480	477	479
19	3,050	1,420	1,520	686	675	680	3,380	2,950	3,170	7,540	917	1,930	544	395	420	285	266	279	478	475	476
20	5,770	2,360	3,900	687	678	682	4,300	2,970	3,260	7,850	3,110	4,420	561	410	462	292	264	277	475	473	474
21	2,360	1,760	1,910	689	679	683	5,530	4,300	4,900	3,110	981	1,790	421	410	415	284	277	280	477	473	474
22	1,770	1,600	1,710	699	685	693	4,310	3,370	3,810	1,040	974	995	437	421	430	282	269	279	475	474	475
23	1,810	1,520	1,690	707	695	702	3,400	3,290	3,340	1,040	933	965	452	429	442	271	262	268	475	474	475
24	1,650	1,550	1,580	718	704	711	3,290	3,020	3,150	1,620	944	1,060	443	429	433	283	270	273	475	474	474
25	1,700	1,560	1,620	726	714	720	3,020	2,430	2,810	1,480	934	1,050	441	432	434	281	273	275	476	473	475
26	2,050	1,600	1,700	729	719	725	2,810	2,470	2,630	1,150	934	997	441	432	435	274	270	272	477	476	476
27	2,420	2,050	2,320	737	723	729	2,890	2,750	2,820	2,280	960	1,370	459	437	445	274	272	273	477	476	477
28	2,230	1,790	1,970	742	730	736	3,130	2,850	2,980	1,080	951	987	454	444	449	301	273	276	479	476	477
29	1,790	1,690	1,730	749	739	744	3,190	3,030	3,120	1,530	951	1,110	464	453	458	341	273	283	479	477	478
30	1,800	1,620	1,710	755	745	750	3,050	2,960	2,990	1,930	984	1,300	472	456	461	321	272	280	479	478	478
31	1,800	1,660	1,720	760	748	754	3,060	2,840	2,960	1,280	971	1,070	469	459	463	285	273	275	479	478	479
Month	**11,800**	**615**	**2,010**	**760**	**645**	**687**	**e7,560**	**e745**	**e3,070**	**e17,300**	**e278**	**e1,780**	**1,720**	**339**	**458**	**e778**	**e228**	**e274**	**493**	**473**	**481**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											February										
1	1,680	1,610	1,650	768	756	762	3,050	2,800	2,940	1,280	977	1,060	477	466	471	284	274	276	481	478	480
2	1,650	1,600	1,620	770	761	766	2,870	2,690	2,800	1,410	985	1,120	483	472	476	293	275	279	481	480	480
3	3,500	1,570	1,860	772	765	769	3,220	2,660	2,780	8,940	943	2,870	708	476	519	723	275	311	481	480	480
4	10,400	3,500	7,390	778	765	773	7,100	3,220	5,540	15,600	2,170	7,950	835	505	638	545	280	355	482	480	481
5	5,370	2,720	3,580	785	773	779	7,100	3,500	5,150	2,170	1,240	1,720	532	497	509	358	293	314	483	481	482
6	2,820	2,190	2,440	787	722	781	3,500	2,800	3,020	1,320	1,170	1,210	516	505	508	307	294	299	483	482	482
7	2,320	2,080	2,190	785	724	733	2,900	2,740	2,800	1,220	1,150	1,190	585	500	529	303	291	295	483	482	483
8	2,160	2,000	2,070	743	733	738	2,920	2,780	2,850	1,210	1,140	1,190	534	526	529	301	289	292	484	482	484
9	2,200	1,910	2,060	744	737	740	2,930	2,610	2,770	1,240	1,070	1,150	535	526	530	308	288	295	485	484	484
10	3,010	1,090	1,750	745	737	741	2,620	951	1,590	8,880	442	2,580	899	509	605	370	273	293	487	484	485
11	4,450	2,200	3,320	752	741	747	6,530	1,660	4,280	10,300	3,340	6,070	872	494	576	506	275	315	487	485	486
12	2,200	1,650	1,810	760	749	755	5,690	3,370	4,030	3,340	1,140	2,370	504	495	498	291	286	288	486	485	485
13	1,750	1,690	1,710	761	756	758	3,370	2,780	2,960	1,140	1,070	1,120	514	503	509	288	286	287	486	484	485
14	1,760	1,700	1,720	763	756	759	2,880	2,810	2,840	2,930	1,070	1,160	634	513	522	305	286	287	486	485	485
15	3,800	935	1,510	767	759	763	2,850	1,080	1,560	3,300	452	955	781	464	517	331	247	266	488	485	487
16	1,230	741	1,090	774	764	769	2,300	1,310	1,870	1,140	483	836	582	415	448	265	229	258	489	487	488
17	1,160	761	1,020	781	772	776	2,120	1,070	1,560	876	629	813	437	407	419	261	247	257	489	486	488
18	1,310	1,160	1,240	787	778	783	2,400	2,120	2,280	921	876	898	424	407	414	268	260	264	489	487	488
19	1,420	1,310	1,380	791	781	786	2,430	2,370	2,410	958	921	937	454	424	440	277	263	271	489	484	487
20	1,500	1,420	1,470	801	790	795	2,530	2,420	2,470	960	937	948	476	454	467	269	255	262	484	476	480
21	5,690	1,490	3,140	805	797	801	3,080	2,520	2,570	9,460	950	4,720	869	475	601	257	246	252	476	470	473
22	5,600	2,640	3,760	809	801	806	6,610	3,080	5,840	8,530	2,820	4,620	626	497	537	405	248	273	470	467	468
23	2,640	2,090	2,270	813	808	810	6,430	4,950	5,810	3,090	1,410	2,430	541	497	508	402	259	276	467	465	466
24	2,170	1,880	2,000	816	811	813	4,950	3,480	3,830	2,350	1,010	1,110	599	507	519	277	268	273	465	464	465
25	8,060	1,890	5,390	819	812	814	3,640	3,280	3,430	9,640	2,350	5,230	881	533	628	438	276	309	465	464	465
26	4,320	2,200	2,910	822	815	818	5,760	3,550	4,770	2,480	1,990	2,190	564	516	541	290	286	288	465	464	464
27	2,210	1,980	2,070	826	817	821	5,180	3,920	4,410	2,210	1,930	2,060	558	543	550	292	287	288	466	465	466
28	1,980	1,930	1,960	828	823	825	3,920	3,480	3,650	11,800	1,360	2,300	976	556	582	289	275	286	466	465	466
Month	**10,400**	**741**	**2,370**	**828**	**722**	**778**	**7,100**	**951**	**3,310**	**15,600**	**442**	**2,240**	**976**	**407**	**521**	**723**	**229**	**286**	**489**	**464**	**479**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
March																					
1	7,950	1,950	4,670	830	757	794	5,720	3,320	3,770	13,000	2,950	6,340	1,090	526	673	589	274	330	468	465	466
2	6,990	3,580	5,470	763	756	759	6,970	5,660	6,430	3,400	1,960	2,670	551	449	479	463	294	323	469	466	468
3	3,580	2,550	2,900	764	757	760	6,030	4,490	5,130	1,960	1,710	1,780	458	444	451	297	292	294	470	468	469
4	2,550	2,260	2,370	762	756	759	4,490	3,620	3,970	1,760	1,650	1,710	487	429	457	294	290	292	470	468	469
5	2,330	2,150	2,220	761	754	757	3,700	3,310	3,520	1,650	1,550	1,610	480	441	463	309	289	293	472	469	471
6	2,340	2,160	2,250	761	754	758	3,470	3,300	3,400	1,560	1,460	1,520	464	459	461	297	287	290	472	470	471
7	2,570	2,160	2,280	760	754	757	3,370	2,160	3,130	1,460	949	1,280	481	460	467	315	286	296	472	471	471
8	3,920	1,950	2,910	759	751	755	3,640	2,040	2,360	4,900	925	2,480	1,250	468	583	566	289	326	478	470	472
9	4,340	2,430	3,100	760	752	756	4,360	2,900	3,540	8,160	2,890	4,540	797	413	548	339	283	298	475	472	473
10	3,310	2,230	2,620	763	756	759	5,450	4,360	5,060	3,070	2,150	2,400	489	444	471	348	295	303	474	471	472
11	3,440	2,100	2,550	765	752	757	4,870	4,320	4,510	7,320	2,180	3,280	884	460	522	334	294	300	473	472	473
12	16,100	2,540	7,080	754	746	750	7,720	4,270	5,710	12,200	2,490	8,340	1,770	480	805	363	281	292	475	473	473
13	16,800	4,960	10,400	752	741	748	9,700	6,580	8,560	11,400	6,070	9,050	997	528	636	454	288	341	475	473	474
14	4,960	3,260	3,780	749	740	744	6,580	3,660	4,820	6,070	4,210	4,630	535	491	511	328	314	319	475	474	474
15	3,570	2,910	3,210	755	744	749	3,700	2,440	3,340	4,310	3,580	4,020	525	498	514	319	314	317	475	474	475
16	2,950	2,480	2,730	757	749	753	3,260	2,420	2,720	3,580	2,790	3,170	530	492	511	317	313	315	477	474	476
17	2,490	2,240	2,400	760	751	755	3,240	2,680	2,850	2,790	1,970	2,420	513	488	500	316	312	314	478	474	476
18	2,280	2,060	2,210	758	743	752	3,190	2,830	3,060	1,970	1,380	1,640	506	487	497	316	311	313	477	474	476
19	2,060	1,810	2,000	749	731	740	3,090	2,790	2,970	1,380	1,230	1,280	500	446	486	314	307	311	478	475	477
20	1,880	1,660	1,820	733	720	727	3,060	2,840	2,980	1,230	1,180	1,190	501	487	494	313	305	309	479	475	478
21	1,740	1,620	1,690	772	709	721	3,060	2,830	2,970	1,180	1,130	1,140	497	461	485	309	304	307	480	477	478
22	1,690	1,410	1,590	770	703	746	3,030	2,910	2,980	1,130	1,070	1,110	490	457	476	308	298	305	479	477	478
23	1,630	1,410	1,550	759	747	754	3,000	2,770	2,870	1,100	1,050	1,070	472	461	468	302	296	300	481	478	480
24	10,700	1,620	5,220	756	739	747	10,300	2,710	5,170	12,300	1,100	10,600	1,600	466	737	328	295	311	481	480	481
25	2,510	1,760	2,030	746	729	738	3,330	2,510	2,900	8,240	3,800	5,160	541	518	531	314	301	309	482	479	481
26	1,850	1,760	1,820	739	714	729	3,260	2,940	3,050	3,800	3,140	3,380	536	514	527	305	298	301	483	479	481
27	1,880	1,730	1,820	727	712	721	3,270	3,050	3,180	3,180	2,930	3,080	533	518	527	298	291	296	483	481	482
28	2,770	914	1,630	721	695	710	3,170	705	2,010	2,930	374	1,530	599	475	521	293	218	266	483	482	483
29	1,400	929	1,160	702	684	692	806	715	738	1,070	412	837	508	358	401	284	209	258	484	482	483
30	1,610	1,400	1,530	721	693	708	2,050	806	1,320	1,190	1,070	1,130	411	356	385	297	253	291	485	480	482
31	1,780	1,610	1,680	715	655	690	2,420	2,040	2,260	1,280	1,190	1,230	430	409	421	302	271	295	485	480	482
Month	**16,800**	**914**	**2,930**	**830**	**655**	**743**	**10,300**	**705**	**3,590**	**13,000**	**374**	**3,080**	**1,770**	**356**	**516**	**589**	**209**	**304**	**485**	**465**	**476**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
										April											
1	1,840	1,710	1,760	699	613	676	2,440	2,310	2,390	1,320	1,280	1,290	437	422	429	297	289	292	484	480	482
2	1,980	675	1,320	668	585	636	2,380	409	1,300	1,670	219	874	459	405	424	298	244	278	484	482	483
3	1,530	502	1,090	926	658	776	1,230	340	710	1,090	165	787	448	372	406	288	210	268	485	479	481
4	1,690	1,400	1,550	823	791	807	1,970	966	1,410	1,200	1,090	1,140	488	448	474	290	284	287	481	478	480
5	1,830	1,660	1,740	791	737	760	2,260	1,970	2,150	1,250	1,200	1,220	496	473	489	292	274	288	481	478	479
6	2,080	1,800	1,870	750	729	740	2,850	2,260	2,400	1,280	1,240	1,260	483	473	478	298	286	293	481	477	479
7	1,950	1,860	1,910	747	735	739	2,950	2,430	2,610	1,310	1,280	1,290	497	483	493	299	293	297	482	476	478
8	2,120	1,020	1,570	776	734	750	2,450	762	1,400	1,540	433	1,070	544	479	499	296	271	287	479	470	475
9	1,990	1,840	1,910	784	745	766	2,190	1,630	1,960	1,330	1,280	1,310	525	512	519	300	294	297	478	474	476
10	2,080	1,950	2,010	778	749	764	2,390	2,190	2,310	1,360	1,330	1,340	533	524	529	306	300	303	476	470	473
11	2,140	2,050	2,100	791	761	770	2,500	2,040	2,430	1,380	1,360	1,370	541	533	535	312	305	308	480	469	475
12	2,200	2,050	2,130	785	758	769	2,600	2,090	2,520	1,390	1,360	1,380	548	539	544	313	309	311	482	474	476
13	2,210	2,110	2,160	788	762	772	2,620	2,530	2,570	1,380	1,350	1,370	552	545	548	314	311	313	478	475	477
14	2,290	2,180	2,220	784	760	770	2,660	2,130	2,580	1,420	1,360	1,380	562	551	556	314	311	313	480	476	477
15	2,390	2,250	2,300	778	761	769	2,740	2,630	2,680	1,440	1,400	1,420	563	554	559	314	312	313	479	477	478
16	2,420	2,310	2,360	780	763	772	2,770	2,680	2,730	1,460	1,420	1,440	566	559	562	316	313	314	481	477	479
17	2,450	2,350	2,400	790	768	778	2,800	2,720	2,760	1,460	1,420	1,440	571	552	564	316	313	315	480	470	479
18	2,520	2,400	2,460	793	781	786	2,810	2,750	2,790	1,490	1,450	1,460	571	553	565	319	315	317	482	471	479
19	2,570	2,470	2,530	789	775	781	2,830	2,790	2,820	1,500	1,470	1,480	573	564	569	319	315	317	484	474	481
20	2,580	2,060	2,530	786	773	779	2,850	2,380	2,810	1,930	1,490	1,520	636	564	571	323	317	319	483	481	482
21	3,020	1,690	2,130	789	776	783	2,810	1,420	1,850	1,820	661	1,280	605	558	572	321	309	316	484	478	482
22	2,530	2,330	2,440	788	776	782	2,220	1,490	1,860	1,530	1,480	1,500	613	571	582	318	313	316	486	483	484
23	2,990	858	1,940	781	775	778	2,320	611	1,670	1,510	353	1,060	646	488	568	313	282	302	488	484	485
24	1,820	738	1,340	777	771	774	1,020	459	754	1,240	303	859	575	463	510	300	252	279	485	481	483
25	2,080	1,050	1,670	775	769	772	1,450	846	1,100	1,280	570	1,110	520	486	494	289	269	282	483	480	481
26	2,390	2,010	2,160	773	767	770	1,990	1,200	1,600	1,350	1,280	1,320	522	501	514	297	289	293	483	480	481
27	2,410	829	1,830	772	766	769	2,110	568	1,660	1,360	365	1,000	540	474	519	300	256	287	484	481	483
28	2,040	1,490	1,790	770	764	767	1,380	666	1,140	1,270	921	1,130	519	510	514	288	278	283	484	481	483
29	2,270	2,040	2,150	769	764	766	2,050	1,380	1,700	1,350	1,270	1,310	531	519	525	296	287	292	485	483	484
30	2,710	760	2,050	769	763	767	2,230	938	2,050	1,360	333	1,090	559	458	528	297	248	290	487	484	485
Month	**3,020**	**502**	**1,980**	**926**	**585**	**763**	**2,950**	**340**	**2,020**	**1,930**	**165**	**1,250**	**646**	**372**	**521**	**323**	**210**	**299**	**488**	**469**	**480**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											May										
1	1,800	764	1,370	767	761	764	1,100	645	840	1,220	552	998	530	501	513	283	264	278	487	483	485
2	2,080	1,750	1,940	764	759	762	1,710	926	1,280	1,310	1,220	1,280	520	510	515	292	283	288	488	485	486
3	2,230	1,940	2,060	767	759	762	1,960	1,650	1,840	1,350	997	1,260	535	516	526	296	286	293	488	487	488
4	2,340	2,180	2,250	768	754	764	2,080	1,830	1,920	1,380	1,350	1,360	548	533	542	298	296	297	490	488	489
5	2,440	2,310	2,370	774	762	768	2,360	2,070	2,200	1,420	1,380	1,390	562	546	554	301	297	299	491	489	490
6	2,490	2,410	2,450	768	762	765	2,590	2,300	2,440	1,430	1,420	1,420	561	555	558	303	299	301	493	491	492
7	2,480	917	1,520	767	754	760	2,610	608	1,480	1,430	459	747	584	497	530	303	265	279	493	490	491
8	2,030	1,140	1,730	756	752	754	1,310	670	957	1,290	900	1,190	518	499	506	285	275	282	492	491	492
9	2,280	2,030	2,120	756	750	753	1,940	1,310	1,630	1,350	1,260	1,320	527	505	517	290	285	287	493	491	492
10	2,430	2,260	2,340	767	751	758	2,230	1,930	2,050	1,400	1,350	1,370	543	527	534	295	289	291	494	492	493
11	2,550	2,390	2,470	763	749	753	2,310	2,200	2,250	1,440	1,400	1,420	559	542	552	299	292	296	496	492	493
12	2,680	2,530	2,590	762	748	756	2,470	2,290	2,350	1,500	1,440	1,460	564	556	560	302	296	299	498	495	496
13	2,740	2,590	2,680	765	755	759	2,570	2,460	2,520	1,520	1,490	1,500	573	562	566	308	300	302	499	497	498
14	2,770	2,660	2,720	769	752	759	2,590	2,530	2,570	1,530	1,510	1,520	577	570	573	304	302	303	500	498	499
15	2,770	2,710	2,740	762	754	758	2,620	2,520	2,590	1,560	1,530	1,540	574	566	569	310	304	305	501	499	500
16	3,650	1,470	2,240	758	753	755	2,620	758	1,250	1,560	615	1,170	676	521	568	306	284	295	503	498	500
17	2,700	2,410	2,560	757	721	739	1,950	1,200	1,640	1,520	1,440	1,480	574	562	567	303	298	300	503	501	502
18	3,780	1,790	2,600	723	713	719	2,270	1,950	2,110	1,560	1,520	1,550	576	565	569	337	301	310	504	502	503
19	2,610	1,990	2,370	721	710	715	2,390	2,080	2,290	1,590	1,440	1,540	596	571	576	338	301	306	506	503	504
20	2,770	2,610	2,680	715	707	712	2,440	1,960	2,320	1,630	1,590	1,600	580	575	577	314	303	306	508	505	506
21	2,940	2,090	2,780	712	705	709	2,530	2,220	2,480	1,640	1,430	1,610	579	564	574	306	303	305	508	505	507
22	2,690	802	1,760	710	699	705	2,330	673	1,180	1,540	655	1,210	611	502	553	303	279	295	509	505	508
23	2,840	1,040	2,340	705	697	702	1,970	1,220	1,560	1,830	704	1,500	626	538	556	300	279	297	509	506	508
24	1,220	506	868	700	684	693	1,800	436	710	1,200	502	847	559	464	518	291	246	277	508	502	506
25	1,110	427	731	689	678	683	813	315	514	1,030	491	743	475	407	455	256	214	243	503	499	502
26	1,050	341	746	681	654	668	1,310	279	675	1,100	472	896	424	371	415	228	171	216	501	497	499
27	1,460	839	1,200	673	652	664	1,530	849	1,160	1,310	1,040	1,220	465	420	444	233	218	227	502	497	499
28	1,740	1,460	1,580	671	659	665	1,930	1,530	1,770	1,480	1,090	1,350	506	465	481	249	233	241	502	500	501
29	1,930	1,610	1,760	685	659	673	2,020	1,540	1,740	1,420	759	1,250	526	482	508	252	239	247	504	499	501
30	1,980	1,800	1,880	696	677	686	—	—	e1,880	1,470	1,390	1,440	529	516	521	255	249	252	503	499	501
31	2,080	1,970	2,020	690	683	686	—	—	e2,020	1,510	1,470	1,480	543	529	538	258	254	256	503	499	501
Month	**3,780**	**341**	**2,050**	**774**	**652**	**728**	**e2,620**	**e279**	**e1,750**	**1,830**	**459**	**1,310**	**676**	**371**	**533**	**338**	**171**	**283**	**509**	**483**	**498**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											June										
1	2,190	2,070	2,120	697	679	689	—	—	e2,120	1,550	1,510	1,520	549	542	545	316	258	263	503	500	502
2	2,270	2,180	2,210	691	668	681	—	—	e2,210	1,600	1,540	1,560	553	545	547	269	261	265	507	502	504
3	2,340	2,270	2,310	695	675	687	—	—	e2,310	1,650	1,590	1,610	553	546	549	273	267	270	514	505	509
4	2,430	2,300	2,390	707	687	696	—	—	e2,390	1,710	1,640	1,660	561	552	556	280	272	276	516	509	512
5	2,550	2,430	2,490	708	691	701	—	—	e2,490	1,770	1,700	1,720	566	555	560	285	276	280	528	510	514
6	2,700	2,520	2,580	704	690	698	—	—	e2,580	1,790	1,750	1,770	577	562	572	285	280	282	528	515	521
7	2,660	2,390	2,550	693	679	686	—	—	e2,550	1,850	1,770	1,800	588	573	581	290	282	286	541	528	533
8	2,810	503	2,520	697	685	691	—	—	e2,520	1,900	627	1,740	624	371	571	309	165	284	566	528	539
9	1,930	536	1,330	690	679	685	—	—	e2,020	1,550	732	1,250	500	455	489	272	188	256	547	533	538
10	2,290	1,920	2,120	688	674	683	—	—	e1,770	1,650	1,550	1,590	504	487	494	277	268	272	555	540	547
11	2,510	2,290	2,410	690	677	684	—	—	e2,040	1,730	1,650	1,670	540	504	522	286	276	281	572	544	551
12	2,680	2,500	2,600	686	677	682	—	—	e2,100	1,780	1,730	1,740	552	529	542	287	281	284	596	546	566
13	2,790	2,640	2,710	686	676	680	—	—	e2,230	1,820	1,760	1,790	560	537	552	309	285	291	588	552	564
14	2,810	1,710	2,610	685	669	677	—	—	e2,180	1,840	1,260	1,700	654	539	564	291	283	288	581	556	565
15	3,000	1,320	1,980	683	672	678	1,250	942	1,120	1,780	1,070	1,540	688	556	584	284	267	280	563	541	550
16	2,400	1,500	2,200	675	667	671	1,680	1,250	1,450	1,800	929	1,680	603	471	583	295	225	278	541	533	539
17	2,040	1,150	1,620	765	665	730	1,720	959	1,200	1,880	957	1,310	563	549	556	278	256	272	545	534	537
18	2,570	2,040	2,330	767	758	762	1,750	1,100	1,420	1,590	1,520	1,550	563	546	559	281	277	279	540	536	537
19	2,770	2,570	2,670	763	756	760	2,050	1,750	1,890	1,620	1,580	1,600	571	528	557	282	280	281	540	537	538
20	2,950	2,770	2,840	764	754	759	2,210	2,050	2,150	1,670	1,610	1,630	579	536	564	291	281	285	545	537	540
21	3,080	2,930	2,990	761	754	757	2,410	2,200	2,330	1,670	1,630	1,650	597	579	587	308	285	291	558	543	550
22	3,090	2,890	2,990	762	756	759	2,440	2,360	2,410	1,740	1,280	1,580	624	593	601	295	292	294	556	549	552
23	3,160	2,990	3,090	762	756	759	2,420	2,360	2,390	1,660	1,640	1,650	614	600	605	300	291	296	563	547	554
24	3,340	3,050	3,180	760	751	757	2,520	2,330	2,420	1,660	1,650	1,660	632	611	e606	314	298	303	572	554	560
25	3,580	3,130	3,340	762	756	758	2,550	2,400	2,460	1,660	1,640	1,650	—	—	e629	—	—	e295	583	558	568
26	3,670	3,350	3,530	763	757	760	2,600	2,410	2,500	1,650	1,640	1,640	—	—	e609	—	—	e295	592	568	577
27	3,710	3,390	3,580	764	757	760	2,580	2,420	2,490	1,640	1,630	1,640	—	—	e608	—	—	e295	611	577	585
28	3,730	3,310	3,580	762	755	759	2,500	2,420	2,460	1,850	1,470	1,610	—	—	e617	—	—	e294	607	583	597
29	3,600	3,400	3,490	763	751	756	2,470	2,350	2,410	1,700	1,560	1,620	—	—	e669	—	—	e294	606	598	601
30	3,510	3,320	3,430	759	747	753	2,410	2,300	2,350	1,620	1,560	1,610	—	—	e678	—	—	e294	600	586	595
Month	**3,730**	**503**	**2,660**	**767**	**665**	**719**	**e2,600**	**e942**	**e2,170**	**1,900**	**627**	**1,620**	**e688**	**e371**	**e575**	**e316**	**e165**	**e283**	**611**	**500**	**548**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											July										
1	3,500	3,310	3,430	757	744	752	2,340	2,230	2,300	1,630	1,590	1,610	—	—	e719	—	—	e294	596	587	591
2	3,460	3,330	3,390	755	746	751	2,420	2,290	2,350	1,620	1,610	1,610	—	—	e684	—	—	e294	610	592	599
3	3,490	3,340	3,410	754	746	750	2,520	2,280	2,400	1,610	1,610	1,610	—	—	e682	—	—	e294	610	590	597
4	3,460	3,360	3,420	754	737	746	2,600	2,320	2,480	1,610	1,600	1,610	—	—	e678	—	—	e294	603	592	598
5	3,530	3,440	3,490	750	733	742	2,840	2,380	2,640	1,610	1,600	1,610	—	—	e696	—	—	e294	617	597	607
6	3,550	659	1,800	744	732	738	2,710	675	1,890	1,600	43	730	—	—	e536	—	—	e220	616	591	604
7	2,660	1,280	2,080	752	724	736	5,130	115	894	1,910	872	1,320	—	—	e457	—	—	e292	592	580	586
8	2,960	210	2,090	739	722	732	1,550	120	1,090	1,620	30	1,050	—	—	e464	232	112	210	586	566	578
9	1,700	359	1,040	748	730	739	1,030	139	481	1,180	82	714	—	—	e388	215	178	205	581	566	573
10	2,120	1,030	1,740	752	740	746	1,070	556	770	1,490	815	1,260	—	—	e402	239	214	227	588	572	579
11	2,650	2,120	2,400	762	742	751	1,470	1,060	1,300	1,590	1,490	1,520	—	—	e421	257	238	249	592	581	586
12	2,960	2,550	2,750	764	747	759	1,720	1,450	1,590	1,610	1,590	1,590	—	—	e629	267	255	260	596	583	588
13	3,170	2,760	2,980	763	756	760	1,850	1,700	1,770	1,610	1,600	1,610	—	—	e612	306	265	270	606	592	598
14	3,350	3,050	3,180	762	756	759	1,910	1,820	1,870	1,610	1,610	1,610	—	—	e619	299	270	277	616	598	607
15	3,400	3,240	3,330	763	757	760	1,980	1,860	1,920	1,610	1,600	1,610	—	—	e641	289	275	282	620	600	611
16	3,520	3,340	3,470	761	756	759	2,030	1,910	1,980	1,610	1,600	1,600	—	—	e644	291	282	287	641	618	624
17	3,610	3,400	3,560	762	756	758	2,030	1,920	1,980	1,600	1,590	1,600	—	—	e653	300	291	295	637	622	629
18	3,660	3,530	3,620	762	755	759	2,030	1,820	2,000	1,600	1,590	1,600	—	—	e662	344	300	305	640	623	631
19	3,680	3,560	3,630	763	755	759	2,170	1,960	2,040	1,590	1,520	1,580	—	—	e661	319	304	307	666	625	644
20	3,660	3,530	3,610	765	757	761	2,160	1,940	2,050	1,590	1,570	1,580	—	—	e673	350	308	320	674	636	655
21	3,670	3,520	3,600	767	760	763	2,180	1,840	2,070	1,580	1,570	1,580	—	—	e685	321	315	318	674	642	655
22	3,740	3,550	3,630	770	762	766	2,240	158	2,030	1,580	160	1,470	—	—	e701	344	316	322	678	646	661
23	3,880	3,550	3,710	769	762	766	886	567	698	1,530	391	1,360	—	—	e642	324	318	321	673	647	657
24	3,560	3,230	3,480	772	764	768	1,390	850	1,090	1,580	1,500	1,550	—	—	e683	325	318	322	650	636	642
25	3,610	3,340	3,510	772	764	768	1,620	1,390	1,500	1,600	1,510	1,590	—	—	e696	350	322	329	643	635	638
26	3,770	3,430	3,620	771	764	767	1,910	1,610	1,750	1,590	1,550	1,590	—	—	e707	335	324	328	657	637	646
27	4,270	3,400	3,530	793	759	779	2,030	1,800	1,900	1,590	1,480	1,570	—	—	e748	352	326	332	669	646	655
28	4,590	3,560	3,910	788	781	785	2,020	1,750	1,920	1,620	1,560	1,570	—	—	e727	375	327	337	663	648	653
29	3,570	2,980	3,430	789	782	786	2,020	1,680	1,940	1,570	1,560	1,570	—	—	e727	361	327	333	654	643	650
30	3,520	3,120	3,410	788	781	784	2,070	1,710	1,970	1,560	1,540	1,550	—	—	e712	331	329	330	652	645	648
31	3,480	3,320	3,410	787	781	784	2,040	1,780	2,010	1,550	1,540	1,550	—	—	e722	329	328	329	651	643	647
Month	**4,590**	**210**	**3,150**	**793**	**722**	**759**	**5,130**	**115**	**1,760**	**1,910**	**30**	**1,480**	**—**	**—**	**e635**	**375**	**112**	**293**	**678**	**566**	**621**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
August																					
1	4,540	3,270	3,860	787	780	783	2,210	1,410	2,040	1,720	868	1,430	—	—	e708	331	326	329	651	640	644
2	4,110	651	1,680	786	773	781	2,030	52	580	1,530	28	1,070	—	—	e609	357	72	280	662	618	642
3	2,540	2,210	2,400	785	778	781	2,280	1,050	1,350	1,560	1,520	1,550	—	—	e658	365	315	331	658	648	653
4	2,750	2,540	2,670	785	778	782	1,520	1,220	1,340	1,570	1,540	1,550	—	—	e685	335	319	327	687	654	661
5	2,900	2,740	2,840	788	778	783	1,570	1,370	1,460	1,560	1,540	1,550	—	—	e706	327	209	310	694	677	682
6	2,920	2,710	2,860	791	782	786	1,740	1,520	1,620	1,560	1,540	1,550	—	—	e720	323	314	320	682	672	676
7	2,920	2,630	2,840	788	781	785	1,850	1,680	1,760	1,550	1,530	1,540	—	—	e706	327	321	324	695	677	685
8	2,900	2,720	2,860	790	782	787	1,950	1,790	1,860	1,550	1,520	1,540	—	—	e730	339	323	332	704	682	689
9	2,930	2,850	2,880	790	782	787	1,940	1,830	1,890	1,560	1,510	1,530	—	—	e730	379	335	341	701	685	693
10	2,940	2,790	2,860	790	782	786	2,060	1,850	1,950	1,530	1,510	1,520	—	—	e728	357	334	345	702	686	692
11	3,010	2,630	2,840	790	780	785	2,010	1,840	1,930	1,530	1,510	1,520	—	—	e727	357	331	347	713	691	698
12	3,310	2,780	3,030	788	774	782	2,070	1,860	1,950	1,520	1,500	1,510	—	—	e723	349	328	333	718	696	704
13	2,940	2,820	2,910	781	769	775	2,190	1,910	2,030	1,520	1,490	1,510	—	—	e716	333	328	331	730	711	718
14	3,180	633	2,460	777	762	772	2,400	135	1,480	1,500	40	1,080	—	—	e669	330	61	279	727	715	720
15	1,820	980	1,400	776	766	771	698	264	525	1,390	58	801	—	—	e558	291	150	255	715	692	705
16	2,300	1,820	2,080	790	771	783	1,090	698	869	1,520	1,390	1,480	—	—	e635	312	291	304	700	686	693
17	2,520	2,300	2,440	791	782	786	1,410	1,070	1,180	1,530	1,510	1,520	—	—	e666	343	310	318	714	697	706
18	2,670	2,390	2,570	791	783	787	1,570	1,410	1,470	1,550	1,520	1,530	—	—	e686	336	316	320	713	695	703
19	2,750	2,470	2,630	790	782	786	1,760	1,570	1,680	1,540	1,520	1,530	—	—	e707	322	315	319	712	698	703
20	2,770	2,590	2,700	788	779	784	1,890	1,750	1,820	1,530	1,520	1,520	—	—	e703	323	319	321	713	707	710
21	3,290	2,690	2,910	788	781	784	1,960	1,810	1,880	1,530	700	1,360	—	—	e705	320	258	312	718	705	709
22	2,690	2,450	2,560	786	778	783	2,040	1,860	1,950	1,520	1,480	1,500	—	—	e714	324	314	320	719	708	713
23	2,760	2,450	2,590	786	780	783	1,970	1,840	1,910	—	—	e1,430	—	—	e711	323	318	320	714	704	710
24	2,720	2,500	2,620	786	775	779	1,980	1,880	1,930	—	—	e1,440	—	—	e719	323	318	321	712	704	707
25	2,790	2,440	2,650	781	773	777	2,060	1,940	2,000	—	—	e1,460	—	—	e717	325	320	322	711	699	704
26	2,820	2,370	2,630	781	775	777	2,160	2,020	2,080	—	—	e1,450	—	—	e703	324	320	321	715	701	707
27	2,780	2,430	2,630	780	772	776	2,220	2,060	2,130	—	—	e1,450	—	—	e728	327	319	322	717	705	710
28	2,820	2,480	2,660	778	771	775	2,250	2,130	2,190	—	—	e1,470	—	—	e726	324	319	323	718	706	711
29	2,820	2,640	2,720	778	767	772	2,290	2,190	2,220	—	—	e1,500	—	—	e575	327	275	318	724	717	720
30	3,000	1,520	2,300	776	768	772	2,200	2,140	2,170	—	—	e1,280	—	—	e528	317	147	294	724	718	721
31	2,490	1,590	2,160	779	770	774	2,160	2,070	2,130	—	—	e1,210	—	—	e556	322	309	316	720	717	718
Month	**4,540**	**633**	**2,620**	**791**	**762**	**781**	**2,400**	**52**	**1,720**	**e1,720**	**e28**	**e1,430**	**—**	**—**	**e682**	**379**	**61**	**318**	**730**	**618**	**697**

Table 14. Daily, monthly, and annual statistics for specific conductance for U.S. Geological Survey stations in the drinking-water source area for Cambridge, Massachusetts, for water year 2005.—Continued

[Units are in microsiemens per centimeter. e, estimated; —, no data; Max, maximum; Min, minimum]

Month and date	Cambridge Reservoir, unnamed tributary 2, near Lexington (01104415)			Cambridge Reservoir near Kendal Green (01104430)			Hobbs Brook, unnamed tributary 1, near Kendal Green (01104433)			Stony Brook, unnamed tributary 1, near Waltham (01104455)			Stony Brook at Route 20 at Waltham (01104460)			Stony Brook Reservoir, unnamed tributary 1, near Weston (01104475)			Fresh Pond gate house at Cambridge (422302071083801)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
											September										
1	2,650	1,830	2,030	780	771	776	2,080	1,770	1,880	—	—	e1,140	—	—	e734	322	288	314	729	714	721
2	2,750	2,090	2,410	783	774	779	1,790	1,670	1,730	—	—	e1,340	—	—	e728	323	316	320	733	713	722
3	2,760	2,430	2,640	783	775	780	1,730	1,650	1,690	—	—	e1,450	—	—	e728	325	318	321	731	715	723
4	2,790	2,440	2,630	786	778	783	1,770	1,630	1,690	—	—	e1,450	—	—	e731	322	316	319	726	714	719
5	2,820	2,540	2,680	788	781	785	1,990	1,740	1,870	—	—	e1,470	—	—	e717	320	315	318	723	713	718
6	2,830	2,240	2,620	791	782	786	2,100	1,960	2,030	—	—	e1,450	—	—	e733	319	316	318	724	714	719
7	2,790	2,440	2,610	789	783	787	2,170	2,030	2,090	—	—	e1,440	—	—	e729	321	315	318	736	713	722
8	2,790	2,390	2,600	794	785	789	2,240	2,080	2,160	—	—	e1,430	—	—	e730	320	317	319	748	718	729
9	2,770	2,600	2,680	795	787	791	2,240	2,140	2,190	—	—	e1,480	—	—	e735	320	317	319	735	724	728
10	2,860	2,400	2,670	798	789	793	2,330	2,220	2,270	—	—	e1,470	—	—	e735	318	316	317	734	719	725
11	2,830	2,340	2,630	798	792	795	2,400	2,260	2,330	—	—	e1,450	—	—	e733	318	311	316	732	717	724
12	2,710	2,310	2,490	799	792	795	2,580	2,370	2,460	—	—	e1,380	—	—	e730	322	316	318	731	718	724
13	2,740	2,400	2,560	802	794	798	2,600	2,480	2,540	—	—	e1,410	—	—	e733	322	318	319	740	722	727
14	2,720	2,510	2,600	803	795	799	2,630	2,500	2,560	—	—	e1,430	—	—	e738	325	318	320	748	734	739
15	2,660	698	1,820	804	796	800	2,590	1,600	2,350	—	—	e1,040	—	—	e690	325	127	256	752	739	746
16	2,100	1,000	1,520	804	794	799	1,600	702	1,070	—	—	e877	—	—	e710	303	263	294	745	736	739
17	2,470	1,230	2,070	806	797	801	953	702	854	—	—	e1,170	—	—	e713	307	272	299	738	734	736
18	2,310	1,290	1,880	805	797	801	1,020	952	984	—	—	e1,070	—	—	e731	312	307	310	751	736	741
19	2,760	2,310	2,550	809	797	801	1,290	1,020	1,150	—	—	e1,410	—	—	e717	316	309	312	760	734	743
20	2,860	2,520	2,720	805	798	801	1,510	1,290	1,440	—	—	e1,490	—	—	e716	314	288	309	747	738	742
21	2,890	2,520	2,770	807	799	803	1,790	1,500	1,670	—	—	e1,520	—	—	e716	311	288	303	750	736	743
22	2,910	2,450	2,770	809	801	805	1,980	1,790	1,900	—	—	e1,520	—	—	e717	314	309	311	751	740	745
23	2,830	2,700	2,780	811	804	807	2,160	1,980	2,080	—	—	e1,520	—	—	e719	315	310	312	750	742	746
24	2,900	2,580	2,800	811	797	804	2,150	2,010	2,090	—	—	e1,530	—	—	e716	311	308	310	745	738	742
25	2,880	2,570	2,760	808	799	803	2,250	2,100	2,160	—	—	e1,510	—	—	e714	310	308	309	745	737	741
26	2,810	2,610	2,690	810	799	805	2,390	2,250	2,320	—	—	e1,480	—	—	e667	312	281	310	739	736	738
27	2,860	2,460	2,590	813	800	807	2,410	2,270	2,380	—	—	e1,430	—	—	e732	368	269	304	745	734	739
28	2,890	2,440	2,720	812	797	807	2,270	2,110	2,170	—	—	e1,490	—	—	e717	313	307	308	742	731	736
29	2,870	904	2,220	806	795	802	2,180	587	1,860	—	—	e1,240	—	—	e680	315	139	272	737	729	733
30	2,060	969	1,390	810	796	804	661	561	602	—	—	e810	—	—	e685	304	256	293	739	723	730
Month	**2,910**	**698**	**2,460**	**813**	**771**	**796**	**2,630**	**561**	**1,890**	**—**	**—**	**1,360**	**—**	**—**	**719**	**368**	**127**	**309**	**760**	**713**	**733**
Year	**16,800**	**210**	**2,310**	**926**	**585**	**737**	**e10,300**	**e52**	**e2,220**	**e22,300**	**e28**	**e1,600**	**e1,770**	**e218**	**e538**	**e778**	**e61**	**e284**	**760**	**464**	**553**
Remarks		Good			Good			Fair[1]			Good[1]			Good[1]			Excellent[1]			Good[1]	

[1]Records that are estimated are rated as poor.

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Sample type	Begin date	Begin time	End date	End time	Discharge, instantaneous (million gallons per day) P50051	Turbidity, water, unfiltered (NTRU) P63676	Dissolved oxygen, water, unfiltered (milligrams per liter) P00300
01104415	Base flow	20041215	1025	—	—	0.47	1.7	11.4
01104415	Stormflow	20050708	1037	20050709	759	—	40	—
01104415	Base flow	20050726	1210	—	—	.01	1.1	5.3
01104415	Stormflow	20050814	1751	20050815	1157	—	79	—
01104433	Base flow	20041215	1205	—	—	.13	1.8	8.9
01104433	Stormflow	20050708	1126	20050709	900	—	20	—
01104433	Base flow	20050726	1245	—	—		3.2	4.2
01104433	Stormflow	20050915	1008	20050916	215	—	45	—
01104455	Base flow	20041215	1355	—	—	.63	.6	9.7
01104455	Stormflow	20050708	1005	20050709	816	—	20	—
01104455	Base flow	20050726	1500	—	—	.19	.6	6.9
01104455	Stormflow	20050814	1555	20050814	1848	—	70	—
01104475	Base flow	20041215	1455	—	—	1.2	1.3	12.3
01104475	Stormflow	20050708	1027	20050709	851	—	10	—
01104475	Base flow	20050726	1530	—	—	.13	.6	7.4
01104475	Stormflow	20050915	1012	20050915	1607	—	150	—
422302071083802	Untreated intake water	20050720	1300	—	—	—	1.5	—
422302071083803	Finished production water	20050720	1330	—	—	—	.2	—
Blanks								
01104455	Field blank	20050726	1501	—	—	—	—	—
USGS-MA-LAB	Source water	20040601	1200	—	—	—	—	—

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	pH, water, unfiltered, field (standard units) P00400	pH, water, unfiltered, laboratory (standard units) P00403	Specific conductance, water, unfiltered, laboratory (microsiemens per centimeter at 25°C) P90095	Specific conductance, water, unfiltered (microsiemens per centimeter at 25°C) P00095	Temperature, water (°C) P00010	Calcium, water, filtered (milligrams per liter) P00915	Magnesium, water, filtered (milligrams per liter) P00925	Potassium, water, filtered (milligrams per liter) P00935
01104415	6.1	7.2	1,530	1500	3.0	47.2	6.74	4.16
01104415	6.8	6.7	e439	450	—	10.8	1.42	1.72
01104415	6.5	7.3	3160	3310	18.5	88.0	12.0	7.11
01104415	6.3	6.9	601	614	—	16.9	1.87	3.44
01104433	6.5	7.2	1,980	1,960	4.1	85.0	14.0	7.32
01104433	6.5	—	—	511	—	—	—	—
01104433	6.8	7.0	1,870	1,920	22.6	78.4	13.5	7.16
01104433	7.0	7.0	686	827	—	30.2	4.69	4.04
01104455	6.6	7.2	852	843	8.4	34.4	6.28	2.43
01104455	6.7	6.7	e218	241	—	8.20	1.47	0.88
01104455	6.3	7.1	1,610	1660	12.7	70.4	13.5	3.35
01104455	6.1	6.9	155	170	—	6.69	1.03	2.23
01104475	7.1	7.2	233	229	4.0	17.1	3.48	2.27
01104475	6.6	7.2	—	221	—	12.9	2.39	2.44
01104475	7.3	7.7	332	326	18.6	21.3	3.32	1.94
01104475	7.0	7.3	144	150	—	7.69	1.35	3.63
422302071083802	6.8	7.3	526	540	—	24.0	4.39	2.26
422302071083803	8.6	9.2	596	612	—	23.9	4.46	19.4
Blanks								
01104455	—	7.9	<3	3	—	<.02	<.008	<.16
USGS-MA-LAB	5.8	6.0	<3	0	—	<.01	<.008	<.16

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Sodium, water, filtered (milligrams per liter) P00930	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory (milligrams per liter as calcium carbonate) P29801	Chloride, water, filtered (milligrams per liter) P00940	Sulfate, water, filtered (milligrams per liter) P00945	Total nitrogen (nitrate + nitrite + ammonia + organic-N), water, unfiltered, analytically determined (milligrams per liter) P62855	Phosphorus, water, unfiltered (milligrams per liter) P00665	*Escherichia coli*, m-TEC MF method, water (colonies per 100 milliliters) P31663	Cadmium, water, unfiltered (micrograms per liter) P01027
01104415	254	47	449	25.9	2.02	e0.02	30	0.14
01104415	59.6	13	110	6.2	1.5	.31	id	.06
01104415	538	47	970	28.5	1.57	<.02	190	.35
01104415	92.7	13	160	13.4	2.38	.5	18,000	.89
01104433	281	64	553	31.8	2.08	e.02	21	.29
01104433	—	—	—	—	1.22	.12	id	.16
01104433	254	58	542	27.6	1.58	.03	89	.09
01104433	88.9	28	176	18.2	2.21	.18	id	.31
01104455	121	44	216	24.8	1.76	e.01	53	.10
01104455	27.2	11	51.7	5.8	0.93	.10	id	.17
01104455	212	47	469	26.8	2.37	<.02	1,400	.18
01104455	20.3	9	33.7	9.2	2.96	.45	9,000	.69
01104475	24.3	31	37.7	20.0	1.96	e.01	4	<.04
01104475	18.2	24	31.3	11.4	1.28	.08	id	.05
01104475	33.9	30	66.8	18.0	1.97	e.02	310	<.04
01104475	14.9	15	22.8	8.0	5.13	.80	43,000	.44
422302071083802	66.4	32	134	12.9	.74	<.02	—	<.04
422302071083803	69.7	38	138	25.9	.94	<.02	—	<.04
Blanks								
01104455	<.20	<5	<.20	<.2	e.04	<.02	<1	<.04
USGS-MA-LAB	<.10	<2	<.20	<.2	<.03	<.01	—	<.04

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Chromium, water, unfiltered, recoverable (micrograms per liter) P01034	Copper, water, unfiltered, recoverable (micrograms per liter) P01042	Iron, water, unfiltered, recoverable (micrograms per liter) P01045	Lead, water, unfiltered, recoverable (micrograms per liter) P01051	Manganese, water, unfiltered, recoverable (micrograms per liter) P01055	Nickel, water, unfiltered, recoverable (micrograms per liter) P01067	Zinc, water, unfiltered, recoverable (micrograms per liter) P01092	2,4,5-T, surrogate, Schedule 9060/2060, water, filtered (percent recovery) P99958
01104415	2.9	3.4	300	0.45	216	2.05	18	99.4
01104415	1.3	2.9	170	1.12	96	.85	12	84
01104415	<.8	1.6	130	.33	332	.97	23	e87.7
01104415	12.5	28.0	11,500	86.2	1,260	9.99	151	e168
01104433	<.8	6.2	430	.50	283	4.05	58	95.6
01104433	3.3	8.0	1,340	9.14	146	2.08	50	e153
01104433	<.8	4.2	530	.70	406	4.24	34	e87.1
01104433	7.5	18.4	2,740	15.0	176	4.65	120	—
01104455	<.8	3.0	100	.27	153	2.45	19	89.1
01104455	13.6	32.5	1,640	17.5	148	3.21	70	e118
01104455	<.8	2.2	170	.64	487	4.51	16	e93.0
01104455	28.8	82.8	6,060	95.3	343	9.82	284	e172
01104475	<.8	1.9	160	.44	21	.87	4	94.5
01104475	.9	3.0	940	4.19	93	1.46	8	108
01104475	<.8	.8	80	.29	11	.91	e1	e79.9
01104475	6.7	22.8	7,350	42.6	1,120	7.87	71	e175
422302071083802	<.8	2.8	90	.28	44	.68	3	e123
422302071083803	<.8	<.6	e6	<.06	2	.58	<2	e127
Blanks								
01104455	<.8	<.6	e3	<.06	1	e.09	e2	e80.1
USGS-MA-LAB	<.8	<.6	<9.0	<.06	<.2	<.16	<2	67.7

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	2,4-D methyl ester, water, filtered, recoverable (micrograms per liter) P50470	2,4-D, water, filtered, recoverable (micrograms per liter) P39732	2,4-DB, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P38746	2-Chloro-4-isopropyl-amino-6-amino-s-triazine, water, filtered, recoverable (micrograms per liter) P04040	2-Chloro-6-ethylamino-4-amino-s-triazine, water, filtered, recoverable (micrograms per liter) P04038	2-Hydroxy-4-isopropyl-amino-6-ethyl-amino-s-triazine, water, filtered, recoverable (micrograms per liter) P50355	3-Hydroxy carbofuran, water, filtered (0.7-micron glass- fiber filter), recoverable (micrograms per liter) P49308	Ketocarbofuran, water, filtered, recoverable (micrograms per liter) P50295
01104415	<0.016	e0.02	<0.02	<0.03	<0.08	<0.032	<0.008	<0.02
01104415	<.016	<.04	<.02	<.03	<.08	<.032	<.008	—
01104415	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02
01104415	<.214	e7.92	<.02	<.03	<.08	<.032	<.008	<.02
01104433	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02
01104433	<.016	<.04	<.02	<.03	<.08	<.032	<.008	—
01104433	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02
01104433	<.016	e.22	<.02	<.03	<.08	<.032	<.008	<.02
01104455	<.016	<.04	<.02	<.03	e.01	<.032	<.008	<.02
01104455	<.016	<.04	<.02	<.03	<.08	<.032	<.008	—
01104455	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02
01104455	<.016	e.04	<.02	<.03	<.08	<.032	<.008	e.08
01104475	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02
01104475	<.016	<.04	<.02	<.03	<.08	<.032	<.008	—
01104475	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02
01104475	<.139	e3.41	<.02	<.03	<.08	<.032	<.008	<.02
422302071083802	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.25
422302071083803	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.25
Blanks								
01104455	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02
USGS-MA-LAB	<.009	<.02	<.02	<.03	<.04	<.008	<.006	<1.50

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	9*H*-Fluorene, water, unfiltered, recoverable (micrograms per liter) P34381	Acenaphthene, water, unfiltered, recoverable (micrograms per liter) P34205	Acenaphthylene, water, unfiltered, recoverable (micrograms per liter) P34200	Acifluorfen, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49315	Aldicarb sulfone, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49313	Aldicarb sulfoxide, water, filtered(0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49314	Aldicarb, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49312	Anthracene, water, unfiltered, recoverable (micrograms per liter) P34220
01104415	e0.005	<2.0	<2.0	<0.028	<0.02	<0.022	<0.04	e0.007
01104415	e.03	e.02	<2	<.028	<.02	<.022	<.04	e.05
01104415	<2	<2	<2	<.028	<.02	<.022	<.04	<2
01104415	<2	<2	e.2	<.028	<.02	<.022	<.04	e.2
01104433	<2	e.004	<2	<.028	<.02	<.022	<.04	e.01
01104433	e.02	<2	<2	<.028	<.02	<.022	<.04	<2
01104433	<2	<2	<2	<.028	<.02	<.022	<.04	<2
01104433	e.02	e.02	e.02	<.028	<.02	<.022	<.04	e.05
01104455	<2	<2	<2	<.028	<.02	<.022	<.04	<2
01104455	e.2	e.1	e.03	<.028	<.02	<.022	<.04	e.4
01104455	<2	<2	<2	<.028	<.02	<.022	<.04	<2
01104455	e.3	e.2	<2	<.028	<.02	<.022	<.04	e.6
01104475	<2	<2	<2	<.028	<.02	<.022	<.04	<2
01104475	e.03	e.02	<2	<.028	<.02	<.022	<.04	e.05
01104475	<2	<2	<2	<.028	<.02	<.022	<.04	<2
01104475	e.1	e.07	e.09	<.028	<.02	<.022	<.04	e.3
422302071083802	<2	<2	<2	<.028	<.02	<.022	<.04	<2
422302071083803	<2	<2	<2	<.028	<.02	<.022	<.04	<2
Blanks								
01104455	<2	<2	<2	<.028	<.02	<.022	<.04	<2
USGS-MA-LAB	<2	<2	<2	<.007	<.02	<.008	<.04	<2

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Atrazine, water, filtered, recoverable (micrograms per liter) P39632	Barban, surrogate, Schedules 2060/9060, water, filtered (percent recovery) P90640	Bendiocarb, water, filtered, recoverable (micrograms per liter) P50299	Benomyl, water, filtered, recoverable (micrograms per liter) P50300	Bensulfuron, water, filtered, recoverable (micrograms per liter) P61693	Bentazon, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P38711	Benzo[*a*]anthracene, water, unfiltered, recoverable (micrograms per liter) P34526	Benzo[*a*]pyrene, water, unfiltered, recoverable (micrograms per liter) P34247
01104415	<0.008	e92.0	<0.02	<0.022	<0.02	<0.01	<2.0	<1.0
01104415	<.008	e33.9	<.02	<.022	<.02	<.01	e.4	e.6
01104415	<.008	e44.4	<.02	<.022	<.02	<.01	<2	<1
01104415	<.008	e42.6	<.02	<.022	<.02	<.01	e.8	e1
01104433	<.008	e76	<.02	<.022	<.02	<.01	<2	<1
01104433	<.008	e18	<.02	<.022	<.02	<.01	e.1	e.2
01104433	<.008	e15.6	<.02	<.022	<.02	<.01	<2	<1
01104433	<.008	66.2	<.02	<.022	<.02	<.01	e.3	e.4
01104455	<.008	e83.8	<.02	<.022	<.02	<.01	<2	<1
01104455	<.008	e16.6	<.02	<.022	<.02	<.01	e2	e2
01104455	<.008	90.7	<.02	<.022	<.02	<.01	<2	<1
01104455	<.008	e389	<.02	<.022	<.02	<.01	e2	3
01104475	<.008	e108	<.02	.03	<.02	<.01	<2	<1
01104475	<.008	e23.5	<.02	e.176	<.02	<.01	e.2	e.3
01104475	<.008	81.9	<.02	e.159	<.02	<.01	<2	<1
01104475	<.008	89.7	<.02	<.022	<.02	<.01	e1	2
422302071083802	<.008	e39	<.02	<.022	<.02	<.01	<2	<1
422302071083803	<.008	118	<.02	<.022	<.02	<.01	<2	<1
Blanks								
01104455	<.008	92.2	<.02	<.022	<.02	<.01	<2	<1
USGS-MA-LAB	<.009	84.9	<.03	<.004	<.02	<.01	<2	<1

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Benzo[*b*] fluoranthene, water, unfiltered, recoverable (micrograms per liter) P34230	Benzo[*ghi*] perylene, water, unfiltered, recoverable (micrograms per liter) P34521	Benzo[*k*] fluoranthene, water, unfiltered, recoverable (micrograms per liter) P34242	Bromacil, water, filtered, recoverable (micrograms per liter) P04029	Bromoxynil, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49311	Caffeine, water, filtered, recoverable (micrograms per liter) P50305	Caffeine-13C, surrogate, schedule 9060/2060, water, filtered (percent recovery) P99959	Carbaryl, water, filtered (0.7-micron glass- fiber filter), recoverable (micrograms per liter) P49310
01104415	<2.0	<3.0	<2.0	<0.02	<0.03	0.02	112.0	<0.02
01104415	e1	e.6	e.3	<.02	<.03	.77	83.9	.03
01104415	<2	<3	<2	<.02	<.03	<.018	e118	<.02
01104415	e2	e.5	e.6	<.02	<.03	e.773	e124	e.03
01104433	<2	<3	<2	<.02	<.03	.48	91.6	<.02
01104433	e.4	e.2	e.1	<.02	<.03	.26	98.9	<.02
01104433	<2	<3	<2	<.02	<.03	e.678	e117	<.02
01104433	e.7	e.3	e.3	<.02	<.03	e1.69	97.5	e.01
01104455	<2	<3	<2	<.02	<.03	.18	104	<.02
01104455	e1	e2	e1	<.02	<.03	.23	97.7	<.02
01104455	<2	<3	<2	<.02	<.03	<.018	e117	<.02
01104455	5	e1	e2	<.02	<.03	e.583	e360	<.02
01104475	<2	<3	<2	<.02	<.03	e.009	102	<.02
01104475	e.4	e.3	e.1	<.02	<.03	.04	88.2	<.02
01104475	<2	<3	<2	<.02	<.03	<.018	e105	<.02
01104475	3	e2	e1	<.02	<.03	.23	100	e.01
422302071083802	<2	<3	<2	<.02	<.03	.02	98.6	<.02
422302071083803	<2	<3	<2	<.02	<.03	<.018	116	<.02
Blanks								
01104455	<2	<3	<2	<.02	<.03	<.018	e154	<.02
USGS-MA-LAB	<2	<3	<2	<.03	<.02	<.010	127	<.03

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Carbofuran, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49309	Chloramben methylester, water, filtered, recoverable (micrograms per liter) P61188	Chlorimuron, water, filtered, recoverable (micrograms per liter) P50306	Chlorodiamino-s-triazine, water, filtered, recoverable (micrograms per liter) P04039	Chlorothalonil, water, filtered (0.7-micron glass- fiber filter), recoverable (micrograms per liter) P49306	Chrysene, water, unfiltered, recoverable (micrograms per liter) P34320	Clopyralid, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49305	Cycloate, water, filtered, recoverable (micrograms per liter) P04031
01104415	<0.016	<0.02	<0.032	<0.04	<0.04	<3.0	<0.02	<0.01
01104415	<.016	<.02	<.032	<.04	<.04	e.7	<.02	<.01
01104415	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
01104415	<.016	<.02	<.032	<.04	<.04	e.9	<.02	<.01
01104433	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
01104433	<.016	<.02	<.032	<.04	<.04	e.3	<.02	<.01
01104433	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
01104433	<.016	<.02	<.032	<.04	<.04	e.5	<.02	<.01
01104455	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
01104455	<.016	<.02	<.032	<.04	<.04	e2	<.02	<.01
01104455	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
01104455	<.016	<.02	<.032	<.04	<.04	4	<.02	<.01
01104475	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
01104475	<.016	<.02	<.032	<.04	<5.54	e.3	<.02	<.01
01104475	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
01104475	<.016	<.02	<.032	<.04	<.04	e2	<.02	<.01
422302071083802	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
422302071083803	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
Blanks								
01104455	<.016	<.02	<.032	<.04	<.04	<3	<.02	<.01
USGS-MA-LAB	<.006	<.02	<.010	<.01	<.04	<3	<.01	<.01

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Dacthal mono-acid, water, filtered (0.7-micron glass- fiber filter), recoverable (micrograms per liter) P49304	Dibenzo[*a,h*] anthracene, water, unfiltered, recoverable (micrograms per liter) P34556	Dicamba, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P38442	Dichlorprop, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49302	Dinoseb, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49301	Diphenamid, water, filtered, recoverable (micrograms per liter) P04033	Diuron, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49300	Fenuron, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49297
01104415	<0.03	<3.0	<0.04	<0.03	<0.04	<0.01	<0.01	<0.02
01104415	<.03	<3	<.04	<.03	<.04	<.01	<.01	<.02
01104415	<.03	<3	<.04	<.03	<.04	<.01	.02	<.02
01104415	<.03	<3	<.09	<.03	<.04	<.01	<.01	<.02
01104433	<.03	<3	<.04	<.03	<.04	<.01	.08	<.02
01104433	<.03	<3	<.04	<.03	<.04	<.01	<.01	<.02
01104433	<.03	<3	<.04	<.03	<.04	<.01	e.03	<.02
01104433	<.03	e.09	<.04	<.03	<.04	<.01	e.14	<.02
01104455	<.03	<3	<.04	<.03	<.04	<.01	<.01	<.02
01104455	<.03	e.5	<.04	<.03	<.04	<.01	<.01	<.02
01104455	<.03	<3	<.04	<.03	<.04	<.01	<.01	<.02
01104455	<.03	e.4	<.04	<.03	<.04	<.01	<.01	<.02
01104475	<.03	<3	<.04	<.03	<.04	<.01	<.01	<.02
01104475	<.03	e.08	<.04	<.03	<.04	<.01	<.01	<.02
01104475	<.03	<3	<.04	<.03	<.04	<.01	<.01	<.02
01104475	<.03	e.4	<.04	<.03	<.04	<.01	<.01	<.02
422302071083802	<.03	<3	<.04	<.03	<.04	<.01	<.01	<.02
422302071083803	<.03	<3	<.04	<.03	<.04	<.01	<.01	<.02
Blanks								
01104455	<.03	<3	<.04	<.03	<.04	<.01	<.01	<.02
USGS-MA-LAB	<.01	<3	<.01	<.01	<.01	<.03	<.01	<.03

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Flumetsulam, water, filtered, recoverable (micrograms per liter) P61694	Fluometuron, water, filtered (0.7-micron glass-fiber filter) recoverable (micrograms per liter) P38811	Fluoranthene, water, unfiltered, recoverable (micrograms per liter) P34376	Imazaquin, water, filtered, recoverable (micrograms per liter) P50356	Imazethapyr, water, filtered, recoverable (micrograms per liter) P50407	Imidacloprid, water, filtered, recoverable (micrograms per liter) P61695	Indeno[1,2,3-*cd*] pyrene, water, unfiltered, recoverable (micrograms per liter) P34403	Linuron, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P38478
01104415	<0.04	<0.02	e0.01	<0.04	<0.04	e0.011	<3.0	<0.01
01104415	<.04	<.02	e1	<.04	<.04	.18	e.6	<.01
01104415	<.04	<.02	<2	<.04	<.04	<.020	<3	<.01
01104415	<.04	<.02	e2	<.04	<.04	e.375	e.5	<.01
01104433	<.04	<.02	e.05	<.04	<.04	<.020	<3	<.01
01104433	<.04	<.02	e.5	<.04	<.04	.23	e.2	<.01
01104433	<.04	<.02	e.1	e.01	<.04	e.067	<3	<.01
01104433	<.04	<.02	e.9	e.06	<.04	<.020	e.3	<.01
01104455	<.04	<.02	<2	<.04	<.04	<.020	<3	<.01
01104455	<.04	<.02	5	<.04	<.04	<.020	e1	<.01
01104455	<.04	<.02	e.04	e.01	<.04	<.020	<3	<.01
01104455	<.04	<.02	9	<.04	<.04	e.113	e1	<.01
01104475	<.04	<.02	e.02	<.04	<.04	.52	<3	<.01
01104475	<.04	<.02	e.7	<.04	<.04	e1.00	e.2	<.01
01104475	<.04	<.02	<2	<.04	<.04	.36	<3	<.01
01104475	<.04	<.02	4	<.19	<.04	.34	e1	<.01
422302071083802	<.04	<.02	e.01	<.04	<.04	.02	<3	<.01
422302071083803	<.04	<.02	<2	<.04	<.04	<.020	<3	<.01
Blanks								
01104455	<.04	<.02	<2	<.04	<.04	<.020	<3	<.01
USGS-MA-LAB	<.01	<.03	<2	<.02	<.02	<.007	<3	<.01

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	MCPA, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P38482	MCPB, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P38487	Metalaxyl, water, filtered, recoverable (micrograms per liter) P50359	Methiocarb, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P38501	Methomyl, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49296	Metsulfuron, water, filtered, recoverable (micrograms per liter) P61697	N-(4-Chlorophenyl)-N′-methylurea, water, filtered, recoverable (micrograms per liter) P61692	Neburon, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49294
01104415	—	<0.01	<0.01	<0.010	<0.020	<0.03	<0.04	<0.01
01104415	<0.03	<.01	<.01	<.010	<.020	<.30	<.04	<.01
01104415	<.03	<.01	<.01	<.010	—	<.03	<.04	<.01
01104415	<.05	<.01	<.01	<.010	<.020	e1.40	<.04	<.01
01104433	—	<.01	<.01	<.010	<.020	<.03	<.04	<.01
01104433	<.06	<.01	<.01	<.010	<.020	e1.26	<.04	<.01
01104433	<.03	<.01	<.01	<.010	—	e3.90	<.04	<.01
01104433	<.03	<.01	<.01	<.010	<.020	<.03	<.04	<.01
01104455	—	<.01	<.01	<.010	<.020	<.03	<.04	<.01
01104455	<.03	<.01	<.01	<.010	<.020	<.41	<.04	<.01
01104455	<.03	<.01	<.01	<.010	—	<.03	<.04	<.01
01104455	<.09	<.01	<.01	<.010	<.020	e2.52	<.04	<.01
01104475	—	<.01	.04	<.010	<.020	<.03	<.04	<.01
01104475	<.03	<.01	.02	<.010	<.020	<.03	<.04	<.01
01104475	<.03	<.01	e.01	<.010	—	<.03	<.04	<.01
01104475	e.16	<.01	<.01	<.010	<.020	<.03	<.04	<.01
422302071083802	<.03	<.01	<.01	<.010	<.020	<.03	<.04	<.01
422302071083803	<.03	<.01	<.01	<.010	<.020	<.03	<.04	<.01
Blanks								
01104455	<.03	<.01	<.01	<.010	—	<.03	<.04	<.01
USGS-MA-LAB	<.02	<.01	<.02	<.008	<.004	<.03	<.02	<.01

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Nicosulfuron, water, filtered, recoverable (micrograms per liter) P50364	Nitroben-zene, water, unfiltered, recoverable (micrograms per liter) P34447	Norflura-zon, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49293	Oryzalin, water, filtered (0.7-micron glass-fiber filter), recover-able (mi-crograms per liter) P49292	Oxamyl, water, filtered (0.7-micron glass-fiber filter), recoverable (micro-grams per liter) P38866	Phenan-threne, water, unfiltered, recoverable (micrograms per liter) P34461	Picloram, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49291	Propham, water, filtered (0.7-micron glass- fi-ber filter), recoverable (micrograms per liter) P49236
01104415	<0.04	<2	<0.02	<0.01	<0.03	<2.0	<0.03	<0.030
01104415	<.04	<2	<.02	<.01	<.03	e.6	<.03	<.030
01104415	<.04	<2	<.02	<.01	<.03	<2	<.03	<.030
01104415	<.04	<2	<.02	<.01	<.03	e.6	<.03	<.030
01104433	<.04	<2	<.02	<.01	<.03	e.02	<.03	<.030
01104433	<.04	<2	<.02	<.01	<.03	e.2	<.03	<.030
01104433	<.04	<2	<.02	<.01	<.03	<2	<.03	<.030
01104433	<.04	<2	<.02	<.01	<.03	e.3	<.03	<.030
01104455	<.04	<2	.15	<.01	<.03	<2	<.03	<.030
01104455	<.04	<2	.12	<.01	<.03	2	<.03	<.030
01104455	<.04	<2	.08	<.01	<.03	<2	<.03	<.030
01104455	<.04	<2	<.02	<.01	<.03	4	<.03	<.030
01104475	<.04	<2	<.02	<.01	<.03	<2	<.03	<.030
01104475	<.04	<2	<.02	<.01	<.03	e.3	<.03	<.030
01104475	<.04	<2	<.02	<.01	<.03	<2	<.03	<.030
01104475	<.04	<2	<.03	<.01	<.03	e2	<.03	<.030
422302071083802	<.04	<2	<.02	<.01	<.03	e.01	<.03	<.030
422302071083803	<.04	<2	<.02	<.01	<.03	<2	<.03	<.030
Blanks								
01104455	<.04	<2	<.02	<.01	<.03	<2	<.03	<.030
USGS-MA-LAB	<.01	<2	<.02	—	<.01	<2	<.02	<.010

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Propiconazole, water, filtered, recoverable (micrograms per liter) P50471	Propoxur, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P38538	Pyrene, water, unfiltered, recoverable (micrograms per liter) P34469	Siduron, water, filtered, recoverable (micrograms per liter) P38548	Sulfometuron, water, filtered, recoverable (micrograms per liter) P50337	Tebuthiuron, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P82670	Terbacil, water, filtered, recoverable (micrograms per liter) P04032	Triclopyr, water, filtered (0.7-micron glass-fiber filter), recoverable (micrograms per liter) P49235
01104415	<0.01	<0.008	e0.009	<0.02	<0.038	<0.026	<0.016	<0.03
01104415	<.01	<.008	e1	e.01	<.038	<.026	<.016	<.03
01104415	<.01	<.008	<2	<.02	<.038	<.026	<.016	<.03
01104415	<.01	<.008	e2	e.06	<.038	<.026	<.016	e1.44
01104433	<.01	<.008	e.03	<.02	<.038	<.026	<.016	<.03
01104433	<.01	e.246	e.4	e.01	<.038	<.026	<.016	<.03
01104433	<.01	<.008	e.09	<.02	<.038	<.026	<.016	<.03
01104433	<.01	<.008	e.6	e.04	<.038	<.026	<.016	<.03
01104455	<.01	<.008	<2	<.02	<.038	<.026	<.016	<.03
01104455	<.01	<.008	3	e.01	<.038	<.026	<.016	<.03
01104455	<.01	<.008	<2	<.02	<.038	<.026	<.016	<.03
01104455	<.01	<.008	7	e.03	<.038	<.026	<.016	<.03
01104475	.18	<.008	e.01	<.02	<.038	<.026	<.016	<.03
01104475	.54	<.008	e.5	e.01	<.038	<.026	<.016	.25
01104475	.12	<.008	<2	<.02	<.038	<.026	<.016	<.03
01104475	<.01	<.008	3	<.02	<.038	<.026	<.016	<.03
422302071083802	<.01	<.008	e.005	e.004	<.038	<.026	<.016	<.03
422302071083803	<.01	<.008	<2	<.02	<.038	<.026	<.016	<.03
Blanks								
01104455	<.01	<.008	<2	<.02	<.038	<.026	<.016	<.03
USGS-MA-LAB	<.02	<.008	<2	<.02	<.009	<.006	<.010	<.02

Table 15. Physical properties and concentrations of major inorganic constituents, nutrients, trace metals, suspended sediments, *Escherichia coli* bacteria, polyaromatic hydrocarbons, and polar pesticides and metabolites for base-flow and stormflow water samples collected in four subbasins and the Fresh Pond intake structure in the Cambridge, Massachusetts, drinking-water source area for water year 2005.—Continued

[*Escherichia coli* concentrations were mathematically estimated from subcomposites. PXXXXX, National Water Quality Laboratory parameter code; °C, degree Celsius; e, estimated; NTRU, nephelometric turbidity ratio units; USGS-MA-LAB, U.S. Geological Survey-Massachusetts Water Science Center laboratory; <, concentration is less than value shown; id, insufficient data to estimate composite value; —, no data]

USGS station number	Naphthalene, water, unfiltered, recoverable (micrograms per liter) P34696	2-Fluorobiphenyl, surrogate (percent recovery) P49279	Terphenyl-d14, surrogate (percent recovery) P49278	Suspended sediment, sieve diameter (percent smaller than 0.063 millimeters) P70331	Suspended sediment, sieve diameter (percent smaller than 0.25 millimeters) P70333	Suspended sediment concentration (milligrams per liter) P80154	Perylene, water, unfiltered, recoverable (micrograms per liter) P77801
01104415	<2.0	97	98	64	91	3	—
01104415	e.03	93	60	46	73	144	e0.1
01104415	<2	87	69	56	78	2	<1
01104415	<2	100	55	11	19	1040	e.2
01104433	<2	95	77	67	87	2	—
01104433	e.03	95	60	82	93	29	e.05
01104433	<2	91	76	68	99	17	<1
01104433	<2	100	54	85	99	59	e.08
01104455	<2	95	97	50	79	2	—
01104455	e.04	91.2	54.6	67	93	54	e.4
01104455	<2	93	89	55	82	2	<1
01104455	<2	92	47	59	89	248	e.6
01104475	<2	50	61	61	87	4	—
01104475	e.01	99	72	50	80	29	e.06
01104475	<2	100	93	71	86	1	<1
01104475	e.04	83	42	70	95	348	e.4
422302071083802	<2	100	95	—	—	1	—
422302071083803	<2	98	32	—	—	1	—
Blanks							
01104455	e.07	90	87	0	0	<1	<1
USGS-MA-LAB	<2	95	59	0	0	<1	—

Table 16. Concentrations of *Escherichia coli* for water samples collected during base flow and storms in four subbasins in the Cambridge, Massachusetts, drinking-water source area for water year 2005.

[B, water sample collected during base flow; S, composite water sample collected during stormflow; PB, processing equipment blank; FB, field blank; R, replicate sample; col/100 mL, colony per 100 milliliters; —, no data; <, less than; K, nonideal colony count]

USGS station identifier	Sample type	Begin date	Begin time	End date	End time	*Escherichia coli* (col/100 mL)
01104415	B	20041215	1025	—	—	30
01104415	S	20050708	1038	20050708	1935	36,000
01104415	S	20050708	1941	20050708	2338	11,000
01104415	B	20050726	1210	—	—	190
01104415	S	20050814	1751	20050815	1157	18,000
01104433	B	20041215	1205	—	—	21
01104433	S	20050708	1127	20050708	2119	3,600
01104433	S	20050709	19	20050709	900	4,300
01104433	B	20050726	1245	—	—	89
01104433	S	20050915	1008	20050915	1443	6,500
01104433	S	20050915	1457	20050915	1919	5,300
01104455	B	20041215	1355	—	—	53
01104455	S	20050708	1006	20050708	2018	9,200
01104455	S	20050708	2030	20050709	816	3,700
01104455	B	20050726	1500	—	—	1,400
01104455	S	20050814	1555	20050814	1848	9,000
01104475	B	20041215	1455	—	—	K4
01104475	S	20050708	1028	20050708	2031	5,700
01104475	S	20050708	2043	20050709	632	1,700
01104475	B	20050726	1530	—	—	310
01104475	S	20050915	1012	20050915	1607	43,000
			Blanks			
01104415	PB	20050726	1211	—	—	<1
01104433	PB	20040827	915	—	—	<1
01104455	FB	20050726	1501	—	—	<1
01104455	PB	20050814	1749	—	—	<1
01104433	PB	20050915	1530	—	—	<1
			Replicate samples			
01104433	B	20041215	1205	—	—	21
01104433	R	20041215	1205	—	—	K11
01104455	B	20041215	1355	—	—	53
01104455	R	20041215	1355	—	—	84
01104475	B	20041215	1455	—	—	K4
01104475	R	20041215	1455	—	—	K11
01104415	S	20050814	1751	20050815	1157	18,000
01104415	R	20050814	1752	—	—	12,000
01104433	S	20050915	1008	20050915	1443	6,500
01104433	R	20050915	1009	—	—	7,500

Glossary

Definitions in this glossary are adapted from the U.S. Geological Survey Annual Water Data Report for Massachusetts and Rhode Island (Socolow and others, 2004).

A

alkalinity The capacity of solutes in an aqueous system to neutralize acid. Alkalinity is determined by titration of a filtered sample.

annual runoff The total quantity of water that is discharged (runs off) from a drainage basin in a year. This report presents annual runoff data as volumes in millions of gallons per day per square mile and as depths of water on the drainage basin in inches.

B

base flow Sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced stream flows. Natural base flow is sustained largely by ground-water discharge.

C

capacity The volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

control A feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the station. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

D

datalogger A microprocessor-based data-acquisition system designed specifically to acquire, process, and store data. Most dataloggers are capable of transmitting data by phone modem, cellular modem, radio, or satellite-communication systems.

datum A surface or point relative to which measurements of height and horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of stream stage or altitude; a horizontal datum is a reference for positions given in terms of latitude-longitude, state plane coordinates, or Univeral Transverse Mercado coordinates.

discharge or flow The rate at which matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, or pipeline within a given period of time.

dissolved The material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of dissolved constituent concentrations are made on sample water that has been filtered.

dissolved oxygen Molecular oxygen (O_2, oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

drainage area The area measured in a horizontal plane upstream from the location from which surface runoff from precipitation normally drains by gravity to the stream at that location. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

drainage basin A part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff.

E

***Escherichia coli* (*E. coli*)** Bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5°C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

estimated (E) concentration value Reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an "E" code will be reported with the value. Also, if the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the USGS National Water Quality Laboratory will identify the result with an "E" code even though the measured value is greater than the MDL. A value reported with an "E" code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

G

gill radiation shield A louvered structure which allows air to pass freely through the shield thereby serving to keep a temperature sensor at or near ambient temperature. The shield's white color reflects solar radiation.

I

inch In this report, this unit is used for the depth to which a drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed over it. *See also* annual runoff

instantaneous discharge The discharge at a particular instant of time. *See also* discharge

L

laboratory reporting level (LRL) The concentration generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample containing an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The USGS National Water Quality Laboratory collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change.

long-term method detection level (LT-MDL) A concentration derived by determining the standard deviation of a minimum of 24 method-detection-limit spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample not containing the analyte is predicted to be less than or equal to 1 percent.

M

mean discharge The arithmetic mean of individual daily mean discharges during a specific period. *See also* discharge

metabolite Any substance produced, used, or remaining during or after metabolism (that is, digestion).

method detection limit The minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

micrograms per liter A unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

microsiemens per centimeter A unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

milligrams per liter A unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. The concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

million gallons per day The total volume of water represented by flow over a 24-hour period of time. Expressed as a rate, it is the volume of water per unit time (that is, seconds, minutes, or hours) that if held constant, would represent a flow for a 24-hour period. One Mgal/d is equivalent to 1.547 cubic feet per second or 0.04381 cubic meters per second.

million gallons per day per square mile The average volume of water in millions of gallons from each square mile of area drained. The runoff is assumed to be distributed uniformly in time and area. *See also* annual runoff

minimum reporting level (MRL) The smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

N

National Geodetic Vertical Datum of 1929 (NGVD 29) A fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. *See also* NOAA Web site: *http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88, and* North American Vertical Datum of 1988

North American Datum of 1983 (NAD 83) The horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

P

parameter code A five-digit number used in the USGS computerized data system, National Water Information System, to uniquely identify a specific constituent or property.

particle size The diameter, in millimeters, of a particle determined by sieve methods.

pesticides Chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water The negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many chemical constituents commonly dissolved in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

polar pesticides Pesticides that are very water soluble and tend not to be adsorbed onto soil. These pesticides are also not very soluble in tissues and tend not to bioconcentrate in biota because of their low solubility.

precipitation Falling products of water-vapor condensation in the atmosphere, such as rain, snow, sleet, and hail.

S

sea level As used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums. See data-statement conversion in the table page for identification of the datum used in this report.

sediment Solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and origin of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

specific conductance (conductivity) A measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for

approximating the dissolved solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream and may vary in the same source with changes in the composition of the water.

stage The water-surface altitude in feet above the datum. If the water surface is below the datum, the stage is negative.

stage-discharge relation The relation between the water-surface altitude, called stage (gage height), and the volume of water flowing in a channel per unit time.

streamflow The discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a naturally flowing stream. The term "streamflow" includes sources of water in addition to "runoff," and applies to discharge affected by diversion or regulation.

streamflow-duration percentiles Values on a scale of 100 indicating the percentage of time during which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

suspended As used in tables of chemical analyses, undissolved material in a water-sediment mixture. It is defined operationally as the material retained when environmental water samples are processed through a 0.45-micrometer filter.

suspended sediment The sediment that is maintained in suspension by the turbulent upward components of currents or that exists in suspension as a colloid. *See also* sediment

suspended-sediment concentration The velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture. The analytical technique uses the mass of all the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. *See also* sediment *and* suspended sediment

T

total discharge The quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

total recoverable The amount of a given constituent in a whole-water sample after a sample has been digested (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the total amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

traceable thermometer A thermometer that has been found to conform to specific requirements of construction and accuracy.

turbidity An optical property of a liquid that causes light rays to be scattered and absorbed rather than transmitted in straight lines through water. Turbidity, which can make water appear cloudy or muddy, is caused by the presence of suspended and dissolved matter, such as clay, silt, finely divided organic matter, plankton and other microscopic organisms, organic acids, and dyes (ASTM International, 2003). The color of water, whether resulting from dissolved compounds or suspended particles, can affect a turbidity measurement. To ensure that USGS turbidity data can be understood and interpreted properly within the context of the instrument used and site conditions encountered, data from each instrument type are stored and reported in the USGS National Water Information System by using parameter codes and measurement reporting units that are specific to the instrument type, with specific instruments designated by the method code. Specific reporting units used in this report are as follows:

NTUR (Nephelometric Turbidity Units) White or broad band [400–680 nm] light source, 90 degree detection angle, multiple detectors with ratio compensation.

FNU (Formazin Nephelometric Units) Near infrared [780–900 nm] or monochrome light source, 90 degree detection angle, one detector.

FNMU (Formazin Nephelometric Multibeam Units) Near infrared [780–900 nm] or monochrome light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam. For more information please see Anderson (2004).

W

water year In USGS reports dealing with surface-water supply, the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2005, is called the “2005 water year.”