

11. Appendices

11.1 The sewer system of the member cities and town of the Greater Berlin in 1920

	Location	Urbanisation status	Drainage system	Establishment year of the drainage system	Total area	Sewered area			
						Total sewered area	The combined sewer system (C)	The separate sewer system (S)	
						ha	ha	ha	ha
I. The Old Berlin city									
1.	Mitte	OB	C		1037		1037		
2.	Tiergarten	OB	C		1356		1356		
3.	Wedding	OB	C		1307		1307		
4.	Prenzlauer Berg	OB	C		1015		1015		
5.	Friedrichshain	OB	C		798		798		
6.	Kreuzberg	OB	C		1068		1068		
II. Surrounding cities and towns of Berlin									
1.	Charlottenburg	St.	C.-n, S., Tr.s.	1887	2344	886	886		
2.	Köpenick	St.	S	1905	3104	400		400	
3.	Lichtenberg	St.	S		1444	522		522	
4.	Neukölln	St.	C		1170	611	611		
5.	Schöneberg	St.	C	1901	936	610	610		
6.	Spandau	St.	C & S	1898	4925	764	382	382	
7.	Wilmersdorf	St.	C & S	1903	833	840	230	610	
III. Rural communities									
1.	Adlershof	Ldg	S	1904	669	131		131	
2.	Alt-Glienicke	Ldg	S		924	49		49	
3.	Biesdorf	Ldg	S		931	100		100	
4.	Blankenburg	Ldg	-		400				
5.	Blankenfelde	Ldg	-		547				
6.	Borisdorf		C	1904					
7.	Boxhagen-Rummelsburg		S	1896					
8.	Bohnsdorf	Ldg			550				
9.	Britz	Ldg	S	1904	1332	622		622	
10.	Buch	Ldg	-		284				
11.	Buchholz	Ldg	S		1155	50		50	
12.	Buckow. W	Ldg.-A	-		13				
13.	Buckow, ö.	Ldg.-A	-		937				
14.	Cladow	Ldg	-		1298				
15.	Falkenberg	Ldg	-		286				
16.	Friedenau	Ldg	C		144	141			
17.	Friedrichsfelde	Ldg	S	1906	1726	450		450	
18.	Friedrichshagen	Ldg	S		503	175		175	
19.	Galow	Ldg	-		1238				
20.	Glienicke	Ldg							
21.	Groß Ziethen	Ldg							
22.	Grünau	Ldg	S		248	33		33	
23.	Grunewald	Ldg	S	1895	259	259		259	
24.	Heiligensee	Ldg	-		865				

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25.	Heinersdorf	Ldg	S		394	394		394
26.	Hermisdorf	Ldg	S		526	329		329
27.	Hohenschönhausen	Ldg	S	1900	905	354		354
28.	Johannisthal	Ldg	S		397	140		140
29.	Karow	Ldg	-		533			
30.	Kaulsdorf	Ldg	S		988	102		102
31.	Lankwitz	Ldg	S		701	275		275
32.	Lichtenberg-Friedrichsberg		C & S	1892				
33.	Lichtenrade	Ldg	S		901	750		750
34.	Lichterfelde	Ldg	S	1900	1404	1027		1027
35.	Lübars	Ldg	S		726	87		87
36.	Mahlsdorf	Ldg			1310			
37.	Malchow	Ldg			471			
38.	Mariendorf	Ldg.-A	S	1902	1026	320		320
39.	Südende	Ldg.-A			95			
40.	Marienfelde	Ldg	S		951	250		250
41.	Marzahn	Ldg			728			
42.	Müggelheim	Ldg			422			
43.	Niederschönweide	Ldg	S		388	140		140
44.	Niederschönhausen	Ldg.-A	S		551	420		420
45.	Nikolassee	Ldg			99			
46.	Oberschöneweide	Ldg	S	1900	283	215		215
47.	Pankow	Ldg	S	1893	629	378		378
48.	Pichelsdorf	Ldg	S		123	14		14
49.	Rahnsdorf	Ldg			657			
50.	Reinickendorf	Ldg	S	1898	1021	158		158
51.	Rixdorf			1891				
52.	Rosenthal, ö.	Ldg	S		479	170		170
53.	Rosenthal, w.	Ldg.-A			412			
54.	Rudow	Ldg	S		1440	94		94
55.	Schmargendorf	Ldg	S		272	196		196
56.	Schmöckwitz	Ldg			345			
57.	Staaken	Ldg			1106	Gartenstadt		
58.	Steglitz	Ldg	S	1896	577	485		485
59.	Stralau, Ldg	Ldg	S	1899	112	50		50
60.	Tegel	Ldg	S	1898	576	270		270
61.	Tempelhof	Ldg	S	1898	1153	378		378
62.	Tiefwerder	Ldg			30			
63.	Treptow	Ldg	S	1905	778	200		200
64.	Wannsee	Ldg			696			
65.	Wartenberg	Ldg			348			
66.	Weißensee	Ldg	S	1897	840	401		401
67.	Wittenau	Ldg	S	1903	892	300		300
68.	Zehlendorf	Ldg	S	1907	2158	700		700
IV. Forest estates								
1.	Biesdorf	G			198			
2.	Blankenburg	G			282			
3.	Blankenfelde	G			519			
4.	Buch	G			1612			
5.	Hellersdorf							
6.	Köpenick-Forst	G			2589			

7.	Dahlem	G	S		817	400		400
8.	Falkenberg	G			741			
9.	Frohnau	G			773			
10.	Groß Ziethen	G						
11.	Grünau-Dahmer-Forst	G.			4109			
12.	Grunewald-Forst	G			3770			
13.	Heerstraße,n.	G.-A			180			
14.	Heerstraße,s.	G.-A	S		623	120		120
15.	Hellersdorf mit Wuhlgarten	G			572			
16.	Klein - Glienicke	G			173			
17.	Jungfernheide	G.-A			837			
18.	Jungfernheide., s.	G.-A			353			
19.	Malchow	G			573			
20.	Niederschönhausen n. Schönholz	G			66			
21.	Pfaueninsel	G			98			
22.	Pichelswerder	G			76			
23.	Plötzensee	G			52			
24.	Potsdam	G.-A			1216			
25.	Rosenthal	G			341			
26.	Ruhleben							
27.	Spandau-Zitadelle	G	C		23	23		
28.	Tegel-Forst-Plötzensee	G			1535			
29.	Tegel-Schloß	G			511			
30.	Wartenberg	G			474			
31.	Wittenau	G			892			
32.	Wuhlheide	G			610			

(Source: Die Stadtentwässerung in Deutschland, 1934)

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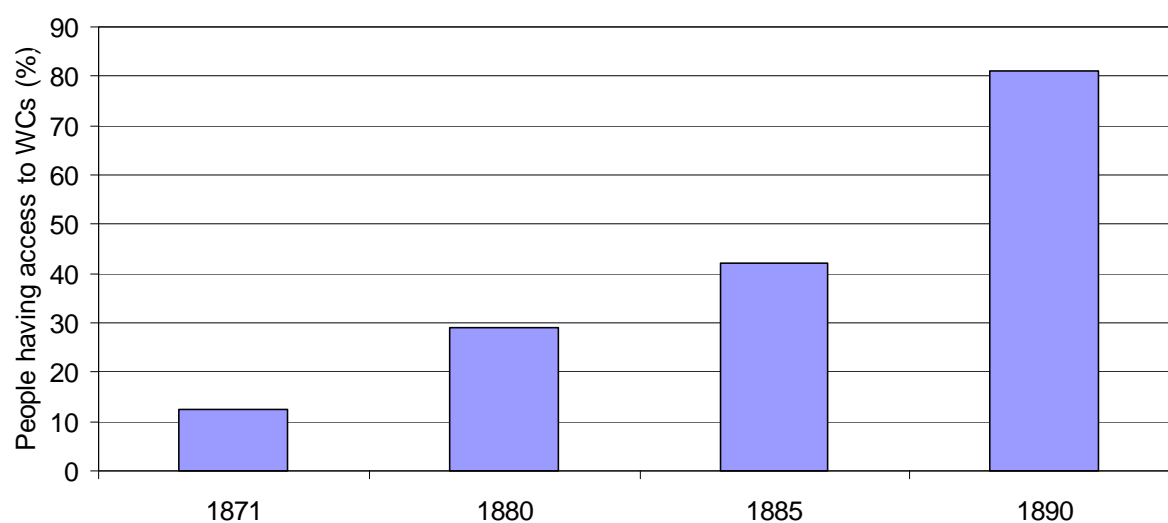
- OB: Old Berlin city
- St. : Cities
- Ldg: Rural community
- G: Community – Forest Estate districts
- C : The combined sewer system
- S : The separate sewer system.

11.2 Water closet application in the Old Berlin city

Water closet application in the Old Berlin city in the period of 1871

Quarters	Number of properties		House with WC
	in general	having water closets	
Berlin	888	231	734
Alt-Kölln	501	112	357
Friedrichs - Werder	264	85	261
Dorotheensdtadt	498	247	917
Friedrichstadt	1643	560	2145
Friedrichstadt ausserhalb	668	380	2076
Schöneberge Revier	493	291	1441
Tempelhofe Revier	495	123	590
Louisenstadt, jenseits	751	126	542
Louisenstadt, diesseits	1811	556	2909
Neu-Kölln	166	55	235
Stralauer Revier A	658	136	740
Stralauer Revier B	708	98	318
Königstadt	827	127	530
Spandauer Revier	1225	279	1231
Rosenthaler Vorstadt	725	46	93
Oranienburger Vorstadt	904	89	378
Friedrich-Wilhelmstadt	275	81	391
Moabit	244	16	53
Wedding	734	8	14
Total	14478	3646	15955

(Source: Rudolf Wirchow, *Reinigung und Entwässerung Berlins*. 1873. p. 24)



Water closet application in the Old Berlin city in the period of 1871-1895

(Source: *Berliner Jahrbuch*, 1891)

11.3 Waste water collection of Berlin in 1926

Region Nr.	Pumping station	Type of drain	To sewage farm	Total area <i>(ha)</i>	In total area		Population in 1926	Waste water <i>(1000 m³/a)</i>
					Impervious area <i>(ha)</i>	Attached surface 1926 <i>(ha)</i>		
1	Berlin I	M	Osdorf	328	307	307	180000	8140
	Berlin VI	M		390	322	319	143000	6467
	Tempelhof I	T		630	534	340	32000	1447
	Tempelhof II	T		134	124	70	10100	457
	Tempelhof Flughafen	T		370				
	Mariendorf	T		1129	1020	225	25000	1131
	Part of Dahlem	T		237	215	199	5000	226
	Steglitz	T		2951	2557	2000	165000	7462
	Neukölln-Hasenheide	M		147	15	15	4000	181
2	Berlin II	M	Großberen	322	311	311	81000	3663
	Treptow	T		800	492	160	33000	1492
3	Berlin III	M	Sputendorf	435	391	391	51000	2306
	Berlin VII	M	Schenkendorf	308				4794
	Part of Charlottenburg			97	352	352	106000	
4	Berlin IV	M	Buch	945	849	814	338000	15286
	Berlin X	M		470	404	354	227000	10266
	Berlin XI	M		440	400	175	40000	1809
	Weißensee	T		840	560	305	49000	2216
	Buchholz	T		1154	886	115	5200	235
5	Part of Berlin IV	M	Malchow	see region Nr. 5				
	Berlin V	M		805	675	657	342000	15466
	Heinersdorf	T		394	364	171	1200	54
	Hohenschönhausen I	T		302	207	109	6000	271
	Hohenschönhausen II	T	Bürknernsfelde	602	469	117	1400	63

(Source: RUTHS, H., 1928)

**11.4 Power plants and cooling water quality
in hydrological year in West Berlin, 1966-1989**

Power plant	Reuter	Charlottenburg	Moabit	Oberhavel	Lichterfelde	Rudow	Steglitz	West Berlin	To Teltowkanal
Year	(mill. m ³)	(mill. m ³)	(mill. m ³)	(mill. m ³)	(mill. m ³)	(mill. m ³)	(mill. m ³)	(mill. m ³)	(mill. m ³)
1966	246	105	103					454	
1967	243	134	81					458	
1968	212	116	71					399	
1969	281	113	80					473	
1970	269	109	88					466	
1971	274	121	86					481	
1973	431	117	74					622	
1974	399	119	68					586	
1975	365	120	64					549	
1976	432	118	65					616	
1977	450	119	68	141	190	109	3	1080	443
1978	437	113	69	151	186	96	2	1054	435
1979	407	105	67	120	198	89	4	991	411
1980	324	108	77	134	159	121	3	927	418
1981	335	117	89	153	151	132	4	980	439
1982	374	118	75	144	172	134	5	1022	456
1983	368	126	88	167	178	137	3	1067	486
1984	357	141	110	194	196	147	4	1150	540
1985	348	193	121	255	245	134	6	1302	639
1986	321	195	131	244	223	190	7	1312	664
1987	331	164	128	210	242	174	8	1255	633
1988	321	3	176	122	211	211	205	1250	749
1989	271	5	194	119	245	209	156	1200	729

(Source: Gewässerkundlicher Jahresbericht des Landes Berlin, Abflußjahr 1985. Berlin. 1988)

11.5 Population of Berlin by districts, 1947-1990

District	Tiergarten	Wedding	Kreuzberg	Chalotten- burg	Spandau	Wilmer- sdorf	Zehlendorf	Schöne- berg	Steglitz	Tempelhof	Neukölln	Reinicken- dorf
Year	(1000 inh.)	(1000 inh.)	(1000 inh.)	(1000 inh.)	(1000 inh.)	(1000 inh.)	(1000 inh.)	(1000 inh.)	(1000 inh.)	(1000 inh.)	(1000 inh.)	(1000 inh.)
1947	114.7	241.7	210.2	216.6	162.1	136.8	83.0	176.1	148.1	114.8	278.9	197.5
1948	116.7	242.9	210.5	219.6	163.3	140.2	86.2	178.5	152.9	116.4	280.7	200.0
1949	116.7	242.4	209.2	217.4	165.0	140.6	87.3	185.7	152.2	117.7	283.9	202.7
1950	116.5	243.5	211.6	220.6	166.1	142.6	92.0	190.2	154.6	122.4	287.1	206.8
1951	115.7	244.8	213.2	223.5	162.9	147.7	85.3	191.7	156.1	124.4	287.9	208.3
1952	114.3	242.7	214.8	223.8	163.9	150.8	98.1	192.2	156.9	131.7	287.4	209.9
1953	112.6	239.4	215.8	224.1	165.3	150.5	98.2	193.8	161.9	136.1	287.9	211.9
1954	109.0	235.8	210.4	224.1	164.2	150.9	96.4	193.7	171.1	139.7	285.0	212.0
1955	108.4	232.9	207.4	224.6	168.3	151.8	97.5	194.1	174.7	145	285.0	214.4
1956	113.6	233.0	203.7	225.5	172	157.8	96.3	199	180.4	144.1	284.0	213.7
1957	114.1	231.5	202.5	226.2	174.2	158.2	97.4	199	181.2	146.1	283.3	214.7
1958	113.0	229.7	198.8	228.8	174.7	158.8	97.6	198.8	183.1	144.3	282.3	216.1
1959	111.9	226.5	194.2	228.6	174.1	160.3	95.8	195.7	183.8	144.0	279.2	213.9
1960	112.0	223.2	193.4	227.5	172.9	162.0	95.6	194.5	185.0	144.8	277.8	214.6
1961	112.7	220.3	189.0	225.6	173.3	164.0	95.0	193.3	186.0	144.0	275.7	215.5
1962	112.9	213.9	183.4	221.3	174.8	165.0	95.9	190.2	187.5	142.3	271.2	215.6
1963	111.6	210.3	182.8	223.6	176.4	166.7	97.3	190.9	188.8	147.9	271.5	218.4
1964	109.8	207.5	181.3	226.0	181.8	168.0	98.6	190.5	191.3	151.1	275.3	219
1965	108.3	203.1	179.1	223.3	190.8	166.4	97.7	188.1	191.3	154.7	275.6	218.9
1966	106.5	198.5	176	219.2	199.3	163.4	96	184.9	190.9	156.6	276.6	217.5
1967	104	193.3	171	213.7	201.3	160.1	94.4	179.8	190	158.2	278.4	219.1
1968	100.2	187.8	166.1	209.2	199.9	157.4	92.4	174.6	188.5	159.6	278.1	227.6
1969	97.6	183.2	163.6	206.2	199.2	155.3	90.2	171.5	187.7	162.5	279	237.3
1970	95.7	179.6	162.6	204	198.3	152.7	89.1	169	186	164.4	277.5	243.8
1971	94.6	174.3	155.8	194	194.8	147.4	89.7	163.1	184.7	162.3	276.8	246.4
1972	92.4	170.4	154.8	187	195.1	144.9	88.3	159.9	183.1	163.4	277.9	245.4
1973	90.6	166.4	154.4	181	196.1	142	87.1	155.6	183.6	166	279.7	245.4
1974	87.2	161.3	152.1	175.8	199.5	138.8	86.5	151	181.6	166.4	281	242.7
1975	82.9	152.6	143.7	170.3	200.8	136.1	85.4	146.3	179.3	166.9	280	240.5
1976	78.8	145.9	136.7	165.8	199.6	134.2	85.2	143.7	176.3	166.3	279.4	238.8
1977	76.1	141.5	131.3	161.8	199.5	132.6	84.8	141.6	173.9	166.7	280.3	236.3
1978	74.1	137.8	130.2	157.9	198	131.4	85.2	140.8	172.1	165.9	280	236.3
1979	73.4	136.4	129.8	156	197.5	131.5	85	141.5	170.3	164.9	280.6	235.5
1980	73.8	135.8	130.1	153.6	197	131.7	84.3	142.1	169.1	163.5	280.9	234.4
1981	73.8	135.2	130.8	151.9	195.6	132.4	84	141.6	168.4	163.3	278.9	232.7
1982	72.8	135	130.1	150	193.7	131.2	83	139.3	167.3	161.5	275.5	230.4
1983	71.8	135	128.8	147.3	192.2	130.1	83.1	136.9	166.2	160.8	273.1	229.2
1984	70.1	135.3	126.7	145.5	191.9	130.1	83.7	134.9	166.3	161.1	273.3	228.7
1985	72.0	136.7	127.4	145.6	192.9	130.7	85.2	134.6	167.6	162.1	276.4	229
1986	72.0	138.6	129.9	145.7	198.5	131.3	86.5	135.8	169.1	164.5	278.3	229.1
1987	72.0	139.2	130.6	145.5	198.5	131	86.5	136.1	169.6	164.5	278.5	229
1988	89.3	155.3	145.3	177.8	206.7	142.3	96.3	149.4	184.7	182.7	295.8	242.6
1989	93.8	161.7	151.3	183.3	215.8	146.1	98.7	154.3	189.1	185.2	303.1	248.1
1990	95.0	164.9	153.9	198	225	147	98.5	156.3	190.1	187.8	307.2	249.6

(Source: Berliner statistik, 2006)