Public-Supply Pumpage in Kings, Queens, and Nassau Counties, New York, 1880-1995

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CONVERSION FACTORS, ABBREVIATIONS AND VERTICAL DATUM

Multiply	By	To Obtain
Length		
inch (in.)	2.54	centimeter
foot (ft)	0.3048	meter
Area		
square mile (mi ²)	2.59	square kilometer
Flow		
gallons per minute (gal/min)	3.7854	liters per minute
million gallons per day (Mgal/d)	0.0438	cubic meters per second
inch per year (in/yr)	25.40	millimeter per year
Hydraulic conductivity		
feet per day (ft/d)	0.3048	meters per day
Transmissivity		
square foot per day (ft ² /d)	0.0929	square meter per day

Sea level: In this report, “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

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Abstract

Records of public-supply pumpage from wells in Kings, Queens, and Nassau Counties were compiled for use in developing a ground-water flow model of western Long Island and are presented here. Pumpage data from 1880 through 1903 represent 48 well fields, and data from 1898 through 1984 represent 547 wells. These data fill gaps between (1) historical monthly and annual data compiled in a 1981 study by the U.S. Geological Survey, and (2) data provided by the New York State Department of Environmental Conservation, to provide a virtually complete set of public-supply pumpage data from 1880 through 1995. The data include a small number of estimates of annual public-supply pumpage.

INTRODUCTION

Kings and Queens Counties, on western Long Island, N.Y. (fig. 1), obtain nearly all water (about 700 Mgal/d, Buxton and Shernoff, 1995) from an upstate reservoir system operated by the City of New York. The possibility that this source will be inadequate during future droughts or other emergencies has prompted consideration of the underlying aquifer system in Kings and Queens Counties as a supplemental water-supply source. The aquifers beneath the two counties were pumped extensively through the mid-1940's until overpumping caused extensive drawdowns and induced saltwater encroachment, which necessitated the shutdown of many wells in several areas. All public-supply pumping was stopped in Kings County (Brooklyn) in 1947 to prevent further saltwater encroachment, and several wells were shut down in western Queens County in 1974 for the same reason.

Pumpage for public and industrial water supply during 1904-47 averaged more than 120 Mgal/d (Buxton and others, 1981), and drawdowns in the

aquifer system in Kings County in 1936 extended to as much as 35 ft below sea level. Within 3 years after the curtailment of pumping in Kings County in 1947, water levels in the water-table aquifer had recovered to within 8 ft of predevelopment levels (Luszczynski, 1952) and have been near predevelopment levels since 1974. Even though a major cone of depression remained in eastern Queens County through the late 1980's, water levels there did not decline as far as they had in Kings County (Buxton and others, 1981). A major difficulty associated with the water-level recovery is that many of the structures and subways that were constructed when water levels were drawn down, particularly in central and east-central Kings County (fig. 1), now require constant dewatering.

The aquifer system has largely recovered from the effects of the early pumping, and the question has arisen as to whether the system could now safely be used under a monitored pumping regime as a supplement during water-supply shortages. The major concerns are (1) the extent to which intermittent pumping would induce saltwater encroachment, and (2) whether the pumping would induce the migration of contaminants (such as volatile organic compounds [VOC's] and saltwater) from the water-table aquifer to deeper aquifers. The feasibility of using the Kings-Queens aquifer system for water supply will depend on hydraulic characteristics of the aquifers and the chemical quality of the pumped water.

In 1992, the U.S. Geological Survey (USGS), in cooperation with the New York City Department of Environmental Protection, began a 4-year study to develop a ground-water-flow model that can simulate a range of pumping scenarios and indicate what effects they would have on ground-water levels and flow patterns. The results would enable water managers to select optimum rates and locations for pumping to minimize saltwater encroachment and contaminant migration.

EXPLANATION

- Flatbush pumping center franchise area
- Woodhaven pumping center franchise area
- Jamaica pumping center franchise area

Figure 1. Location and pertinent features of study area, Long Island, N.Y.

Objectives of Study

The principal goals of the study were to:

- (1) Define the ground-water quality in the Kings-Queens aquifer system, with emphasis on contamination from VOC's and saltwater.
- (2) Establish a hydrologic-data-collection network in Kings and Queens Counties to obtain data for use in model calibration and future monitoring of water levels and water quality.
- (3) Develop a numerical ground-water-flow model to predict the effects of present and proposed water-

supply pumping and dewatering operations on ground-water levels and flow patterns.

The work proceeded in five phases:

- (1) Reconnaissance of 106 wells that were sampled in Kings, Queens, and Nassau Counties in 1983 (Buxton and Shernoff, 1995). Only 87 of these 106 wells were available for resampling; the others had either been destroyed, had clogged screens, or were inaccessible.
- (2) Sampling the remaining wells to locate areas with high concentrations of contaminants.

- (3) Installing 15 wells in three aquifers to provide hydrogeologic information, particularly on the location of the saltwater interface (Chu and Stumm, 1995), and to augment the water-level-monitoring network.
- (4) Compiling pumpage data for use in ground-water-flow model (Nassau County pumpage was included for modeling purposes).
- (5) Creating a Geographic Information System (GIS) database for use in the development of the ground-water-flow model. The data elements for each well include screen depth, aquifer, water levels, water chemistry, hydrogeology, pumpage, and specific capacity.

Purpose and Scope

This report presents supplemental pumpage data that fill gaps between the historical pumpage records (1898-1903) of Veatch and others (1906), and those (1920-79, Nassau County) of Kilburn (1982), and in the recent (1985-95) records of the New York State Department of Environmental Conservation (NYSDEC). The data pertain to wells screened in the upper glacial, Jameco, Port Washington, Magothy, and Lloyd aquifers in Kings, Queens, and Nassau Counties. Total pumpage, by county and aquifer for 1920-95, as well as maximum, minimum, and average pumpage by county and aquifer, are also presented.

The report also summarizes the history of public-supply development in the study area and describes the physical and hydrogeological characteristics of the aquifers in the study area; it also explains the methods used to obtain pumpage estimates. Pumpage records from 1880 through 1903 (48 well fields) are derived solely from Veatch and others (1906), are given in table 1, and those from 1898 through 1984 (547 wells) are obtained from USGS and NYSDEC records and are given in table 2B. (Latitude, longitude, and aquifer in which these wells are screened is given in table 2A.) The pumpage data are provided as annual total pumpage by public-supply well or well field, and include a small number of estimates. Tables 1 and 2B are arranged by county, well number, and year. Annual public-supply pumpage totals by county and aquifer, obtained from the NYSDEC for 1925-95, are included in table 3, and maximum, minimum, and mean annual pumpage by county and aquifer are given in table 4. (All tables at end of report.)

Acknowledgments

The authors thank Brian Baker of the New York State Department of Environmental Conservation for facilitating the pumpage-data search.

STUDY AREA

The study area encompasses Kings, Queens, and Nassau Counties in the western part of Long Island and has a total area of about 476 mi² (fig. 1). This area is underlain by four major aquifers—the upper glacial, Jameco, Magothy, and Lloyd (fig. 2).

Physical Setting

The study area is bounded on the north by Long Island Sound, on the south by the Atlantic Ocean, on the east by Suffolk County, and on the west by the East River, and New York Bay (fig. 1). The southern shore of the study area includes bays, lagoons, islands, and barrier beaches. Precipitation, the sole source of naturally occurring freshwater on Long Island, ranges from 40 to 50 in/yr (Miller and Frederick, 1969). Altitudes range from 360 ft above sea level on morainal deposits to sea level at the coast. Many streams, and much of the low-lying swamp and marsh areas, were filled in as the area became urbanized.

Historical Ground-Water Use

The population of the three-county study area increased from less than 2 million in 1900 to more than 5.5 million in 1990 (U.S. Census Bureau, 1990). Before 1880, the water supply in Kings County was derived entirely from streams; Queens and Nassau Counties were still rural and undeveloped. The Kings County water-supply stream network, established in 1862, extended from Brooklyn to Lynbrook (fig. 1) and consisted of six supply ponds that, together, drained 65.6 mi² (Veatch and others, 1906). In 1874, Long Island City (fig. 1) became the first village to use a well for public-water supply; by the 1880's, Brooklyn was using multiple well stations to supplement the water supply for the rapidly growing population. From then on, ground water was the major source of water supply in the study area.

Figure 2. Generalized cross section showing relative positions of aquifers, Long Island, N.Y. (From Franke and McClymonds, 1972, fig. 8.)

In 1904, total ground-water pumpage for public supply was 51 Mgal/d—15 Mgal/d in Kings County, 27 Mgal/d in Queens, and 9 Mgal/d in Nassau (Johnson and Waterman, 1952). By 1916, total public-supply pumpage in the three counties had nearly tripled to 150 Mgal/d, and an estimated additional 75 Mgal/d was withdrawn for industrial purposes (Thompson and Leggette, 1936). The first water tunnel from upstate reservoirs was completed in 1917, and ground-water pumpage declined significantly the following year as a result.

From 1918 through 1931, public-supply pumpage in Kings, Queens, and Nassau Counties nearly quadrupled—from 46 Mgal/d to 171 Mgal/d, and industrial-supply pumpage reached historically high levels in Kings and Queens in 1933—50 Mgal/d in Kings County and 25 Mgal/d in Queens (Thompson and Leggette, 1936). These immense withdrawals prompted the passing of the Water Conservation Law of 1933, which required business owners to return nonconsumptive water pumped at a rate greater than 70 gal/min back to the source aquifer, rather than discharging it to sewers. Electric refrigeration also contributed to the reduction in ground-water pumpage because water was no longer needed to produce ice for refrigerating food (Buxton and others, 1981). Luszczynski (1952) reported pumpage for ice production to have decreased from 18 Mgal/d in 1936 to 4 Mgal/d in 1947.

By 1947, saltwater intrusion resulting from excessive ground-water withdrawals in Brooklyn had become widespread and led to the shutdown of New York Water Service Corporation's Flatbush wells (fig. 1), where pumpage had averaged over 18 Mgal/d during 1904-47. The shutdown of the Flatbush wells ended the use of ground water as a public-supply source in Brooklyn.

As Kings County became extensively urban, Queens and Nassau Counties were undergoing rapid population growth and development. Pumpage from the New York Water Service Corporation's Woodhaven wells in Queens County (fig. 1) increased from 45 Mgal/d in 1950 to over 60 Mgal/d in the 1970's and, as in Kings County 3 decades earlier, led to saltwater intrusion and the shutdown of the Woodhaven wells in 1974, leaving the Jamaica Water Supply Company (Jamaica pumping center, fig. 1) as the only ground-water public-supply utility remaining in Queens County. Jamaica Water Supply pumpage in Queens exceeded 60 Mgal/d during 1976-82. A major cone of depression and deteriorating water quality in several wells by the mid-1980's forced the company to reduce pumpage to less than 30 Mgal/d by the late 1980's (Brian Baker, New York State Department of Environmental Conservation, written commun., 1991).

Since 1948, pumping in Kings County has been only for industrial, commercial, or dewatering pur-

poses (Buxton and others, 1981). Public-supply pumping continues in eastern Queens at reduced rates, and Nassau County derives all of its public-supply water from wells. Figures 3 through 6 show trends in public-supply pumpage by aquifer through time. Recent estimates indicate average per-capita water use in Kings and Queens Counties to be about 100 gal/d per county (Edmund Parrish, New York City Department of Environmental Protection, oral commun., 1996). U.S. Geological Survey estimates show per-capita water use in Kings and Queens Counties to be about 141 gal/d per county (D.S. Lumia, U.S. Geological Survey, written commun., 1997).

Aquifer Characteristics

The principal aquifers in the study area are the upper glacial (water table), Magothy, and Lloyd. The Jameco and Port Washington aquifers are local aquifers found along the southern part of the three counties, and the northern part of Nassau County, respectively. The following section briefly describes the geologic and hydraulic characteristics of the aquifers and cites references that provide additional information.

Upper Glacial (Water-Table) Aquifer

Pleistocene glaciation covered Long Island with a mantle of till, outwash, and glaciolacustrine deposits. Till, a poorly sorted mixture of clay, sand, gravel, and boulders, forms the moraines along northern Long Island and is poorly permeable. Outwash, by contrast, overlies the central and southern part of Long Island and consists of fine to coarse sand and gravel that is moderately to highly permeable and form the upper glacial aquifer (fig. 2). Glaciolacustrine deposits consist of clay, silt, sand, and gravel and are found in central and eastern Long Island, and marine clay deposits are found along the southern shore of Long Island. These deposits are poorly permeable but contain thin, local lenses of sand and gravel that are moderately permeable.

The average horizontal hydraulic conductivity of the Pleistocene deposits ranges from less than 130 ft/d in till to 270 ft/d in outwash. The average transmissivity is 24,120 ft²/d in Kings County, 16,080 ft²/d in Queens County, 28,140 ft²/d in northern Nassau County, and 12,730 ft²/d in southern Nassau County (McClymonds and Franke, 1972). The upper glacial aquifer is in hydraulic contact with the Magothy

except along most of the southern shore of Long Island, where the two aquifers are separated by the Gardiners Clay and Jameco aquifer. The Gardiners Clay restricts vertical flow to underlying aquifers.

Jameco Aquifer

The Jameco aquifer, a southern-shore glacial stream deposit (fig. 2), lies unconformably beneath the Gardiners Clay throughout most of Kings, Queens, and western Nassau Counties but is in contact with the upper glacial aquifer locally. The Jameco aquifer consists of coarse to fine sand and gravel and is moderately to highly permeable. The average horizontal hydraulic conductivity has been estimated to be 267 ft/d (Soren, 1971). The average transmissivity is 16,080 ft²/d in Kings County, 13,400 ft²/d in Queens County, and 6,700 ft²/d in southern Nassau County (McClymonds and Franke, 1972).

Port Washington Aquifer

The Port Washington aquifer, in northern Nassau County, lies unconformably upon bedrock and is overlain by the Port Washington confining unit (Kilburn, 1979). Neither the Port Washington aquifer nor the Port Washington confining unit are shown in figure 2 because their extent is limited. The southern part of the Port Washington aquifer overlaps and abuts the adjacent Cretaceous units. The Port Washington aquifer consists mainly of sand or sand and gravel with interbedded clay, silt, and sandy clay.

Magothy Aquifer

The Magothy aquifer, of Cretaceous age, lies unconformably beneath the Pleistocene deposits, primarily the upper glacial aquifer, but also Jameco aquifer in southwestern Long Island. The Magothy is underlain unconformably by the Raritan confining unit, hereafter the "Raritan clay," which restricts vertical flow to the underlying Lloyd (fig. 2). The Magothy consists of alternating beds of clay, silt, sand, and gravel and is absent throughout most of Kings County. The average horizontal hydraulic conductivity of the Magothy aquifer has been estimated to be 50 ft/d (Franke and Cohen, 1972). The average transmissivity is 11,390 ft²/d where this unit is present in Kings County, and is 10,720 ft²/d in Queens County, 18,760 ft²/d in northern Nassau County, and

Figure 3. Annual pumpage from upper glacial aquifer in Kings, Queens, and Nassau Counties, N.Y., 1920-95.

Figure 4. Annual pumpage from Jameco aquifer in Kings, Queens, and Nassau Counties, N.Y., 1920-95.

Figure 5. Annual pumpage from Port Washington aquifer in Nassau County, and Magothy aquifer in Queens and Nassau Counties, N.Y., 1920-95.

Figure 6. Annual pumpage from Lloyd aquifer in Kings, Queens, and Nassau Counties, N.Y., 1920-95.

33,500 ft²/d in southern Nassau County (McClymonds and Franke, 1972).

Lloyd Aquifer

The Lloyd aquifer, of the Late Cretaceous-aged Raritan formation, lies conformably beneath the Raritan clay and unconformably upon bedrock (fig. 2). The Lloyd consists of fine to coarse sand and gravel and is poorly to moderately permeable. The average horizontal hydraulic conductivity has been estimated to be 40 ft/d (Franke and Cohen, 1972). The average transmissivity is 4,690 ft²/d in Kings County, 8,040 ft²/d in Queens County, 12,060 ft²/d in northern Nassau County, and 16,080 ft²/d in southern Nassau County.

METHODS OF DATA COMPILATION

Pumpage values for most years from 1880 through 1903 (table 1) were estimated from data given in Veatch and others (1906) because records were insufficient. Pumpage for 1898 through 1984 (table 2B) was tabulated from USGS and NYSDEC pumpage spreadsheets. Computerized pumpage data for 1985-95 (table 3) were obtained from the NYSDEC at Stony Brook, N.Y., and are tabulated by county and aquifer.

Compilation procedures consisted of (1) review of previous studies, and (2) estimating pumpage for individual wells at multiple-well pumping stations.

Published Sources

Veatch and others (1906) described the ground-water resources of Long Island and provided a water-table map, as well as a map showing the distribution of pumping centers. Buxton and others (1981) discussed historical pumpage in Kings and Queens Counties. Kilburn (1982) compiled monthly pumpage records of public-supply wells in Nassau County for 1920-79 and included pumpage from stations in Nassau County that supplied water to New York City. Snavelly and Williams (1984) estimated total 1973-79 ground-water withdrawals and returns in Nassau County.

Pumpage

Pumpage values for 1880 through 1903 were estimated from the multiple-well (well-field) pumping-station data given in Veatch and others (1906) and are listed in table 1. For each well listed, values are given as (1) total well-field-station capacity, and (2) reported (actual) pumpage for a given year, in gallons per day. If no capacity estimate was available for a given station, the highest reported value for that station was used. The well fields contained from 2 wells to more than 100 wells.

Table 2A lists all public-supply wells in the USGS database that have pumpage data and gives their latitude, longitude, and the aquifer in which they are screened. Total annual pumpage, by well, for 1898 through 1984 is given in table 2B. Some water companies record total pumpage of a group of wells instead of by individual well; annual estimates for wells in multiple-well pumping stations were calculated as the total station pumpage divided by the number of wells. The "Remarks" column in table 2B indicates multiple-well pumping stations and whether the pumpage is estimated, and whether monthly data are missing from the annual total. Years without pumpage are not included.

Public-supply pumpage totals by year, county, and aquifer for 1920-95 are given in table 3. Wells with unknown or multiple screened intervals are denoted by the term "unknown" in the "Aquifer" column of table 3. The data in table 3 are depicted as bar graphs in figures 3-6. Maximum, minimum, and mean annual pumpage by county and aquifer for 1920-95 are presented in table 4.

GROUND-WATER PUMPAGE

Pumpage data are listed by well field and well in tables 1 and 2B. Table 1 lists estimated and actual (reported) average daily pumpage in the three counties by well field for 1880 through 1903, and table 2B lists annual public-supply pumpage, by well, for 1898 through 1984. The 1974-84 data in table 2B were compiled to fill the gap between Kilburn's data (1982) and the NYSDEC's computerized pumpage data for 1985-95; the wells are listed by their New York State well-identification numbers.

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Table 1. Estimated pumpage capacity and reported public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1880-1903

[Data from Veatch, 1906. Dash indicates data not available; °, degrees; ', minutes; ", seconds]

Well-field station	Latitude ° ' "	Longitude ° ' "	Aquifer	Year service began	Estimated station capacity (gallons per day)	Recorded pumpage	
						Gallons per day	Year
New Utrecht	403552	735728	Upper glacial	1880	2,000,000	1,120,596	1899
Gravesend	403614	735721	Upper glacial	--	2,600,000	2,444,032	1899
New Lots	404012	735224	Upper glacial	1881	4,330,600	4,330,600	1899
Blythebourne	403757	735958	Upper glacial	1892	200,000	200,000	1899
Flatbush	403817	735647	Upper glacial	1882	2,155,400	2,155,400	1899
Spring Creek Old	404021	735120	Upper glacial	1882	2,500,000	1,986,580	1899
Spring Creek Old	404021	735120	Jameco	1882	2,500,000	1,986,580	1899
Spring Creek Temp	404024	735131	Upper glacial	1894	4,500,000	2,997,945	1899
Shetucket	403951	734917	Jameco	1897	3,500,000	1,678,219	1899
Oconee	404000	734828	Jameco	1897	2,500,000	1,634,408	--
Baisley's	404001	734731	Upper glacial	1882	2,500,000	1,527,051	--
Jameco	404014	734715	Upper glacial	1888	3,000,000	2,467,741	1899
Jameco	404014	734715	Jameco	1888	3,000,000	2,467,741	1899
Springfield	403950	734535	Jameco	1897	2,133,890	2,133,890	1899
Forest Stream	403946	734436	Upper glacial	1885	5,000,000	3,439,039	1899
LI City 1	404433	735556	Upper glacial	1874	682,800	682,800	1899
LI City 2	404621	735342	Upper glacial	1886	803,000	803,000	1899
LI City 3	404502	735505	Upper glacial	1894	621,000	621,000	1899
Bayside-Flushing	404539	734520	--	1874	3,000,000	980,000	1899
Whitestone 1	404702	734919	Upper glacial	1892	1,000,000	181,000	1899
Woodhaven	404112	735104	Upper glacial	1894	274,000	274,000	1899
Woodhaven	404112	735104	Jameco	1894	274,000	274,000	1899
Montauk	404151	734845	Upper glacial	1895	1,800,000	1,800,000	1899
Jamaica	404148	734718	Upper glacial	1887	3,500,000	1,500,000	1899
Jamaica	404148	734718	Upper glacial	1887	3,500,000	1,137,500	1903
Jamaica	404148	734718	Jameco	1887	3,500,000	1,137,500	1903
Citizens 1	404423	735231	Upper glacial	1894	608,000	608,000	1899
Citizens 2	404525	735342	Upper glacial	1897	1,510,000	1,510,000	1899
Citizens 3	404300	734942	Upper glacial	1899	3,500,000	2,067,700	1899
Citizens 4	404342	735021	Upper glacial	1900	2,500,000	--	--
Citizens 5	404349	735029	Upper glacial	1901	2,000,000	--	--
Bowerybay Northbeach	404623	735326	Upper glacial	--	500,000	500,000	1903
Clear Stream	403947	734305	Upper glacial	1885	5,000,000	2,568,055	1899
Watts Pond	403939	734229	Upper glacial	1894	2,500,000	2,213,703	1899
Agawam	403928	733408	Upper glacial	1896	4,518,951	520,305	1899
Merrick	403938	733315	Upper glacial	1896	4,693,432	325,813	1899
Matowa	403952	733220	Upper glacial	1896	4,495,622	890,939	1899
Wantagh	404010	733054	Upper glacial	1896	3,998,844	1,377,682	1899
Massapequa	404029	732753	Upper glacial	1896	5,373,196	--	--
Valley Stream	404002	734204	Upper glacial	1884	561,790	561,790	1899
Valley Stream	404002	734204	Jameco	1884	561,790	561,790	1899
Rockville Centre	403927	733828	Upper glacial	1896	500,000	25,000	1897
Rockville Centre	403927	733828	Upper glacial	1896	500,000	150,466	1902
Freeport	403920	733536	Upper glacial	1894	60,000	60,000	1902
Merrick	403930	733311	Upper glacial	1896	7,200	--	--
Hempstead	404248	733715	Upper glacial	1890	200,000	200,000	1897
Hempstead	404248	733715	Upper glacial	1890	200,000	75,000	1903
Garden City	404347	733825	Upper glacial	1876	500,000	500,000	1897
Sea Cliff	405027	733909	Upper glacial	1872	500,000	--	--
Glen Cove (Pratt)	405307	733759	Magothy	1891	75,000	--	--
Glen Cove (NCWCo.)	405113	733721	Upper glacial	1903	1,000,000	--	--

Table 2A. Location and aquifer screened of public-supply wells in Kings, Queens, and Nassau Counties, N.Y.

[°, degrees; ′, minutes; ″, seconds; --, no data available]

Well number	Latitude ° ′ ″	Longitude ° ′ ″	Aquifer in which well is screened	Well number	Latitude ° ′ ″	Longitude ° ′ ″	Aquifer in which well is screened
¹ K500	403819	735635	Upper glacial	Q304	404025	734839	Upper glacial
¹ K500.2	403819	735635	Upper glacial	Q305	404250	734538	Upper glacial
K501	403819	735846	Upper glacial	Q306	404147	734718	Upper glacial
K503	403836	735845	Upper glacial	Q307	404302	734513	Upper glacial
K504	403819	735618	Upper glacial	Q308	404202	734916	Upper glacial
K505	403815	735653	Upper glacial	Q310	404140	734412	Upper glacial
K506	403920	735550	Upper glacial	Q311	404107	734805	Jameco
K507	403936	735614	Upper glacial	Q312	404044	734552	Jameco
K508	403853	735823	Upper glacial	Q313	404330	734503	Upper glacial
K510	403831	735909	Upper glacial	Q314	404049	734752	Jameco
K512	403842	735816	Upper glacial	Q317	404154	734937	Lloyd
K513	403751	735838	Upper glacial	Q318	404254	734813	Magothy
K514	403830	735545	Upper glacial	Q319	404245	734734	Upper glacial
K516	403951	735523	Upper glacial	Q321	404352	734448	Upper glacial
K517	403950	735709	Jameco	Q322	404218	734933	Upper glacial
K519	403936	735613	Jameco	Q323	404200	734403	Upper glacial
K520	403951	735525	Jameco	Q324	--	--	Upper glacial
K521	403849	735547	Lloyd	Q324.2	404155	734638	Upper glacial
K522	403857	735721	Jameco	¹ Q351	404119	735113	Upper glacial
K523	403754	735813	Jameco	¹ Q352	404005	734958	Upper glacial
K524	403920	735551	Jameco	Q353	404101	735102	Upper glacial
K525	403818	735847	Jameco	Q354	404116	735147	Upper glacial
K526	403949	735737	Jameco	Q355	404122	735033	Upper glacial
K527	403857	735720	Upper glacial	Q557	404223	734800	Magothy
K528	403921	735708	Jameco	Q558	404054	734917	Upper glacial
K529	403839	735847	--	Q559	404021	734839	Jameco
K530	403818	735810	Upper glacial	Q560	404143	734717	Upper glacial
K531	403950	735740	--	Q561	404139	734715	Upper glacial
K1232	403909	735756	Upper glacial	Q562	404140	734716	Lloyd
K1233	403909	735757	Upper glacial	Q563	404302	734513	Magothy
K1234	403909	735757	Upper glacial	Q564	404302	734513	Magothy
K1329	403943	735653	Upper glacial	Q565	404201	734916	Lloyd
K1331	403943	735640	Upper glacial	Q566	404154	734937	Magothy
K1338	403949	735737	Upper glacial	Q567	404253	734813	Lloyd
K1343	403934	735539	Upper glacial	Q568	404200	734403	Magothy
K1351	403921	735659	Upper glacial	Q569	404212	734642	Upper glacial
K1357	403912	735830	Upper glacial	Q570	404203	734646	Upper glacial
K1359	403908	735526	Upper glacial	Q1058	404200	734638	Upper glacial
K1360	403904	735628	Upper glacial	Q1378	404120	735112	--
K1363	403923	735527	Upper glacial	Q1379	404154	735107	--
K1516	403943	735653	Upper glacial	Q1450	404207	734459	Upper glacial
Q68	404108	735032	Upper glacial	Q1476	404041	734956	Upper glacial
Q301	404214	734934	Upper glacial	Q1477	404050	735022	--
Q302	404223	734801	Upper glacial	Q1484	404113	735011	Upper glacial
Q303	404054	734917	Upper glacial	Q1493	404140	735041	Upper glacial

¹ Latitude and longitude given for this well are at approximate center of well field.

² Well not listed in table 2B.

Table 2A. Location and aquifer screened of public-supply wells in Kings, Queens, and Nassau Counties, N.Y.--continued

Well number	Latitude ° ' "	Longitude ° ' "	Aquifer in which well is screened	Well number	Latitude ° ' "	Longitude ° ' "	Aquifer in which well is screened
Q1511	404139	735105	Upper glacial	Q3034	404234	734553	Magothy
Q1528	404137	735158	Upper glacial	Q3062	404059	734508	Magothy
Q1534	404249	734435	Upper glacial	Q3069	404202	734917	Lloyd
Q1600	404330	734503	Magothy	Q3083	404056	734406	Magothy
Q1604	404152	735052	Upper glacial	² Q3156	404050	734755	--
Q1629	404249	734435	Magothy	² Q3157	404107	734805	--
Q1747	404323	734553	Upper glacial	² N10	404229	734246	Magothy
Q1811	404151	734917	Upper glacial	² N11	404224	734238	Magothy
Q1815	404211	734500	Magothy	N12	404219	734240	Magothy
Q1839	404150	734719	Upper glacial	N13	404214	734241	Magothy
Q1840	404057	734854	Upper glacial	N14	404411	734137	Upper glacial
Q1843	404145	734734	Upper glacial	N15	404427	734149	Upper glacial
Q1957	404250	734538	Magothy	N17	404437	734023	Upper glacial
Q1958	404140	734412	Magothy	N22	404642	734405	Magothy
Q1997	404248	734601	Upper glacial	² N23	404642	734405	Lloyd
Q2000	404332	734429	Magothy	N24	404735	734242	Lloyd
Q2001	404259	734634	Upper glacial	N28	404833	734147	Upper glacial
Q2006	404216	734912	Upper glacial	N29	404830	734148	Upper glacial
Q2026	404042	734336	Magothy	² N30	404901	734430	Port Washington
Q2027	404156	734525	Magothy	N31	404857	734427	Port Washington
Q2028	404156	734525	Magothy	² N33	405011	734150	Port Washington
Q2137	404254	734813	Magothy	² N35	405010	734151	Port Washington
Q2138	404204	735000	Upper glacial	² N36	405109	734303	Port Washington
Q2188	404332	734429	Magothy	N37	405111	734302	Upper glacial
Q2189	404123	734930	Upper glacial	² N40	403536	733941	Lloyd
Q2243	404116	734521	Upper glacial	² N41	403536	733936	Lloyd
Q2275	404216	734423	Upper glacial	² N42	403537	733939	Magothy
Q2276	404216	734423	Magothy	² N43	403531	734012	Lloyd
Q2299	404225	734503	Upper glacial	² N44	403531	734023	Lloyd
Q2300	404224	734503	Magothy	² N45	403536	733943	Lloyd
Q2321	404245	734406	Upper glacial	N46	403534	733527	Lloyd
Q2332	404204	735000	Magothy	² N48	403923	733922	Magothy
Q2343	404249	734406	Magothy	² N49	403923	733916	Magothy
Q2362	404320	734818	Magothy	² N50	403923	733916	Magothy
Q2363	404343	734831	Magothy	² N52	403929	733826	Magothy
Q2373	404323	734838	Magothy	N68	403922	733532	Magothy
Q2374	404323	734838	Magothy	N69	403921	733537	Magothy
Q2408	404329	734827	Magothy	N72	404104	733741	Magothy
Q2409	404329	734827	Magothy	N75	404138	733836	Upper glacial
Q2432	404247	734603	Magothy	N76	404136	733833	Upper glacial
Q2435	404351	734448	Magothy	² N78	404259	733716	Magothy
Q2442	404135	734402	Upper glacial	N79	404252	733714	Magothy
Q2443	404135	734402	Magothy	N80	404256	733712	Magothy
Q2955	404040	734450	Magothy	N81	404305	733709	Magothy
Q3014	404309	734700	Magothy	N82	404308	733707	Magothy
² Q3029	404059	734508	--	N83	404306	733713	Lloyd

¹ Latitude and longitude given for this well are at approximate center of well field.

² Well not listed in table 2B.

Table 2A. Location and aquifer screened of public-supply wells in Kings, Queens, and Nassau Counties, N.Y.--continued

Well number	Latitude ° ' "	Longitude ° ' "	Aquifer in which well is screened	Well number	Latitude ° ' "	Longitude ° ' "	Aquifer in which well is screened
² N91	404350	733816	Upper glacial	² N715	404047	733547	Upper glacial
² N93	404352	733831	Upper glacial	² N728	404049	732559	Upper glacial
N94	404350	733825	Magothy	² N729	404057	732603	Upper glacial
N95	404352	733830	Magothy	² N733	405230	733230	Port Washington
N97	404448	733812	Magothy	² N735	405231	733232	Upper glacial
² N98	404446	733813	Magothy	² N736	405230	733231	Upper glacial
N101	404521	733534	Magothy	² N737	404223	734238	Upper glacial
N103	404553	733830	Magothy	² N746	404432	732900	Magothy
N104	404557	733828	Magothy	² N747	404432	732902	Magothy
² N105	404652	733727	Magothy	² N750	404525	733532	Magothy
² N107	404733	733524	Magothy	² N751	403934	733409	Upper glacial
² N109	404925	733817	Lloyd	² N757	403934	733411	Upper glacial
² N110	404931	733821	Lloyd	² N801	405113	733727	Upper glacial
² N112	405114	733727	Upper glacial	² N802	405113	733726	Upper glacial
² N115	405242	733516	Port Washington	² N808	405114	733727	Upper glacial
² N116	405242	733523	Upper glacial	² N819	405010	734143	Upper glacial
² N117	405240	733522	Upper glacial	² N824	405010	734143	Port Washington
N118	405243	733510	Lloyd	N835	405346	733753	Lloyd
N119	405243	733524	Lloyd	² N871	403937	733321	Upper glacial
² N131	403949	733417	Magothy	² N872	403939	733320	Upper glacial
N132	403951	733418	Magothy	² N890	403940	733315	Magothy
N133	403953	733420	Magothy	² N901	405034	734012	Upper glacial
N134	403950	733415	Magothy	² N906	405035	733912	Lloyd
² N148	404441	733207	Magothy	² N952	403940	733316	Upper glacial
² N149	404626	733112	Upper glacial	² N953	403939	733320	Upper glacial
² N150	404629	733111	Upper glacial	² N1039	403951	734306	Upper glacial
N152	404628	733418	Magothy	² N1041	403952	734314	Magothy
² N166	405148	733417	Magothy	N1298	404655	734445	Lloyd
² N192	404432	732901	Magothy	N1328	404713	734105	Lloyd
N198	404917	732929	Magothy	² N1329	404525	733533	Magothy
N199	404922	732924	Magothy	² N1344	404046	733547	Upper glacial
² N525	404410	732616	Upper glacial	N1402	403951	733616	Upper glacial
N570	404919	732931	Magothy	² N1489	403850	734241	Upper glacial
² N578	404456	733913	Magothy	² N1491	403847	734240	Upper glacial
² N580	404002	733332	Upper glacial	² N1502	403900	734245	Upper glacial
² N585	405230	733231	Upper glacial	N1595	405033	733909	Upper glacial
² N613	405148	733417	Magothy	N1601	404046	733546	Magothy
N650	404533	733936	Magothy	N1602	404029	733935	Magothy
N651	404534	733933	Magothy	N1603	404112	733935	Magothy
N687	404743	734444	Lloyd	N1618	404631	734215	Lloyd
N693	404229	734244	Upper glacial	N1651	405231	733633	Lloyd
² N698	404137	733428	Upper glacial	² N1667	404524	733532	Magothy
N700	404642	734406	Upper glacial	² N1696	404407	733538	Magothy
² N703	404736	734242	Upper glacial	N1697	404357	733837	Magothy
² N705	404410	732616	Upper glacial	N1715	404907	734111	Lloyd
² N706	404411	732616	Upper glacial	N1716	404911	734111	Lloyd
² N710	403852	734238	Jameco	N1802	404512	734210	Lloyd
² N711	403852	734237	Jameco	N1870	404811	733912	Magothy

Table 2A. Location and aquifer screened of public-supply wells in Kings, Queens, and Nassau Counties, N.Y.--continued

Well number	Latitude ° ' ''	Longitude ° ' ''	Aquifer in which well is screened	Well number	Latitude ° ' ''	Longitude ° ' ''	Aquifer in which well is screened
N1871	404811	733912	Magothy	² N3193	404338	733040	Magothy
N1872	404811	733912	Magothy	² N3194	404338	733046	Magothy
N1873	404811	733911	Magothy	² N3312	404310	733029	Magothy
N1874	404810	733911	Magothy	² N3313	404309	733026	Upper glacial
N1875	404810	733912	Magothy	² N3327	404033	734312	Magothy
N1876	404810	733912	Magothy	N3427	404050	732948	Magothy
N1877	404810	733912	Lloyd	N3443	404815	734345	Lloyd
² N1879	404642	734405	Lloyd	² N3448	403511	734150	Lloyd
² N1880	404642	734405	Magothy	N3456	404302	733325	Magothy
² N1881	404642	734406	Lloyd	N3457	404308	733320	Magothy
² N1882	404642	734405	Magothy	² N3463	404132	733114	Magothy
² N1893	404638	734413	Magothy	N3465	404305	733331	Magothy
² N1900	404642	734405	Upper glacial	² N3466	405113	733727	Upper glacial
² N1902	404637	734418	Upper glacial	N3474	404847	733440	Magothy
² N1927	403520	733819	Lloyd	N3475	404849	733445	Magothy
N1937	404409	732711	Magothy	² N3488	404445	733104	Magothy
N1958	404426	734148	Lloyd	N3520	404112	733935	Magothy
² N1971	403922	733537	Upper glacial	N3523	404814	734112	Magothy
N2028	404731	734007	Magothy	N3540	404823	734148	Upper glacial
N2030	404907	734109	Magothy	² N3552	404454	733203	Magothy
N2052	404829	733953	Magothy	² N3553	404453	733246	Magothy
² N2066	404545	732841	Magothy	² N3561	405230	733230	Upper glacial
² N2072	404634	733111	Upper glacial	² N3564	404051	732948	Upper glacial
N2115	404106	734329	Upper glacial	N3603	404248	734023	Magothy
N2214	404826	734504	Lloyd	N3604	404247	734023	Magothy
² N2236	404519	733427	Magothy	N3605	404153	734102	Magothy
N2239	404133	733839	Upper glacial	N3618	404338	733046	Magothy
N2400	404727	733804	Magothy	N3668	404153	733733	Magothy
² N2402	404400	733147	Upper glacial	N3672	404459	734021	Magothy
² N2403	404359	733141	Upper glacial	² N3673	404459	734023	Magothy
N2413	404125	734210	Magothy	N3680	404134	733114	Magothy
N2414	404124	734210	Upper glacial	N3687	403536	733943	Lloyd
² N2487	404546	733902	Magothy	N3695	404347	733612	Magothy
N2565	404434	733940	Magothy	N3696	404351	733613	Magothy
N2578	404033	734312	Upper glacial	N3697	404352	733611	Magothy
N2580	404323	733145	Upper glacial	N3698	404352	733607	Magothy
² N2581	404323	733137	Upper glacial	N3704	404132	733834	Upper glacial
N2597	403532	734034	Lloyd	N3720	404112	734041	Magothy
N2602	404518	733433	Lloyd	N3722	404048	733547	Upper glacial
N2613	403951	733615	Magothy	N3732	404644	733839	Magothy
² N2747	404446	733650	Magothy	N3733	404628	733831	Magothy
N2748	404445	733651	Magothy	N3745	404105	733747	Magothy
N2920	405257	732930	Lloyd	N3780	404228	732935	Upper glacial
² N3142	404545	732841	Magothy	N3781	404030	734145	Magothy
² N3147	404546	732841	Magothy	N3782	404030	734146	Magothy
N3185	404416	733847	Magothy	N3832	404049	733544	Magothy

¹ Latitude and longitude given for this well are at approximate center of well field.

² Well not listed in table 2B.

Table 2A. Location and aquifer screened of public-supply wells in Kings, Queens, and Nassau Counties, N.Y.--continued

Well number	Latitude	Longitude	Aquifer in which well is screened	Well number	Latitude	Longitude	Aquifer in which well is screened
N3876	404352	732911	Magothy	N4512	404100	734122	Magothy
N3878	404624	733233	Magothy	N4602	404154	732720	Magothy
N3881	404320	734025	Magothy	N4623	404722	733948	Magothy
N3892	405233	733724	Upper glacial	N4756	404206	733452	Magothy
N3893	404228	732933	Magothy	N4757	404210	733454	Magothy
N3894	404059	733417	Magothy	N4758	404209	733448	Magothy
N3895	404119	733231	Magothy	N4759	404205	733447	Magothy
N3905	404544	734151	Magothy	N4859	405010	734141	Port Washington
N3934	404402	733708	Magothy	N4860	405010	734147	Upper glacial
N3935	404400	733705	Magothy	N5007	404552	733420	Magothy
N3937	404001	734020	Magothy	N5099	404647	734235	Magothy
N3953	404628	733237	Magothy	N5121	403958	734103	Magothy
² N4042	404309	732745	Upper glacial	N5145	404034	734311	Magothy
N4043	404309	732749	Magothy	N5147	404214	732620	Magothy
² N4063	404532	732849	Magothy	N5148	404311	732747	Magothy
N4077	404323	734138	Upper glacial	N5152	405326	733514	Port Washington
N4082	404525	733732	Magothy	N5153	403942	733644	Magothy
N4095	404639	732809	Magothy	N5155	404238	734203	Upper glacial
N4096	404639	732802	Magothy	N5156	404238	734203	Magothy
N4097	404631	732939	Magothy	N5163	404400	733859	Magothy
N4118	404129	733838	Upper glacial	N5187	404041	733438	Magothy
N4132	403942	733644	Magothy	N5193	403929	733821	Magothy
² N4133	404809	733034	Magothy	N5194	403923	733922	Magothy
² N4146	404533	732848	Magothy	N5195	403923	733916	Magothy
N4206	404524	733632	Magothy	N5201	404925	733817	Lloyd
N4223	404855	734034	Upper glacial	N5209	404941	734030	Upper glacial
N4243	404541	734152	Magothy	N5227	403532	733534	Lloyd
N4245	404746	733211	Magothy	N5259	404119	733227	Magothy
² N4246	404802	733128	Magothy	N5260	404136	733837	Magothy
N4265	404755	733724	Magothy	² N5301	404427	733150	Magothy
N4298	404323	734138	Magothy	N5302	404246	733143	Magothy
N4327	404621	733923	Magothy	N5303	404252	733004	Magothy
² N4342	404011	733105	Upper glacial	² N5304	404225	733043	Magothy
² N4367	404011	733105	Upper glacial	N5308	403519	733828	Lloyd
N4388	404646	734403	Magothy	N5318	404154	733453	Magothy
N4389	405056	734109	Upper glacial	N5319	404154	733450	Magothy
N4390	404514	734121	Magothy	N5320	404155	733447	Magothy
N4393	403929	734123	Magothy	N5321	404242	733157	Magothy
² N4394	404001	734020	Magothy	N5322	404243	733202	Magothy
N4400	405154	732958	Magothy	² N5336	404441	733207	Magothy
N4405	403515	734305	Lloyd	² N5468	403955	734341	Jameco
N4411	403920	734043	Magothy	N5484	404419	733643	Magothy
N4425	404259	733715	Magothy	N5485	404423	733655	Magothy
N4447	404311	733325	Magothy	² N5486	404415	733655	Magothy
N4448	404307	733328	Magothy	N5528	404728	734005	Magothy
N4450	404323	733136	Magothy	N5596	404454	733726	Magothy
N4451	404429	733055	Magothy	N5603	404517	734023	Magothy
N4461	404051	732948	Magothy	N5653	404108	733716	Magothy

Table 2A. Location and aquifer screened of public-supply wells in Kings, Queens, and Nassau Counties, N.Y.--continued

Well number	Latitude ° ' ''	Longitude ° ' ''	Aquifer in which well is screened	Well number	Latitude ° ' ''	Longitude ° ' ''	Aquifer in which well is screened
² N5654	404451	733526	Magothy	N6915	404401	732831	Magothy
N5655	404541	733335	Magothy	N6916	404358	732831	Magothy
N5656	403948	733928	Magothy	N6945	404547	734011	Magothy
N5695	403922	733543	Magothy	N6956	404556	732705	Magothy
N5696	403945	733415	Magothy	N7030	404635	733311	Magothy
N5703	404156	732620	Magothy	N7058	404318	734011	Magothy
N5710	404559	734155	Magothy	N7076	404339	733040	Magothy
N5762	405129	733615	Magothy	N7104	404832	733722	Magothy
N5767	404054	732948	Magothy	N7117	404214	734059	Magothy
N5792	405014	733736	Upper glacial	N7126	404652	734007	Magothy
² N5801	404032	732800	Magothy	N7157	405058	734111	Upper glacial
² N5807	404032	732800	Upper glacial	N7298	404303	733714	Magothy
² N5848	404057	732603	Magothy	N7353	404552	733416	Magothy
N5852	404808	733746	Magothy	N7377	404313	732750	Magothy
N5876	404858	734115	Upper glacial	N7407	404002	733332	Magothy
N5884	404756	734258	Magothy	N7414	404054	732613	Magothy
N5947	404646	733908	Magothy	N7421	404554	732706	Magothy
N6045	404432	733656	Magothy	N7445	404514	734121	Magothy
N6076	404650	732911	Magothy	N7446	404848	733443	Magothy
N6077	404649	732910	Magothy	N7482	404109	734329	Magothy
N6078	404535	732848	Magothy	N7512	404536	734103	Magothy
N6087	405010	734143	Upper glacial	N7513	404652	733727	Magothy
N6092	404912	732751	Magothy	N7515	404337	732707	Magothy
N6093	404908	732751	Magothy	N7516	404337	732705	Magothy
N6146	404005	733916	Magothy	N7521	403948	733927	Magothy
N6148	404216	732733	Magothy	N7522	404005	733916	Magothy
N6149	404215	732622	Magothy	N7523	404309	733026	Magothy
N6150	404245	732903	Magothy	N7526	404703	732801	Magothy
N6190	404707	733053	Magothy	N7548	404010	734252	Magothy
N6191	404707	733049	Magothy	N7549	404738	733531	Magothy
N6192	404517	733102	Magothy	N7551	404656	733946	Magothy
² N6193	404517	733105	Magothy	N7552	404649	733944	Magothy
N6315	404526	733626	Magothy	N7561	404453	733246	Magothy
N6442	404123	732852	Magothy	N7562	404634	733111	Magothy
N6443	404123	732852	Magothy	N7593	405045	732830	Magothy
N6450	403532	734010	Lloyd	N7620	405424	733400	Lloyd
N6580	404630	732938	Magothy	N7643	405424	733400	Upper glacial
N6644	404408	732713	Magothy	N7649	404344	734121	Magothy
N6651	404754	733157	Magothy	N7650	404344	734121	Magothy
N6744	404238	734205	Upper glacial	N7651	404611	734010	Magothy
N6745	404239	734202	Magothy	N7665	405203	733500	Upper glacial
N6817	403929	733817	Magothy	N7720	404237	733952	Magothy
N6819	404537	733335	Magothy	N7747	404736	734242	Upper glacial
N6866	404039	732835	Magothy	N7748	404735	734242	Upper glacial
N6867	404039	732835	Magothy	N7749	404735	734242	Upper glacial
N6893	404049	733544	Magothy	N7750	404734	734242	Upper glacial

¹ Latitude and longitude given for this well are at approximate center of well field.

² Well not listed in table 2B.

Table 2A. Location and aquifer screened of public-supply wells in Kings, Queens, and Nassau Counties, N.Y.--continued

Well number	Latitude	Longitude	Aquifer in which well is screened	Well number	Latitude	Longitude	Aquifer in which well is screened
N7751	404734	734242	Upper glacial	N8250	404108	733716	Magothy
N7752	404736	734240	Upper glacial	N8251	403958	734103	Magothy
N7753	404736	734239	Upper glacial	N8253	404003	733334	Magothy
N7754	404737	734238	Upper glacial	N8264	404150	733732	Magothy
N7755	404734	734239	Upper glacial	N8279	404309	733026	Magothy
N7756	404735	734238	Upper glacial	N8313	405108	734304	Upper glacial
N7757	404734	734239	Upper glacial	N8321	404400	733147	Magothy
N7758	404734	734238	Upper glacial	N8326	405116	733729	Upper glacial
N7772	405012	733102	Magothy	² N8327	405113	733726	Upper glacial
N7773	405010	733059	Magothy	N8339	404318	734011	Magothy
N7776	403537	733940	Lloyd	N8342	404642	734405	Lloyd
N7781	404751	733220	Magothy	N8354	403521	733659	Lloyd
N7785	404526	733534	Magothy	N8355	404829	733159	Magothy
N7796	403949	733417	Magothy	N8409	404420	733939	Magothy
N7797	404308	733321	Magothy	N8420	404030	734146	Magothy
² N7804	403938	734232	Upper glacial	N8457	404457	733607	Magothy
N7831	404022	733713	Magothy	N8474	404325	733630	Magothy
N7852	404410	732616	Magothy	N8475	404325	733630	Magothy
N7855	404040	734036	Magothy	N8480	404228	732933	Magothy
N7857	405100	733842	Lloyd	N8497	404519	733429	Magothy
N7873	404811	733633	Magothy	N8525	404445	733104	Magothy
N7892	404651	734009	Magothy	N8526	404454	733203	Magothy
N7957	404420	733531	Magothy	N8557	403536	733948	Lloyd
N7961	404736	734242	Upper glacial	N8558	404631	733832	Magothy
² N7962	404735	734236	Upper glacial	N8576	404453	733834	Magothy
N7963	404734	734237	Upper glacial	N8595	404554	732703	Magothy
N7964	404732	734237	Upper glacial	N8603	404051	732603	Magothy
N7965	404733	734243	Upper glacial	N8657	403925	733547	Magothy
N7966	404733	734240	Upper glacial	N8658	404819	733433	Magothy
² N7968	404731	734236	Upper glacial	N8664	404217	732904	Magothy
² N7971	404729	734236	Upper glacial	N8665	404217	732901	Magothy
N8004	404344	732840	Magothy	² N8672	404133	733114	Magothy
N8007	404543	733549	Magothy	N8713	404920	733733	Magothy
N8010	404739	733921	Magothy	N8767	404532	732849	Magothy
N8011	403533	734013	Lloyd	N8768	404533	732848	Magothy
N8031	404046	733058	Magothy	N8776	405423	733353	Lloyd
N8043	404754	732831	Magothy	N8778	404540	733043	Magothy
N8054	404557	732705	Magothy	N8779	404539	733042	Magothy
N8183	405146	733134	Upper glacial	N8818	404213	734100	Magothy
N8195	404233	734106	Magothy	N8837	404050	732948	Magothy
N8196	403952	733616	Magothy	N8941	404353	732910	Magothy
N8214	404156	732620	Magothy	N8956	404508	733336	Magothy
N8216	404000	733710	Magothy	N8957	404507	733337	Magothy
N8217	404004	733710	Magothy	N8976	404119	733231	Magothy
N8218	404104	733743	Magothy	N8979	404233	734106	Magothy
N8233	403519	733820	Lloyd	² N9066	405204	733634	Magothy
N8248	404525	733825	Magothy	N9151	404224	734238	Magothy
N8249	404632	733111	Magothy	² N9171	404446	733813	Upper glacial

Table 2A. Location and aquifer screened of public-supply wells in Kings, Queens, and Nassau Counties, N.Y.--continued

Well number	Latitude ° ' ''	Longitude ° ' ''	Aquifer in which well is screened	Well number	Latitude ° ' ''	Longitude ° ' ''	Aquifer in which well is screened
N9173	404154	732620	Magothy	N9878	404117	733230	Magothy
N9180	404517	733102	Magothy	N9910	404052	732948	Magothy
N9210	405202	733633	Magothy	N9976	404059	733417	Magothy
N9211	405205	733634	Magothy	N10033	404259	733806	Magothy
N9212	404453	733246	Magothy	² N10034	404258	733806	Magothy
² N9277	404256	733715	Upper glacial	² N10103	404023	733713	Magothy
² N9285	404002	733332	Upper glacial	N10144	405421	733239	Lloyd
² N9289	403930	733828	Upper glacial	² N10149	405018	732845	Magothy
² N9300	405203	733227	Upper glacial	² N10195	404130	733114	Magothy
N9308	404735	734240	Lloyd	² N10206	404214	734241	Magothy
² N9323	405010	734149	Upper glacial	² N10207	404224	734240	Magothy
² N9330	405010	734148	Port Washington	² N10208	404537	733046	Magothy
N9334	405128	733705	Lloyd	² N10211	404125	734209	Magothy
N9338	404228	732935	Magothy	² N10286	404031	734144	Magothy
N9446	405127	734210	Port Washington	² N10401	404140	733841	Magothy
N9452	404137	733834	Magothy	² N10408	404140	733841	Magothy
N9463	404601	733150	Magothy	² N10451	404548	733609	Magothy
N9488	404628	733112	Magothy	² N10555	404609	733010	Magothy
N9514	404131	733114	Magothy	² N10557	404632	734017	Magothy
N9520	405144	733135	Port Washington	² N10612	404539	734014	Magothy
N9521	404411	733610	Magothy	² N10863	404056	732611	Magothy
N9591	404524	732826	Magothy	² N10889	404635	734011	Magothy
N9613	404033	734312	Magothy	² N11004	404408	732710	Magothy
N9768	404547	734011	Magothy	² N11037	404220	734244	Magothy
N9792	403932	733827	Magothy	² N11076	404908	733158	Magothy
N9809	404838	734042	Upper glacial	² N11295	404912	733156	--
N9846	404412	733510	Magothy	² N11647	404125	734210	Magothy

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984
[Pumpage in thousands of gallons]

Well number	Year	Pumpage	Remarks ¹	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
K500	1898	657,000	M	K500.2	1925	3,089,736	M	K501	1940	71,789	
K500	1899	803,000	M	K500.2	1926	3,217,973	M	K501	1941	71,835	
K500	1900	915,000	M	K500.2	1927	3,186,420	M	K501	1942	101,910	
K500	1901	1,022,000	M	K500.2	1928	3,163,401	M	K501	1943	101,800	
K500	1902	1,168,000	M	K500.2	1929	3,071,825	M	K501	1944	137,770	
K500	1903	1,314,000	M	K500.2	1930	1,644,568	M	K501	1945	120,950	
K500	1904	1,610,000	M	K500.2	1931	574,126	M	K501	1946	115,975	
K500	1905	1,898,000	M	K500.2	1932	636,128	M	K501	1947	48,610	
K500	1906	2,920,000	M	K500.2	1933	851,386	M	K503	1922	154,140	
K500	1907	3,175,500	M	K500.2	1934	895,670	M	K503	1923	227,480	
K500	1908	1,482,412	M	K500.2	1935	1,021,029	M	K503	1924	214,544	
K500	1909	2,213,241	M	K500.2	1936	705,864	M	K503	1925	211,526	
K500	1910	2,418,244	M	K500.2	1937	508,231	M	K503	1926	206,893	
K500	1911	2,429,153	M	K500.2	1938	455,593	M	K503	1927	185,400	
K500	1912	2,475,731	M	K500.2	1939	614,794	M	K503	1928	267,788	
K500	1913	2,256,445	M	K500.2	1940	587,899	M	K503	1929	354,151	
K500	1914	2,245,518	M	K500.2	1941	635,406	M	K503	1930	367,496	
K500	1915	3,946,434	M	K500.2	1942	539,935	M	K503	1931	370,130	
K500	1916	2,254,900	M	K500.2	1943	414,000	M	K503	1932	368,154	
K500	1917	2,064,262	M	K500.2	1944	325,950	M	K503	1933	179,508	
K500	1918	2,654,186	M	K500.2	1945	231,227	M	K503	1934	116,042	
K500	1919	2,597,257	M	K500.2	1946	407,286	M	K503	1935	91,828	
K500	1920	2,686,610	M	K500.2	1947	278,950	M	K503	1936	118,629	
K500	1921	2,534,991	M	K501	1921	169,863		K503	1937	167,592	
K500	1922	2,567,741	M	K501	1922	287,337		K503	1938	258,864	
K500	1923	2,600,154	M	K501	1923	320,219		K503	1939	203,102	
K500	1924	1,577,641	M	K501	1924	298,392		K503	1940	56,873	
K500	1925	1,719,273	M	K501	1925	291,668		K503	1943	71,900	
K500	1926	1,529,740	M	K501	1926	284,600		K503	1944	224,274	
K500	1927	1,681,288	M	K501	1927	275,300		K503	1945	157,631	
K500	1928	1,255,477	M	K501	1928	285,500		K503	1946	121,480	
K500	1929	1,206,583	M	K501	1929	348,381		K503	1947	53,800	
K500	1930	654,153	M	K501	1930	390,397		K504	1932	16,557	
K500.2	1916	2,765,993	M	K501	1931	261,383		K504	1933	88,182	
K500.2	1917	2,566,502	M	K501	1932	121,966		K504	1934	68,139	
K500.2	1918	2,157,787	M	K501	1933	149,665		K504	1935	108,499	
K500.2	1919	2,155,068	M	K501	1934	281,058		K504	1936	104,102	
K500.2	1920	2,192,359	M	K501	1935	182,014		K504	1937	117,481	
K500.2	1921	2,419,689	M	K501	1936	65,554		K504	1938	135,445	
K500.2	1922	2,500,970	M	K501	1937	80,150		K504	1939	161,032	
K500.2	1923	2,446,332	M	K501	1938	97,077		K504	1940	209,590	
K500.2	1924	3,391,539	M	K501	1939	73,601		K504	1941	210,755	

¹ X, missing monthly data from annual total
E, estimated
M, multiple wells

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
K504	1942	211,582		K507	1935	276,687		K510	1932	475,001	
K504	1943	266,000		K507	1936	379,910		K510	1933	514,490	
K504	1944	239,413		K507	1937	321,046		K510	1934	519,305	
K504	1945	220,752		K507	1938	378,876		K510	1935	469,446	
K504	1946	355,707		K507	1939	430,170		K510	1936	512,864	
K504	1947	265,637		K507	1940	421,240		K510	1937	525,286	
K505	1944	1,090,700		K507	1941	396,160		K510	1938	536,210	
K505	1945	1,038,526		K507	1942	382,265		K510	1939	549,495	
K505	1946	1,237,406		K507	1943	383,000		K510	1940	478,000	
K505	1947	678,523		K507	1944	313,470		K510	1941	451,150	
K506	1923	141,534		K507	1945	303,035		K510	1942	366,055	
K506	1924	315,089		K507	1946	300,365		K510	1943	265,000	
K506	1925	301,739		K507	1947	173,310		K510	1944	257,230	
K506	1926	299,870		K508	1924	252,056		K510	1945	270,500	
K506	1927	290,921		K508	1925	320,594		K510	1946	302,250	
K506	1928	365,900		K508	1926	323,900		K510	1947	110,960	
K506	1929	356,939		K508	1927	314,200		K512	1925	185,372	
K506	1930	316,961		K508	1928	344,500		K512	1926	358,928	
K506	1931	255,723		K508	1929	421,173		K512	1927	365,200	
K506	1932	185,139		K508	1930	470,223		K512	1928	377,760	
K506	1933	296,322		K508	1931	417,248		K512	1929	424,279	
K506	1934	389,276		K508	1932	362,585		K512	1930	488,887	
K506	1935	456,337		K508	1933	440,989		K512	1931	409,196	
K506	1936	459,138		K508	1934	482,543		K512	1932	460,615	
K506	1937	503,103		K508	1935	436,906		K512	1933	435,606	
K506	1938	478,825		K508	1936	583,688		K512	1934	469,914	
K506	1939	509,104		K508	1937	586,242		K512	1935	479,286	
K506	1940	457,204		K508	1938	596,532		K512	1936	454,426	
K506	1941	375,225		K508	1939	625,610		K512	1937	452,289	
K506	1942	346,080		K508	1940	618,710		K512	1938	462,600	
K506	1943	342,000		K508	1941	626,830		K512	1939	460,480	
K506	1944	334,390		K508	1942	551,104		K512	1940	496,725	
K506	1945	327,085		K508	1943	416,000		K512	1941	324,028	
K506	1946	327,800		K508	1944	315,325		K512	1942	190,552	
K506	1947	152,980		K508	1945	178,390		K512	1943	189,000	
K507	1925	198,171		K508	1946	212,210		K512	1944	182,357	
K507	1926	250,040		K508	1947	72,030		K512	1945	168,540	
K507	1927	98,740		K510	1924	125,700		K512	1946	211,480	
K507	1928	263,600		K510	1925	356,620		K512	1947	89,780	
K507	1929	197,580		K510	1926	337,960		K513	1925	32,447	
K507	1930	163,415		K510	1927	345,955		K513	1926	247,457	
K507	1931	153,790		K510	1928	320,500		K513	1927	343,500	
K507	1932	124,393		K510	1929	404,087		K513	1928	245,140	
K507	1933	136,251		K510	1930	510,078		K513	1929	291,602	
K507	1934	294,018		K510	1931	483,152		K513	1930	364,768	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
K513	1931	306,152		K516	1932	127,003		K519	1937	411,987	
K513	1932	258,433		K516	1933	201,941		K519	1938	358,262	
K513	1933	87,530		K516	1934	331,237		K519	1939	237,299	
K513	1934	122,523		K516	1935	329,771		K519	1940	214,964	
K513	1935	110,217		K516	1936	426,593		K519	1941	223,680	
K513	1936	56,928		K516	1937	485,145		K519	1942	201,750	
K513	1937	55,919		K516	1938	497,196		K519	1943	211,000	
K513	1938	60,141		K516	1939	492,210		K519	1944	198,025	
K513	1939	60,942		K516	1940	489,995		K519	1945	258,865	
K513	1940	64,994		K516	1941	488,095		K519	1946	372,530	
K513	1941	71,163		K516	1942	453,580		K519	1947	167,060	
K513	1942	56,268		K516	1943	456,000		K520	1929	139,164	
K513	1943	104,000		K516	1944	414,090		K520	1930	743,824	
K513	1944	104,510		K516	1945	381,285		K520	1931	561,029	
K513	1945	117,649		K516	1946	374,315		K520	1932	912,617	
K513	1946	150,351		K516	1947	195,120		K520	1933	855,376	
K513	1947	61,510		K517	1927	271,386		K520	1934	770,069	
K514	1926	169,800		K517	1928	303,167		K520	1935	847,902	
K514	1927	253,200		K517	1929	365,061		K520	1936	854,471	
K514	1928	331,900		K517	1930	349,642		K520	1937	847,329	
K514	1929	315,825		K517	1931	283,368		K520	1938	855,013	
K514	1930	333,057		K517	1932	210,132		K520	1939	833,010	
K514	1931	221,200		K517	1933	397,532		K520	1940	819,400	
K514	1932	95,528		K517	1934	397,803		K520	1941	796,420	
K514	1933	63,962		K517	1935	369,113		K520	1942	769,230	
K514	1934	73,173		K517	1936	397,239		K520	1943	623,000	
K514	1935	3,936		K517	1937	398,241		K520	1944	495,700	
K514	1936	52,988		K517	1938	395,569		K520	1945	247,875	
K514	1937	58,211		K517	1939	386,815		K520	1946	5,030	
K514	1938	49,924		K517	1940	475,505		K521	1929	190,936	
K514	1939	93,181		K517	1941	497,276		K521	1930	932,728	
K514	1940	94,494		K517	1942	481,950		K521	1931	1,104,541	
K514	1941	134,475		K517	1943	473,000		K521	1932	567,014	
K514	1942	122,030		K517	1944	460,270		K521	1933	300,791	
K514	1943	135,000		K517	1945	449,570		K521	1934	213,635	
K514	1944	91,380		K517	1946	451,150		K521	1935	118,349	
K514	1945	120,540		K517	1947	213,440		K521	1936	118,729	
K514	1946	185,650		K519	1929	482,666		K521	1937	138,218	
K514	1947	53,895		K519	1930	679,322		K521	1938	178,173	
K516	1926	103,625		K519	1931	656,455		K521	1939	279,681	
K516	1927	350,320		K519	1932	424,230		K521	1940	197,043	
K516	1928	394,300		K519	1933	758,579		K521	1941	205,005	
K516	1929	353,071		K519	1934	643,857		K521	1942	52,330	
K516	1930	218,593		K519	1935	583,034		K521	1943	101,000	
K516	1931	342,602		K519	1936	434,999		K521	1944	86,610	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
K521	1945	57,165		K525	1932	345,485		K528	1941	810,835	
K521	1946	10,520		K525	1933	82,322		K528	1942	744,400	
K522	1930	319,077		K525	1934	36,630		K528	1943	376,000	
K522	1931	991,447		K525	1935	13,423		K528	1944	8,500	
K522	1932	1,051,775		K525	1936	144,839		K529	1934	39,461	
K522	1933	864,647		K525	1937	118,619		K529	1935	245,681	
K522	1934	879,083		K525	1938	2,470		K529	1936	278,083	
K522	1935	849,974		K526	1931	139,041		K529	1937	283,405	
K522	1936	905,241		K526	1932	1,107,477		K529	1938	294,060	
K522	1937	933,551		K526	1933	1,040,654		K529	1939	303,585	
K522	1938	926,058		K526	1934	826,462		K529	1940	212,390	
K522	1939	727,485		K526	1935	544,867		K529	1941	238,260	
K522	1940	534,475		K526	1936	544,748		K529	1942	178,805	
K522	1941	487,070		K526	1937	155,642		K529	1943	139,000	
K522	1942	424,530		K526	1938	65,886		K530	1935	515,882	
K522	1943	323,000		K526	1939	295,439		K530	1936	741,726	
K522	1944	338,450		K526	1940	392,726		K530	1937	731,704	
K522	1945	330,410		K526	1941	351,895		K530	1938	452,787	
K522	1946	367,530		K526	1942	375,382		K530	1939	228,932	
K522	1947	176,080		K526	1943	373,230	E	K530	1940	119,759	
K523	1930	305,939		K526	1944	382,239		K530	1941	108,640	
K523	1931	554,960		K526	1945	361,340	E	K530	1942	113,170	
K523	1932	501,039		K526	1946	319,582	E	K530	1943	163,000	
K523	1933	764,097		K526	1947	258,989	E	K530	1944	149,210	
K523	1934	233,236		K527	1934	68,742		K530	1945	114,426	
K523	1935	5,698		K527	1935	185,797		K530	1946	109,374	
K523	1936	93,102		K527	1936	232,291		K530	1947	28,750	
K524	1931	507,594		K527	1937	292,689		K531	1937	708,206	
K524	1932	837,256		K527	1938	291,592		K531	1938	915,383	
K524	1933	679,843		K527	1939	311,805		K531	1939	819,945	
K524	1934	524,278		K527	1940	281,320		K531	1940	712,824	
K524	1935	548,275		K527	1941	288,755		K531	1941	737,097	
K524	1936	528,181		K527	1942	315,785		K531	1942	750,778	
K524	1937	464,682		K527	1943	316,000		K531	1943	757,770	E
K524	1938	504,252		K527	1944	324,130		K531	1944	774,701	
K524	1939	402,180		K527	1945	295,670		K531	1945	733,630	E
K524	1940	392,635		K527	1946	290,490		K531	1946	648,848	E
K524	1941	392,375		K527	1947	144,810		K531	1947	127,561	E
K524	1942	571,220		K528	1934	243,288		K1232	1941	126,273	E
K524	1943	546,000		K528	1935	763,106		K1232	1942	252,818	E
K524	1944	455,520		K528	1936	844,176		K1232	1943	246,666	E
K524	1945	360,525		K528	1937	856,432		K1232	1944	253,920	E
K524	1946	267,180		K528	1938	855,126		K1232	1945	253,730	E
K524	1947	136,310		K528	1939	778,750		K1232	1946	240,343	E
K525	1931	297,471		K528	1940	851,345		K1232	1947	117,556	E

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
K1233	1941	126,273	E	K1359	1946	296,500		Q301	1924	291,277	
K1233	1942	252,818	E	K1359	1947	146,510		Q301	1925	240,178	
K1233	1943	246,666	E	K1360	1944	233,440		Q301	1926	237,322	
K1233	1944	253,920	E	K1360	1945	483,610		Q301	1927	240,389	
K1233	1945	253,730	E	K1360	1946	494,340		Q301	1928	220,916	
K1233	1946	240,343	E	K1360	1947	276,130		Q301	1929	197,018	
K1233	1947	117,556	E	K1363	1945	166,640		Q301	1930	150,421	
K1234	1941	126,274	E	K1363	1946	259,540		Q301	1931	111,789	
K1234	1942	252,819	E	K1363	1947	125,880		Q301	1932	125,857	
K1234	1943	246,668	E	K1516	1946	69,670		Q301	1933	135,430	
K1234	1944	253,920	E	K1516	1947	120,440		Q301	1934	66,940	
K1234	1945	253,730	E	Q68	1940	143,036		Q301	1935	123,630	
K1234	1946	240,344	E	Q68	1941	142,111		Q301	1936	138,491	
K1234	1947	117,558	E	Q68	1942	142,800		Q301	1937	132,453	
K1329	1942	27,260		Q68	1943	144,000		Q301	1938	59,894	
K1329	1943	309,000		Q68	1944	317,450		Q301	1939	22,507	
K1329	1944	289,280		Q68	1945	534,735		Q301	1940	108,366	
K1329	1945	285,350		Q68	1946	531,594		Q301	1941	59,397	
K1329	1946	276,390		Q68	1947	514,561		Q301	1942	8,333	
K1329	1947	130,290		Q68	1948	471,652		Q301	1943	26,028	
K1331	1943	261,070		Q68	1949	233,314		Q301	1944	24,134	
K1331	1944	287,620		Q68	1950	209,875		Q301	1974	6,400	
K1331	1945	286,880		Q68	1951	206,225		Q301	1975	3,900	
K1331	1946	272,940		Q68	1952	256,960		Q301	1976	17,000	
K1331	1947	125,975		Q68	1953	198,380		Q301	1977	21,400	
K1338	1943	241,000		Q68	1954	192,946		Q301	1978	28,700	
K1338	1944	303,197		Q68	1955	123,510		Q301	1979	39,900	
K1338	1945	297,505		Q68	1956	38,412		Q301	1980	30,600	
K1338	1946	298,730		Q68	1957	10,016		Q301	1981	50,700	
K1338	1947	144,030		Q68	1958	4,050		Q301	1982	58,900	
K1343	1943	157,000		Q68	1959	9,810		Q301	1983	62,600	
K1343	1944	294,280		Q68	1960	4,270		Q301	1984	33,300	
K1343	1945	285,035		Q68	1961	2,028		Q302	1921	12,000	E
K1343	1946	280,040		Q68	1962	14,220		Q302	1922	24,000	E
K1343	1947	134,320		Q68	1963	16,905		Q302	1923	21,000	E
K1351	1944	153,761		Q68	1964	18,090		Q302	1924	20,080	
K1351	1945	155,421		Q68	1965	1,430		Q302	1925	9,665	
K1351	1946	147,189		Q68	1966	24,376		Q302	1926	5,163	
K1351	1947	86,260		Q68	1967	10,260		Q302	1927	20,272	
K1357	1944	467,415		Q68	1968	11,550		Q302	1928	35,556	
K1357	1945	686,111		Q68	1969	6,760		Q302	1929	39,636	
K1357	1946	693,171		Q68	1970	6,760		Q302	1930	20,382	
K1357	1947	336,450		Q68	1971	18,778		Q302	1931	8,320	
K1359	1944	145,540		Q68	1972	984		Q302	1932	16,127	
K1359	1945	296,375		Q301	1923	316,790		Q302	1933	17,261	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q302	1934	8,120		Q304	1926	137,675		Q305	1939	94,899	
Q302	1935	7,235		Q304	1927	180,000		Q305	1940	83,131	
Q302	1936	4,990		Q304	1928	150,000		Q305	1941	96,477	
Q302	1937	1,737		Q304	1929	86,661		Q305	1942	30,990	
Q302	1938	63		Q304	1930	17,940		Q305	1943	47,680	
Q302	1939	4,577		Q304	1931	42,757		Q305	1944	102,656	
Q302	1941	13,096		Q304	1932	43,083		Q305	1976	7,060	
Q302	1943	9,637		Q304	1933	41,428		Q306	1908	49,500	M
Q302	1944	39,010		Q304	1934	42,809		Q306	1910	30,545	M
Q303	1922	56,590		Q304	1935	18,118		Q306	1911	51,939	M
Q303	1923	238,580		Q304	1936	16,325		Q306	1913	238,952	M
Q303	1924	359,796		Q304	1937	15,819		Q306	1914	341,958	M
Q303	1925	370,349		Q304	1938	10,593		Q306	1915	468,291	M
Q303	1926	247,592		Q304	1939	10,188		Q306	1916	519,800	X,M
Q303	1927	213,894		Q304	1940	20,286		Q306	1917	302,000	M
Q303	1928	164,380		Q304	1941	19,436		Q306	1918	456,610	M
Q303	1929	160,175		Q304	1942	10,167		Q306	1919	476,400	M
Q303	1930	211,130		Q304	1943	11,924		Q306	1920	484,570	M
Q303	1931	282,050		Q304	1944	213,860		Q306	1921	351,140	M
Q303	1932	335,505		Q304	1974	55,930		Q306	1922	465,320	M
Q303	1933	269,024		Q304	1975	75,310		Q306	1923	541,160	M
Q303	1934	317,666		Q304	1976	32,790		Q306	1924	679,980	M
Q303	1935	389,610		Q304	1977	50,670		Q306	1925	594,600	M
Q303	1936	382,700		Q304	1978	40,500		Q306	1926	884,740	X,M
Q303	1937	334,305		Q304	1979	61,740		Q306	1927	1,061,420	M
Q303	1938	146,883		Q304	1980	67,930		Q306	1928	623,780	M
Q303	1939	194,238		Q304	1981	81,870		Q306	1929	1,039,200	M
Q303	1940	122,421		Q304	1982	148,650		Q306	1930	1,229,850	M
Q303	1941	158,685		Q304	1983	61,770		Q306	1931	1,043,610	M
Q303	1942	83,840		Q304	1984	34,670		Q306	1932	852,140	M
Q303	1943	70,896		Q305	1924	117,726		Q306	1933	902,550	M
Q303	1944	214,547		Q305	1925	428,860		Q306	1934	540,430	M
Q303	1974	112,400		Q305	1926	391,957		Q306	1935	94,659	E
Q303	1975	76,000		Q305	1927	197,695		Q306	1936	272,220	E
Q303	1976	74,980		Q305	1928	349,252		Q306	1937	262,617	E
Q303	1977	196,720		Q305	1929	253,349		Q306	1938	261,835	E
Q303	1978	193,400		Q305	1930	311,652		Q306	1939	281,257	E
Q303	1979	195,500		Q305	1931	307,420		Q306	1940	283,912	E
Q303	1980	156,300		Q305	1932	283,512		Q306	1941	285,985	E
Q303	1981	218,000		Q305	1933	151,464		Q306	1942	272,025	E
Q303	1982	211,900		Q305	1934	100,230		Q306	1943	293,975	E
Q303	1983	82,800		Q305	1935	239,930		Q306	1944	289,530	E
Q303	1984	113,100		Q305	1936	192,765		Q307	1924	145,887	
Q304	1924	181,734		Q305	1937	98,333		Q307	1925	304,266	
Q304	1925	184,982		Q305	1938	53,588		Q307	1926	211,086	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q307	1927	275,066		Q308	1942	44,389		Q311	1926	229,515	
Q307	1928	361,478		Q308	1943	175,115		Q311	1927	305,006	
Q307	1929	487,035		Q308	1944	338,300		Q311	1928	374,060	
Q307	1930	301,712		Q308	1974	85,400		Q311	1929	315,328	
Q307	1931	233,128		Q308	1975	110,000		Q311	1930	172,955	
Q307	1932	361,712		Q308	1976	142,700		Q311	1931	114,691	
Q307	1933	350,705		Q308	1977	101,600		Q311	1932	87,475	
Q307	1934	311,666		Q308	1978	170,500		Q311	1933	284,216	
Q307	1935	298,803		Q308	1979	162,000		Q311	1934	249,739	
Q307	1936	300,257		Q308	1980	77,200		Q311	1935	269,668	
Q307	1937	295,883		Q308	1981	113,100		Q311	1936	72,444	
Q307	1938	303,205		Q308	1982	77,600		Q311	1937	161,701	
Q307	1939	483,067		Q308	1983	1,100		Q311	1938	59,825	
Q307	1940	433,425		Q310	1925	160,239		Q311	1939	22,108	
Q307	1941	361,537		Q310	1926	174,596		Q311	1941	118,480	
Q307	1942	402,118		Q310	1927	138,994		Q311	1942	324,511	
Q307	1943	424,795		Q310	1928	124,354		Q311	1943	219,740	
Q307	1944	392,620		Q310	1929	131,127		Q311	1944	385,515	
Q307	1974	34,950		Q310	1930	203,122		Q311	1974	439,600	
Q307	1975	35,050		Q310	1931	100,952		Q311	1975	474,300	
Q307	1976	59,300		Q310	1932	119,586		Q311	1976	475,200	
Q307	1977	45,100		Q310	1933	127,530		Q311	1977	474,500	
Q307	1978	17,850		Q310	1934	22,298		Q311	1978	474,400	
Q307	1980	25,650		Q310	1935	27,618		Q311	1979	433,100	
Q307	1981	21,000		Q310	1936	55,191		Q311	1980	310,400	
Q307	1982	26,400		Q310	1937	20,682		Q311	1981	473,000	
Q307	1983	18,600		Q310	1938	75,091		Q311	1982	467,700	
Q308	1924	335,739		Q310	1939	268,633		Q311	1983	392,200	
Q308	1925	400,831		Q310	1940	374,517		Q311	1984	115,300	
Q308	1926	418,198		Q310	1941	405,077		Q312	1926	53,988	
Q308	1927	411,458		Q310	1942	231,097		Q312	1927	97,992	
Q308	1928	400,000		Q310	1943	279,166		Q312	1928	157,812	
Q308	1929	399,313		Q310	1944	306,730		Q312	1929	177,383	
Q308	1930	484,415		Q310	1974	19,550		Q312	1930	225,223	
Q308	1931	294,315		Q310	1975	15,100		Q312	1931	188,472	
Q308	1932	418,011		Q310	1976	29,600		Q312	1932	67,788	
Q308	1933	320,481		Q310	1977	32,700		Q312	1933	19,548	
Q308	1934	403,870		Q310	1978	37,200		Q312	1934	11,342	
Q308	1935	363,283		Q310	1979	24,000		Q312	1935	9,379	
Q308	1936	367,295		Q310	1980	3,500		Q312	1936	11,623	
Q308	1937	295,922		Q310	1981	118,100		Q312	1937	12,900	
Q308	1938	119,731		Q310	1982	172,200		Q312	1938	1,873	
Q308	1939	404,667		Q310	1983	272,400		Q312	1939	44,814	
Q308	1940	178,065		Q310	1984	64,500		Q312	1940	14,603	
Q308	1941	91,331		Q311	1925	230,700		Q312	1941	53,415	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q312	1942	23,206		Q314	1941	267,675		Q318	1933	403,022	
Q312	1943	74,002		Q314	1942	139,705		Q318	1934	341,983	
Q312	1944	77,935		Q314	1943	284,372		Q318	1935	294,027	
Q313	1925	393		Q314	1944	204,028		Q318	1936	223,293	
Q313	1926	369,735		Q314	1974	300,200		Q318	1937	251,438	
Q313	1927	263,586		Q314	1975	472,400		Q318	1938	264,985	
Q313	1928	291,742		Q314	1976	436,700		Q318	1939	261,660	
Q313	1929	264,028		Q314	1977	310,800		Q318	1940	212,605	
Q313	1930	432,535		Q314	1978	369,300		Q318	1941	236,830	
Q313	1931	534,852		Q314	1979	400,800		Q318	1942	197,945	
Q313	1932	503,039		Q314	1980	260,300		Q318	1943	174,315	
Q313	1933	504,271		Q314	1981	251,800		Q318	1944	168,010	
Q313	1934	391,477		Q314	1982	214,300		Q319	1930	66,193	
Q313	1935	477,000		Q314	1983	476,400		Q319	1931	121,573	
Q313	1936	499,819		Q314	1984	731,400		Q319	1932	125,450	
Q313	1937	451,335		Q317	1929	208,660		Q319	1933	209,789	
Q313	1938	322,222		Q317	1930	291,690		Q319	1934	254,143	
Q313	1939	479,500		Q317	1931	332,220		Q319	1935	254,331	
Q313	1940	399,635		Q317	1932	396,036		Q319	1936	256,264	
Q313	1941	332,085		Q317	1933	446,249		Q319	1937	99,823	
Q313	1942	249,485		Q317	1934	434,328		Q319	1938	21,450	
Q313	1943	324,710		Q317	1935	418,741		Q319	1939	72,429	
Q313	1944	278,065		Q317	1936	392,788		Q319	1940	66,646	
Q313	1974	26,450		Q317	1937	354,283		Q319	1941	39,095	
Q313	1975	17,060		Q317	1938	513,039		Q319	1942	66,447	
Q313	1976	17,090		Q317	1939	471,924		Q319	1943	26,330	
Q313	1977	22,370		Q317	1940	459,150		Q319	1944	36,875	
Q313	1980	23,230		Q317	1941	394,100		Q319	1975	4,300	
Q313	1983	40,700		Q317	1942	412,550		Q319	1976	17,000	
Q313	1984	24,800		Q317	1943	382,200		Q319	1977	40,200	
Q314	1926	43,314		Q317	1944	402,280		Q319	1978	32,840	
Q314	1927	164,124		Q317	1974	571,300		Q321	1931	4,616	
Q314	1928	244,894		Q317	1975	583,400		Q321	1932	195,803	
Q314	1929	194,642		Q317	1976	581,700		Q321	1933	356,410	
Q314	1930	206,861		Q317	1977	572,000		Q321	1934	447,557	
Q314	1931	163,300		Q317	1978	546,100		Q321	1935	382,816	
Q314	1932	190,315		Q317	1979	440,600		Q321	1936	390,356	
Q314	1933	262,489		Q317	1980	547,000		Q321	1937	405,370	
Q314	1934	306,193		Q317	1981	543,500		Q321	1938	434,734	
Q314	1935	204,636		Q317	1982	513,000		Q321	1939	415,484	
Q314	1936	330,807		Q317	1983	446,500		Q321	1940	61,063	
Q314	1937	299,091		Q317	1984	386,200		Q321	1941	99,820	
Q314	1938	190,800		Q318	1930	225,101		Q321	1942	274,424	
Q314	1939	93,410		Q318	1931	533,524		Q321	1943	317,405	
Q314	1940	32,455		Q318	1932	487,555		Q321	1944	355,067	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q321	1974	50,625		Q323	1944	559,485		Q324.2	1938	343,135	E
Q321	1975	41,400		Q323	1974	1,000		Q324.2	1939	329,292	E
Q321	1976	46,350		Q323	1975	9,800		Q324.2	1940	296,195	E
Q321	1977	21,750		Q323	1976	24,470		Q324.2	1941	357,145	E
Q321	1978	23,325		Q323	1977	11,000		Q324.2	1942	335,365	E
Q321	1979	13,500		Q323	1978	17,700		Q324.2	1943	312,448	E
Q321	1980	20,925		Q323	1979	1,800		Q324.2	1944	333,813	E
Q321	1981	22,800		Q323	1980	5,500		Q351	1925	8,839	E
Q321	1982	23,925		Q323	1981	7,500		Q351	1926	9,301	
Q321	1984	160,400		Q323	1982	45,800		Q351	1927	8,777	
Q322	1932	135,448		Q323	1983	32,900		Q351	1928	3,990	
Q322	1933	264,442		Q323	1984	13,730		Q351	1936	146,936	
Q322	1934	373,170		Q324	1906	582,740	M	Q351	1937	272,954	
Q322	1935	368,990		Q324	1907	1,007,327	M	Q351	1938	294,284	
Q322	1936	356,338		Q324	1908	1,030,868	M	Q351	1939	442,054	
Q322	1937	367,799		Q324	1909	1,185,613	M	Q351	1940	417,442	
Q322	1938	339,532		Q324	1910	1,317,644	M	Q351	1941	456,179	
Q322	1939	325,018		Q324	1911	1,229,113	M	Q351	1942	358,400	
Q322	1940	373,280		Q324	1912	1,412,971	M	Q351	1943	327,000	
Q322	1941	380,760		Q324	1913	1,623,109	M	Q351	1944	350,771	
Q322	1942	331,075		Q324	1914	1,561,031	M	Q351	1945	167,717	
Q322	1943	358,115		Q324	1915	1,513,831	M	Q352	1906	468,291	M,E
Q322	1944	353,885		Q324	1916	896,751	X,M	Q352	1907	641,220	M,E
Q322	1974	66,900		Q324	1917	1,376,110	M	Q352	1908	531,545	M,E
Q322	1975	127,000		Q324	1918	1,494,580	M	Q352	1909	566,044	M,E
Q322	1976	116,500		Q324	1919	1,466,890	M	Q352	1910	639,860	M,E
Q322	1977	109,500		Q324	1920	1,593,010	M	Q352	1911	663,578	M,E
Q322	1978	79,300		Q324	1921	1,488,810	M	Q352	1912	734,712	M,E
Q322	1979	57,900		Q324	1922	1,468,720	M	Q352	1913	754,229	M,E
Q322	1980	41,200		Q324	1923	1,388,610	M	Q352	1914	800,251	M,E
Q322	1981	65,100		Q324	1924	1,408,540	M	Q352	1915	828,514	M,E
Q322	1982	108,700		Q324	1925	1,229,350	M	Q352	1916	954,358	M,E
Q322	1983	107,800		Q324	1926	994,320	X,M	Q352	1917	1,037,567	M,E
Q322	1984	215,200		Q324	1927	1,058,420	M	Q352	1918	1,201,304	M,E
Q323	1933	151,711		Q324	1928	1,106,920	M	Q352	1919	1,147,768	M,E
Q323	1934	352,373		Q324	1929	1,053,210	M	Q352	1920	1,220,453	M,E
Q323	1935	342,352		Q324	1930	956,610	M	Q352	1921	1,349,199	M,E
Q323	1936	326,189		Q324	1931	935,630	M	Q352	1922	1,557,915	M,E
Q323	1937	418,436		Q324	1932	996,230	M	Q352	1923	2,001,821	M,E
Q323	1938	478,953		Q324	1933	1,017,920	M	Q352	1924	2,272,238	M,E
Q323	1939	384,806		Q324	1934	480,130	M	Q352	1925	2,372,336	M,E
Q323	1940	467,775		Q324.2	1934	171,332	E	Q352	1926	2,496,855	M
Q323	1941	565,648		Q324.2	1935	326,098	E	Q352	1927	2,532,011	M
Q323	1942	561,337		Q324.2	1936	285,677	E	Q352	1928	2,651,907	M
Q323	1943	575,400		Q324.2	1937	280,077	E	Q352	1929	2,555,041	M

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q352	1930	2,743,110	M	Q353	1930	31,963	M	Q354	1932	352,524	
Q352	1931	2,639,425	M	Q353	1931	27,080	M	Q354	1933	424,095	
Q352	1932	2,594,031	M	Q353	1932	17,551	M	Q354	1934	449,426	
Q352	1933	2,242,151	M	Q353	1933	41,417	M	Q354	1935	705,132	
Q352	1934	1,983,722	M	Q353	1934	76,731	M	Q354	1936	784,860	
Q352	1935	1,210,174	M	Q353	1935	326,449	M	Q354	1937	775,216	
Q352	1936	754,336	M	Q353	1936	475,629	M	Q354	1938	778,466	
Q352	1937	663,986	M	Q353	1937	446,247	M	Q354	1939	820,047	
Q352	1938	715,587	M	Q353	1938	484,985	M	Q354	1940	804,872	
Q352	1939	687,623	M	Q353	1939	450,559	M	Q354	1941	797,396	
Q352	1940	488,999	M	Q353	1940	372,897	M	Q354	1942	786,900	
Q352	1941	654,610	M	Q353	1941	378,803	M	Q354	1943	788,000	
Q352	1942	494,300	M	Q353	1942	493,200	M	Q354	1944	645,980	
Q352	1943	568,000	M	Q353	1943	614,000	M	Q354	1945	707,827	
Q352	1944	544,121	M	Q353	1944	679,465	M	Q354	1946	698,233	
Q352	1945	377,303	M	Q353	1945	598,811	M	Q354	1947	699,017	
Q352	1946	301,222	M	Q353	1946	241,821	M	Q354	1948	703,609	
Q352	1947	263,864	M	Q353	1947	87,490	M	Q354	1949	696,435	
Q352	1948	412,063	M	Q353	1948	106,819	M	Q354	1950	692,405	
Q353	1904	439,200	M,E	Q353	1949	281,908	M	Q354	1951	692,040	
Q353	1905	438,000	M,E	Q353	1952	4,296	M	Q354	1952	686,714	
Q353	1906	6,209	M,E	Q353	1956	70,308	M	Q354	1953	685,105	
Q353	1907	8,502	M,E	Q353	1957	75,470	M	Q354	1954	671,235	
Q353	1908	7,048	M,E	Q353	1958	74,424	M	Q354	1955	583,530	
Q353	1909	7,505	M,E	Q353	1959	54,150	M	Q354	1956	670,870	
Q353	1910	8,484	M,E	Q353	1960	107,712	M	Q354	1957	669,615	
Q353	1911	8,799	M,E	Q353	1961	162,410	M	Q354	1958	667,950	
Q353	1912	9,742	M,E	Q353	1962	24,472	M	Q354	1959	659,190	
Q353	1913	9,870	M,E	Q353	1963	32,604	M	Q354	1960	597,456	
Q353	1914	10,611	M,E	Q353	1964	41,710	M	Q354	1961	738,947	
Q353	1915	10,986	M,E	Q353	1965	68,968	M	Q354	1962	785,115	
Q353	1916	12,654	M,E	Q353	1966	95,944	M	Q354	1963	776,355	
Q353	1917	13,757	M,E	Q353	1967	69,973	M	Q354	1964	773,800	
Q353	1918	15,929	M,E	Q353	1968	124,292	M	Q354	1965	761,390	
Q353	1919	15,219	M,E	Q353	1969	116,234	M	Q354	1966	751,170	
Q353	1920	16,183	M,E	Q353	1970	116,234	M	Q354	1967	747,155	
Q353	1921	17,890	M,E	Q353	1971	101,088	M	Q354	1968	750,075	
Q353	1922	20,657	M,E	Q353	1972	4,631	M	Q354	1969	760,624	
Q353	1923	26,543	M,E	Q354	1925	62,868	E	Q354	1970	760,624	
Q353	1924	30,129	M,E	Q354	1926	66,165		Q354	1971	807,015	
Q353	1925	29,436	M,E	Q354	1927	59,800		Q354	1972	697,452	
Q353	1926	30,977	M	Q354	1928	112,775		Q354	1973	455,535	
Q353	1927	29,795	M	Q354	1929	218,960		Q354	1974	55,443	E
Q353	1928	33,116	M	Q354	1930	295,286		Q355	1926	40,264	
Q353	1929	31,559	M	Q354	1931	238,901		Q355	1927	65,255	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q355	1928	95,841		Q557	1926	6,393		Q559	1928	256,180	
Q355	1929	154,853		Q557	1929	70,750		Q559	1929	282,015	
Q355	1930	324,534		Q557	1930	34,685		Q559	1930	224,459	
Q355	1931	132,587		Q557	1931	44,209		Q559	1931	228,017	
Q355	1932	136,097		Q557	1932	43,980		Q559	1932	227,690	
Q355	1933	228,068		Q557	1933	73,155		Q559	1933	197,160	
Q355	1934	407,821		Q557	1934	79,556		Q559	1934	179,916	
Q355	1935	617,136		Q557	1935	53,831		Q559	1935	225,336	
Q355	1936	702,761		Q557	1936	30,071		Q559	1936	270,940	
Q355	1937	628,793		Q557	1937	4,600		Q559	1937	231,692	
Q355	1938	781,606		Q557	1938	15		Q559	1938	118,788	
Q355	1939	849,970		Q557	1939	44,784		Q559	1939	137,524	
Q355	1940	833,831		Q557	1940	8,345		Q559	1940	213,529	
Q355	1941	803,078		Q557	1941	29,095		Q559	1941	181,840	
Q355	1942	785,100		Q557	1942	1,647		Q559	1942	330,295	
Q355	1943	793,000		Q557	1943	33,028		Q559	1943	376,375	
Q355	1944	761,951		Q557	1944	58,188		Q559	1944	252,580	
Q355	1945	760,471		Q558	1930	189,397		Q560	1935	94,659	E
Q355	1946	753,632		Q558	1931	359,123		Q560	1936	272,220	E
Q355	1947	753,642		Q558	1932	479,790		Q560	1937	262,617	E
Q355	1948	756,955		Q558	1933	430,998		Q560	1938	261,835	E
Q355	1949	759,975		Q558	1934	414,825		Q560	1939	281,257	E
Q355	1950	771,610		Q558	1935	408,908		Q560	1940	283,912	E
Q355	1951	762,120		Q558	1936	285,539		Q560	1941	285,985	E
Q355	1952	767,595		Q558	1937	351,848		Q560	1942	272,025	E
Q355	1953	761,025		Q558	1938	299,884		Q560	1943	293,975	E
Q355	1954	751,170		Q558	1939	411,476		Q560	1944	289,530	E
Q355	1955	742,775		Q558	1940	356,267		Q560	1974	107,833	E
Q355	1956	737,300		Q558	1941	335,063		Q560	1975	159,933	E
Q355	1957	723,389		Q558	1942	314,115		Q560	1976	89,900	E
Q355	1958	714,670		Q558	1943	434,805		Q560	1977	38,000	E
Q355	1959	716,860		Q558	1944	349,390		Q560	1978	121,500	E
Q355	1960	725,255		Q558	1974	176,500		Q560	1979	160,333	E
Q355	1961	641,337		Q558	1975	220,900		Q560	1980	97,267	E
Q355	1962	748,250		Q558	1976	219,300		Q560	1981	49,167	E
Q355	1963	710,655		Q558	1977	186,400		Q560	1982	107,733	E
Q355	1964	661,015		Q558	1978	219,600		Q561	1935	94,659	E
Q355	1965	495,830		Q558	1979	191,500		Q561	1936	272,220	E
Q355	1966	620,046		Q558	1980	167,800		Q561	1937	262,617	E
Q355	1967	560,280		Q558	1981	218,900		Q561	1938	261,835	E
Q355	1968	471,215		Q558	1982	213,400		Q561	1939	281,257	E
Q355	1969	470,120		Q558	1983	104,500		Q561	1940	283,912	E
Q355	1970	470,120		Q558	1984	109,500		Q561	1941	285,985	E
Q355	1971	445,300		Q559	1926	112,197		Q561	1942	272,025	E
Q355	1972	184,191		Q559	1927	122,657		Q561	1943	293,975	E

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q561	1944	289,530	E	Q563	1974	27,410		Q565	1940	556,450	
Q561	1974	107,833	E	Q563	1975	13,450		Q565	1941	548,890	
Q561	1975	159,933	E	Q563	1976	18,040		Q565	1942	560,940	
Q561	1976	89,900	E	Q563	1977	25,640		Q565	1943	494,690	
Q561	1977	38,000	E	Q563	1978	41,520		Q565	1944	442,220	
Q561	1978	121,500	E	Q563	1979	25,350		Q565	1974	137,500	
Q561	1979	160,333	E	Q563	1980	25,900		Q566	1929	43,578	
Q561	1980	97,267	E	Q563	1981	19,900		Q566	1930	40,121	
Q561	1981	49,167	E	Q563	1982	25,050		Q566	1931	76,081	
Q561	1982	107,733	E	Q564	1931	210,110		Q566	1932	145,338	
Q562	1935	283,978		Q564	1932	506,651		Q566	1933	150,778	
Q562	1936	816,660		Q564	1933	463,262		Q566	1934	52,301	
Q562	1937	787,850		Q564	1934	459,899		Q566	1935	23,443	
Q562	1938	785,499		Q564	1935	464,158		Q566	1936	25,592	
Q562	1939	843,771		Q564	1936	325,099		Q566	1937	33,725	
Q562	1940	851,735		Q564	1937	254,062		Q566	1938	21,095	
Q562	1941	857,955		Q564	1938	343,362		Q566	1939	64,849	
Q562	1942	816,075		Q564	1939	356,761		Q566	1940	3,760	
Q562	1943	881,925		Q564	1940	152,593		Q566	1941	24,857	
Q562	1944	868,590		Q564	1941	214,038		Q566	1942	2,591	
Q562	1974	974,300		Q564	1942	113,999		Q566	1943	44,754	
Q562	1975	985,000		Q564	1943	234,918		Q566	1944	152,297	
Q562	1976	987,300		Q564	1944	338,990		Q566	1974	364,700	
Q562	1977	962,900		Q564	1974	437,000		Q566	1975	391,100	
Q562	1978	831,000		Q564	1975	429,900		Q566	1976	427,900	
Q562	1979	905,300		Q564	1976	433,600		Q566	1977	399,500	
Q562	1980	1,011,100		Q564	1977	436,500		Q566	1978	347,400	
Q562	1981	1,021,000		Q564	1978	424,500		Q566	1979	343,000	
Q562	1982	1,071,400		Q564	1979	376,500		Q566	1980	365,700	
Q562	1983	911,900		Q564	1980	304,200		Q566	1981	353,200	
Q562	1984	894,300		Q564	1981	435,500		Q566	1982	148,000	
Q563	1931	54,858		Q564	1982	326,000		Q566	1983	218,700	
Q563	1932	95,528		Q564	1983	393,800		Q566	1984	216,900	
Q563	1933	28,232		Q565	1928	132,512		Q567	1930	47,038	
Q563	1934	65,228		Q565	1929	230,709		Q567	1933	6,964	
Q563	1935	9,008		Q565	1930	302,308		Q567	1937	268,539	
Q563	1936	10,885		Q565	1931	354,304		Q567	1938	483,365	
Q563	1937	10,078		Q565	1932	205,590		Q567	1939	488,910	
Q563	1938	7,961		Q565	1933	124,310		Q567	1940	420,770	
Q563	1939	36,371		Q565	1934	219,620		Q567	1941	436,040	
Q563	1940	15,077		Q565	1935	125,778		Q567	1942	404,665	
Q563	1941	75,495		Q565	1936	84,067		Q567	1943	433,575	
Q563	1942	89,461		Q565	1937	156,809		Q567	1944	439,685	
Q563	1943	16,431		Q565	1938	382,582		Q567	1974	361,200	
Q563	1944	26,596		Q565	1939	540,392		Q567	1975	194,800	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q567	1976	372,900		Q570	1940	296,195	E	Q1378	1962	151,510	
Q567	1977	218,600		Q570	1941	357,145	E	Q1378	1963	154,530	
Q567	1978	167,900		Q570	1942	335,365	E	Q1378	1964	168,399	
Q567	1979	263,100		Q570	1943	312,448	E	Q1378	1965	60,894	
Q567	1980	475,100		Q570	1944	333,813	E	Q1378	1966	110,152	
Q567	1981	277,100		Q570	1974	36,560	E	Q1378	1967	135,534	
Q567	1982	466,500		Q570	1975	38,000	E	Q1378	1968	88,693	
Q567	1983	273,100		Q570	1976	72,633	E	Q1378	1969	119,603	
Q567	1984	242,200		Q570	1977	41,527	E	Q1378	1970	119,603	
Q568	1933	162,674		Q570	1978	42,100	E	Q1378	1971	294,965	
Q568	1934	386,391		Q570	1979	26,990	E	Q1378	1972	240,778	
Q568	1935	339,230		Q570	1980	46,137	E	Q1378	1973	99,953	
Q568	1936	330,336		Q570	1981	38,713	E	Q1378	1974	55,442	E
Q568	1937	411,159		Q570	1982	99,740	E	Q1379	1946	364,983	
Q568	1938	548,049		Q1058	1940	296,195	E	Q1379	1947	643,611	
Q568	1939	436,370		Q1058	1941	357,145	E	Q1379	1948	649,805	
Q568	1940	577,303		Q1058	1942	335,365	E	Q1379	1949	651,367	
Q568	1941	628,620		Q1058	1943	312,448	E	Q1379	1950	639,480	
Q568	1942	610,350		Q1058	1944	333,813	E	Q1379	1951	430,440	
Q568	1943	611,465		Q1058	1974	36,560	E	Q1379	1952	636,925	
Q568	1944	621,135		Q1058	1975	38,000	E	Q1379	1953	484,554	
Q568	1974	453,200		Q1058	1976	72,633	E	Q1379	1954	441,657	
Q568	1975	386,900		Q1058	1977	41,527	E	Q1379	1955	542,775	
Q568	1976	436,400		Q1058	1978	42,100	E	Q1379	1956	532,170	
Q568	1977	541,000		Q1058	1979	26,990	E	Q1379	1957	543,136	
Q568	1978	569,500		Q1058	1980	46,137	E	Q1379	1958	545,310	
Q568	1979	501,000		Q1058	1981	38,713	E	Q1379	1959	605,535	
Q568	1980	409,100		Q1058	1982	99,740	E	Q1379	1960	605,170	
Q568	1981	300,700		Q1378	1945	263,926		Q1379	1961	653,350	
Q568	1982	707,300		Q1378	1946	684,751		Q1379	1962	727,080	
Q568	1983	666,600		Q1378	1947	674,056		Q1379	1963	707,735	
Q568	1984	467,800		Q1378	1948	542,658		Q1379	1964	702,625	
Q569	1976	72,633	E	Q1378	1949	422,954		Q1379	1965	720,510	
Q569	1977	41,527	E	Q1378	1950	329,456		Q1379	1966	723,430	
Q569	1978	42,100	E	Q1378	1951	481,628		Q1379	1967	671,040	
Q569	1979	26,990	E	Q1378	1952	514,080		Q1379	1968	720,145	
Q569	1980	46,137	E	Q1378	1953	531,805		Q1379	1969	721,240	
Q569	1981	38,713	E	Q1378	1954	529,615		Q1379	1970	721,240	
Q569	1982	99,740	E	Q1378	1955	537,280		Q1379	1971	707,370	
Q570	1934	171,332	E	Q1378	1956	520,125		Q1379	1972	526,198	
Q570	1935	326,098	E	Q1378	1957	473,714		Q1379	1973	498,602	
Q570	1936	285,677	E	Q1378	1958	380,330		Q1379	1974	55,443	E
Q570	1937	280,077	E	Q1378	1959	227,997		Q1450	1974	28,340	
Q570	1938	343,135	E	Q1378	1960	94,464		Q1450	1975	24,800	
Q570	1939	329,292	E	Q1378	1961	124,292		Q1450	1976	46,500	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q1450	1977	31,500		Q1484	1968	170,820		Q1511	1962	271,195	
Q1450	1978	49,600		Q1484	1969	170,090		Q1511	1963	270,465	
Q1450	1979	24,700		Q1484	1970	170,090		Q1511	1964	467,910	
Q1450	1980	44,000		Q1484	1971	147,095		Q1511	1965	254,770	
Q1450	1981	140,500		Q1484	1972	81,184		Q1511	1966	229,950	
Q1450	1982	138,000		Q1484	1973	11,050		Q1511	1967	305,325	
Q1450	1983	173,800		Q1484	1974	55,442	E	Q1511	1968	342,735	
Q1450	1984	182,900		Q1493	1949	59,678		Q1511	1969	334,705	
Q1476	1948	78,198		Q1493	1950	286		Q1511	1970	334,705	
Q1476	1949	148,724		Q1493	1952	53,775		Q1511	1971	335,070	
Q1476	1950	16,008		Q1493	1953	34,830		Q1511	1972	230,378	
Q1476	1951	31,434		Q1493	1954	65,604		Q1511	1973	275,082	
Q1476	1952	114,884		Q1493	1955	144,996		Q1511	1974	55,442	E
Q1476	1953	59,697		Q1493	1956	262,392		Q1528	1950	19,656	
Q1476	1954	83,844		Q1493	1957	230,540		Q1528	1951	140,712	
Q1476	1955	145,672		Q1493	1958	249,106		Q1528	1952	147,492	
Q1476	1956	107,640		Q1493	1959	203,200		Q1528	1953	363,175	
Q1476	1957	125,095		Q1493	1960	276,670		Q1528	1954	300,167	
Q1476	1958	107,559		Q1493	1961	163,836		Q1528	1955	66,599	
Q1476	1959	2,219		Q1493	1962	162,000		Q1528	1956	47,502	
Q1476	1960	189,070		Q1493	1963	219,730		Q1528	1957	64,907	
Q1476	1961	232,596		Q1493	1964	206,955		Q1528	1958	95,232	
Q1476	1962	246,960		Q1493	1965	228,490		Q1528	1959	332,515	
Q1476	1963	200,020		Q1493	1966	174,240		Q1528	1960	346,020	
Q1476	1964	210,970		Q1493	1967	232,166		Q1528	1961	343,830	
Q1476	1965	188,552		Q1493	1968	302,220		Q1528	1962	342,005	
Q1476	1966	168,995		Q1493	1969	335,070		Q1528	1963	318,708	
Q1476	1967	160,114		Q1493	1970	335,070		Q1528	1964	327,066	
Q1476	1968	193,085		Q1493	1971	262,800		Q1528	1965	293,095	
Q1476	1969	223,380		Q1493	1972	179,950		Q1528	1966	327,040	
Q1476	1970	223,380		Q1493	1973	39,618		Q1528	1967	385,123	
Q1476	1971	249,096		Q1493	1974	55,442	E	Q1528	1968	458,805	
Q1476	1972	145,580		Q1511	1949	32,133		Q1528	1969	455,885	
Q1476	1973	20,460		Q1511	1950	290,400		Q1528	1970	455,885	
Q1476	1974	55,442	E	Q1511	1951	217,617		Q1528	1971	475,230	
Q1477	1949	97,711		Q1511	1952	111,048		Q1528	1972	421,095	
Q1477	1966	3,408		Q1511	1953	217,392		Q1528	1973	467,704	
Q1477	1967	1,032		Q1511	1954	274,456		Q1528	1974	55,443	E
Q1477	1968	1,800		Q1511	1955	274,456		Q1534	1974	29,600	
Q1477	1969	1,800		Q1511	1956	151,174		Q1534	1975	23,700	
Q1477	1970	1,800		Q1511	1957	172,145		Q1534	1979	2,900	
Q1477	1971	11,886		Q1511	1958	200,480		Q1600	1974	322,200	
Q1477	1972	3,723		Q1511	1959	197,327		Q1600	1975	499,500	
Q1484	1949	221,226		Q1511	1960	262,800		Q1600	1976	603,300	
Q1484	1950	76,433		Q1511	1961	299,665		Q1600	1977	601,600	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q1600	1978	601,400		Q1747	1978	492,200		Q1840	1981	396,500	
Q1600	1979	601,900		Q1747	1979	483,200		Q1840	1982	473,100	
Q1600	1980	603,600		Q1747	1980	428,000		Q1840	1983	443,200	
Q1600	1981	601,700		Q1747	1981	442,100		Q1840	1984	474,900	
Q1600	1982	600,600		Q1747	1982	502,500		Q1843	1974	103,500	
Q1600	1983	472,000		Q1747	1983	510,000		Q1843	1975	51,800	
Q1600	1984	578,400		Q1747	1984	512,200		Q1843	1976	93,000	
Q1604	1950	17,787		Q1811	1974	437,400		Q1843	1977	100,900	
Q1604	1951	140,336		Q1811	1975	435,200		Q1843	1978	99,800	
Q1604	1952	82,705		Q1811	1976	475,400		Q1843	1979	35,000	
Q1604	1953	111,843		Q1811	1977	501,800		Q1843	1980	37,200	
Q1604	1954	124,503		Q1811	1978	583,400		Q1843	1981	42,700	
Q1604	1955	191,475		Q1811	1979	577,300		Q1843	1983	500	
Q1604	1956	89,832		Q1811	1980	406,500		Q1957	1974	816,000	
Q1604	1957	254,932		Q1811	1981	506,100		Q1957	1975	429,900	
Q1604	1958	295,285		Q1811	1982	329,400		Q1957	1976	807,600	
Q1604	1959	255,608		Q1811	1983	124,000		Q1957	1977	781,900	
Q1604	1960	271,560		Q1811	1984	37,500		Q1957	1978	786,700	
Q1604	1961	250,390		Q1815	1974	620,200		Q1957	1979	702,300	
Q1604	1962	240,516		Q1815	1975	609,900		Q1957	1980	786,100	
Q1604	1963	346,020		Q1815	1976	621,800		Q1957	1981	785,000	
Q1604	1964	329,960		Q1815	1977	613,000		Q1957	1982	776,500	
Q1604	1965	311,710		Q1815	1978	521,400		Q1957	1983	693,300	
Q1604	1966	288,350		Q1815	1979	620,200		Q1957	1984	640,100	
Q1604	1967	276,900		Q1815	1980	620,600		Q1958	1974	154,300	
Q1604	1968	311,345		Q1815	1981	495,300		Q1958	1975	348,900	
Q1604	1969	300,760		Q1815	1982	616,800		Q1958	1976	460,600	
Q1604	1970	300,760		Q1815	1983	619,100		Q1958	1977	229,800	
Q1604	1971	278,130		Q1815	1984	618,400		Q1958	1978	241,500	
Q1604	1972	227,745		Q1839	1974	107,833	E	Q1958	1979	567,900	
Q1604	1973	217,116		Q1839	1975	159,933	E	Q1958	1980	471,400	
Q1604	1974	55,443	E	Q1839	1976	89,900	E	Q1958	1981	800,300	
Q1629	1974	830,400		Q1839	1977	38,000	E	Q1958	1982	793,700	
Q1629	1975	674,000		Q1839	1978	121,500	E	Q1958	1983	728,600	
Q1629	1976	743,700		Q1839	1979	160,333	E	Q1958	1984	677,000	
Q1629	1977	774,600		Q1839	1980	97,267	E	Q1997	1974	408,300	
Q1629	1978	680,600		Q1839	1981	49,167	E	Q1997	1975	511,500	
Q1629	1979	591,900		Q1839	1982	107,733	E	Q1997	1976	404,700	
Q1629	1980	399,300		Q1840	1974	461,100		Q1997	1977	392,200	
Q1629	1981	98,100		Q1840	1975	497,700		Q1997	1978	474,300	
Q1629	1982	140,100		Q1840	1976	511,800		Q1997	1979	473,800	
Q1747	1974	511,000		Q1840	1977	424,300		Q1997	1980	398,400	
Q1747	1975	502,100		Q1840	1978	473,900		Q1997	1981	474,400	
Q1747	1976	507,600		Q1840	1979	423,300		Q1997	1982	473,500	
Q1747	1977	496,400		Q1840	1980	378,800		Q1997	1983	474,000	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q1997	1984	475,500		Q2027	1976	44,100		Q2188	1978	802,500	
Q2000	1974	84,200		Q2027	1977	12,240		Q2188	1979	798,600	
Q2000	1975	88,100		Q2027	1978	10,760		Q2188	1980	804,800	
Q2000	1976	106,300		Q2027	1979	5,900		Q2188	1981	802,700	
Q2000	1977	163,700		Q2027	1980	17,800		Q2188	1982	801,900	
Q2000	1978	221,400		Q2027	1981	39,600		Q2188	1983	620,100	
Q2000	1979	103,000		Q2027	1982	44,600		Q2188	1984	804,900	
Q2000	1980	139,500		Q2027	1983	145,200		Q2189	1974	380,200	
Q2000	1981	255,500		Q2027	1984	146,400		Q2189	1975	334,500	
Q2000	1982	255,300		Q2028	1974	725,100		Q2189	1976	285,600	
Q2000	1983	216,700		Q2028	1975	721,500		Q2189	1977	247,900	
Q2000	1984	231,400		Q2028	1976	802,400		Q2189	1978	256,000	
Q2001	1974	253,300		Q2028	1977	706,400		Q2189	1979	309,700	
Q2001	1975	135,800		Q2028	1978	613,300		Q2189	1980	419,400	
Q2001	1976	117,000		Q2028	1979	744,900		Q2189	1981	510,800	
Q2001	1977	165,000		Q2028	1980	795,600		Q2189	1982	510,800	
Q2001	1978	211,300		Q2028	1981	714,800		Q2189	1983	510,600	
Q2001	1979	154,900		Q2028	1982	818,900		Q2189	1984	512,400	
Q2001	1980	253,000		Q2028	1983	716,800		Q2243	1974	80,500	
Q2001	1981	181,000		Q2028	1984	650,400		Q2243	1975	59,400	
Q2001	1982	190,200		Q2137	1974	78,200		Q2243	1976	25,500	
Q2001	1983	321,100		Q2137	1975	67,400		Q2243	1977	43,870	
Q2001	1984	238,100		Q2137	1976	50,400		Q2243	1978	35,500	
Q2006	1974	383,000		Q2137	1978	5,100		Q2243	1979	20,900	
Q2006	1975	350,800		Q2137	1979	66,800		Q2243	1980	54,840	
Q2006	1976	329,300		Q2137	1980	136,300		Q2243	1981	42,800	
Q2006	1977	201,100		Q2137	1981	88,900		Q2243	1982	133,800	
Q2006	1978	202,000		Q2137	1982	174,900		Q2243	1983	65,550	
Q2006	1979	193,100		Q2137	1983	105,400		Q2243	1984	11,480	
Q2006	1980	51,500		Q2137	1984	184,000		Q2275	1974	39,100	
Q2006	1981	66,000		Q2138	1974	475,800		Q2275	1975	24,100	
Q2006	1982	85,600		Q2138	1975	482,500		Q2275	1976	62,500	
Q2026	1974	571,600		Q2138	1976	529,300		Q2275	1977	88,900	
Q2026	1975	379,100		Q2138	1977	527,700		Q2275	1978	62,000	
Q2026	1976	287,700		Q2138	1978	424,300		Q2275	1979	24,200	
Q2026	1977	481,400		Q2138	1979	473,000		Q2275	1980	96,500	
Q2026	1978	520,400		Q2138	1980	475,200		Q2275	1981	115,200	
Q2026	1979	437,000		Q2138	1981	473,000		Q2275	1982	148,000	
Q2026	1980	470,200		Q2138	1982	473,700		Q2275	1983	56,400	
Q2026	1981	632,700		Q2138	1983	472,700		Q2276	1974	190,500	
Q2026	1982	671,600		Q2138	1984	416,400		Q2276	1975	162,000	
Q2026	1983	429,900		Q2188	1974	731,900		Q2276	1976	182,200	
Q2026	1984	658,400		Q2188	1975	724,800		Q2276	1977	155,300	
Q2027	1974	45,800		Q2188	1976	645,500		Q2276	1978	157,100	
Q2027	1975	23,600		Q2188	1977	546,600		Q2276	1979	85,000	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q2276	1980	184,300		Q2343	1975	738,800		Q2374	1977	498,900	
Q2276	1981	431,700		Q2343	1976	758,000		Q2374	1978	491,000	
Q2276	1982	755,200		Q2343	1977	767,000		Q2374	1979	491,300	
Q2276	1983	631,100		Q2343	1978	681,500		Q2374	1980	494,100	
Q2276	1984	731,700		Q2343	1979	519,900		Q2374	1981	492,700	
Q2299	1974	66,400		Q2343	1980	501,000		Q2374	1982	479,800	
Q2299	1975	54,700		Q2343	1981	235,100		Q2374	1983	421,500	
Q2299	1976	134,600		Q2343	1982	310,200		Q2374	1984	474,800	
Q2299	1977	266,900		Q2343	1983	385,600		Q2408	1974	293,700	
Q2299	1978	405,600		Q2362	1974	518,600		Q2408	1975	193,600	
Q2299	1979	616,700		Q2362	1975	501,700		Q2408	1976	368,500	
Q2299	1980	621,900		Q2362	1976	507,500		Q2408	1977	240,900	
Q2299	1981	353,400		Q2362	1977	451,100		Q2408	1978	333,200	
Q2299	1982	254,900		Q2362	1978	410,400		Q2408	1979	345,700	
Q2300	1974	753,200		Q2362	1979	510,700		Q2408	1980	347,100	
Q2300	1975	600,000		Q2362	1980	511,500		Q2408	1981	346,600	
Q2300	1976	657,700		Q2362	1981	510,700		Q2408	1982	343,600	
Q2300	1977	743,200		Q2362	1982	510,500		Q2408	1983	324,400	
Q2300	1978	778,700		Q2362	1983	511,000		Q2408	1984	59,200	
Q2300	1979	801,300		Q2362	1984	443,900		Q2409	1974	360,200	
Q2300	1980	801,200		Q2363	1974	97,500		Q2409	1975	363,900	
Q2300	1981	466,800		Q2363	1975	46,600		Q2409	1976	363,800	
Q2300	1982	198,100		Q2363	1976	140,700		Q2409	1977	306,400	
Q2300	1983	3,500		Q2363	1977	202,100		Q2409	1978	290,900	
Q2321	1974	82,700		Q2363	1978	232,800		Q2409	1979	290,800	
Q2321	1975	48,300		Q2363	1979	151,100		Q2409	1980	292,000	
Q2321	1976	125,800		Q2363	1980	136,800		Q2409	1981	291,800	
Q2321	1977	210,400		Q2363	1981	227,800		Q2409	1982	390,200	
Q2321	1978	266,100		Q2363	1982	255,300		Q2409	1983	497,300	
Q2321	1979	107,900		Q2363	1983	255,100		Q2409	1984	511,900	
Q2321	1980	245,000		Q2363	1984	158,300		Q2432	1974	818,100	
Q2321	1981	502,400		Q2373	1974	288,200		Q2432	1975	852,200	
Q2321	1982	618,700		Q2373	1975	366,600		Q2432	1976	832,700	
Q2332	1974	471,200		Q2373	1976	369,100		Q2432	1977	802,900	
Q2332	1975	585,600		Q2373	1977	302,000		Q2432	1978	800,800	
Q2332	1976	607,500		Q2373	1978	336,700		Q2432	1979	801,900	
Q2332	1977	541,700		Q2373	1979	345,700		Q2432	1980	804,000	
Q2332	1978	474,500		Q2373	1980	346,700		Q2432	1981	801,500	
Q2332	1979	474,000		Q2373	1981	346,700		Q2432	1982	800,300	
Q2332	1980	475,600		Q2373	1982	344,800		Q2432	1983	799,100	
Q2332	1981	473,600		Q2373	1983	304,600		Q2432	1984	800,800	
Q2332	1982	401,600		Q2373	1984	301,000		Q2435	1974	491,500	
Q2332	1983	474,200		Q2374	1974	511,800		Q2435	1975	555,200	
Q2332	1984	474,700		Q2374	1975	494,600		Q2435	1976	467,000	
Q2343	1974	722,100		Q2374	1976	477,100		Q2435	1977	503,500	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
Q2435	1978	443,600		Q3014	1980	437,900		N12	1980	156,700	
Q2435	1979	484,900		Q3014	1981	437,900		N12	1981	224,100	
Q2435	1980	486,500		Q3014	1982	388,700		N12	1982	196,000	
Q2435	1981	486,700		Q3014	1983	473,400		N12	1983	288,000	
Q2435	1982	224,700		Q3014	1984	475,300		N12	1984	142,100	
Q2435	1983	410,700		Q3034	1974	543,000		N13	1974	403,550	E
Q2435	1984	464,400		Q3034	1975	635,700		N13	1975	320,850	E
Q2442	1974	52,300		Q3034	1976	698,300		N13	1976	257,600	E
Q2442	1975	183,700		Q3034	1977	698,300		N13	1977	224,700	E
Q2442	1976	73,800		Q3034	1978	693,100		N13	1978	373,400	E
Q2442	1977	100,000		Q3034	1979	691,300		N13	1979	338,300	E
Q2442	1978	84,500		Q3034	1980	687,500		N13	1980	330,000	E
Q2442	1979	48,200		Q3034	1981	664,100		N13	1981	245,300	E
Q2442	1980	115,300		Q3034	1982	692,600		N13	1982	288,300	E
Q2442	1981	68,800		Q3034	1983	693,200		N13	1983	285,850	E
Q2442	1982	93,100		Q3034	1984	694,900		N13	1984	240,450	E
Q2442	1983	4,100		Q3062	1975	88,380		N14	1943	141,541	
Q2443	1974	291,500		Q3062	1976	641,100		N14	1944	229,002	
Q2443	1975	272,700		Q3062	1977	674,600		N14	1974	27,600	
Q2443	1976	204,700		Q3062	1978	693,200		N14	1975	3,100	
Q2443	1977	303,500		Q3062	1979	692,500		N14	1976	19,300	
Q2443	1978	260,600		Q3062	1980	661,200		N14	1977	18,900	
Q2443	1979	168,300		Q3062	1981	626,900		N14	1978	26,700	
Q2443	1980	436,000		Q3062	1982	636,100		N14	1979	26,300	
Q2443	1981	279,600		Q3062	1983	690,800		N14	1980	39,500	
Q2443	1982	483,300		Q3062	1984	625,400		N14	1981	8,000	
Q2443	1983	478,800		Q3069	1977	334,600		N14	1982	30,100	
Q2443	1984	284,200		Q3069	1978	510,400		N14	1983	44,500	
Q2955	1974	298,100		Q3069	1979	491,700		N14	1984	3,900	
Q2955	1975	208,100		Q3069	1980	507,500		N15	1974	13,600	
Q2955	1976	236,500		Q3069	1981	475,400		N15	1975	900	
Q2955	1977	249,700		Q3069	1982	509,500		N15	1976	7,200	
Q2955	1978	250,400		Q3069	1983	509,000		N15	1977	8,000	
Q2955	1979	248,500		Q3069	1984	392,300		N15	1978	8,000	
Q2955	1980	352,700		Q3083	1980	303,500		N17	1974	449,600	
Q2955	1981	361,500		Q3083	1981	273,400		N17	1975	470,200	
Q2955	1982	550,300		Q3083	1982	94,200		N17	1976	473,200	
Q2955	1983	361,800		Q3083	1983	15,800		N17	1977	472,400	
Q2955	1984	264,200		Q3083	1984	3,200		N17	1978	262,500	
Q3014	1974	443,700		N12	1974	167,100		N17	1979	193,800	
Q3014	1975	433,900		N12	1975	235,500		N17	1980	123,700	
Q3014	1976	441,100		N12	1976	262,100		N17	1981	224,300	
Q3014	1977	439,000		N12	1977	207,600		N17	1982	251,000	
Q3014	1978	437,900		N12	1978	258,400		N17	1983	245,500	
Q3014	1979	417,400		N12	1979	264,200		N17	1984	171,100	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N22	1980	138,660		N72	1984	101,275		N97	1983	92,360	
N22	1981	88,252		N75	1980	157,128		N97	1984	144,073	
N22	1982	108,195		N75	1981	151,310		N101	1980	127,244	
N22	1983	193,296		N75	1982	214,260		N101	1981	121,966	
N22	1984	80,867		N75	1983	190,357		N101	1982	108,503	
N24	1980	309,790		N75	1984	217,675		N101	1983	60,719	
N24	1981	73,630		N76	1980	30,116		N101	1984	171,353	
N28	1980	37,477		N76	1981	13,496		N103	1980	191,320	
N28	1981	34,272		N76	1982	14,132		N103	1981	184,350	
N28	1982	26,357		N76	1983	10,584		N103	1982	225,700	
N28	1983	29,739		N79	1980	424,193		N103	1983	276,340	
N28	1984	33,772		N79	1981	163,125		N103	1984	298,740	
N29	1980	6,656		N79	1982	239,485		N104	1980	5,770	
N29	1981	16,523		N79	1983	533,069		N104	1981	2,490	
N29	1982	17,418		N79	1984	617,548		N104	1982	19,340	
N29	1983	15,390		N80	1980	54,956		N104	1983	5,360	
N29	1984	12,288		N80	1981	41,902		N104	1984	2,130	
N31	1980	162,434		N80	1982	9,299		N118	1980	3,726	
N31	1981	204,651		N80	1983	16,736		N118	1981	2,232	
N31	1982	14,787		N80	1984	47,148		N118	1982	6,354	
N31	1983	93,344		N81	1980	95,206		N118	1983	39,231	
N31	1984	8,945		N81	1981	87,506		N118	1984	5,804	
N37	1980	111,790		N81	1982	88,760		N119	1983	9,123	
N37	1981	74,540		N81	1983	145,791		N119	1984	500	
N37	1982	63,270		N81	1984	93,773		N132	1980	34,245	
N37	1983	56,830		N82	1980	111,987		N133	1980	137,196	
N37	1984	77,030		N82	1981	77,528		N133	1981	164,418	
N46	1980	27,459		N82	1982	86,499		N133	1982	127,860	
N46	1981	23,197		N82	1983	155,227		N133	1983	146,313	
N46	1982	27,174		N82	1984	102,183		N133	1984	151,649	
N46	1983	45,061		N83	1980	7,936		N134	1980	198,531	
N46	1984	65,064		N83	1981	129,479		N134	1981	224,447	
N68	1980	235,041		N83	1982	189,688		N134	1982	187,004	
N68	1981	218,780		N83	1983	189,836		N134	1983	240,846	
N68	1982	285,088		N83	1984	40,956		N134	1984	119,896	
N68	1983	241,412		N94	1980	24,024		N152	1980	44,541	
N68	1984	285,429		N94	1981	8,240		N152	1981	42,361	
N69	1980	263,832		N95	1980	120,496		N152	1982	44,913	
N69	1981	175,522		N95	1981	184,323		N152	1983	40,863	
N69	1982	280,297		N95	1982	185,041		N152	1984	62,471	
N69	1983	63,981		N95	1983	132,606		N198	1980	355,780	
N72	1980	53,122		N95	1984	114,901		N198	1981	226,480	
N72	1981	130,728		N97	1980	20,518		N198	1982	199,894	
N72	1982	174,957		N97	1981	36,327		N198	1983	335,700	
N72	1983	67,928		N97	1982	30,050		N198	1984	362,905	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N199	1980	281,637		N1328	1982	292,760		N1802	1980	34,059	
N199	1981	284,341		N1328	1983	248,201		N1802	1981	14,871	
N199	1982	180,867		N1328	1984	290,127		N1802	1982	9,737	
N199	1983	394,023		N1402	1980	17		N1802	1983	74,283	
N199	1984	394,496		N1595	1981	1,125	M	N1802	1984	48,187	
N570	1980	128,934		N1601	1980	354,286		N1870	1980	995	E
N570	1981	252,061		N1601	1981	390,152		N1870	1981	183	E
N570	1982	218,062		N1601	1982	436,023		N1870	1982	1,065	E
N570	1983	60,989		N1601	1983	398,470		N1870	1983	123	E
N570	1984	284,247		N1601	1984	336,186		N1870	1984	20,709	E
N650	1981	4,802		N1602	1980	252,922		N1871	1980	995	E
N650	1982	4,949		N1602	1981	289,918		N1871	1981	183	E
N650	1984	721		N1602	1982	270,662		N1871	1982	1,065	E
N651	1981	3,191		N1602	1983	556,381		N1871	1983	123	E
N651	1982	3,443		N1602	1984	430,402		N1871	1984	20,709	E
N651	1984	719		N1603	1980	493,124		N1872	1980	995	E
N687	1980	272,731		N1603	1981	596,620		N1872	1981	183	E
N687	1981	233,038		N1603	1982	483,741		N1872	1982	1,065	E
N687	1982	175,485		N1603	1983	368,551		N1872	1983	123	E
N687	1983	243,566		N1603	1984	629,295		N1872	1984	20,709	E
N687	1984	177,567		N1618	1980	220,896		N1873	1980	995	E
N693	1974	200		N1618	1981	251,265		N1873	1981	183	E
N693	1975	52,300		N1618	1982	217,712		N1873	1982	1,065	E
N693	1976	162,700		N1618	1983	401,071		N1873	1983	123	E
N693	1977	103,600		N1618	1984	371,701		N1873	1984	20,709	E
N693	1978	103,100		N1651	1980	58,944		N1874	1980	995	E
N693	1979	65,100		N1651	1981	40,819		N1874	1981	183	E
N693	1980	123,800		N1651	1982	12,456		N1874	1982	1,065	E
N693	1981	77,900		N1651	1983	107,308		N1874	1983	123	E
N693	1982	170,700		N1651	1984	22,151		N1874	1984	20,709	E
N693	1983	389,800		N1697	1980	174,947		N1875	1980	995	E
N693	1984	363,300		N1697	1981	84,797		N1875	1981	183	E
N700	1980	20		N1697	1982	178,110		N1875	1982	1,065	E
N700	1982	1,155		N1697	1983	135,594		N1875	1983	123	E
N700	1983	849		N1697	1984	116,497		N1875	1984	20,709	E
N700	1984	41,979		N1715	1980	94,350		N1876	1980	995	E
N835	1980	110,930		N1715	1981	98,350		N1876	1981	183	E
N835	1981	55,674		N1715	1982	85,590		N1876	1982	1,065	E
N1298	1980	64,704		N1715	1983	111,900		N1876	1983	123	E
N1298	1981	29,509		N1715	1984	116,620		N1876	1984	20,709	E
N1298	1982	90,180		N1716	1980	49,870		N1877	1980	949	E
N1298	1983	157,448		N1716	1981	60,470		N1877	1981	175	E
N1298	1984	269,800		N1716	1982	38,000		N1877	1982	1,017	E
N1328	1980	369,100		N1716	1983	63,940		N1877	1983	117	E
N1328	1981	286,875		N1716	1984	15,980		N1877	1984	19,768	E

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N1937	1980	10,640		N2214	1983	159,775		N2597	1980	320,807	
N1937	1981	5,052		N2214	1984	129,538		N2597	1981	1,890	
N1937	1982	7,515		N2239	1980	335,698		N2597	1983	127,752	
N1937	1983	13,729		N2239	1981	319,186		N2597	1984	17,938	
N1937	1984	16,392		N2239	1982	185,259		N2602	1980	97,638	
N1958	1974	436,400		N2239	1983	178,370		N2602	1981	102,623	
N1958	1975	495,000		N2239	1984	245,136		N2602	1982	149,607	
N1958	1976	476,200		N2400	1980	359,244		N2602	1983	163,186	
N1958	1977	511,500		N2400	1981	196,589		N2602	1984	154,594	
N1958	1978	420,200		N2400	1982	120,422		N2613	1980	17,168	
N1958	1979	613,700		N2400	1983	125,199		N2613	1981	17,982	
N1958	1980	386,700		N2400	1984	367,339		N2613	1982	14,920	
N1958	1981	374,000		N2413	1974	268,500		N2613	1983	24,521	
N1958	1982	617,500		N2413	1975	398,800		N2613	1984	8,292	
N1958	1983	556,200		N2413	1976	401,400		N2748	1980	134,691	
N1958	1984	569,700		N2413	1977	367,500		N2748	1981	124,912	
N2028	1980	236,325		N2413	1978	220,500		N2748	1982	135,860	
N2028	1981	127,874		N2413	1979	266,200		N2748	1983	156,184	
N2028	1982	103,368		N2413	1980	131,400		N2748	1984	145,219	
N2028	1983	169,420		N2413	1981	122,900		N2920	1981	600	
N2028	1984	214,426		N2413	1982	116,800		N2920	1982	17,112	
N2030	1980	42,430		N2413	1983	73,000		N2920	1983	18,000	
N2030	1981	47,770		N2413	1984	14,400		N3185	1980	395,153	
N2030	1982	32,740		N2414	1974	76,700		N3185	1981	232,276	
N2030	1983	49,970		N2414	1975	67,700		N3185	1982	306,274	
N2030	1984	10,220		N2414	1976	74,400		N3185	1983	344,989	
N2052	1980	302,070		N2414	1977	128,300		N3185	1984	116,016	
N2052	1981	284,850		N2414	1978	196,800		N3427	1980	20,880	
N2052	1982	294,500		N2414	1979	30,900		N3427	1981	7,670	
N2052	1983	79,510		N2414	1980	78,300		N3443	1980	221,493	
N2052	1984	5,680		N2414	1981	47,600		N3443	1981	248,041	
N2115	1974	192,700		N2414	1982	96,500		N3443	1982	269,446	
N2115	1975	24,300		N2414	1983	92,200		N3443	1983	190,381	
N2115	1976	144,750		N2414	1984	5,700		N3443	1984	291,387	
N2115	1977	111,300		N2565	1981	700		N3456	1980	29,926	
N2115	1978	95,200		N2578	1980	687		N3456	1981	87,509	
N2115	1979	85,000		N2578	1981	307		N3456	1982	239,661	
N2115	1980	86,100		N2578	1982	273		N3456	1983	138,544	
N2115	1981	26,900		N2578	1983	67		N3456	1984	207,849	
N2115	1982	39,800		N2578	1984	94		N3457	1980	31,805	
N2115	1983	90,700		N2580	1980	35,450		N3457	1981	8,013	
N2115	1984	45,300		N2580	1981	8,382		N3457	1982	3,803	
N2214	1980	84,529		N2580	1982	2,976		N3457	1983	3,587	
N2214	1981	73,783		N2580	1983	16,464		N3457	1984	18,517	
N2214	1982	249,547		N2580	1984	4,504		N3465	1980	327,286	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N3465	1981	220,727		N3618	1983	176,010		N3733	1981	107,762	
N3465	1982	282,855		N3618	1984	172,528		N3733	1982	40,285	
N3465	1983	365,520		N3668	1980	95,559		N3733	1983	41,761	
N3465	1984	363,678		N3668	1981	379,200		N3733	1984	38,426	
N3474	1980	150,165		N3668	1982	370,165		N3745	1980	197,149	
N3474	1981	136,625		N3668	1983	365,624		N3745	1981	157,541	
N3474	1982	132,695		N3668	1984	430,983		N3745	1982	114,239	
N3474	1983	146,493		N3672	1980	181,337		N3745	1983	129,716	
N3474	1984	150,793		N3672	1981	45,181		N3745	1984	64,797	
N3475	1980	162,684		N3672	1982	350		N3781	1980	728,499	
N3475	1981	170,117		N3680	1980	160,150		N3781	1981	602,983	
N3475	1982	199,521		N3680	1981	20,740		N3781	1982	689,009	
N3475	1983	217,460		N3680	1982	4,130		N3781	1983	626,875	
N3475	1984	138,172		N3687	1980	95,772		N3781	1984	668,102	
N3520	1980	22,033		N3687	1981	310,992		N3832	1980	412	
N3520	1981	25,389		N3687	1982	226,520		N3832	1981	2,170	
N3520	1982	18,708		N3687	1983	139,153		N3832	1982	500	
N3520	1983	21,773		N3687	1984	253,627		N3832	1983	4,706	
N3520	1984	7,888		N3704	1980	305,319		N3832	1984	608	
N3523	1980	40,519		N3704	1981	264,856		N3878	1980	164,794	
N3523	1983	240,105		N3704	1982	128,902		N3878	1981	13,083	
N3523	1984	359,011		N3704	1983	291,957		N3878	1982	15,432	
N3540	1980	64,634		N3704	1984	229,189		N3878	1983	57,325	
N3540	1981	53,844		N3720	1974	184,700		N3878	1984	46,015	
N3540	1982	39,873		N3720	1975	366,800		N3881	1980	207,242	
N3540	1983	55,202		N3720	1976	217,300		N3881	1981	189,784	
N3540	1984	50,336		N3720	1977	127,100		N3881	1982	189,430	
N3603	1980	90,949		N3720	1978	94,300		N3881	1983	204,035	
N3603	1981	67,789		N3720	1979	73,100		N3881	1984	212,869	
N3603	1982	64,198		N3720	1980	156,000		N3893	1980	36,160	
N3603	1983	83,044		N3720	1981	159,000		N3893	1981	7,420	
N3603	1984	43,054		N3720	1982	159,700		N3893	1982	7,040	
N3604	1980	48,793		N3720	1983	357,100		N3893	1983	12,640	
N3604	1981	53,809		N3720	1984	329,500		N3894	1980	32,090	
N3604	1982	62,301		N3722	1980	51		N3894	1981	5,190	
N3604	1983	39,948		N3722	1981	166		N3894	1982	1,270	
N3604	1984	38,569		N3722	1982	60		N3895	1980	745,010	
N3605	1980	13,358		N3722	1983	183		N3895	1981	478,900	
N3605	1981	3,275		N3722	1984	235		N3895	1982	248,150	
N3605	1982	6,738		N3732	1980	69,591		N3895	1983	91,190	
N3605	1983	21,804		N3732	1981	89,624		N3895	1984	27,080	
N3605	1984	240		N3732	1982	105,374		N3905	1980	14,692	
N3618	1980	60,000		N3732	1983	113,510		N3905	1983	33,480	
N3618	1981	69,120		N3732	1984	135,939		N3934	1980	250,071	
N3618	1982	57,004		N3733	1980	38,729		N3934	1981	233,097	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N3934	1982	208,201		N4096	1981	209,427		N4298	1981	483,000	
N3934	1983	256,043		N4096	1982	145,434		N4298	1982	622,400	
N3934	1984	260,488		N4096	1983	162,317		N4298	1983	724,800	
N3935	1980	295,800		N4096	1984	39,835		N4298	1984	318,200	
N3935	1981	244,763		N4097	1980	134,957		N4327	1980	98,140	
N3935	1982	241,910		N4097	1981	131,167		N4327	1981	97,392	
N3935	1983	271,427		N4097	1982	119,497		N4327	1982	66,911	
N3935	1984	243,954		N4097	1983	170,795		N4327	1983	98,429	
N3937	1980	374,897		N4097	1984	119,693		N4327	1984	60,315	
N3937	1981	293,468		N4118	1980	303,593		N4388	1980	503,671	
N3937	1982	347,758		N4118	1981	288,406		N4388	1981	497,149	
N3937	1983	255,308		N4118	1982	258,007		N4388	1982	468,862	
N3937	1984	229,071		N4118	1983	316,731		N4388	1983	223,401	
N3953	1980	26,049		N4118	1984	262,394		N4388	1984	76,148	
N3953	1981	5,023		N4132	1980	293,574		N4389	1980	58,740	
N3953	1982	8,321		N4132	1981	281,594		N4389	1981	48,740	
N3953	1983	37,600		N4132	1982	211,248		N4389	1982	49,990	
N3953	1984	5,115		N4132	1983	298,278		N4389	1983	64,090	
N4043	1980	85,642		N4132	1984	208,773		N4389	1984	41,692	
N4043	1981	78,185		N4206	1980	103,347		N4390	1974	572,700	
N4043	1982	13,379		N4206	1981	113,044		N4390	1975	280,100	
N4043	1983	284,557		N4206	1982	122,166		N4390	1976	423,900	
N4043	1984	290,022		N4206	1983	126,644		N4390	1977	644,000	
N4077	1974	33,700		N4206	1984	106,039		N4390	1978	652,100	
N4077	1975	15,500		N4223	1980	206,560		N4390	1979	647,800	
N4077	1976	25,300		N4223	1981	84,650		N4390	1980	656,800	
N4077	1977	30,000		N4243	1980	50,767		N4390	1981	582,700	
N4077	1978	30,400		N4243	1983	22,509		N4390	1982	648,700	
N4077	1979	19,600		N4245	1980	466,717		N4390	1983	622,500	
N4077	1980	37,600		N4245	1981	247,151		N4390	1984	555,500	
N4077	1981	45,300		N4245	1982	272,201		N4393	1980	237,893	
N4077	1982	25,900		N4245	1983	335,501		N4393	1981	303,548	
N4077	1983	88,900		N4245	1984	245,521		N4393	1982	239,112	
N4077	1984	160,700		N4265	1980	19,663		N4393	1983	297,110	
N4082	1980	69,006		N4265	1981	18,752		N4393	1984	203,642	
N4082	1981	115,431		N4265	1982	28,921		N4400	1980	242,807	
N4082	1982	95,573		N4265	1983	39,184		N4400	1981	235,020	
N4082	1983	121,641		N4265	1984	18,509		N4400	1982	208,854	
N4082	1984	194,290		N4298	1974	840,800		N4400	1983	211,239	
N4095	1980	149,895		N4298	1975	603,100		N4400	1984	229,503	
N4095	1981	154,737		N4298	1976	553,000		N4405	1980	84,248	
N4095	1982	176,025		N4298	1977	716,100		N4405	1981	53,674	
N4095	1983	146,670		N4298	1978	721,300		N4405	1982	57,945	
N4095	1984	240,971		N4298	1979	653,100		N4405	1983	97,094	
N4096	1980	259,271		N4298	1980	604,000		N4405	1984	57,502	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N4411	1980	106,919		N4602	1982	68,381		N5145	1980	270,283	
N4411	1981	112,282		N4602	1983	204,106		N5145	1981	92,174	
N4411	1982	127,207		N4602	1984	241,483		N5145	1982	114,190	
N4411	1983	113,276		N4623	1980	136,956		N5145	1983	79,267	
N4411	1984	118,418		N4623	1981	60,287		N5145	1984	51,123	
N4425	1980	483,092		N4623	1982	97,563		N5147	1980	69,437	E
N4425	1981	391,789		N4623	1983	60,150		N5147	1981	72,607	E
N4425	1982	347,717		N4623	1984	8,366		N5147	1982	43,053	E
N4425	1983	248,404		N4756	1980	56,271		N5147	1983	27,507	E
N4425	1984	204,902		N4756	1981	42,181		N5147	1984	12,800	E
N4447	1980	49,671		N4756	1982	17,058		N5148	1980	14,006	
N4447	1981	12,055		N4756	1983	2,040		N5148	1981	5,176	
N4447	1982	8,171		N4757	1980	265,878		N5148	1982	20,738	
N4447	1983	30,120		N4757	1981	281,438		N5148	1983	26,130	
N4448	1980	414,371		N4757	1982	364,376		N5148	1984	6,015	
N4448	1981	254,307		N4757	1983	391,332		N5152	1980	279,436	
N4448	1982	409,615		N4757	1984	395,573		N5152	1981	81,073	
N4448	1983	387,171		N4758	1980	59,837		N5152	1982	150,628	
N4448	1984	433,105		N4758	1981	343,377		N5152	1983	213,211	
N4450	1980	147,878		N4758	1982	384,298		N5152	1984	67,236	
N4450	1981	139,325		N4758	1983	350,896		N5153	1980	41,156	
N4450	1982	132,273		N4758	1984	252,850		N5153	1981	19,933	
N4450	1983	300,663		N4759	1980	285,366		N5153	1982	43,105	
N4450	1984	181,742		N4759	1981	19,518		N5153	1983	42,660	
N4451	1980	121,895		N4859	1982	130		N5153	1984	12,395	
N4451	1981	72,894		N4859	1983	6,380		N5155	1974	20,200	
N4451	1982	129,958		N4859	1984	3,810		N5155	1975	20,700	
N4451	1983	241,314		N4860	1980	21,680		N5155	1976	33,400	
N4451	1984	197,979		N4860	1981	19,950		N5155	1977	39,500	
N4461	1980	77,830		N4860	1982	17,670		N5155	1978	48,100	
N4461	1981	16,840		N4860	1983	21,980		N5155	1979	30,900	
N4461	1982	17,850		N4860	1984	20,320		N5155	1980	52,800	
N4512	1974	837,500		N5007	1982	78,712		N5155	1981	21,300	
N4512	1975	568,100		N5007	1983	190,639		N5155	1982	12,400	
N4512	1976	608,500		N5007	1984	161,627		N5155	1983	25,100	
N4512	1977	720,300		N5099	1980	416,038		N5155	1984	5,630	
N4512	1978	654,200		N5099	1981	433,808		N5156	1974	763,500	
N4512	1979	452,800		N5099	1982	327,775		N5156	1975	735,000	
N4512	1980	555,700		N5099	1983	372,558		N5156	1976	788,300	
N4512	1981	656,800		N5099	1984	310,852		N5156	1977	739,500	
N4512	1982	654,600		N5121	1980	432,672		N5156	1978	733,200	
N4512	1983	629,100		N5121	1981	708,823		N5156	1979	797,200	
N4512	1984	213,000		N5121	1982	562,411		N5156	1980	680,800	
N4602	1980	57,728		N5121	1983	488,943		N5156	1981	438,400	
N4602	1981	52,922		N5121	1984	324,865		N5156	1982	530,600	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N5156	1983	402,300		N5260	1983	121,248		N5528	1981	131,267	
N5156	1984	689,400		N5260	1984	60,800		N5528	1982	156,506	
N5163	1980	224,197		N5302	1980	58,424		N5528	1983	130,574	
N5163	1981	229,942		N5302	1981	59,481		N5528	1984	127,977	
N5163	1982	208,662		N5302	1982	220,069		N5596	1980	178,269	
N5163	1983	249,026		N5302	1983	171,441		N5596	1981	212,238	
N5163	1984	212,390		N5302	1984	253,317		N5596	1982	224,696	
N5187	1980	256,307		N5303	1980	199,726		N5596	1983	219,869	
N5187	1981	246,689		N5303	1981	477,247		N5596	1984	273,846	
N5187	1982	200,822		N5308	1981	34,660		N5603	1980	332,866	
N5187	1983	320,990		N5308	1982	24,378		N5603	1981	203,060	
N5187	1984	474,914		N5308	1983	395,228		N5653	1980	322,328	
N5193	1980	130,067		N5308	1984	215,612		N5653	1981	377,307	
N5193	1981	18,163		N5318	1980	139,182		N5653	1982	479,968	
N5193	1982	68,801		N5318	1981	90,202		N5653	1983	245,588	
N5193	1983	140,695		N5318	1982	68,463		N5653	1984	328,240	
N5193	1984	165,449		N5318	1983	337,797		N5655	1980	97,793	E
N5194	1980	332,394		N5318	1984	139,971		N5655	1981	82,124	E
N5194	1981	416,424		N5319	1980	1,134		N5655	1982	35,956	E
N5194	1982	190,724		N5320	1980	104,308		N5655	1983	30,283	E
N5194	1983	166,409		N5320	1981	74,582		N5655	1984	23,431	E
N5194	1984	216,183		N5320	1982	39,876		N5656	1980	293,342	
N5195	1980	111,295		N5320	1983	291,156		N5656	1981	167,299	
N5195	1981	154,800		N5320	1984	388,986		N5656	1982	233,922	
N5195	1982	210,834		N5321	1980	114,634		N5656	1983	371,171	
N5195	1983	200,470		N5321	1981	153,778		N5656	1984	296,865	
N5195	1984	110,722		N5321	1982	79,279		N5695	1980	294,356	
N5201	1980	12,889		N5321	1983	154,002		N5695	1981	249,298	
N5201	1983	17,226		N5321	1984	124,490		N5695	1982	194,085	
N5209	1980	49,180		N5322	1980	106,280		N5695	1983	223,915	
N5209	1981	65,070		N5322	1981	122,526		N5695	1984	363,375	
N5209	1982	42,990		N5322	1982	34,421		N5696	1980	127,318	
N5209	1983	82,550		N5322	1983	61,812		N5696	1981	174,210	
N5209	1984	129,780		N5322	1984	36,549		N5696	1982	268,807	
N5227	1980	200,415		N5484	1980	245,910		N5696	1983	362,900	
N5227	1981	144,410		N5484	1981	283,493		N5696	1984	285,945	
N5227	1982	173,447		N5484	1982	185,870		N5703	1980	143,918	
N5227	1983	115,751		N5484	1983	64,068		N5703	1981	279,862	
N5227	1984	86,774		N5484	1984	131,961		N5703	1982	297,361	
N5259	1980	143,450		N5485	1980	66,387		N5703	1983	209,981	
N5259	1981	97,700		N5485	1981	65,323		N5703	1984	485,498	
N5259	1982	5,780		N5485	1982	158,786		N5710	1980	305,267	
N5260	1980	69,377		N5485	1983	52,739		N5710	1981	344,461	
N5260	1981	59,066		N5485	1984	76,562		N5710	1982	383,846	
N5260	1982	181,300		N5528	1980	197,817		N5710	1983	137,686	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N5710	1984	6,062		N6076	1984	206,794		N6150	1984	222,062	
N5762	1980	529,170		N6077	1980	120,497		N6190	1980	17,170	
N5762	1981	277,544		N6077	1981	71,303		N6190	1981	2,336	
N5762	1982	210,059		N6077	1982	169,450		N6190	1982	931	
N5762	1983	293,511		N6077	1983	141,121		N6190	1983	766	
N5762	1984	210,389		N6077	1984	197,722		N6191	1980	4,778	
N5767	1980	424,060		N6078	1980	31,465		N6192	1980	128,720	
N5767	1981	534,750		N6078	1981	21,311		N6192	1981	24,197	
N5767	1982	546,500		N6078	1982	14,501		N6192	1982	50,543	
N5767	1983	332,090		N6078	1983	29,810		N6192	1983	44,013	
N5767	1984	292,030		N6078	1984	3,221		N6192	1984	28,502	
N5792	1980	382,925		N6087	1980	21,370		N6315	1980	106,617	
N5792	1981	377,088		N6087	1981	22,660		N6315	1981	114,905	
N5792	1982	397,839		N6087	1982	1,050		N6315	1982	133,449	
N5792	1983	399,477		N6087	1983	22,410		N6315	1983	135,892	
N5792	1984	297,396		N6087	1984	21,610		N6315	1984	125,447	
N5852	1980	298,241		N6092	1980	231,149		N6442	1980	81,143	
N5852	1981	355,240		N6092	1981	233,237		N6442	1981	249,761	
N5852	1982	536,217		N6092	1982	280,453		N6442	1982	90,401	
N5852	1983	474,631		N6092	1983	316,710		N6442	1983	82,464	
N5852	1984	421,898		N6092	1984	315,141		N6442	1984	49,414	
N5876	1980	50,570		N6093	1980	224,329		N6443	1980	38,717	
N5876	1981	31,720		N6093	1981	143,681		N6443	1981	39,509	
N5876	1982	56,280		N6093	1982	168,116		N6443	1982	23,613	
N5876	1983	103,930		N6093	1983	151,280		N6443	1983	38,345	
N5876	1984	93,800		N6093	1984	105,800		N6443	1984	9,629	
N5884	1980	293,761		N6146	1980	71,223		N6450	1980	353,994	
N5884	1981	241,117		N6146	1981	54,245		N6450	1981	401,446	
N5884	1982	235,054		N6146	1982	49,099		N6450	1982	90,440	
N5884	1983	308,329		N6146	1983	54,295		N6450	1984	41,287	
N5884	1984	229,912		N6146	1984	109,506		N6580	1980	154,181	
N5947	1980	302,731		N6148	1980	214,940		N6580	1981	125,574	
N5947	1981	217,096		N6148	1981	135,040		N6580	1982	153,743	
N5947	1982	243,100		N6148	1982	233,613		N6580	1983	148,009	
N5947	1983	187,525		N6148	1983	232,953		N6580	1984	91,651	
N5947	1984	223,478		N6148	1984	204,015		N6644	1980	172,877	
N6045	1980	82,680		N6149	1980	69,437	E	N6644	1981	171,249	
N6045	1981	69,473		N6149	1981	72,607	E	N6644	1982	170,681	
N6045	1982	36,028		N6149	1982	43,053	E	N6644	1983	175,192	
N6045	1983	65,964		N6149	1983	27,507	E	N6644	1984	153,272	
N6045	1984	66,128		N6149	1984	12,801	E	N6651	1980	214,734	
N6076	1980	107,230		N6150	1980	238,537		N6651	1981	382,260	
N6076	1981	98,803		N6150	1981	211,137		N6651	1982	491,299	
N6076	1982	121,112		N6150	1982	154,645		N6651	1983	372,184	
N6076	1983	160,772		N6150	1983	196,884		N6651	1984	214,832	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N6744	1974	31,800		N6893	1983	418,875		N7117	1983	346,497	
N6744	1975	23,000		N6893	1984	463,594		N7117	1984	398,179	
N6744	1976	47,000		N6915	1980	239,982		N7126	1980	125,122	
N6744	1977	59,100		N6915	1981	275,818		N7126	1981	191,120	
N6744	1978	40,500		N6915	1982	197,011		N7126	1982	223,109	
N6744	1979	30,300		N6915	1983	193,816		N7126	1983	264,128	
N6744	1980	45,100		N6915	1984	133,097		N7126	1984	256,507	
N6744	1981	68,000		N6916	1980	241,955		N7157	1980	82,950	
N6744	1982	18,800		N6916	1981	172,194		N7157	1981	73,920	
N6744	1983	57,300		N6916	1982	105,335		N7157	1982	69,780	
N6744	1984	42,300		N6916	1983	124,912		N7157	1983	36,620	
N6745	1974	513,600		N6916	1984	121,424		N7157	1984	79,746	
N6745	1975	552,000		N6945	1980	362,300		N7298	1980	375,321	
N6745	1976	602,200		N6945	1981	283,289		N7298	1981	458,602	
N6745	1977	598,100		N6945	1982	270,268		N7298	1982	469,634	
N6745	1978	495,800		N6945	1983	31,812		N7298	1983	408,330	
N6745	1979	660,800		N6945	1984	366,924		N7298	1984	507,433	
N6745	1980	654,700		N6956	1980	237,661		N7353	1980	210,836	
N6745	1981	472,400		N6956	1981	252,478		N7353	1981	187,137	
N6745	1982	184,600		N6956	1982	156,049		N7353	1982	169,027	
N6745	1983	200,000		N6956	1983	267,437		N7353	1983	180,975	
N6745	1984	321,600		N6956	1984	238,771		N7353	1984	124,035	
N6817	1980	92,831		N7030	1980	196,558		N7377	1980	209,215	
N6817	1981	24,408		N7030	1981	248,027		N7377	1981	202,388	
N6817	1982	126,667		N7030	1982	260,303		N7377	1982	344,532	
N6817	1983	161,763		N7030	1983	369,401		N7377	1983	180,850	
N6817	1984	140,384		N7030	1984	466,549		N7377	1984	117,630	
N6819	1980	97,793	E	N7058	1980	221,893		N7407	1980	179,930	
N6819	1981	82,124	E	N7058	1981	237,143		N7407	1981	90,540	
N6819	1982	35,956	E	N7058	1982	226,217		N7407	1982	61,110	
N6819	1983	30,283	E	N7058	1983	287,917		N7407	1983	78,100	
N6819	1984	23,431	E	N7058	1984	328,544		N7407	1984	88,890	
N6866	1980	263,898		N7076	1980	295,700		N7414	1980	213,970	
N6866	1981	441,486		N7076	1981	134,064		N7414	1981	188,440	
N6866	1982	321,465		N7076	1982	289,610		N7414	1982	207,320	
N6866	1983	560,664		N7076	1983	193,034		N7414	1983	292,520	
N6866	1984	192,071		N7076	1984	263,990		N7414	1984	458,870	
N6867	1980	584,788		N7104	1980	407,365		N7421	1980	287,509	
N6867	1981	313,974		N7104	1981	522,425		N7421	1981	319,101	
N6867	1982	337,037		N7104	1982	327,546		N7421	1982	277,113	
N6867	1983	746,085		N7104	1983	379,834		N7421	1983	226,647	
N6867	1984	536,470		N7104	1984	174,157		N7421	1984	199,757	
N6893	1980	490,606		N7117	1980	389,005		N7445	1974	2,300	
N6893	1981	439,019		N7117	1981	293,174		N7445	1975	390,600	
N6893	1982	341,088		N7117	1982	299,341		N7445	1976	314,800	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N7445	1977	111,200		N7521	1981	164,512		N7562	1981	346,935	
N7445	1978	9,100		N7521	1982	119,202		N7562	1982	198,798	
N7445	1979	7,800		N7521	1983	95,934		N7562	1983	152,587	
N7445	1980	97,700		N7521	1984	38,220		N7562	1984	39,352	
N7445	1981	102,200		N7522	1980	460,152		N7593	1980	496,476	
N7445	1982	27,400		N7522	1981	445,803		N7593	1981	442,613	
N7445	1983	121,500		N7522	1982	479,917		N7593	1982	417,336	
N7445	1984	96,100		N7522	1983	486,760		N7593	1983	221,798	
N7446	1980	131,892		N7522	1984	494,041		N7593	1984	378,102	
N7446	1981	135,888		N7523	1980	232,498		N7620	1980	21,430	
N7446	1982	155,759		N7523	1981	159,565		N7620	1981	22,133	
N7446	1983	134,624		N7523	1982	211,117		N7620	1982	29,569	
N7446	1984	163,937		N7523	1983	220,973		N7620	1983	32,731	
N7482	1974	469,400		N7523	1984	166,881		N7620	1984	35,644	
N7482	1975	608,600		N7526	1980	100,393		N7643	1980	435	
N7482	1976	591,900		N7526	1981	66,314		N7643	1981	340	
N7482	1977	533,400		N7526	1982	74,268		N7643	1982	1,656	
N7482	1978	408,800		N7526	1983	87,169		N7643	1983	4,013	
N7482	1979	535,700		N7526	1984	72,491		N7649	1974	109,200	
N7482	1980	617,500		N7548	1980	582,061		N7649	1975	41,100	
N7482	1981	252,400		N7548	1981	576,956		N7649	1976	170,400	
N7482	1982	262,700		N7548	1982	573,829		N7649	1977	170,500	
N7482	1983	559,400		N7548	1983	504,554		N7649	1978	301,300	
N7482	1984	726,700		N7548	1984	539,204		N7649	1979	14,100	
N7512	1980	242,659		N7549	1980	169,887		N7649	1980	228,300	
N7512	1981	299,227		N7549	1981	148,857		N7649	1981	274,500	
N7512	1982	435,814		N7549	1982	156,193		N7649	1982	196,400	
N7512	1983	324,259		N7549	1983	184,982		N7649	1983	34,600	
N7512	1984	432,828		N7549	1984	134,406		N7649	1984	100	
N7513	1980	139,410		N7551	1980	204,560		N7650	1974	419,300	
N7513	1981	153,413		N7551	1981	221,040		N7650	1975	407,300	
N7513	1982	128,133		N7551	1982	414,410		N7650	1976	505,800	
N7513	1983	157,106		N7551	1983	473,050		N7650	1977	449,600	
N7513	1984	173,888		N7551	1984	437,860		N7650	1978	541,000	
N7515	1980	200,347		N7552	1980	421,280		N7650	1979	416,000	
N7515	1981	121,884		N7552	1981	443,710		N7650	1980	527,700	
N7515	1982	272,816		N7552	1982	425,900		N7650	1981	552,700	
N7515	1983	302,979		N7552	1983	427,380		N7650	1982	427,000	
N7515	1984	251,646		N7552	1984	366,910		N7650	1983	508,800	
N7516	1980	71,650		N7561	1980	336,758		N7650	1984	316,100	
N7516	1981	127,813		N7561	1981	126,432		N7651	1980	413,509	
N7516	1982	71,866		N7561	1982	138,298		N7651	1981	483,808	
N7516	1983	65,054		N7561	1983	114,008		N7651	1982	510,588	
N7516	1984	179,819		N7561	1984	65,860		N7651	1983	453,749	
N7521	1980	91,705		N7562	1980	514,164		N7561	1984	360,189	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N7665	1980	198,635		N7755	1984	3,686	E	N7797	1982	267,779	
N7665	1981	341,494		N7756	1981	372	E	N7797	1983	225,832	
N7665	1982	239,111		N7756	1982	251	E	N7797	1984	106,217	
N7665	1983	70,788		N7756	1983	483	E	N7831	1980	718,212	
N7665	1984	341,586		N7756	1984	3,686	E	N7831	1981	614,407	
N7720	1980	107,891		N7757	1981	372	E	N7831	1982	737,080	
N7720	1981	48,883		N7757	1982	251	E	N7831	1983	702,894	
N7720	1982	66,306		N7757	1983	483	E	N7831	1984	591,771	
N7720	1983	89,200		N7757	1984	3,686	E	N7852	1980	179,063	
N7720	1984	98,921		N7758	1981	372	E	N7852	1981	178,057	
N7747	1981	372	E	N7758	1982	251	E	N7852	1982	201,538	
N7747	1982	251	E	N7758	1983	483	E	N7852	1983	213,747	
N7747	1983	483	E	N7758	1984	3,686	E	N7852	1984	203,428	
N7747	1984	3,686	E	N7772	1980	202,367		N7855	1980	485,316	
N7748	1981	372	E	N7772	1981	132,544		N7855	1981	378,475	
N7748	1982	251	E	N7772	1982	96,895		N7855	1982	360,031	
N7748	1983	483	E	N7772	1983	125,777		N7855	1983	471,381	
N7748	1984	3,686	E	N7772	1984	136,261		N7855	1984	370,634	
N7749	1981	372	E	N7773	1980	84,457		N7857	1980	79,297	
N7749	1982	251	E	N7773	1981	62,521		N7857	1981	53,766	
N7749	1983	483	E	N7773	1982	47,016		N7857	1982	38,821	
N7749	1984	3,686	E	N7773	1983	101,512		N7857	1983	62,670	
N7750	1981	372	E	N7773	1984	68,859		N7857	1984	125,116	
N7750	1982	251	E	N7776	1980	274,159		N7873	1980	177,507	
N7750	1983	483	E	N7776	1981	234,529		N7873	1981	92,304	
N7750	1984	3,686	E	N7776	1982	217,900		N7873	1982	84,961	
N7751	1981	372	E	N7776	1983	113,407		N7873	1983	132,537	
N7751	1982	251	E	N7776	1984	64,013		N7873	1984	77,249	
N7751	1983	483	E	N7781	1980	243,316		N7892	1980	116,681	
N7751	1984	3,686	E	N7781	1981	225,897		N7892	1981	122,097	
N7752	1981	372	E	N7781	1982	258,617		N7892	1982	168,422	
N7752	1982	251	E	N7781	1983	229,641		N7892	1983	59,889	
N7752	1983	483	E	N7781	1984	157,414		N7892	1984	19,051	
N7752	1984	3,686	E	N7785	1980	154,637		N7957	1980	403,129	
N7753	1981	372	E	N7785	1981	144,701		N7957	1981	482,459	
N7753	1982	251	E	N7785	1982	132,190		N7957	1982	199,025	
N7753	1983	483	E	N7785	1983	117,060		N7957	1983	262,335	
N7753	1984	3,686	E	N7785	1984	124,048		N7957	1984	227,974	
N7754	1981	372	E	N7796	1980	218,166		N7961	1981	372	E
N7754	1982	251	E	N7796	1981	242,116		N7961	1982	251	E
N7754	1983	483	E	N7796	1982	184,527		N7961	1983	483	E
N7754	1984	3,686	E	N7796	1983	271,317		N7961	1984	3,686	E
N7755	1981	372	E	N7796	1984	239,379		N7962	1981	372	E
N7755	1982	251	E	N7797	1980	237,213		N7962	1982	251	E
N7755	1983	483	E	N7797	1981	421,818		N7962	1983	483	E

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N7962	1984	3,686	E	N8031	1984	793,240		N8233	1981	27,360	
N7963	1981	372	E	N8043	1980	338,461		N8233	1982	83,100	
N7963	1982	251	E	N8043	1981	225,520		N8233	1983	237,473	
N7963	1983	483	E	N8043	1982	207,812		N8233	1984	154,797	
N7963	1984	3,686	E	N8043	1983	480,059		N8248	1980	319,330	
N7964	1981	372	E	N8043	1984	202,452		N8248	1981	313,460	
N7964	1982	251	E	N8054	1980	256,557		N8248	1982	234,290	
N7964	1983	483	E	N8054	1981	244,633		N8248	1983	204,690	
N7964	1984	3,686	E	N8054	1982	314,675		N8248	1984	167,660	
N7965	1981	372	E	N8054	1983	251,129		N8249	1980	46,035	
N7965	1982	251	E	N8054	1984	236,733		N8249	1981	67,294	
N7965	1983	483	E	N8183	1980	91,763		N8249	1982	4,134	
N7965	1984	3,686	E	N8183	1981	31,775		N8250	1980	43,878	
N7966	1981	372	E	N8183	1982	29,171		N8250	1981	20,647	
N7966	1982	251	E	N8183	1983	25,300		N8250	1982	21,293	
N7966	1983	483	E	N8183	1984	25,488		N8250	1983	44,697	
N7966	1984	3,686	E	N8195	1980	466,675		N8250	1984	24,221	
N7968	1981	372	E	N8195	1981	538,423		N8251	1980	497,211	
N7968	1982	251	E	N8195	1982	479,628		N8251	1981	151,106	
N7968	1983	483	E	N8195	1983	555,282		N8251	1982	186,976	
N7968	1984	3,686	E	N8195	1984	502,206		N8251	1983	389,004	
N8004	1980	79,835		N8196	1980	479,090		N8251	1984	401,644	
N8004	1981	50,960		N8196	1981	439,951		N8253	1980	20,290	
N8004	1982	45,445		N8196	1982	433,289		N8253	1981	61,080	
N8004	1983	204,105		N8196	1983	488,109		N8253	1982	84,430	
N8004	1984	76,955		N8196	1984	531,557		N8253	1983	148,140	
N8007	1980	98,360		N8214	1980	398,795		N8253	1984	64,860	
N8007	1981	72,853		N8214	1981	245,583		N8264	1980	443,445	
N8007	1982	90,718		N8214	1982	308,827		N8264	1981	210,358	
N8007	1983	120,772		N8214	1983	82,067		N8264	1982	117,583	
N8007	1984	142,120		N8214	1984	231,682		N8264	1983	48,525	
N8010	1980	28,755		N8216	1980	253,283		N8264	1984	86,265	
N8010	1981	72,351		N8216	1981	265,823		N8279	1980	214,719	
N8010	1982	98,476		N8216	1982	136,634		N8279	1981	80,948	
N8010	1983	172,654		N8216	1983	289,003		N8279	1982	139,958	
N8010	1984	42,508		N8216	1984	282,459		N8279	1983	214,130	
N8011	1980	157,684		N8217	1980	221,015		N8279	1984	188,884	
N8011	1981	10,740		N8217	1981	194,664		N8313	1980	91,720	
N8011	1982	175,960		N8217	1982	90,753		N8313	1981	92,690	
N8011	1983	94,403		N8217	1983	21,641		N8313	1982	97,530	
N8011	1984	284,527		N8218	1980	183,105		N8313	1983	134,240	
N8031	1980	533,350		N8218	1981	128,268		N8313	1984	95,790	
N8031	1981	729,650		N8218	1982	171,615		N8321	1980	197,020	
N8031	1982	679,380		N8218	1983	158,762		N8321	1981	138,839	
N8031	1983	721,370		N8218	1984	127,994		N8321	1982	190,264	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N8321	1983	147,780		N8475	1983	159,532		N8603	1983	762,970	
N8321	1984	138,430		N8475	1984	248,565		N8603	1984	667,600	
N8326	1983	405		N8480	1980	729,720		N8657	1980	261,051	
N8339	1980	260,625		N8480	1981	798,010		N8657	1981	229,891	
N8339	1981	223,603		N8480	1982	627,140		N8657	1982	161,279	
N8339	1982	198,779		N8480	1983	345,430		N8657	1983	244,447	
N8339	1983	257,386		N8480	1984	74,230		N8657	1984	344,324	
N8339	1984	309,050		N8497	1980	219,771		N8658	1980	159,968	
N8342	1980	10,970		N8497	1981	273,431		N8658	1981	132,492	
N8342	1981	13,710		N8497	1982	261,642		N8658	1982	149,786	
N8342	1982	23,763		N8497	1983	291,085		N8658	1983	178,728	
N8342	1983	136,631		N8497	1984	229,838		N8658	1984	136,312	
N8342	1984	242,047		N8525	1980	52,969		N8664	1980	324,976	
N8354	1980	162,844		N8525	1981	21,992		N8664	1981	477,436	
N8354	1981	153,228		N8525	1982	3,635		N8664	1982	373,130	
N8354	1982	168,548		N8525	1983	26,522		N8664	1983	143,192	
N8354	1983	159,494		N8525	1984	30,036		N8664	1984	195,019	
N8354	1984	156,337		N8526	1980	107,285		N8665	1980	118,595	
N8355	1980	91,285		N8526	1981	136,047		N8665	1981	8,745	
N8355	1981	35,874		N8526	1982	47,801		N8665	1982	17,278	
N8355	1982	55,359		N8526	1983	74,285		N8665	1983	209,070	
N8355	1983	49,951		N8526	1984	15,699		N8665	1984	4,326	
N8355	1984	72,553		N8557	1980	133,725		N8713	1980	129,374	
N8409	1981	17,195		N8557	1981	208,638		N8713	1981	116,936	
N8409	1982	26,179		N8557	1982	381,304		N8713	1982	114,266	
N8409	1983	79,709		N8557	1983	72,990		N8713	1983	76,027	
N8409	1984	20,758		N8557	1984	123,940		N8713	1984	184,603	
N8420	1980	147,097		N8558	1980	240,052		N8767	1980	394,408	
N8420	1981	87,325		N8558	1981	295,275		N8767	1981	462,023	
N8420	1982	83,964		N8558	1982	202,006		N8767	1982	658,436	
N8420	1983	82,163		N8558	1983	297,566		N8767	1983	284,831	
N8420	1984	40,068		N8558	1984	227,272		N8767	1984	372,152	
N8457	1980	172,251		N8576	1980	460,805		N8768	1980	372,438	
N8457	1981	175,025		N8576	1981	477,674		N8768	1981	275,030	
N8457	1982	147,296		N8576	1982	395,305		N8768	1982	246,556	
N8457	1983	162,481		N8576	1983	337,727		N8768	1983	131,124	
N8457	1984	179,226		N8576	1984	341,677		N8768	1984	127,025	
N8474	1980	198,610		N8595	1980	100,369		N8776	1980	274,445	
N8474	1981	207,767		N8595	1981	156,769		N8776	1981	292,586	
N8474	1982	273,607		N8595	1982	169,395		N8776	1982	296,564	
N8474	1983	183,416		N8595	1983	218,638		N8776	1983	318,986	
N8474	1984	218,243		N8595	1984	136,551		N8776	1984	315,615	
N8475	1980	290,698		N8603	1980	849,920		N8778	1980	441,230	
N8475	1981	225,774		N8603	1981	778,160		N8778	1981	228,447	
N8475	1982	299,475		N8603	1982	811,960		N8778	1982	214,866	

Table 2B. Public-supply pumpage in Kings, Queens, and Nassau Counties, N.Y., 1898-1984--continued

Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks	Well number	Year	Pumpage	Remarks
N8778	1983	154,499		N9151	1980	330,000	E	N9452	1983	27,718	
N8778	1984	233,541		N9151	1981	245,300	E	N9452	1984	56,804	
N8779	1980	149,492		N9151	1982	288,300	E	N9463	1981	447,744	
N8779	1981	114,617		N9151	1983	285,850	E	N9463	1982	675,911	
N8779	1982	169,614		N9151	1984	240,450	E	N9463	1983	610,393	
N8779	1983	172,555		N9173	1980	542,251		N9463	1984	526,920	
N8779	1984	156,238		N9173	1981	172,140		N9488	1981	165,112	
N8818	1980	179,057		N9173	1982	521,867		N9488	1982	274,534	
N8818	1981	255,376		N9173	1983	186,556		N9488	1983	452,388	
N8818	1982	245,193		N9173	1984	94,878		N9488	1984	624,775	
N8818	1983	243,593		N9180	1980	408,397		N9514	1980	275,380	
N8818	1984	217,349		N9180	1981	398,093		N9514	1981	602,580	
N8837	1980	391,030		N9180	1982	276,669		N9514	1982	913,570	
N8837	1981	143,100		N9180	1983	437,751		N9514	1983	859,340	
N8837	1982	80,390		N9180	1984	573,888		N9514	1984	453,360	
N8837	1983	44,750		N9210	1980	371,065		N9520	1981	72,517	
N8837	1984	32,060		N9210	1981	262,314		N9520	1982	99,400	
N8941	1980	121,747		N9210	1982	286,719		N9520	1983	115,375	
N8941	1981	95,188		N9210	1983	265,219		N9520	1984	88,462	
N8941	1983	212,294		N9210	1984	267,907		N9521	1981	191,868	
N8941	1984	403,151		N9211	1980	373,754		N9521	1982	308,595	
N8956	1980	162,695		N9211	1981	344,252		N9521	1983	224,388	
N8956	1981	134,325		N9211	1982	290,073		N9521	1984	191,570	
N8956	1982	261,947		N9211	1983	269,881		N9591	1983	406,771	
N8956	1983	379,231		N9211	1984	271,473		N9591	1984	100,898	
N8956	1984	208,319		N9212	1980	251,105		N9613	1981	95,482	
N8957	1980	388,433		N9212	1981	365,726		N9613	1982	145,214	
N8957	1981	126,671		N9212	1982	427,038		N9613	1983	161,494	
N8957	1982	305,943		N9212	1983	402,920		N9613	1984	94,002	
N8957	1983	266,950		N9212	1984	323,296		N9768	1982	281,980	
N8957	1984	302,077		N9308	1981	68,675		N9768	1983	386,874	
N8976	1980	439,970		N9308	1982	15,643		N9768	1984	319,055	
N8976	1981	477,710		N9308	1983	99,359		N9792	1982	134,116	
N8976	1982	689,110		N9308	1984	45,964		N9792	1983	170,542	
N8976	1983	362,720		N9334	1980	280,757		N9792	1984	171,026	
N8976	1984	323,170		N9334	1981	570,594		N9809	1984	154,970	
N8979	1980	91,703		N9334	1982	511,041		N9846	1983	153,548	
N8979	1981	27,037		N9334	1983	622,480		N9846	1984	366,438	
N8979	1982	38,999		N9334	1984	682,467		N9878	1982	192,490	
N8979	1983	86,018		N9338	1980	259,440		N9878	1983	493,280	
N8979	1984	41,999		N9338	1981	125,340		N9878	1984	565,000	
N9151	1974	403,550	E	N9338	1982	325,230		N9910	1983	428,360	
N9151	1975	320,850	E	N9338	1983	690,920		N9910	1984	553,920	
N9151	1976	257,600	E	N9338	1984	1,000,990		N9976	1983	129,950	
N9151	1977	224,700	E	N9446	1983	6,418		N9976	1984	203,870	
N9151	1978	373,400	E	N9452	1981	25,781		N10033	1984	37,310	
N9151	1979	338,300	E	N9452	1982	50,684		N10144	1984	2,201	

Table 3. Annual public-supply pumpage totals in Kings, Queens, and Nassau Counties, N.Y., 1920-95, by aquifer and county

[Values are in thousands of gallons. Numbers in parentheses () indicate the number of wells]

Year	Aquifer	County			Year	Aquifer	County		
		Kings	Queens	Nassau			Kings	Queens	Nassau
1920	Upper glacial	4,878,969 (2)	3,314,216 (4)	1,866,590 (15)	1925	Upper glacial	6,707,146 (10)	6,397,192 (15)	4,135,716 (21)
	Jameco	0	0	0		Jameco	0	230,700 (1)	276,860 (1)
	Magothy	0	0	199,443 (3)		Magothy	0	0	582,759 (6)
	Port Washington	0	0	13,781 (1)		Port Washington	0	0	58,300 (2)
	Lloyd	0	0	250,200 (2)		Lloyd	0	0	534,359 (3)
	Unknown	0	0	0		Unknown	0	0	0
1921	Upper glacial	5,124,543 (3)	3,219,039 (5)	2,034,567 (17)	1926	Upper glacial	7,330,786 (12)	6,715,946 (16)	6,298,628 (26)
	Jameco	0	0	0		Jameco	0	439,014 (4)	348,429 (1)
	Magothy	0	0	227,752 (4)		Magothy	0	6,393 (1)	1,099,667 (8)
	Port Washington	0	0	14,819 (1)		Port Washington	0	0	150,212 (2)
	Lloyd	0	0	307,247 (2)		Lloyd	0	0	718,515 (3)
	Unknown	0	0	0		Unknown	0	0	0
1922	Upper glacial	5,510,188 (4)	3,593,202 (6)	2,233,861 (17)	1927	Upper glacial	7,690,444 (12)	6,756,832 (16)	4,294,900 (21)
	Jameco	0	0	0		Jameco	271,386 (1)	689,779 (4)	261,793 (1)
	Magothy	0	0	235,497 (4)		Magothy	0	0	1,662,820 (9)
	Port Washington	0	0	16,246 (1)		Port Washington	0	0	232,527 (3)
	Lloyd	0	0	373,889 (2)		Lloyd	0	0	906,543 (4)
	Unknown	0	0	0		Unknown	0	0	0
1923	Upper glacial	5,735,719 (5)	4,534,504 (7)	4,640,090 (20)	1928	Upper glacial	7,615,766 (12)	6,726,007 (16)	4,261,041 (23)
	Jameco	0	0	105,470 (1)		Jameco	303,167 (1)	1,032,946 (4)	205,853 (1)
	Magothy	0	0	518,374 (6)		Magothy	0	0	2,427,160 (12)
	Port Washington	0	0	17,681 (1)		Port Washington	0	0	228,148 (4)
	Lloyd	0	0	448,513 (3)		Lloyd	0	132,512 (1)	820,383 (4)
	Unknown	0	0	0		Unknown	0	0	0
1924	Upper glacial	6,174,961 (7)	5,843,126 (11)	4,799,928 (22)	1929	Upper glacial	7,745,496 (12)	7,071,165 (15)	5,215,468 (22)
	Jameco	0	0	158,639 (1)		Jameco	986,891 (3)	969,368 (4)	263,676 (1)
	Magothy	0	0	567,342 (6)		Magothy	0	114,328 (2)	3,912,837 (14)
	Port Washington	0	0	18,846 (1)		Port Washington	0	0	359,825 (4)
	Lloyd	0	0	492,495 (2)		Lloyd	190,936 (1)	439,369 (2)	1,374,022 (7)
	Unknown	0	0	0		Unknown	0	0	0

Table 3. Annual public-supply pumpage totals in Kings, Queens, and Nassau Counties, N.Y., 1920-95, by aquifer and county—continued

Year	County				County				
	Aquifer	Kings	Queens	Nassau	Year	Aquifer	Kings	Queens	Nassau
1930	Upper glacial	5,922,596 (12)	7,970,252 (17)	8,123,586 (28)	1935	Upper glacial	4,913,316 (15)	7,823,786 (24)	3,198,607 (28)
	Jameco	2,397,804 (5)	829,498 (4)	495,334 (1)		Jameco	4,525,392 (9)	709,019 (4)	107,354 (1)
	Magothy	0	299,907 (3)	4,874,865 (17)		Magothy	0	1,183,697 (6)	2,521,062 (32)
	Port Washington	0	0	402,467 (4)		Port Washington	0	0	371,832 (5)
	Lloyd	932,728 (1)	641,036 (3)	1,113,139 (8)		Lloyd	118,349 (1)	828,497 (3)	1,404,067 (12)
1931	Unknown	0	0	0	1936	Unknown	0	0	0
	Upper glacial	3,794,702 (11)	7,418,128 (18)	9,879,922 (29)		Upper glacial	5,172,784 (15)	10,664,769 (33)	2,714,487 (25)
	Jameco	3,991,365 (8)	694,480 (4)	566,903 (1)		Jameco	4,746,996 (9)	1,041,575 (7)	58,545 (1)
	Magothy	0	918,782 (5)	5,048,909 (19)		Magothy	0	986,233 (8)	2,792,069 (32)
	Port Washington	0	0	395,210 (5)		Port Washington	0	0	376,892 (5)
1932	Lloyd	1,104,541 (1)	686,524 (2)	1,260,452 (8)	1937	Lloyd	118,729 (1)	1,293,515 (3)	1,433,536 (13)
	Unknown	0	0	0		Unknown	0	0	0
	Upper glacial	3,231,502 (12)	8,091,496 (19)	5,668,400 (28)		Upper glacial	5,168,493 (15)	7,705,023 (25)	3,283,112 (29)
	Jameco	5,390,011 (8)	573,268 (4)	638,333 (1)		Jameco	4,894,689 (9)	705,384 (4)	1,820,147 (2)
	Magothy	0	1,279,052 (5)	5,095,685 (21)		Magothy	0	975,139 (7)	5,685,327 (40)
1933	Port Washington	0	0	436,097 (5)	1938	Port Washington	0	0	444,279 (5)
	Lloyd	567,014 (1)	601,626 (2)	1,218,434 (9)		Lloyd	138,218 (1)	1,567,481 (4)	1,536,279 (14)
	Unknown	0	0	0		Unknown	0	0	0
	Upper glacial	3,445,832 (12)	8,187,145 (20)	4,080,147 (26)		Upper glacial	5,045,722 (15)	8,051,732 (28)	3,316,378 (30)
	Jameco	5,443,050 (8)	763,413 (4)	212,824 (1)		Jameco	4,878,019 (9)	371,286 (4)	1,797,664 (2)
1934	Magothy	0	1,281,123 (6)	4,383,685 (21)	1939	Magothy	0	2,321,289 (9)	5,789,815 (42)
	Port Washington	0	0	419,287 (5)		Port Washington	0	0	396,756 (6)
	Lloyd	300,791 (1)	577,523 (3)	1,268,210 (10)		Lloyd	178,173 (1)	2,164,485 (4)	1,344,366 (15)
	Unknown	0	0	0		Unknown	0	0	0
	Upper glacial	4,151,101 (14)	7,959,400 (23)	3,084,204 (25)		Upper glacial	5,118,043 (15)	10,486,944 (31)	3,659,970 (33)
	Jameco	4,554,706 (9)	747,190 (4)	335,245 (1)		Jameco	4,480,923 (8)	335,380 (5)	2,173,475 (2)
	Magothy	0	1,385,358 (6)	2,323,220 (28)		Magothy	0	1,200,795 (6)	6,649,780 (44)
	Port Washington	0	0	292,388 (5)		Port Washington	0	0	481,143 (6)
	Lloyd	213,635 (1)	653,948 (2)	1,268,725 (11)		Lloyd	279,681 (1)	2,885,390 (5)	1,928,074 (15)
	Unknown	0	0	0		Unknown	0	0	0

Table 3. Annual public-supply pumpage totals in Kings, Queens, and Nassau Counties, N.Y., 1920-95, by aquifer and county—continued

Year	County				Year	County			
	Aquifer	Kings	Queens	Nassau		Aquifer	Kings	Queens	Nassau
1940	Upper glacial	4,660,982 (15)	9,703,792 (29)	5,543,699 (39)	1945	Upper glacial	7,750,323 (27)	6,281,485 (20)	4,520,247 (33)
	Jameco	4,393,874 (8)	260,587 (3)	1,919,953 (2)		Jameco	2,742,215 (7)	959,714 (4)	2,041,328 (1)
	Magothy	0	969,683 (6)	6,188,505 (44)		Magothy	0	1,460,198 (6)	6,808,826 (51)
	Port Washington	0	0	479,197 (6)		Port Washington	0	0	209,517 (5)
	Lloyd	197,043 (1)	2,288,105 (4)	1,543,341 (18)		Lloyd	57,165 (1)	2,110,685 (4)	2,748,060 (19)
1941	Unknown	0	0	0		Unknown	0	263,926 (1)	0
	Upper glacial	4,799,597 (17)	11,321,526 (32)	5,404,503 (40)	1946	Upper glacial	8,511,679 (28)	6,113,555 (19)	4,554,883 (32)
	Jameco	4,296,648 (8)	621,410 (4)	2,146,131 (2)		Jameco	2,431,850 (7)	931,305 (4)	2,319,195 (1)
	Magothy	0	1,927,049 (8)	6,515,000 (53)		Magothy	0	1,591,478 (6)	7,055,684 (50)
	Port Washington	0	0	453,571 (6)		Port Washington	0	0	301,727 (6)
1942	Lloyd	205,005 (1)	2,236,985 (4)	2,021,708 (20)		Lloyd	10,520 (1)	2,049,445 (4)	3,173,308 (23)
	Unknown	0	0	0		Unknown	0	1,049,734 (2)	0
	Upper glacial	4,714,836 (18)	9,762,314 (29)	7,147,892 (39)	1947	Upper glacial	4,387,620 (28)	6,164,171 (19)	6,860,399 (40)
	Jameco	4,319,240 (8)	817,717 (4)	1,985,614 (2)		Jameco	1,079,440 (6)	855,520 (4)	2,200,345 (1)
	Magothy	0	1,626,613 (7)	6,720,223 (52)		Magothy	0	1,628,371 (6)	7,890,085 (56)
1943	Port Washington	0	0	323,670 (6)		Port Washington	0	0	336,090 (6)
	Lloyd	52,330 (1)	2,194,230 (4)	1,542,421 (18)		Lloyd	0	2,143,855 (4)	3,102,254 (23)
	Unknown	0	0	0		Unknown	0	1,317,667 (2)	0
	Upper glacial	5,469,770 (22)	8,803,386 (30)	3,623,446 (34)	1948	Upper glacial	0	6,729,941 (20)	7,930,845 (45)
	Jameco	3,683,000 (8)	954,489 (4)	1,918,206 (1)		Jameco	0	1,062,150 (4)	2,200,735 (1)
1944	Magothy	0	1,375,262 (8)	6,360,360 (50)		Magothy	0	1,698,105 (6)	8,798,928 (61)
	Port Washington	0	0	378,609 (6)		Port Washington	0	0	398,256 (6)
	Lloyd	101,000 (1)	2,192,390 (4)	1,924,443 (17)		Lloyd	0	1,917,300 (4)	3,259,746 (22)
	Unknown	0	0	0		Unknown	0	1,192,463 (2)	0
	Upper glacial	7,440,492 (26)	9,557,011 (30)	5,542,738 (35)	1949	Upper glacial	0	6,736,121 (23)	10,310,719 (47)
	Jameco	3,113,405 (8)	1,173,638 (5)	2,038,825 (1)		Jameco	0	918,790 (3)	2,212,853 (1)
	Magothy	0	1,391,824 (7)	7,306,842 (51)		Magothy	0	1,808,718 (6)	10,608,676 (68)
	Port Washington	0	0	412,118 (6)		Port Washington	0	0	435,976 (6)
	Lloyd	86,610 (1)	3,021,366 (5)	2,381,804 (22)		Lloyd	0	2,093,890 (4)	3,783,262 (26)
	Unknown	0	0	0		Unknown	0	117,203 (3)	0

Table 3. Annual public-supply pumpage totals in Kings, Queens, and Nassau Counties, N.Y., 1920-95, by aquifer and county—continued

Year	Aquifer	County			Year	Aquifer	County		
		Kings	Queens	Nassau			Kings	Queens	Nassau
1950	Upper glacial	0	6,111,583 (24)	9,304,733 (51)	1955	Upper glacial	0	8,039,921 (32)	9,015,133 (50)
	Jameco	0	961,640 (4)	2,220,636 (2)		Jameco	0	830,600 (2)	752,470 (1)
	Magothy	0	1,577,913 (6)	10,205,071 (72)		Magothy	0	3,315,317 (14)	24,551,040 (144)
	Port Washington	0	0	221,137 (4)		Port Washington	0	0	445,119 (7)
	Lloyd	0	2,005,500 (4)	3,361,464 (28)		Lloyd	0	1,292,720 (4)	3,579,672 (26)
1951	Unknown	0	1,013,261 (3)	0	1956	Unknown	0	1,093,375 (3)	0
	Upper glacial	0	6,619,431 (26)	7,076,569 (38)		Upper glacial	0	8,725,251 (34)	7,529,261 (49)
	Jameco	0	869,780 (4)	1,124,133 (1)		Jameco	0	320,600 (2)	811,151 (1)
	Magothy	0	1,839,203 (8)	12,702,323 (84)		Magothy	0	3,278,493 (15)	23,599,346 (163)
	Port Washington	0	0	254,193 (4)		Port Washington	0	0	593,469 (7)
1952	Lloyd	0	1,961,960 (4)	4,084,431 (29)	1957	Lloyd	0	1,745,910 (4)	3,248,822 (28)
	Unknown	0	912,068 (2)	0		Unknown	0	1,052,347 (3)	0
	Upper glacial	0	6,334,569 (28)	7,377,261 (42)		Upper glacial	0	8,715,659 (35)	9,334,965 (63)
	Jameco	0	838,900 (2)	1,048,892 (1)		Jameco	0	510,300 (2)	737,548 (1)
	Magothy	0	1,682,441 (9)	14,400,885 (97)		Magothy	0	3,880,190 (15)	31,267,870 (185)
1953	Port Washington	0	0	245,063 (4)	1958	Port Washington	0	0	721,641 (6)
	Lloyd	0	1,983,915 (4)	4,552,995 (27)		Lloyd	0	1,739,090 (4)	3,848,696 (30)
	Unknown	0	1,160,118 (3)	0		Unknown	0	1,016,850 (2)	0
	Upper glacial	0	7,644,931 (28)	8,754,776 (53)		Upper glacial	0	8,497,190 (36)	6,981,507 (61)
	Jameco	0	752,900 (2)	863,780 (1)		Jameco	0	851,400 (2)	743,484 (2)
1954	Magothy	0	2,068,825 (8)	18,678,230 (106)	1959	Magothy	0	3,581,278 (14)	28,047,778 (195)
	Port Washington	0	0	395,203 (5)		Port Washington	0	0	938,465 (5)
	Lloyd	0	1,799,425 (4)	4,252,492 (28)		Lloyd	0	1,513,850 (4)	3,280,136 (28)
	Unknown	0	1,038,619 (3)	0		Unknown	0	925,640 (2)	0
	Upper glacial	0	8,008,185 (31)	12,895,567 (59)		Upper glacial	0	9,501,658 (36)	6,294,763 (49)
	Jameco	0	820,800 (2)	1,018,055 (2)		Jameco	0	794,500 (2)	1,579,504 (1)
	Magothy	0	2,551,360 (13)	21,131,831 (127)		Magothy	0	4,532,760 (17)	33,335,180 (196)
	Port Washington	0	0	352,165 (5)		Port Washington	0	0	804,793 (5)
	Lloyd	0	1,440,300 (4)	4,243,796 (29)		Lloyd	0	1,393,110 (4)	3,777,581 (30)
	Unknown	0	984,592 (3)	0		Unknown	0	833,532 (2)	0

Table 3. Annual public-supply pumpage totals in Kings, Queens, and Nassau Counties, N.Y., 1920-95, by aquifer and county—continued

Year	County				County				
	Aquifer	Kings	Queens	Nassau	Year	Aquifer	Kings	Queens	Nassau
1960	Upper glacial	0	8,567,538 (36)	6,059,275 (49)	1965	Upper glacial	0	7,749,155 (39)	5,528,822 (49)
	Jameco	0	935,800 (2)	1,616,582 (1)		Jameco	0	825,900 (2)	1,774,672 (1)
	Magothy	0	5,643,310 (18)	33,141,224 (201)		Magothy	0	9,178,620 (28)	47,309,352 (236)
	Port Washington	0	0	664,130 (6)		Port Washington	0	0	946,103 (5)
	Lloyd	0	1,502,760 (4)	3,890,408 (30)		Lloyd	0	1,563,060 (4)	4,997,427 (34)
1961	Unknown	0	699,634 (2)	0	1966	Unknown	0	781,404 (2)	0
	Upper glacial	0	8,480,809 (37)	5,746,789 (49)		Upper glacial	0	8,107,271 (39)	5,643,100 (48)
	Jameco	0	866,100 (2)	1,779,032 (1)		Jameco	0	984,100 (2)	1,732,360 (1)
	Magothy	0	6,317,970 (18)	34,458,470 (204)		Magothy	0	8,850,070 (28)	49,108,026 (241)
	Port Washington	0	0	651,707 (6)		Port Washington	0	0	785,305 (5)
1962	Lloyd	0	1,265,700 (4)	4,157,387 (30)	1967	Lloyd	0	1,492,040 (4)	5,419,592 (34)
	Unknown	0	777,642 (2)	0		Unknown	0	836,990 (3)	0
	Upper glacial	0	9,375,968 (38)	6,398,963 (50)		Upper glacial	0	7,860,971 (39)	4,548,349 (43)
	Jameco	0	928,800 (2)	1,780,581 (1)		Jameco	0	1,007,800 (2)	1,601,447 (1)
	Magothy	0	7,099,700 (19)	39,326,231 (212)		Magothy	0	8,590,040 (29)	44,037,963 (250)
1963	Port Washington	0	0	516,091 (6)	1968	Port Washington	0	0	485,306 (5)
	Lloyd	0	1,372,160 (4)	4,849,235 (31)		Lloyd	0	1,701,360 (4)	4,706,514 (33)
	Unknown	0	882,264 (3)	0		Unknown	0	807,606 (3)	0
	Upper glacial	0	9,130,202 (38)	6,375,705 (51)		Upper glacial	0	9,112,817 (39)	4,878,512 (45)
	Jameco	0	791,900 (2)	1,844,934 (1)		Jameco	0	953,000 (2)	1,764,609 (1)
1964	Magothy	0	7,742,380 (25)	41,834,097 (214)	1969	Magothy	0	9,384,700 (29)	50,075,523 (259)
	Port Washington	0	0	635,631 (6)		Port Washington	0	0	653,677 (5)
	Lloyd	0	1,555,360 (4)	4,421,578 (32)		Lloyd	0	1,553,510 (4)	5,380,659 (34)
	Unknown	0	866,153 (3)	0		Unknown	0	810,638 (3)	0
	Upper glacial	0	9,003,989 (38)	6,545,789 (49)		Upper glacial	0	9,246,738 (39)	4,631,031 (46)
	Jameco	0	838,500 (2)	1,999,012 (1)		Jameco	0	900,100 (2)	1,657,726 (1)
	Magothy	0	8,050,550 (25)	45,392,797 (223)		Magothy	0	9,453,780 (29)	48,881,050 (263)
	Port Washington	0	0	810,520 (7)		Port Washington	0	0	708,111 (5)
	Lloyd	0	1,490,010 (4)	4,904,061 (32)		Lloyd	0	1,781,190 (4)	5,243,160 (33)
	Unknown	0	872,452 (3)	0		Unknown	0	842,643 (3)	0

Table 3. Annual public-supply pumpage totals in Kings, Queens, and Nassau Counties, N.Y., 1920-95, by aquifer and county—continued

Year	County				County				
	Aquifer	Kings	Queens	Nassau	Year	Aquifer	Kings	Queens	Nassau
1970	Upper glacial	0	8,624,388 (39)	4,891,478 (45)	1975	Upper glacial	0	5,050,219 (34)	3,831,039 (43)
	Jameco	0	1,041,300 (2)	1,761,056 (1)		Jameco	0	946,700 (2)	1,891,705 (1)
	Magothy	0	10,642,590 (29)	52,652,338 (260)		Magothy	0	12,887,630 (32)	51,734,927 (274)
	Port Washington	0	0	771,576 (5)		Port Washington	0	0	542,658 (4)
	Lloyd	0	2,262,690 (4)	5,680,680 (33)		Lloyd	0	1,763,200 (3)	4,966,454 (30)
1971	Unknown	0	842,643 (3)	0	1976	Unknown	0	0	0
	Upper glacial	0	8,379,067 (39)	4,723,790 (44)		Upper glacial	0	5,014,139 (34)	4,365,364 (39)
	Jameco	0	1,001,200 (2)	1,628,195 (1)		Jameco	0	911,900 (2)	1,521,335 (1)
	Magothy	0	12,103,550 (29)	53,766,010 (267)		Magothy	0	14,442,840 (32)	55,557,165 (272)
	Port Washington	0	0	651,631 (5)		Port Washington	0	0	978,345 (4)
1972	Lloyd	0	2,160,900 (4)	6,355,470 (33)	1977	Lloyd	0	1,941,900 (3)	4,848,898 (28)
	Unknown	0	1,014,221 (3)	0		Unknown	0	0	0
	Upper glacial	0	7,244,255 (38)	4,092,681 (41)		Upper glacial	0	4,876,861 (33)	4,157,500 (41)
	Jameco	0	967,600 (2)	1,426,215 (1)		Jameco	0	785,300 (2)	1,794,702 (1)
	Magothy	0	12,709,010 (30)	50,518,067 (268)		Magothy	0	14,193,980 (31)	55,018,168 (272)
1973	Port Washington	0	0	752,022 (5)	1978	Port Washington	0	0	754,235 (4)
	Lloyd	0	1,770,300 (4)	5,512,759 (34)		Lloyd	0	2,088,100 (4)	4,882,459 (30)
	Unknown	0	770,699 (3)	0		Unknown	0	0	0
	Upper glacial	0	6,425,660 (36)	4,116,179 (43)		Upper glacial	0	5,472,215 (32)	3,064,799 (34)
	Jameco	0	926,300 (2)	1,499,523 (1)		Jameco	0	843,700 (2)	1,679,949 (1)
1974	Magothy	0	12,597,970 (31)	52,852,374 (272)	1979	Magothy	0	14,154,380 (32)	56,367,209 (271)
	Port Washington	0	0	856,674 (5)		Port Washington	0	0	573,085 (4)
	Lloyd	0	2,419,100 (4)	4,385,736 (33)		Lloyd	0	2,055,400 (4)	3,501,544 (31)
	Unknown	0	598,555 (2)	0		Unknown	0	0	0
	Upper glacial	0	5,249,921 (40)	4,374,148 (42)		Upper glacial	0	5,278,609 (31)	2,646,340 (34)
	Jameco	0	739,800 (2)	1,449,406 (1)		Jameco	0	833,900 (2)	1,680,687 (1)
	Magothy	0	13,355,110 (31)	55,017,238 (276)		Magothy	0	14,006,550 (32)	55,240,034 (268)
	Port Washington	0	0	817,214 (4)		Port Washington	0	0	535,977 (4)
	Lloyd	0	2,044,300 (4)	4,658,191 (32)		Lloyd	0	2,100,700 (4)	4,683,488 (28)
	Unknown	0	110,885 (2)	0		Unknown	0	0	0

Table 3. Annual public-supply pumpage totals in Kings, Queens, and Nassau Counties, N.Y., 1920-95, by aquifer and county—continued

Year	Aquifer	County			Year	Aquifer	County		
		Kings	Queens	Nassau			Kings	Queens	Nassau
1980	Upper glacial	0	5,075,587 (32)	3,232,064 (34)	1985	Upper glacial	0	3,719,910 (16)	3,711,031 (34)
	Jameco	0	570,700 (2)	0		Jameco	0	1,458,800 (2)	1,736,281 (1)
	Magothy	0	14,609,700 (33)	60,939,070 (276)		Magothy	0	12,182,700 (32)	57,798,446 (264)
	Port Washington	0	0	441,870 (2)		Port Washington	0	0	189,514 (2)
	Lloyd	0	2,540,700 (4)	4,598,483 (32)		Lloyd	0	1,073,600 (4)	4,632,535 (27)
	Unknown	0	0	0		Unknown	0	0	0
1981	Upper glacial	0	5,496,410 (31)	2,941,753 (51)	1986	Upper glacial	0	3,897,210 (20)	3,726,812 (33)
	Jameco	0	724,800 (2)	0		Jameco	0	284,000 (2)	1,594,202 (1)
	Magothy	0	14,179,000 (33)	56,096,342 (280)		Magothy	0	7,593,300 (26)	62,192,279 (269)
	Port Washington	0	0	358,241 (3)		Port Washington	0	0	218,789 (4)
	Lloyd	0	2,317,000 (4)	4,131,068 (35)		Lloyd	0	520,000 (3)	5,018,977 (31)
	Unknown	0	0	0		Unknown	0	0	0
1982	Upper glacial	0	6,135,194 (30)	2,604,978 (51)	1987	Upper glacial	0	2,790,800 (15)	2,555,004 (28)
	Jameco	0	682,000 (2)	0		Jameco	0	156,600 (1)	1,447,481 (1)
	Magothy	0	14,760,750 (33)	56,826,088 (276)		Magothy	0	5,355,600 (25)	58,702,025 (273)
	Port Washington	0	0	264,945 (4)		Port Washington	0	0	202,225 (3)
	Lloyd	0	2,560,400 (4)	4,453,267 (32)		Lloyd	0	170,700 (3)	4,670,946 (31)
	Unknown	0	0	0		Unknown	0	0	0
1983	Upper glacial	0	3,941,120 (22)	3,171,703 (52)	1988	Upper glacial	0	2,993,030 (15)	2,692,249 (28)
	Jameco	0	868,600 (2)	0		Jameco	0	99,400 (1)	1,542,292 (1)
	Magothy	0	13,758,100 (31)	60,800,334 (276)		Magothy	0	7,067,000 (23)	59,597,585 (268)
	Port Washington	0	0	434,728 (5)		Port Washington	0	0	253,550 (3)
	Lloyd	0	2,140,500 (4)	4,998,975 (34)		Lloyd	0	94,100 (3)	4,755,307 (31)
	Unknown	0	0	0		Unknown	0	0	0
1984	Upper glacial	0	3,630,580 (18)	3,344,774 (50)	1989	Upper glacial	0	2,940,340 (19)	3,040,369 (26)
	Jameco	0	846,700 (2)	0		Jameco	0	20,300 (1)	307,970 (1)
	Magothy	0	12,642,000 (28)	57,201,625 (271)		Magothy	0	4,984,700 (23)	53,144,161 (261)
	Port Washington	0	0	168,453 (4)		Port Washington	0	0	196,142 (3)
	Lloyd	0	1,915,000 (4)	4,812,385 (34)		Lloyd	0	440,400 (1)	4,395,090 (26)
	Unknown	0	0	0		Unknown	0	0	0

Table 3. Annual public-supply pumpage totals in Kings, Queens, and Nassau Counties, N.Y., 1920-95, by aquifer and county—continued

Year	County					County				
	Aquifer	Kings	Queens	Nassau	Year	Aquifer	Kings	Queens	Nassau	
1990	Upper glacial	0	2,931,600 (13)	2,877,849 (27)	1993	Upper glacial	0	3,191,800 (15)	2,752,222 (26)	
	Jameco	0	20,000 (1)	519,240 (1)		Jameco	0	0	1,101,697 (1)	
	Magothy	0	4,723,900 (19)	53,741,757 (260)	1994	Magothy	0	5,048,700 (22)	60,652,776 (268)	
	Port Washington	0	0	203,497 (2)		Port Washington	0	0	235,482 (3)	
	Lloyd	0	147,300 (1)	3,904,686 (28)		Lloyd	0	0	3,995,185 (27)	
1991	Unknown	0	0	0	1995	Unknown	0	0	0	
	Upper glacial	0	3,494,300 (15)	2,807,837 (25)		Upper glacial	0	2,732,700 (13)	2,339,762 (22)	
	Jameco	0	36,800 (1)	1,199,383 (1)		Jameco	0	107,400 (1)	1,030,725 (1)	
	Magothy	0	5,335,700 (21)	58,567,405 (270)		Magothy	0	5,471,700 (18)	60,519,715 (265)	
	Port Washington	0	0	224,627 (3)		Port Washington	0	0	173,787 (3)	
1992	Lloyd	0	53,700 (3)	4,139,978 (30)	1995	Lloyd	0	20,900 (3)	4,180,238 (31)	
	Unknown	0	0	0		Unknown	0	0	0	
	Upper glacial	0	2,996,400 (12)	2,826,825 (27)		Upper glacial	0	1,896,600 (11)	2,420,603 (22)	
	Jameco	0	29,000 (1)	1,121,029 (1)		Jameco	0	164,600 (1)	1,209,177 (1)	
	Magothy	0	4,680,300 (18)	54,894,098 (268)		Magothy	0	4,108,400 (18)	60,530,166 (262)	
	Port Washington	0	0	218,859 (3)		Port Washington	0	0	204,613 (3)	
	Lloyd	0	5,700 (1)	3,593,675 (31)		Lloyd	0	17,600 (1)	4,230,538 (32)	
	Unknown	0	0	0		Unknown	0	0	0	

Table 4. Maximum, minimum, and mean annual pumpage in Kings, Queens, and Nassau Counties, N.Y., 1920-95, by county and aquifer
[Values are in millions of gallons]

County	Aquifer	Maximum		Minimum		Mean pumpage ¹
		Year	Pumpage	Year	Pumpage ¹	
Kings	Upper glacial	1946	8,512	1932	3,232	5,650
	Jameco	1933	5,443	1927	271	3,473
	Lloyd	1931	1,105	1946	11	270
Queens	Upper glacial	1941	11,322	1987	1,897	6,632
	Jameco	1985	1,459	1990	20	719
	Magothy	1982	14,761	1926	6	5,936
	Lloyd	1944	3,021	1992	6	1,515
Nassau	Upper glacial	1954	12,896	1920	1,867	4,953
	Jameco	1946	2,319	1936	59	1,300
	Magothy	1986	62,192	1920	199	29,648
	Port Washington	1976	978	1920	14	420
	Lloyd	1971	6,355	1920	250	3,311

¹ Values in this column do not include years of nonpumping