

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Average daily withdrawals of water for public supply in  
Kings, Queens, and Nassau Counties, New York

In cooperation with the

New York Water Power and Control Commission  
Nassau County Department of Public Works  
Suffolk County Board of Supervisors  
Suffolk County Water Authority

Mineola, New York  
August 1950  
50-59

**AVERAGE DAILY WITHDRAWALS OF WATER FOR PUBLIC SUPPLY IN  
KINGS, QUEENS, AND NASSAU COUNTIES, NEW YORK**

Since 1932 the United States Geological Survey in cooperation with the New York Water Power and Control Commission, the Nassau County Department of Public Works, the Suffolk County Water Authority, and the Suffolk County Board of Supervisors has conducted studies dealing with the occurrence, movement, quantity, quality, and temperature of ground water on Long Island. Also, as a part of these investigations, data on the withdrawals by pumpage for public water supply are assembled and analysed. Previously, pumpage records for periods from 1904 through 1946 have been released.

The attached tabular summary and graphs contain not only information made available in the past but also records for the period from 1947 through 1949. Pumpage data for period 1944 to 1946 inclusive have been revised slightly, whereas no changes have been made to records prior to 1944.

Records of water pumped for public supply and consumed in Nassau County were compiled by the Nassau County Department of Public Works. Records of withdrawals made by the City of New York in western Long Island for use within the city limits were furnished by the New York City Department of Water Supply, Gas, and Electricity. The remaining data were collected by the United States Geological Survey from the individual private water-supply companies.

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	12.83	33.33	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	14.03	13.0	27.03	43.60	14.84	58.44	34.05	5.4	39.45	91.68	33.24	124.92	50.46	175.38
1909	18.47	14.3	32.77	39.20	14.98	54.18	39.50	6.0	45.50	97.17	55.22	132.45	40.23	172.68
1910	17.40	15.1	32.50	45.79	17.63	63.42	44.78	6.2	50.98	107.97	58.93	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	41.58	154.64	29.43	184.07
1912	14.56	15.5	30.06	38.27	19.24	57.51	46.20	7.5	53.50	99.08	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	42.81	137.08	38.03	175.11
1914	12.41	15.9	28.31	42.15	16.34	58.49	51.75	8.0	59.75	106.31	40.24	146.55	40.13	186.68
1915	12.29	16.0	28.29	36.73	15.70	52.43	53.43	8.5	61.93	102.45	40.20	142.65	38.92	181.57
1916	14.68	16.82	31.50	38.56	17.94	56.50	54.62	8.7	63.32	107.86	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	0.83	14.04	14.87	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	45.54	119.55	3.02	122.57
1924	1.23	16.87	18.10	31.04	17.46	48.50	26.20	16.0	42.20	58.47	50.33	108.80	4.35	113.15
1925	0	18.38	18.38	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	20.81	42.31	32.94	22.6	55.54	57.31	63.49	120.80	6.96	127.76
1927	0	21.54	21.54	11.74	21.42	33.16	11.30	24.4	35.70	23.04	67.56	90.40	13.90	104.30
1928	0	22.01	22.01	13.35	22.38	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	24.51	40.82	27.40	32.5	59.90	43.91	81.26	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	19.34	178.95
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	13.95	30.15	44.10	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	88.46	134.15	15.49	149.64

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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		
1936	0	27.43	27.43	22.53	30.30	52.83	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	90.86	125.19	21.56	146.75
1938	0	27.68	27.68	7.51	30.85	38.36	17.75	31.94	49.69	25.28	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	36.85	99.68	136.53	26.54	163.07
1940	0	25.28	25.28	8.98	31.38	40.36	26.10	35.67	61.77	35.08	92.81	127.89	27.85	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	93.3	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	17.5	116.5
1944	0	26.88	26.88	4.02	36.58	40.60	21.24	42.93	64.17	25.26	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	15.37	15.37	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	43.69	54.57	28.75	61.11	89.85	39.55	104.80	144.43	14.97	159.40

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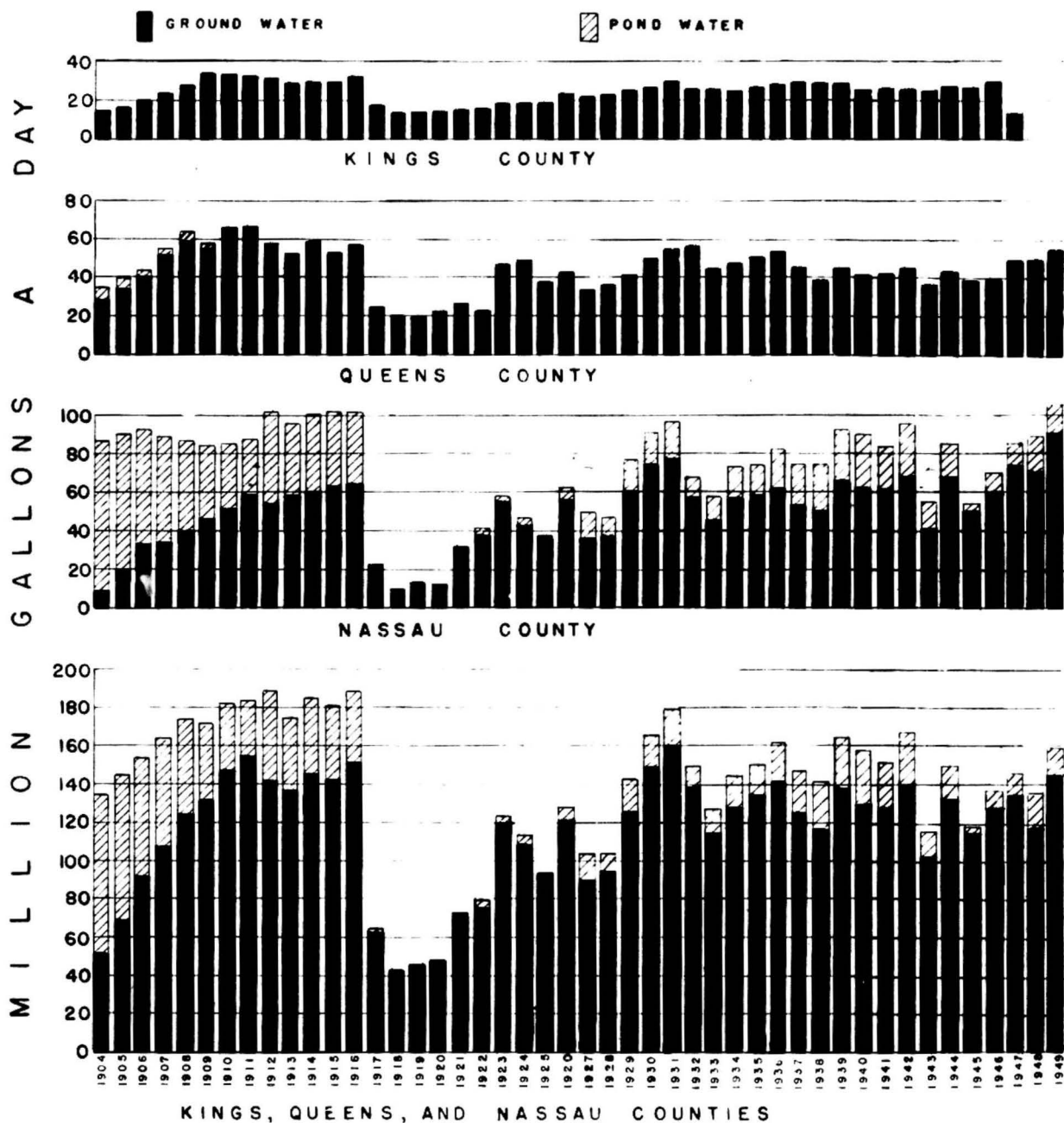


FIGURE I-GRAPHS SHOWING AVERAGE DAILY  
WITHDRAWAL OF WATER FOR PUBLIC SUPPLY  
IN KINGS, QUEENS, AND NASSAU COUNTIES,  
NEW YORK

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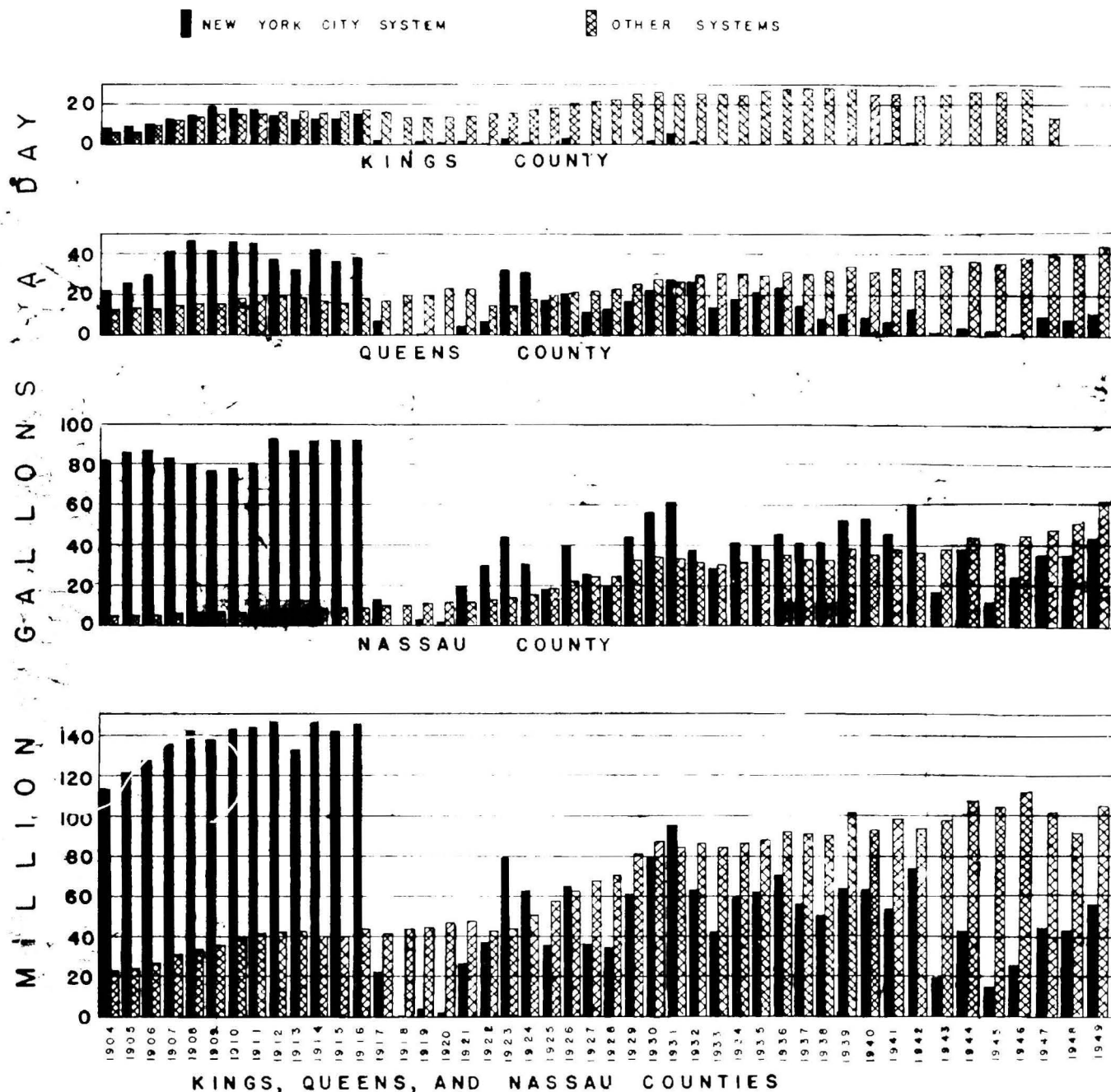


FIGURE 2.- GRAPHS SHOWING AVERAGE DAILY  
WITHDRAWAL OF WATER FOR PUBLIC SUPPLY IN  
KINGS, QUEENS, AND NASSAU COUNTIES, N.Y.,  
BY NEW YORK CITY AND OTHER SYSTEMS