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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Average daily withdrawals of water for public supply from
Kings, Queens, and Nassau Counties in Long Island, N. Y.,
from 1904 through 1953.

By

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In cooperation with the
NEW YORK STATE WATER POWER AND CONTROL COMMISSION
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS
SUFFOLK COUNTY BOARD OF SUPERVISORS
and the
SUFFOLK COUNTY WATER AUTHORITY

Mineola, New York
July 1954

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The U. S. Geological Survey in cooperation with the New York State Water Power and Control Commission, the Nassau County Department of Public Works, the Suffolk County Board of Supervisors, and the Suffolk County Water Authority has been conducting continuing investigations since 1932 on the ground-water resources in Long Island, N. Y. One of the several phases of these studies is the collection and tabulation of data on the withdrawals by pumpage for public supply.

Previously information on pumpage for public supply from 1904 through 1949 was released for Kings, Queens, and Nassau Counties in Long Island, N. Y. At this time all available data through 1953 are listed in the attached table and plotted in figures 1 and 2. The pumpage figures for 1949 were revised slightly.

Records of pumpage for public supply by the many water districts, companies, and municipalities in Nassau County were furnished by the Nassau County Department of Public Works for the tabulation. Data on withdrawals of ground water and pond water by the City of New York were made available through the courtesy of the New York City Department of Water Supply, Gas and Electricity; the withdrawals by the City from Queens and Nassau Counties are figures adjusted as in the past on the basis of metered records at the Wilburn and Ridgewood pumping stations. Information on withdrawals other than that by the City of New York were obtained from the two private water companies and from the New York State Water Power and Control Commission.

U. S. Geological Survey
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and with Nassau and Suffolk Counties

Summary of average daily withdrawal of water for public supply in Kings, Queens, and Nassau Counties, New York,
by New York City and other systems, in million gallons

Year	Ground water												Pond Water New York City	Total
	Kings County			Queens County			Nassau County			Kings, Queens, and Nassau Counties				
	N.Y. City system	Other systems	Total	N.Y. City system	Other systems	Total	N.Y. City system	Other systems	Total	N.Y. City system	Other systems	Total		
1904	8.83	5.9	14.73	15.79	12.24	28.03	5.07	4.0	9.07	29.69	22.14	51.83	83.74	135.57
1905	9.07	6.9	15.97	20.50	12.35	32.85	15.44	4.2	19.64	45.01	23.93	68.94	76.32	145.26
1906	10.00	9.9	19.90	26.71	12.68	39.39	28.42	4.7	33.12	65.13	27.28	92.41	62.61	155.02
1907	11.85	10.8	22.65	37.17	14.19	51.36	28.60	5.1	33.70	77.62	30.09	107.71	57.69	165.40
1908	14.05	13.0	27.05	43.00	14.94	57.94	34.05	5.4	39.45	91.68	33.24	124.92	50.46	175.38
1909	16.47	14.3	32.77	39.20	14.98	54.18	39.50	6.0	45.50	97.17	35.28	132.45	40.28	172.68
1910	17.40	15.1	32.50	45.79	17.65	63.42	44.78	6.2	50.98	107.97	38.93	146.90	34.70	181.60
1911	16.73	14.9	31.63	44.98	19.68	64.66	51.55	6.8	58.35	113.26	41.38	154.64	29.43	184.07
1912	14.56	15.5	30.06	38.27	19.24	57.51	46.20	7.3	53.50	99.03	42.04	141.07	47.63	188.70
1913	12.05	16.0	28.05	32.72	19.21	51.93	49.50	7.6	57.10	94.27	42.91	137.08	38.03	175.11
1914	12.41	15.9	28.31	42.15	16.54	58.69	51.75	8.0	59.75	106.51	40.24	146.55	40.13	186.68
1915	12.29	16.0	28.29	36.73	15.70	52.43	53.45	8.5	61.93	102.45	40.20	142.65	38.92	181.57
1916	14.68	13.82	31.50	38.56	17.94	56.50	54.62	8.7	63.32	107.95	43.46	151.32	37.80	189.12
1917	2.02	15.09	17.11	7.09	17.31	24.40	11.90	9.4	21.30	21.01	41.80	62.81	1.09	63.90
1918	0	13.18	13.18	0.05	19.82	19.87	0	9.8	9.8	0.05	42.80	42.85	0	42.85
1919	0.31	13.02	13.33	0.23	19.54	19.77	2.54	10.4	12.94	3.08	42.96	46.04	0	46.04
1920	0.37	13.33	13.70	0	22.11	22.11	1.48	10.6	12.08	1.85	46.04	47.89	0	47.89
1921	0.85	14.04	14.89	4.35	21.97	26.32	20.27	11.4	31.67	25.45	47.41	72.86	0	72.86
1922	0.19	15.10	15.29	7.35	15.12	22.47	25.70	12.2	37.90	33.24	42.42	75.66	3.54	79.20
1923	2.35	15.71	18.06	32.76	13.93	46.69	40.90	13.9	54.80	76.01	43.54	119.55	3.02	122.57
1924	1.23	16.87	18.10	31.04	17.46	48.50	26.20	18.0	42.20	58.47	50.33	108.80	4.35	113.15
1925	0	18.58	18.58	17.56	19.95	37.51	18.76	18.9	37.66	36.32	57.23	93.55	0	93.55
1926	2.87	20.08	22.95	21.50	20.51	42.01	32.94	22.6	55.54	57.51	68.49	120.80	6.96	127.76
1927	0	21.54	21.54	11.74	21.42	33.16	11.50	24.4	35.70	23.04	67.56	90.40	13.90	104.30
1928	0	22.01	22.01	13.35	22.58	35.73	11.75	25.2	36.95	25.10	69.59	94.69	9.12	103.81
1929	0	24.45	24.45	16.51	24.71	40.82	27.40	32.5	59.90	43.91	61.26	125.17	17.12	142.29
1930	0.51	25.35	25.86	22.02	27.42	49.44	39.59	34.40	73.79	61.92	87.17	149.09	17.01	166.10
1931	4.80	24.36	29.16	27.01	27.24	54.25	42.99	33.21	76.20	74.80	84.81	159.61	13.34	172.95
1932	0.07	25.11	25.18	26.16	29.39	55.55	25.59	32.03	57.62	51.82	86.53	138.35	11.01	149.36
1933	0.01	25.18	25.19	18.95	30.15	49.10	15.45	29.8	45.25	29.41	85.13	114.54	12.57	127.11
1934	0	24.44	24.44	16.91	30.07	46.98	24.87	31.70	56.57	41.78	86.21	127.99	16.22	144.21
1935	0	26.18	26.18	20.66	29.33	49.99	25.01	32.97	57.98	45.67	88.48	134.15	15.49	149.64

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Year	Ground water												Pond water New York City	Total
	Kings County			Queens County			Nassau County			Kings, Queens, and Nassau Counties				
	N.Y. City System	Other systems	Total	N.Y. City system	Other systems	Total	N.Y. City system	Other systems	Total	N.Y. City system	Other systems	Total		
1936	0	27.45	27.45	22.55	30.30	52.85	26.52	34.70	61.22	49.05	92.43	141.48	20.02	161.50
1937	0	27.95	27.95	14.51	30.13	44.64	19.82	32.78	52.60	34.33	90.36	125.19	21.56	146.75
1938	0	27.68	27.68	7.51	30.85	38.36	17.75	31.94	49.69	25.26	90.47	115.73	24.37	140.10
1939	0	27.08	27.08	10.13	34.24	44.37	26.72	38.36	65.08	38.85	99.68	136.53	26.54	163.07
1940	0	25.23	25.23	8.98	31.35	40.34	26.10	35.67	61.77	35.08	92.81	127.89	27.83	155.72
1941	0.14	25.48	25.62	6.87	34.37	41.24	22.74	38.29	61.03	29.75	98.14	127.89	23.63	151.52
1942	0.9	24.6	25.5	13.1	32.5	45.6	31.3	36.7	68.0	45.3	93.8	139.1	28.5	167.6
1943	0	25.1	25.1	1.6	34.9	36.5	3.8	37.8	41.6	5.4	97.8	103.2	13.5	116.5
1944	0	26.88	26.88	4.02	36.58	40.60	21.24	42.93	64.17	25.23	106.39	131.65	16.88	148.53
1945	0	26.64	26.64	2.45	36.64	39.09	7.77	41.29	49.06	10.22	104.57	114.79	4.01	118.80
1946	0	27.74	27.74	.94	38.57	39.51	14.30	45.18	59.78	15.54	111.49	127.03	9.32	136.35
1947	0	13.37	13.37	8.72	39.22	47.94	24.41	48.43	72.84	33.13	101.02	134.15	11.10	145.25
1948	0	0	0	8.39	39.41	47.80	17.46	52.40	69.86	25.85	91.81	117.66	17.87	135.53
1949	0	0	0	10.88	40.69	51.57	28.75	61.11	89.85	39.63	101.80	141.43	14.97	156.40
1950	0	0	0	12.79	37.47	50.26	21.59	59.29	79.87	34.33	95.75	130.13	15.76	145.89
1951	0	0	0	4.85	38.15	42.99	0	69.56	69.56	4.25	107.71	111.96	0	111.96
1952	0	0	0	2.28	39.91	42.19	0	76.14	76.14	2.28	116.95	119.33	0.52	119.85
1953	0	0	0	3.78	41.49	45.27	5.74	82.67	88.41	3.82	120.11	123.93	4.16	128.09

Note: After 1911, all pond water taken from Nassau County, whereas prior to and including this year, pond withdrawals made from Nassau and Queens Counties.

U. S. GEOLOGICAL SURVEY
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AND WITH NASSAU AND SUFFOLK COUNTIES

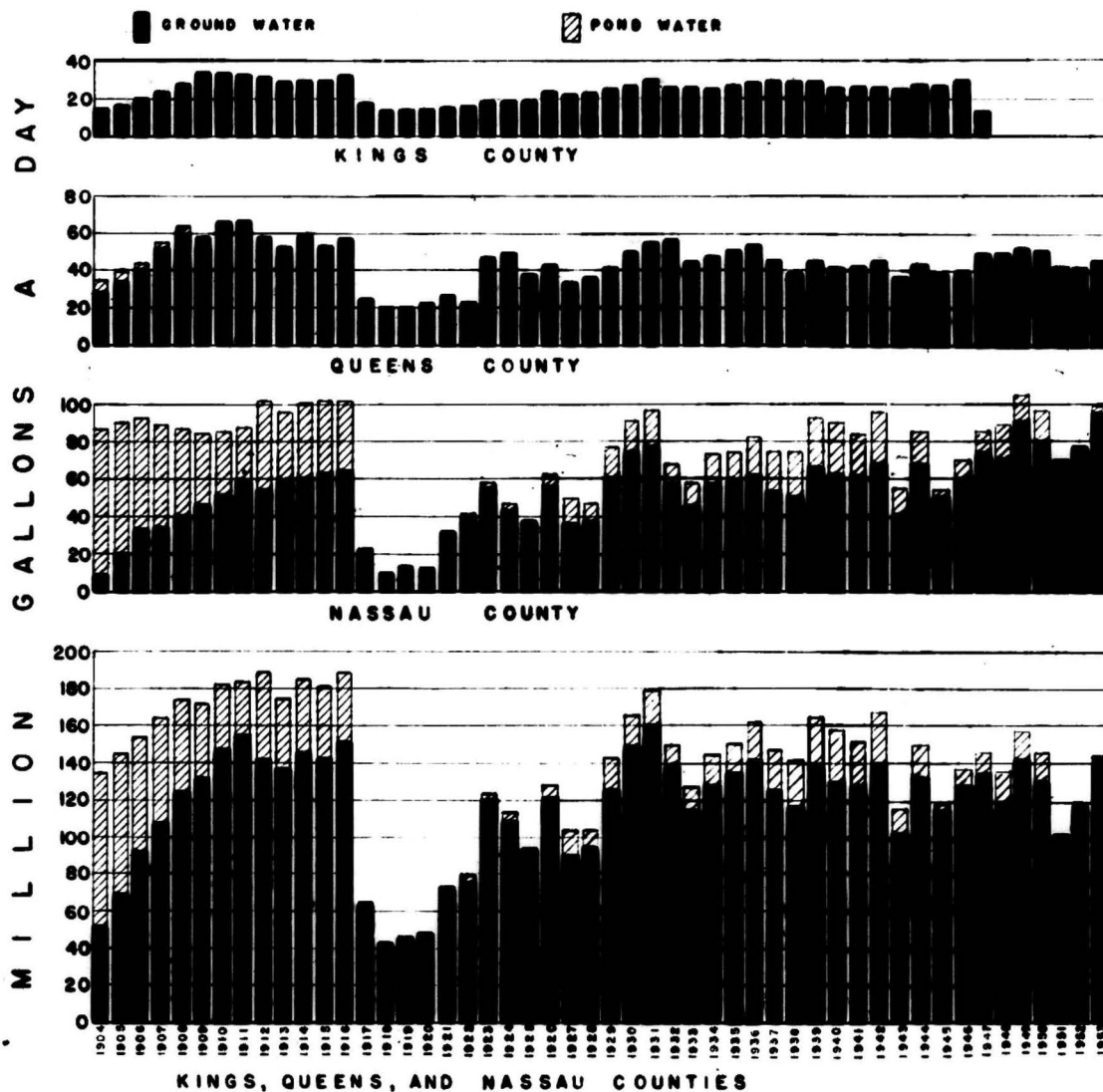


FIGURE 1—GRAPHS SHOWING AVERAGE DAILY
WITHDRAWAL OF WATER FOR PUBLIC SUPPLY
IN KINGS, QUEENS, AND NASSAU COUNTIES,
NEW YORK

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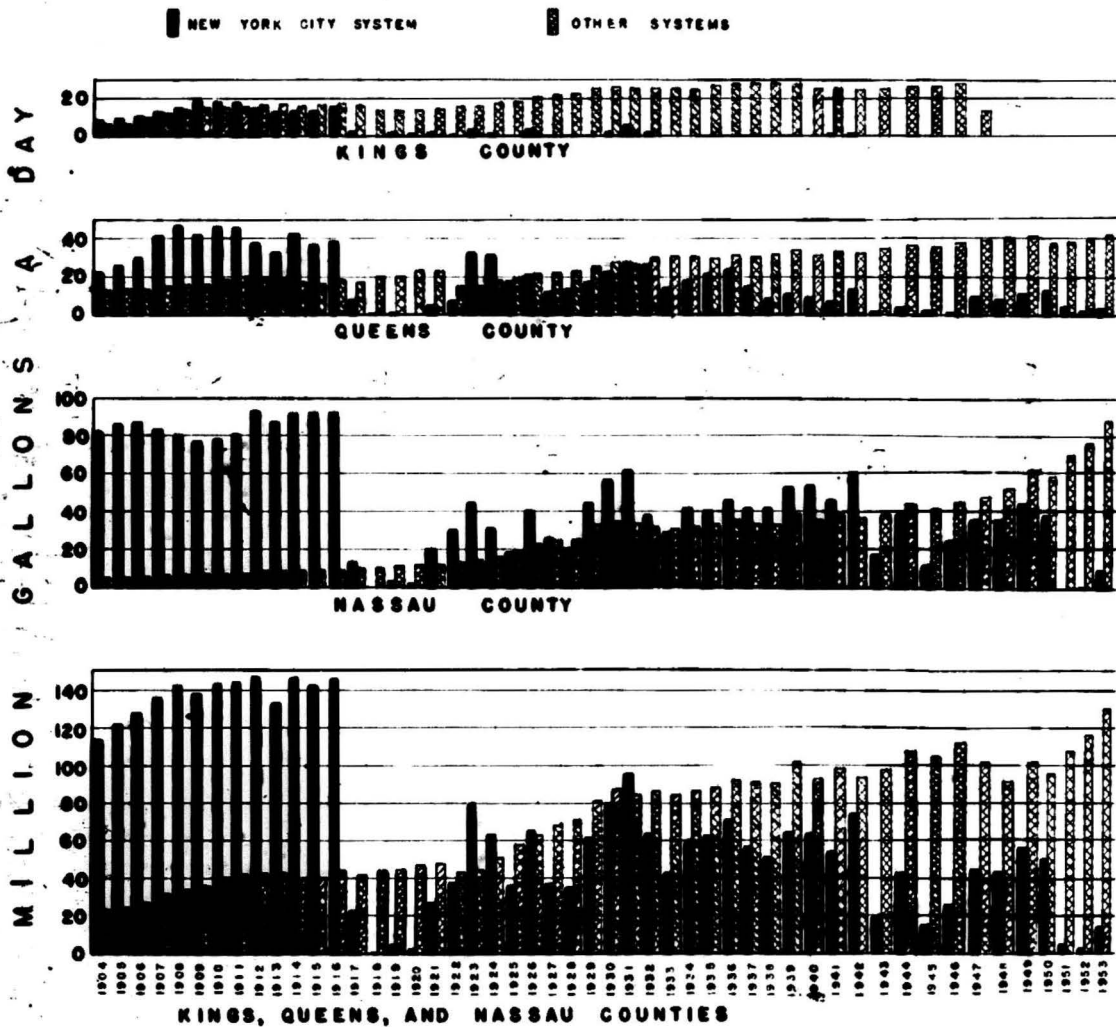


FIGURE 2.- GRAPHS SHOWING AVERAGE DAILY
WITHDRAWAL OF WATER FOR PUBLIC SUPPLY IN
KINGS, QUEENS, AND NASSAU COUNTIES, N.Y.,
BY NEW YORK CITY AND OTHER SYSTEMS