

# **PUBLIC WATER SUPPLIES IN PUERTO RICO, 1983**

**By Fernando Gómez-Gómez, Ferdinand Quiñones, and Marisol López**

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# UNITED STATES DEPARTMENT OF THE INTERIOR

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## GEOLOGICAL SURVEY

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## CONTENTS

	Page
Abstract.....	1
Introduction.....	1
Summary of data finding.....	2
Explanation of the information published.....	2
Public water supplies facilities References.....	3
References.....	102

## ILLUSTRATIONS

Figure 1. Map showing geographic boundaries of municipios and U.S. Geological Survey code numbers....	5
2-16. Maps showing generalized location of public water supply facilities in:	
2. Río Guajataca basin.....	8
3. Río Camuy basin.....	9
4. Río Grande de Arecibo basin.....	10
5. Río Grande de Manatí basin.....	11
6. Río Cibuco basin.....	12
7. Río de la Plata basin.....	13
8. Río de Bayamón and Río Piedras basins.....	14
9. Río Grande de Loíza basin.....	15
10. Northeastern river basins--Río Herrera to Río Seco basins.....	16
11. Southeastern river basins--Río Humacao to Río Seco basins.....	17
12. South coast rivers basin - Río Salinas to Río Jacaguas basins.....	18
13. South coast rivers basin - Río Inabón to Río Loco basins.....	19
14. Río Guanajibo basin.....	20
15. Río Yaguez and Río Grande de Añasco basins.	21
16. Río Culebrinas basin.....	22

## TABLES

	Page
Table 1. Population housing units and estimated number of connections to the public water supply system, by municipio (2 pages).....	6,7
2. Water supply facility map numbers and site names:	
2A. Surface-water sites.....	23
2B. Ground-water sites (2 pages).....	24,25
3-40. Public water-supply installations and water-quality analyses for Puerto Rico Aqueduct and Sewer Authority facilities at:	
3. Adjuntas.....	26
4. Aguadilla.....	27
5. Aguas Buenas.....	28
6. Aibonito.....	29
7. Añasco.....	30
8. Arecibo (2 pages).....	31,32
9. Arroyo.....	33
10. Barceloneta.....	34
11. Barranquitas.....	35
12. Bayamón.....	36
13. Cabo Rojo.....	37
14. Caguas.....	38
15. Camuy.....	39
16. Carolina.....	40
17. Cayey (2 pages).....	41,42
18. Ciales.....	43
19. Cidra.....	44
20. Coamo.....	45
21. Comerio.....	46
22. Corozal.....	47
23. Culebra.....	48
24. Dorado.....	49
25. Fajardo.....	50
26. Guanica.....	51
27. Guayama.....	52
28. Guayanilla.....	53
29. Guaynabo.....	54
30. Gurabo.....	55
31. Hatillo.....	56
32. Hormigueros.....	57
33. Humacao.....	58
34. Isabela.....	59
35. Jayuya.....	60
36. Juana Díaz.....	61
37. Juncos.....	62
38. Lajas.....	63
39. Lares.....	64
40. Las Marías.....	65

## TABLES-Continued

	Page
41-75. Public water-supply installations and water-quality analyses for Puerto Rico Aqueduct and Sewer Authority facilities at: (Continued)	
41. Las Piedras.....	66
42. Luquillo.....	67
43. Manatí.....	68
44. Maricao.....	69
45. Maunabo.....	70
46. Mayaguez.....	71
47. Moca.....	72
48. Morovis.....	73
49. Naguabo.....	74
50. Naranjito.....	75
51. Orocovis.....	76
52. Patillas.....	77
53. Peñuelas.....	78
54. Ponce (2 pages).....	79, 80
55. Quebradillas.....	81
56. Rincón.....	82
57. Río Grande.....	83
58. Sabana Grande.....	84
59. Salinas.....	85
60. San Germán.....	86
61. San Juan.....	87
62. San Lorenzo.....	88
63. San Sebastián.....	89
64. Santa Isabel.....	90
65. Toa Alta.....	91
66. Toa Baja.....	92
67. Trujillo Alto.....	93
68. Utuado.....	94
69. Vega Alta.....	95
70. Vega Baja.....	96
71. Villalba.....	97
72. Yabucoa.....	98
73. Yauco.....	99
74. Canovanas.....	100
75. Florida.....	101

## CONVERSION FACTORS

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
Million gallons per year (Mgal/yr)	0.0027	Million gallons per day (Mgal/d)
Million gallons per year (Mgal/yr)	3.07	Acre-feet (Acre-ft)
Million gallons per year (Mgal/yr)	<del>0.0027</del> 0.00421	Cubic feet per second (ft <sup>3</sup> /s)

# **PUBLIC WATER SUPPLIES IN PUERTO RICO**

**By Fernando Gómez-Gómez, Ferdinand Quiñones,  
and Marisol López**

## **ABSTRACT**

A compilation was made of public water supply facilities serving Puerto Rico's 78 municipios (municipalities). Information was obtained at the Puerto Rico Aqueduct and Sewer Authority which is responsible for development and operation of the island's public water supply system. Data on the facilities include the following: Cartesian coordinates, site name, annual production, and analyses for pH, color turbidity, and major dissolved constituents.

Facilities listed include 413 wells and 170 surface-water sites in operation. These provide about 370 million gallons per day of potable water to nearly 850,000 domestic, commercial, and industrial connections.

## **INTRODUCTION**

During the last two decades the development and utilization of the water resources in Puerto Rico for public supply has increased from about 100 million gallons per day (Mgal/d) in 1960 to 370 Mgal/d at present. The Puerto Rico Aqueducts and Sewer Authority (PRASA) is responsible for the development of public water supplies in Puerto Rico. PRASA maintains an inventory of water supply facilities, including production totals and results of analyses to determine the quality of water at facilities. Although this information is extremely valuable to Commonwealth and Federal officials, consultants, engineers, scientists, and private citizens, it is not readily available.

In 1960, the U.S. Geological Survey, Water Resources Division, published a preliminary inventory of the public-water supplies in Puerto Rico (Arnow and Crooks, 1960). The report, prepared in cooperation with PRASA and other Commonwealth agencies, summarizes the data available as of 1959.

The need to update the 1960 report prompted the USGS to compile the information available from PRASA and other sources and make it available to the general public. The project was developed in cooperation with the Water Resources Research Institute of the University of Puerto Rico, and with PRASA. The assistance of Engineers Serafín Acevedo and Carlos García-Troche, and Nicolino Liberatore, PRASA, made this publication possible.

## SUMMARY OF DATA FINDING

The inventory resulted in the following principal findings:

1. The public water-supply system operated by PRASA now provides about 370 Mgal/d of potable water.
2. Wells provide about 80 Mgal/d.
3. Within the past five years, PRASA has been augmenting the production of potable water by about 10 Mgal/d/yr.
4. The inventory showed a total of 413 wells and 170 surface-water treatment facilities.
5. Due to PRASA's complex distribution system, production from one municipio is not necessarily distributed within that municipio's geographical boundaries. This is more evident in the San Juan metropolitan area and adjacent municipios. Some municipios are totally dependent on others for their potable supply (finished water).
6. Chemical analyses are not available for all the public water supply sources, or some analyses date back many years.

## EXPLANATION OF THE INFORMATION PUBLISHED

The information published in the tables of this report was obtained from PRASA files. The following explanatory notes should assist in the interpretation of the data:

1. Water production values shown as 0.00 do not necessarily represent zero production. Many of these sites, mostly wells, are used occasionally for production back-up.
2. The following municipios have no active public-water supply production (or treatment) facilities: Aguada, Cataño, Ceiba, and Vieques. These are supplied as follows: Aguada from Aguadilla, Cataño, from San Juan Metro system, Ceiba from Fajardo, and Vieques from Naguabo.
3. The chemical analyses were obtained from (PRASA) files.
4. Most of the analyses for surface-water supplies are from samples collected from the finished (production) water.
5. Well samples were collected at the well discharge.
6. The data does not indicate if parameters (such as pH, color, turbidity or alkalinity) were measured in the field or laboratory.



## **PUBLIC WATER SUPPLIES FACILITIES REFERENCES**

The municipios and corresponding code numbers are shown in figure 1. The 1980 population census for each municipio is shown in table 1 in conjunction with the housing units count. Information on the estimated number of domestic, commercial, and industrial connections to PRASA's distribution network are also listed (table 1). The generalized location of each public-water supply facility serving the PRASA system is shown in figures 2 through 16. Site names of all the surface water facilities and public water supply wells are also included (tables 2A and 2B). Tabulated information for each municipio is presented in the U.S. Geological Survey municipio code number sequence beginning with Adjuntas (table 3) and ending with Florida (table 75).

Additional information on each public-water supply facility operated by PRASA can be obtained from the PRASA Operations Division, or from the U.S. Environmental Protection Agency.



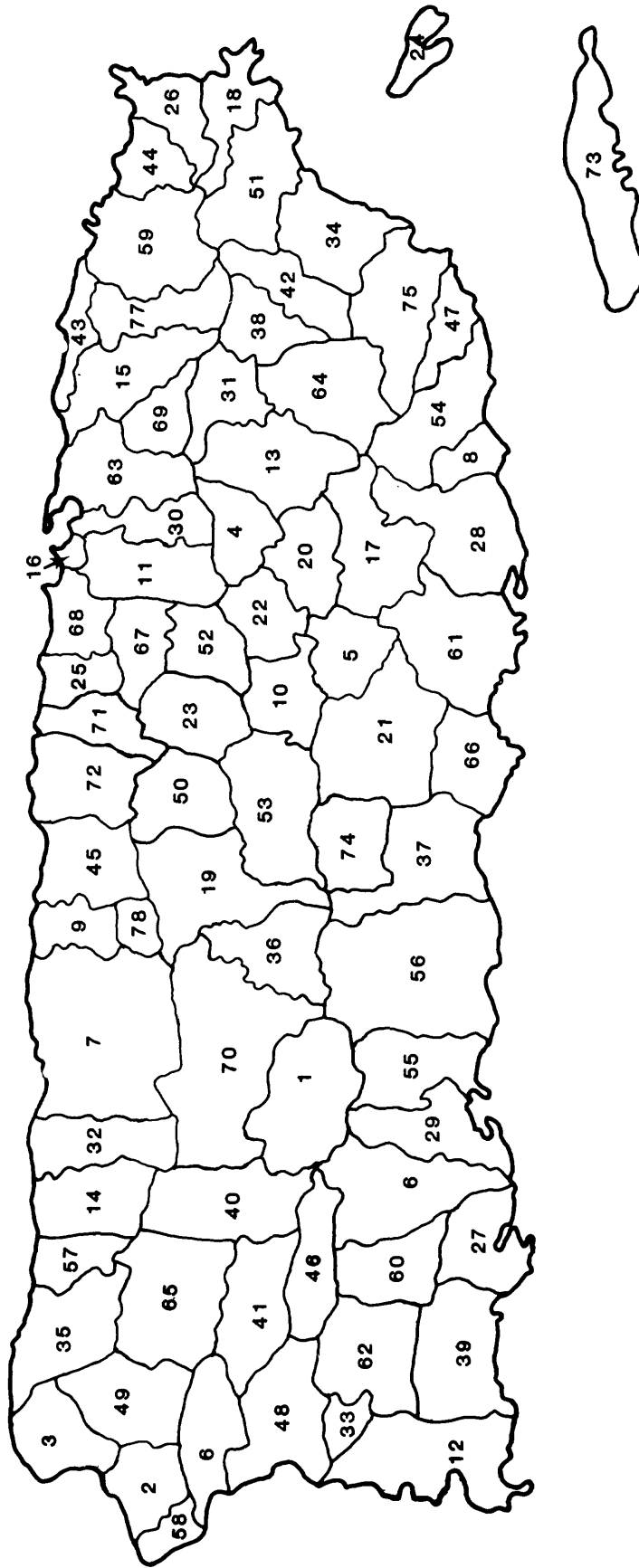


Figure 1. Geographic boundaries of municipios and U.S. Geological Survey code numbers.

Table 1. Population, housing units and estimated number of connections to the public water supply system, by municipio.

USGS CODE	MUNICIPIO	1980 CENSUS POPULATION	HOUSING UNITS	**NUMBER OF CONNECTIONS		
				DOMESTIC	COMMERCIAL	INDUSTRIAL
1	ADJUNTAS	13786	5482	2955	154	4
2	AGUACA	31567	8734	6694	467	15
3	AGUADILLA	54606	17429	15024	1226	60
4	AGUAS BUENAS	22429	6625	4047	274	13
5	AIBCNITO	22167	6330	5272	473	17
6	ANASCO	23274	7046	5290	293	16
7	APECIBO	86766	27436	24182	1915	81
8	ARRCYO	17014	5130	4645	195	11
9	BARCELONETA	18942	6080	5132	364	24
10	BARRANQUITAS	21639	5733	3421	358	4
11	BAYAMON	196206	56137	48411	3558	129
12	CABO ROJO	34045	12657	10692	794	24
13	CAGUAS	117959	35266	30345	1810	179
14	CAMUY	24824	7562	6173	559	21
15	CAROLINA	165954	53029	40396	1998	99
16	CATANO	26243	7626	6285	322	110
17	CAYEY	41099	12345	10756	918	22
18	CEJRA	14944	4587	2997	193	7
19	CIALES	16211	4646	3173	258	12
20	CIDRA	28365	7906	5431	484	23
21	COAMO	30822	8849	6311	403	22
22	COMERIO	13212	5227	3664	393	6
23	COROZAL	23221	7949	5565	400	10
24	CULEBRA	1265	517	361	41	1
25	DORADO	25511	3201	6704	395	13
26	FAJARDO	32037	12358	10429	813	20
27	GUANICA	18799	6310	5302	270	8
28	GUAYAMA	40183	12355	9930	570	25
29	GUAYANILLA	21050	6090	5137	293	4
30	GUAYNABO	80742	24337	19737	1239	64
31	GURABO	23574	6938	5046	249	5
32	HATILLO	28958	8478	6983	610	49
33	HORMIGUEROS	14030	4463	4338	202	13
34	HUMACAO	46134	15023	13662	1140	58
35	ISABELA	37435	11445	9556	946	19
36	JAYUYA	14722	4013	2359	273	11

Table 1- Population, housing units and estimated number of connections to the public water supply system, by municipios. - (Continue)

USGS CODE	1920 CENSUS MUNICIPIO	POPULATION	**NUMBER OF CONNECTIONS HOUSING UNITS	DOMESTIC	COMMERCIAL	INDUSTRIAL
37	JUANA DIAZ	43505	11774	7744	348	17
38	JUNCOS	25397	7892	4156	577	35
39	LAJAS	21236	7439	6111	480	9
40	LAPES	26743	7801	6094	446	6
41	LAS MARIAS	3747	2823	1615	106	0
42	LAS PIEDRAS	22412	6793	4926	397	23
43	LOIZA	20867	5645	6034	293	2
44	LUCUILLLO	14895	6329	5672	299	19
45	MANATI	35562	11733	10390	962	39
46	MARICAO	6737	2118	806	50	5
47	MAUNABO	11813	3217	2302	154	5
48	MAYAGUEZ	96193	31806	26782	2271	91
49	MOCA	29195	7994	6068	396	7
50	MOROVIS	21142	5456	4421	353	8
51	MASUARO	20617	6921	4964	406	31
52	NARANJITO	23633	6559	4127	320	4
53	OROCOVIS	19332	5235	3513	210	3
54	PATILLAS	17774	5099	3546	250	5
55	PENUELAS	19116	5299	3766	244	10
56	PONCE	189046	53078	49340	2524	103
57	QUEBRADILLAS	19728	5616	5054	559	16
58	RINCON	11798	3959	3384	251	8
59	RIO GRANDE	34293	10876	9284	554	16
60	SABANA GRANDE	20207	6736	6556	416	15
61	SALINAS	26438	3309	6757	310	9
62	SAN GERMAN	32922	10473	7589	576	32
63	SAN JUAN	434849	156096	122136	11578	268
64	SAN LORENZO	32428	9433	5742	363	29
65	SAN SEBASTIAN	35690	10931	3462	616	12
66	SANTA ISABEL	19354	6007	4544	192	10
67	TOA ALTA	31910	9058	7295	322	12
68	TOA BAJA	73246	22736	21185	957	43
69	TRUJILLO ALTO	51389	15908	5126	315	3
70	UTUADO	34505	10213	6553	581	13
71	VEGA ALTA	23696	8525	6285	377	21
72	VEGA BAJA	47115	14771	13135	357	45
73	VIEQUES	7662	3076	2722	246	5
74	VILLALBA	20734	5471	3093	154	7
75	YABUCOA	31425	3824	5646	410	14
76	YAUCO	37742	11577	9482	678	12
77	CANCYANAS	31830	9341	5815	408	8
78	FLORIDA	7232	2291	2283	165	3
	Totals	3,196,520	993,678	787,226	56,831	2237

\*\* as of 1931 in PRASA files

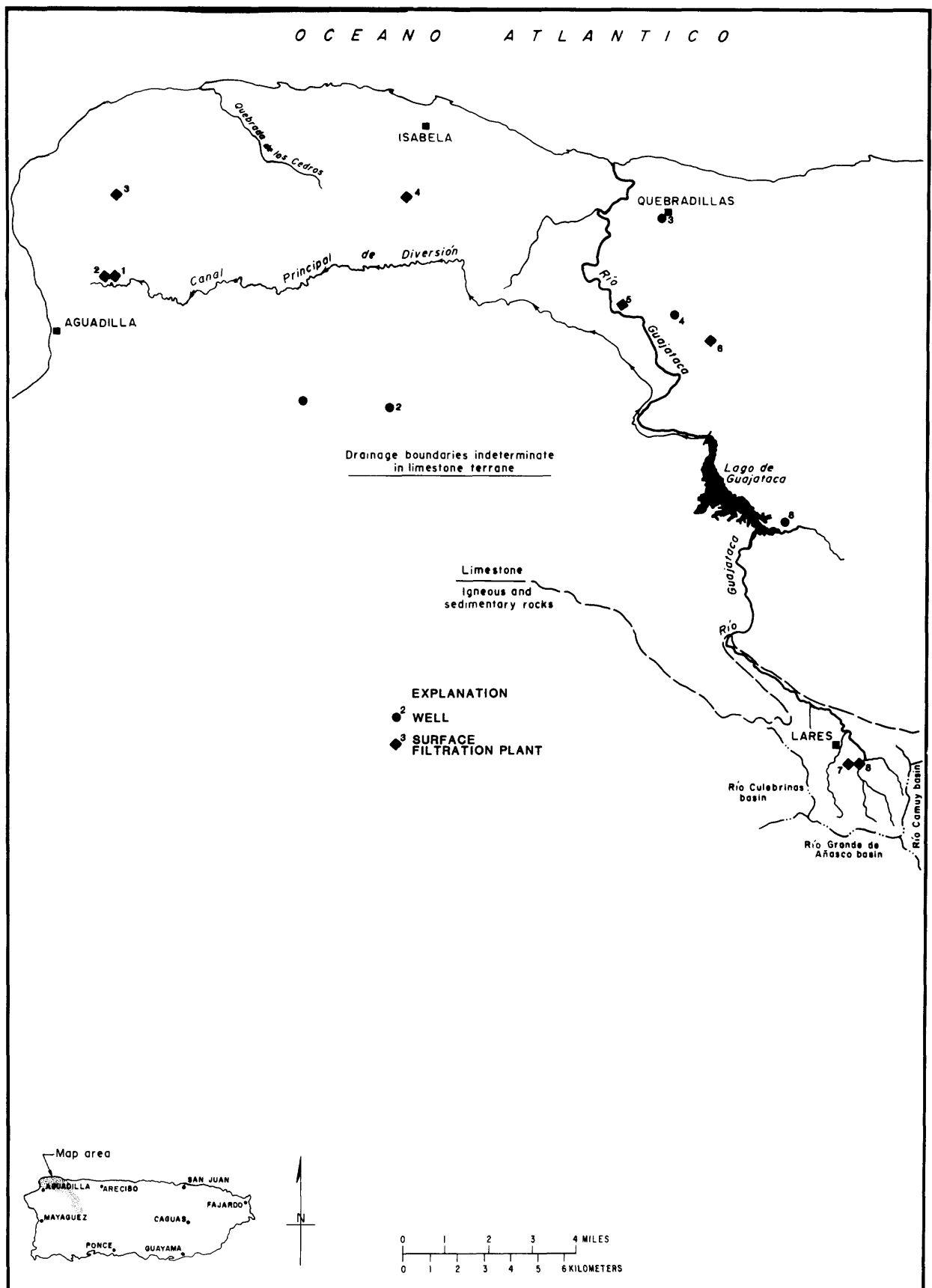


Figure 2.--Río Guajataca basin.

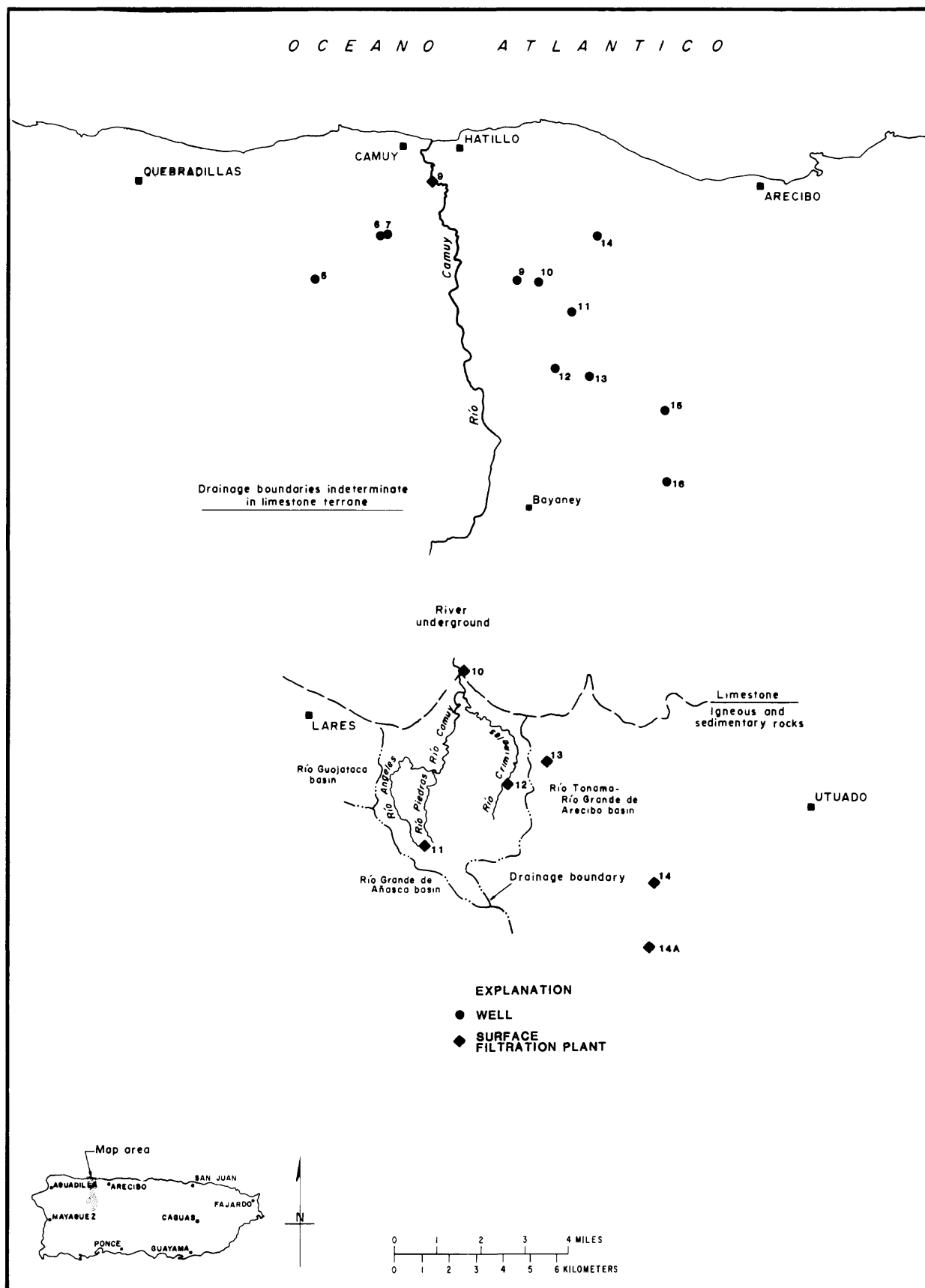


Figure 3.--Río Camuy basin.

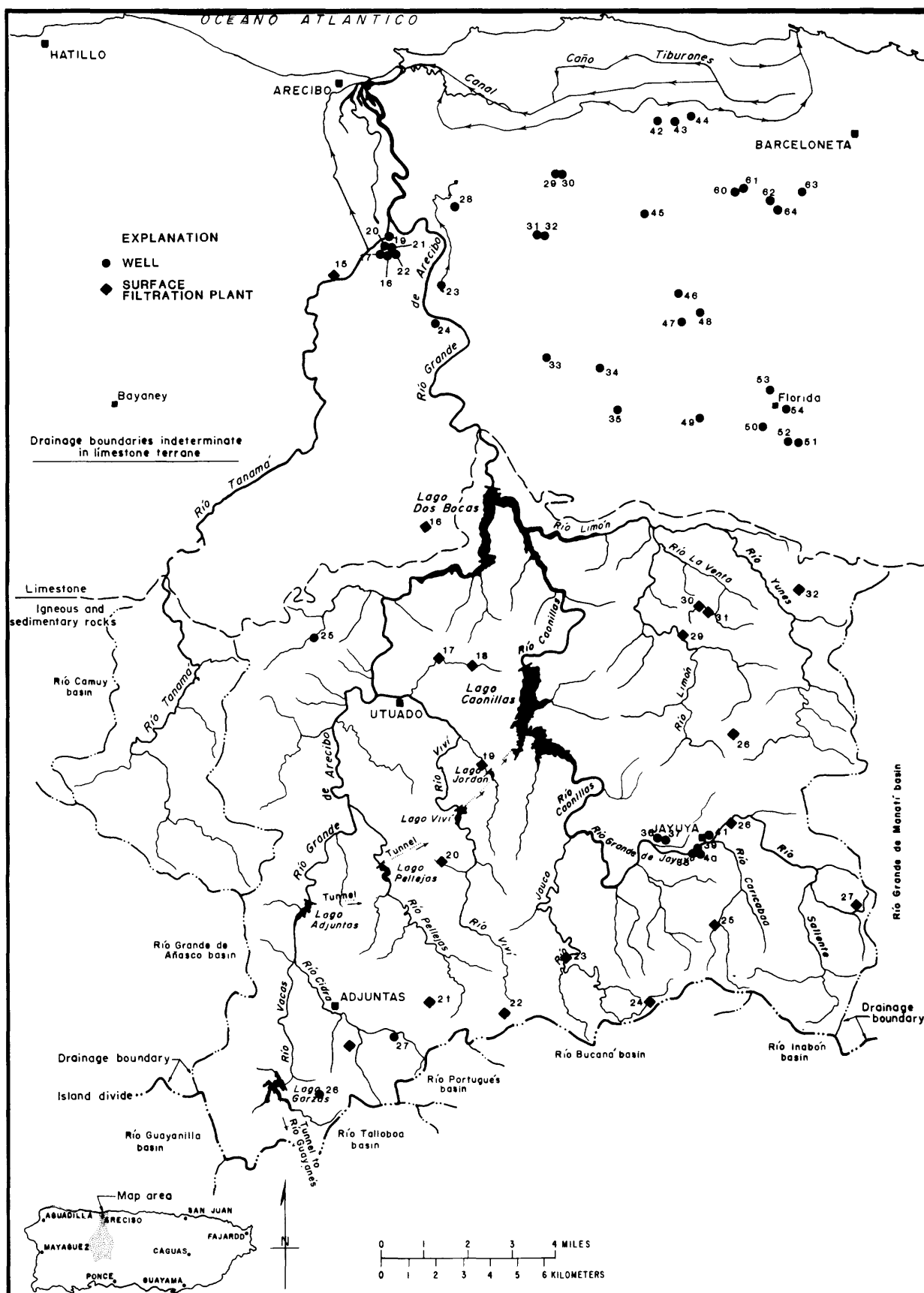


Figure 4.--Río Grande de Arecibo basin.



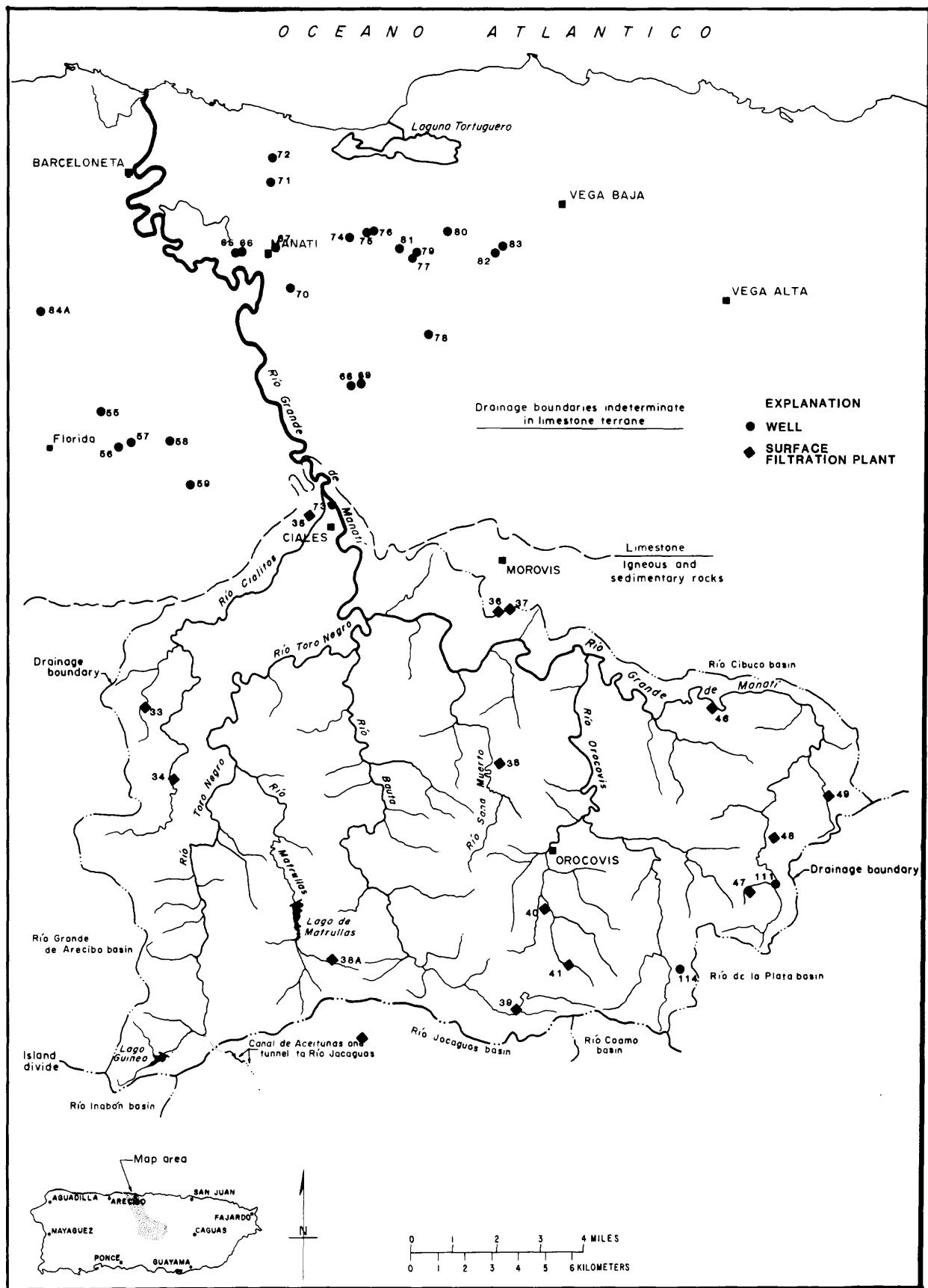


Figure 5.--Río Grande de Manatí basin.

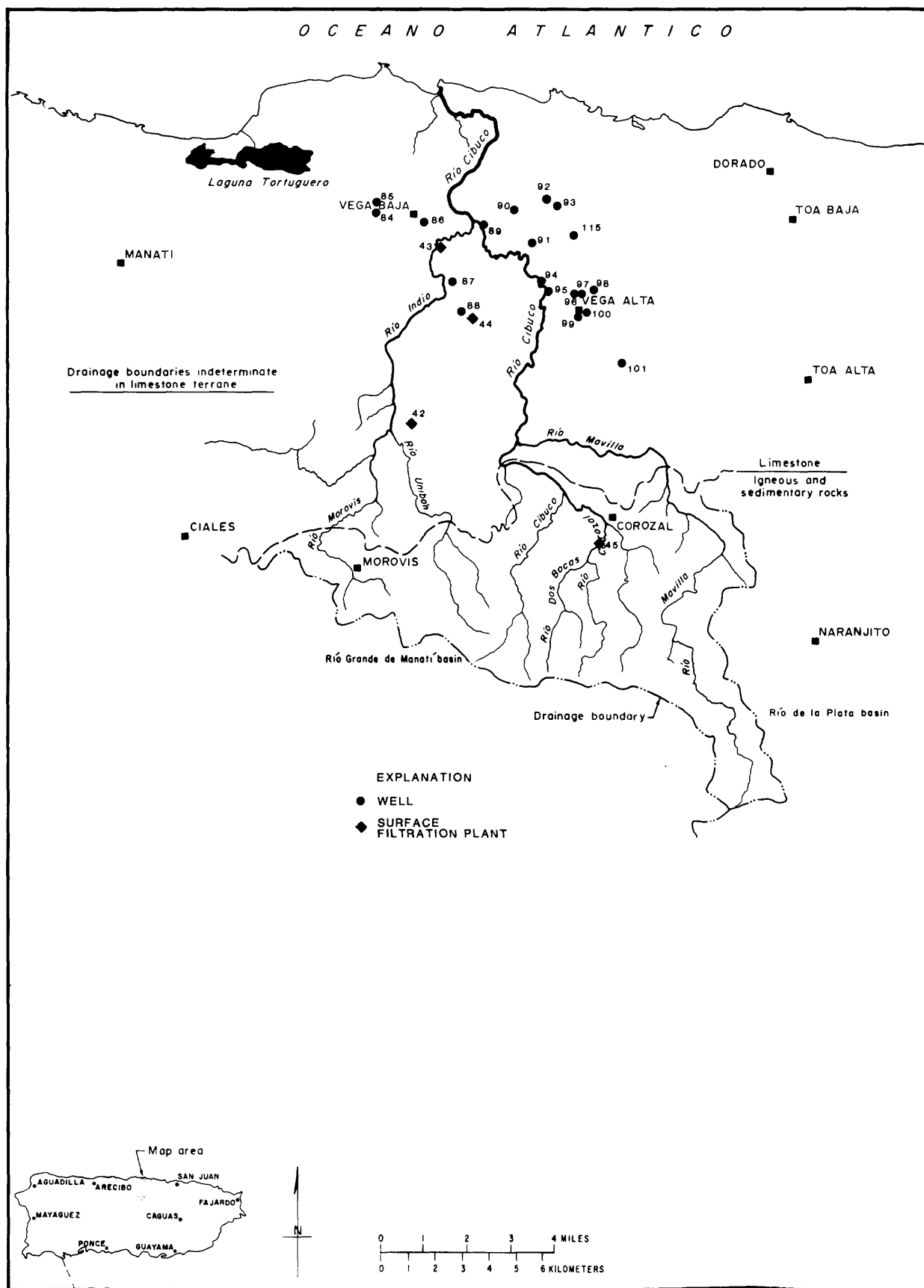


Figure 6.--Río Cibuco basin.

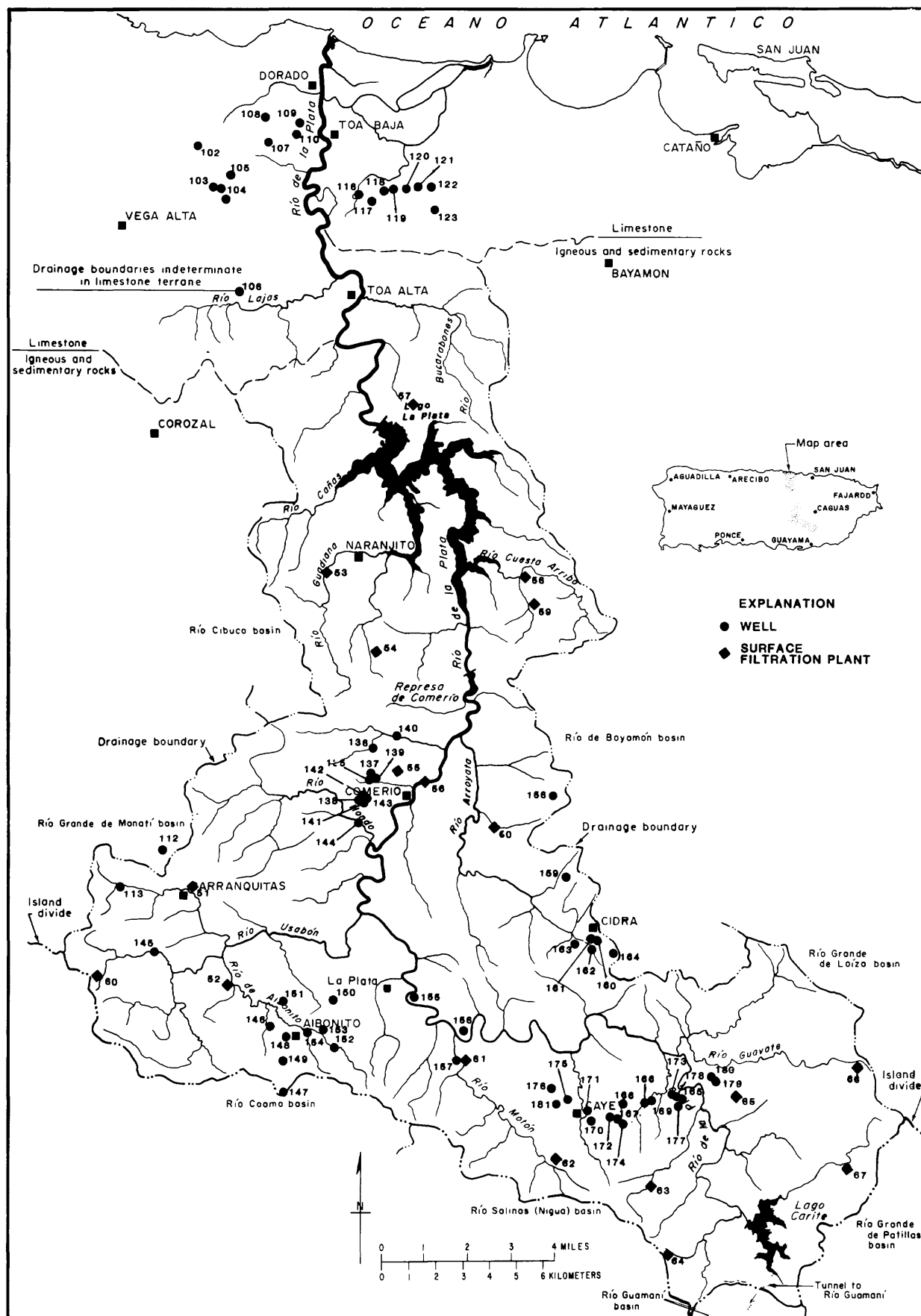


Figure 7.--Río de la Plata basin.

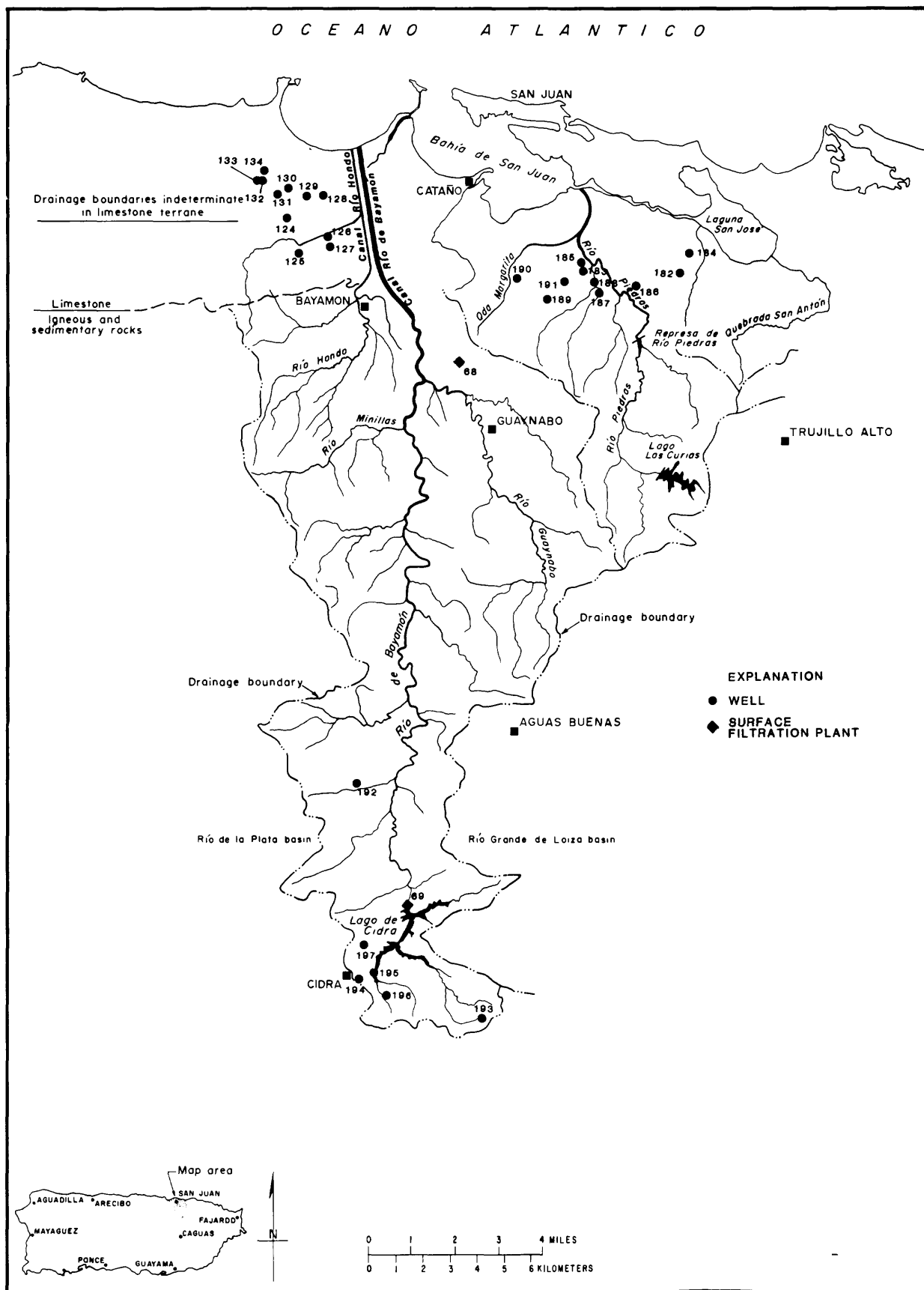


Figure 8.--Río de Bayamón and Río Piedras basins.





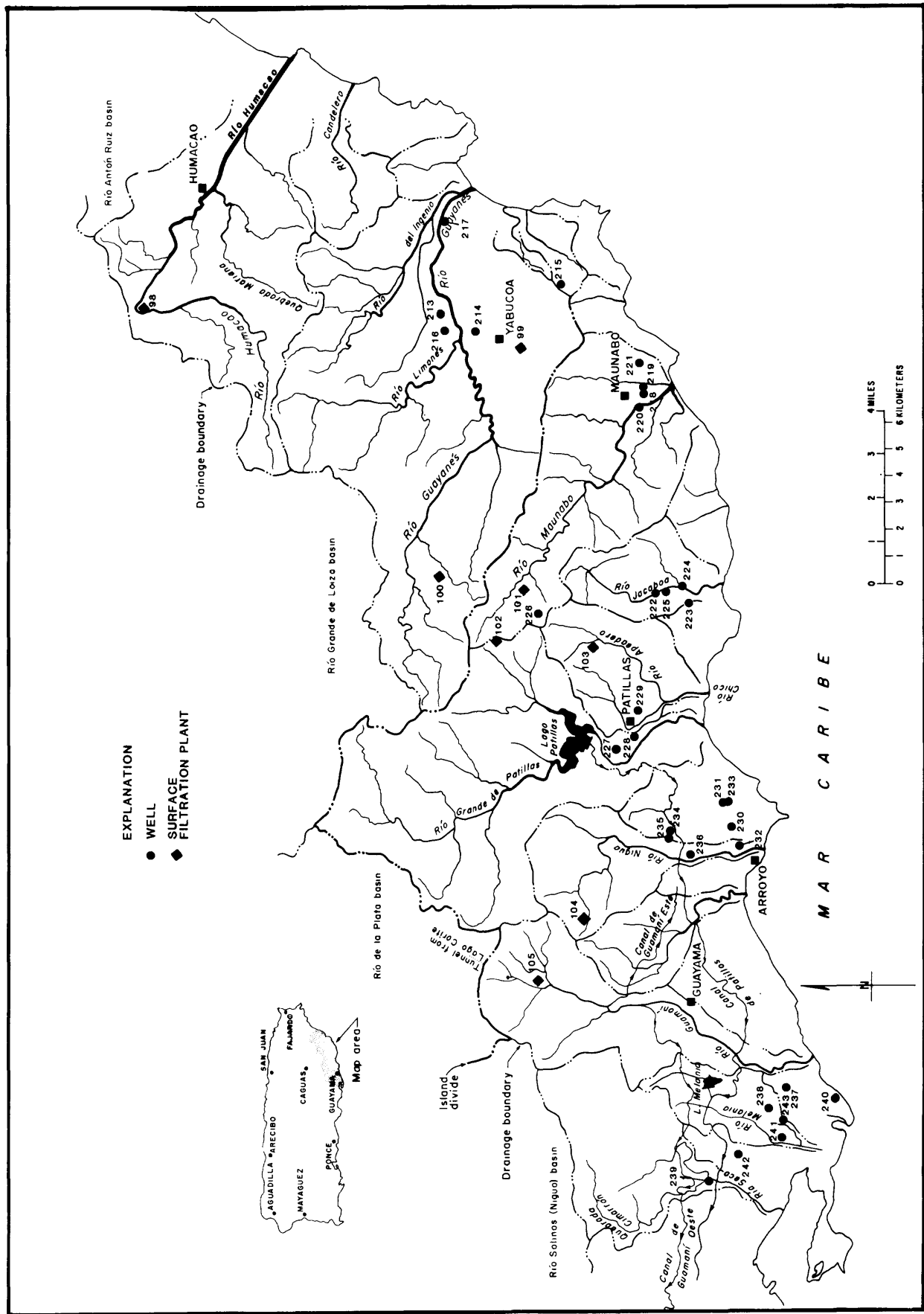


Figure 11.--Southeastern river basins--Río Humacao to Río Seco basins.

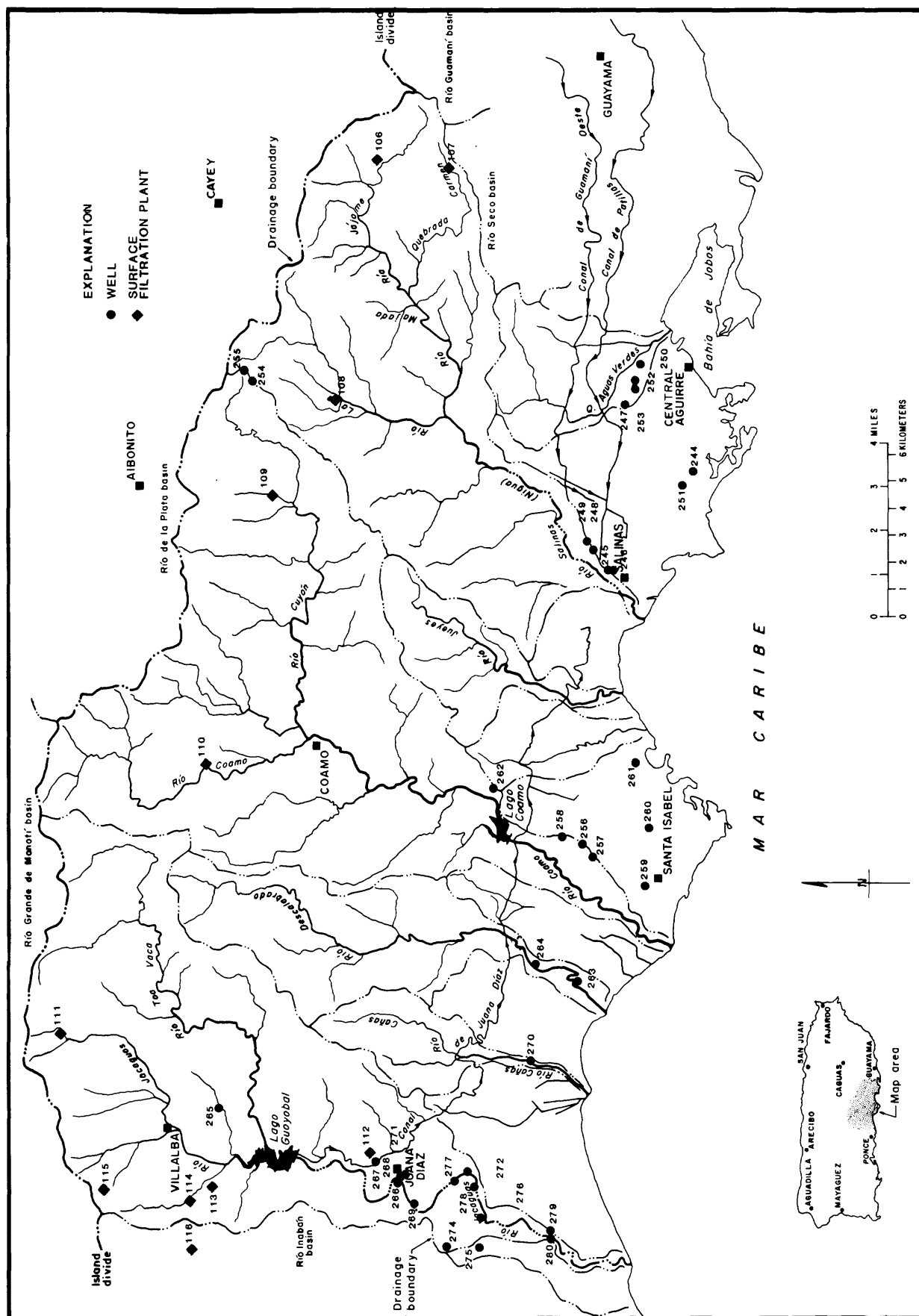


Figure 12.--South coast rivers basin - Río Salinas to Río Jacaguas basins.









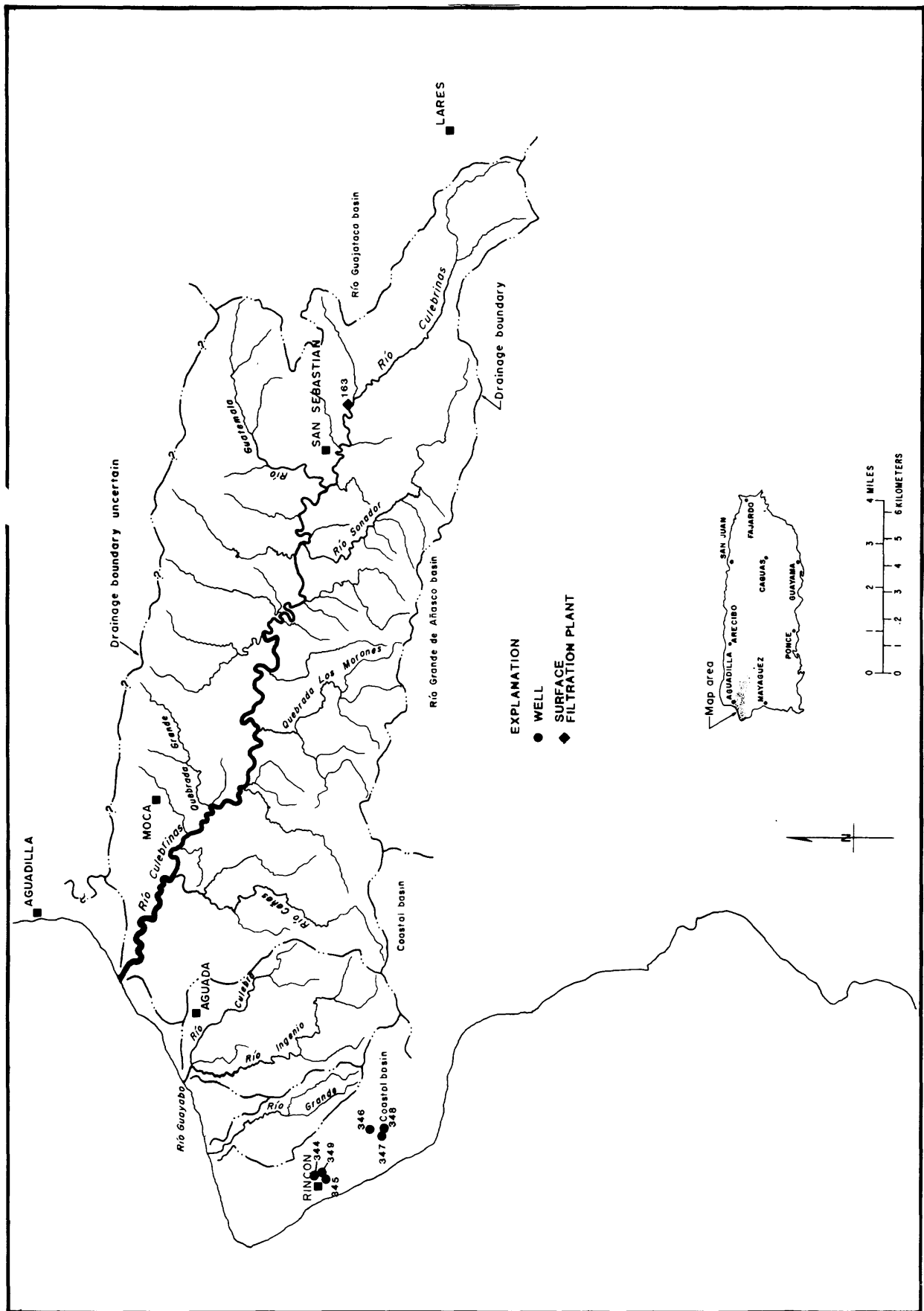


Figure 16.--Río Culebrinas basin.

Table 2A. Water supply facility map number and site names: surface water sites

1. Aguadilla-Vieja	55. Palomas	113. Villalba
2. Aguadilla-Nueva	56. Comerio	114. Semil
3. Aguadilla Ramay	57. Enrique Ortega	115. Julita
4. Isabela	58. 80. Dajao	116. Collores
5. Llanadas	59. 80. Nuevo	117. Real Anon
6. Quebradillas	60. Cedritos-Comerio	118. Ponce Vieja
7. Lares 2	61. Maton	119. Ponce Nueva, (Magueye)
8. Lares 1	62. Cayey	120. Quebrada Limon
9. Hatillo-Camuy	63. 80. Cedro	121. El Alto
10. Quebrada	64. Culabras-Cayey	122. Corral Viejo
11. Mirasol	65. Guayama	123. Tibes
12. Angeles I	66. Gravate	124. Marueno
13. Angeles II	67. Carite	125. Rucio
14. Roncador Cayuco	68. Los filtros	126. Guaragua
14--A Tanama	69. Cidra	127. Panueles
15. Arecibo	70. Sergio Cuebas	128. Jagua Ceiba
16. Rio Arriba	71. Aguas Buenas	129. Mal Paso
17. Cercadillo	72. Casuas	130. Macana
18. Sabana Grande	73. San Salvador	131. Jagua Pasto
19. Utuado	74. Espino	132. Yauco
20. Vivi Arriba	75. Planta 90. Jaqual	133. Duey
21. Vegas Arriba	76. Quebrada Honda	134. Rancheras
21-A Adjuntas	77. San Lorenzo	135. Molina
22. La Pica	78. Quebrada Arenas	136. Sabana Grande
23. Canalizo, (Candijo)	79. Barraza	137. La Maquina
24. Hogares Saquros	80. Cubuy	138. Cain Alto
25. Vegueta	81. Caimito	139. San German
26. Jayuya	82. Planta Remocion de Hierro	140. Rosario Bajo
27. Coabey	83. Juncos	141. Maricao
28. Mameyes-Jayuya	84. Pasto Seco	142. Naranjales
29. Limon	85. Canovana	143. Lajas
30. Mameyes-Utuado	86. El Yunque	144. Capaez
31. Mameyes-Utuado	37. Planta Puerto Kai	145. Guilarte
32. Fronton Viejo	88. Jimenez	146. Yaguacay
33. Fronton Nuevo	89. Zarzal	147. Rio Prieto
34. Cielitos	90. Morovis	148. Castaner
35. Ciales	91. Guzman Arriba	149. Bartolo 1
36. Morovis	92. Cuchilla-Wiguerillo	150. Bartolo 2
37. Morovis Sur	93. Rio Blanco	151. Indiera Alta
38. Sanamuentos	94. Cubuy	152. Bucarabonas I
38-A Vatrullas	95. Naguabo	153. Bucarabonas II
39. Mayales	96. Rajardo	154. Monte Estado
40. Croccovis	97. Luquillo	155. La Josefa, (Bucarabonas)
41. Bauta	98. Humacao-Las Piedras	156. Espino
42. Maricao	99. Yabucoa	157. Parcha
43. Vega Baja	100. Guayabota-Cuebradilla	158. 90. Vista
44. Almirante Sur	101. Matuyas-Maunabo	159. Las Marias
45. Corozal	102. Marin Bajo	160. Mayaguez Vieja
46. 90. Negros	103. Los Pollos	161. Miradero-Mayaguez
47. Barrancas Vieja	104. Antigua-Arroyo	162. Anasco
48. Barrancas-Rotas	105. Guanani-Guayama	163. San Sebastian
49. 90. Cedro Arriba	106. Jajome Alto	164. Planta de Desalinizacion
50. Pulguilla	107. Carmen	
51. Barranquitas	108. Parcelas Vazquez	
52. Aibonito	109. Algarrobos	
53. Naranjito	110. Coamo	
54. Anones	111. Apeadero	
	112. Juana Diaz	

Table 28. Water supply facility map number and site names: ground water sites

1. Rocha II	60. Tiburones	118. Campanilla 2
2. Rocha I	61. Pajonal	119. Campanilla 1
3. Quebradilla 1, (El Rey)	62. Cruce Davila 1	120. Campanilla 6
4. Quebradillas 2	63. Cruce Davila 2	121. Campanilla 7
5. Piedra Gorda 1	64. Barceloneta	122. Campanilla 8
6. Zanja II	64-A Cimarrona	123. Candelaria Arena
7. Zanja I	65. Manati 2	124. Sabana Seca
8. Solier	66. Manati 1	125. Rio Plantation II
9. La Paloma 1	67. Manati 3	126. Rio Plantation I
10. La Paloma 2	68. Rio Arriba 2	127. Rio Plantation II
11. Pajuil	69. Rio Arriba 3	128. Levittown 4
12. Campo Alegre 3	70. Coto Sur 4, (Monaco)	129. Levittown 5
13. Campo Alegre 1	71. Los Rabanos	130. Levittown 6
14. Corcovada	72. Boquilla	131. Levittown 7
15. Esperanza 1	73. Rossy	132. Levittown 8
16. Esperanza 2	74. Coto Sur 3, (Roche)	133. Levittown 10
17. Arecibo 4	74-A Coto Sur 1	134. Levittown 9
18. Ojo de Agua 1	75. Cotto Norte 2	135. Pasarell
19. Arecibo 3	76. Cotto Norte 1, (Oval)	136. Planta Alcantarillado
20. Arecibo 5	77. Cotto Norte 3	137. Breakers
21. Arecibo 6	78. Alturas	138. Pozo Elevador, (Policia)
22. Arecibo 7	79. Pugnado 3, (Pugnado Afuera)	139. Esc. Pasarell
23. Carreras	80. Sobrino	140. Cruv-Ariel
24. Ojo de Agua 2	81. Coto Sur 2, (Pueblito)	141. Hacienda I
25. Cayuco	82. Pugnado 2	142. Hacienda II
26. Saltillo Vaca	83. Pugnado 1	143. Pozo Parque
27. Saltillo	84. Vega Baja 2	144. Rio Hondo
28. Bajadero	85. Vega Baja 3	145. Helechal
29. Santana 1	86. Vega Baja 1	146. Pozo Pasto
30. Santana 2	87. Almirante 3	147. Playita
31. Miraflores 3	88. Almirante 2	148. Madero
32. Miraflores 1 y 2	89. Monserrate	149. Asonante Nuevo
33. Jovales 3	90. Sabana Hoyos 3, (Carmelita)	150. Caonillas 2
34. Jovales 2	91. Manati	151. San Luis
35. Arenales	92. Sabana Hoyos 1	152. Los Robles
36. Jayuya 4	93. Sabana Hoyos 2	153. Parque Bombas
37. Jayuya 8	94. Bajura I	154. Caonillas 1
38. Jayuya 3	95. Bajura II	155. La Plata
39. Jayuya 6	96. General Electric I	156. Maton I
40. Jayuya 5	97. General Electric II	157. Maton III
41. Jayuya 7	98. La Ponderosa	158. Naranjo
42. Garrochales 1	99. Vega Alta, (Pueblo)	159. Ceiba
43. Garrochales 2	100. Vega Alta 2	160. Calle Padilla
44. Jovales 1	101. Pampanos	161. Cerca Planta Alcantarillado
45. Sabana Hoyos 4	102. Forestal	162. Frente Cementerio
46. Sabana Hoyos 3	103. Maguayo 2	163. Rabanal
47. Sabana Hoyos 2	104. Maguayo 3	164. Villa del Carmen
48. Sabana Hoyos 1	105. Maguayo 4	165. Planicie I
49. Florida 7	106. Vivoni	166. Henry Barracks I
50. Florida 6	107. Higullar 1	167. Henry Barracks II
51. Florida 3	108. San Antonio II	168. Radio Lay, (La Ley)
52. Monte Bello 5	109. San Antonio I	169. Montellanos, (Bungalo)
53. Florida 4	110. San Antonio III	170. Caserio Nuevo
54. Florida 1	111. Barranca Nueva	171. Caserio Viejo
55. Florida 8, (Las Vegas)	112. Barranca Vieja	172. Valdivieso
56. Florida 2	113. Palo Hincado I	173. La Central
57. Florida 5	114. Palo Hincado II	174. Polvorin
58. Monte Bello 4	115. Regadera	175. Mogote
59. Monte Bello 2	116. Campanilla 5	176. Maton II
	117. Campanilla 3	177. La Vega I

Table 28. Water supply facility map number and site names: ground water sites (Continued)

178. La Vega II	238. Fibers 2	298. Febles
179. La Vega III	239. Cimarrona	299. Atomica
180. Planicie II, (Rural)	240. Mareas	300. A-E-E
181. Finca Bosch	241. Puente Jobos 2	301. Chardon
182. Miguel Such	242. Villodas	302. Alhambra
183. Los Pollitos	243. Fibers 5	303. La Mocha I
184. Truman Bithson	244. Mar Negro I, (Las Mareas)	304. Restaurada 1
185. Hiram Bithson	245. Pozo I, (Salinas)	305. Restaurada 2
186. University Gardens	246. Pozo II, (Salinas)	306. Restaurada 3
187. Las Americas	247. Texidor	307. Restaurada 4
188. Padilla	248. Coco II	308. Restaurada 5
189. Gabriela Mistral	249. Coco III	309. Restaurada 6
190. Los Caobos	250. San Felipe	310. Restaurada 7
191. Puerto Nuevo	251. Mar Negro II, (Las Mareas)	311. Restaurada 8
192. Bayamoncito	252. Coqui I	312. Restaurada 9
193. Zepera	253. Coqui II	313. Restaurada 10
194. Calle Baldorioty	254. Sauza I	314. Muneras
195. El Puente	255. Sauza II	315. Quebrada 2
196. Pozo en el Puente	256. Paso Seco I	316. Los Sitios
197. Treasure Island	257. Paso Seco II	317. Indios
198. Villa Fontana	258. Paso Seco III	318. Palomas
199. Cedro, (Urrutia)	259. Santiago Apostol	319. Rio Loco
200. Masa, (Las 400)	260. Jauca I	320. Los Canos
201. Carraizo	261. Jauca II	321. Guanica Viejo
202. Las Carolina 1	262. Esmeralda 2	322. Guanica Nuevo
203. Las Carolina Viejo	263. Cortada	323. Susua II
204. Bairoa Vieja	264. Descalatrador, (Ollas 2)	324. Ensenada
205. Bairoa A	265. Toa Vaca 3	325. Movil
206. Bairoa C	266. Juana Diaz I, (Puente)	326. Rayo
207. Lake View	267. Juana Diaz II, (La Ceiba)	327. Lola R. de Tio I
208. Tomas de Castro	268. Juana Diaz III	328. Lola R. de Tio II
209. Gurabo, (Experimental)	269. Autopista	329. Retiro 3
210. Boqueron 2	270. J. Diaz Rio, (Rio Canas)	330. Cabo Rojo I
211. Mambiche 3	271. Santo Domingo	331. Cabo Rojo II
212. Culebra 2	272. Dayan	332. Cabo Rojo III
213. Pozo Roig Nuevo	273. Cayabo	333. Cabo Rojo IV
214. Pozo Roig Viejo	274. Aguilita Cana	334. Hormigueros I
215. La Maloja	275. Aguilita Vieja	335. Hormigueros II
216. Limones	276. Experimental, (Aguilita)	336. Hormigueros III
217. Guayanes	277. Vertedero	337. Rosario 3
218. Pozo I, (Maunabo)	278. Casanova	338. Dues I
219. Pozo II, (Maunabo)	279. Aruz Nuevo, (Escuela)	339. Dues II
220. Pozo III, (Maunabo)	280. Aruz Vieja, (Puente)	340. Maricao I
221. Pozo IV, (Urb. San Pedro)	281. Vocacional	341. Consumo
222. Jacaboas I	282. Belgica	342. Marini I
223. Jacaboas II	283. Oliver	343. Marini II
224. Jacaboas III	284. P.R. Cement	344. Rincon I, (Urbano)
225. Jacaboas IV	285. Canas	345. Rincon II, (Urbano)
226. Guilarte 1	286. Glenview	346. Calvache I
227. Pozo I, (Patillas)	287. Esc. Ismael Maldonado	347. Calvache II
228. Pozo II, (Patillas)	288. Valle Verde 2	348. Calvache III
229. Pozo IV, (Patillas)	289. Sta. Clara	349. Rincon I, (Rural)
230. Pozo I, (Arroyo)	290. Morell Campos	
231. Pozo II, (Matadero)	291. Arjona	
232. Pozo III, (Arroyo)	292. Jardines Fagot	
233. Pozo V, (Texaco)	293. Blasini	
234. Pitahaya I	294. Ramos Antonini	
235. Pitahaya II	295. Sauri	
236. Belinda	296. Ruiz Gelvis	
237. Fibers 1	297. A.A.A.	

Table 3. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Adjuntas

WELLS																	
FACILITY NAME		LATITUDE			LONGITUDE			ANNUAL AMOUNT (MILLION GALLONS)									
SALTILLO		180922			0664205			12.2									
SALTILLO VACA		180801			0664340			30.0									
FILTER PLANTS																	
FACILITY NAME		LATITUDE			LONGITUDE			ANNUAL AMOUNT (MILLION GALLONS)									
ADJUNTAS		180910			0664300			332.2									
CAPAEZ		181148			0664531			14.0									
GUILARTE		181020			0664617			30.8									
TANAMA		181303			0664531			50.5									
VEGAS ARRIBA		180957			0664118			23.0									
YAHUECAS		181210			0664652			38.2									
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
GROUND WATER																	
FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
SALTILLO	03/30/81	8.0	5	0.0	26	7.0	11.0	0.8	84	23.0	8.0	0.0	37.0	205	0.30	0.18	0.00
SALTILLO VACA	03/30/81	8.0	0	0.0	19	10.0	2.0	0.8	83	---	8.0	0.0	42.0	177	0.40	0.11	0.00
SURFACE WATER																	
FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ADJUNTAS	03/30/81	8.2	5	0.0	25	6.0	6.0	0.9	81	5.0	10.0	0.0	27.0	174	0.60	0.12	0.00
CAPAEZ	04/27/82	8.0	0	0.8	29	4.0	5.0	3.1	81	2.0	14.0	0.0	44.0	204	2.10	0.00	0.02
GUILARTE	04/27/82	7.7	0	0.5	35	8.0	3.0	1.0	115	5.0	10.0	0.0	22.0	192	0.40	0.15	0.01
TANAMA	04/27/82	8.2	0	0.7	25	6.0	8.0	1.5	88	---	13.0	0.0	38.0	185	0.90	0.21	0.02
VEGAS ARRIBA	04/27/82	8.0	0	0.8	26	7.0	2.0	0.9	90	---	9.0	0.0	32.0	157	0.50	0.09	0.03
YAHUECAS	04/27/82	8.0	0	0.5	38	6.0	---	1.5	121	5.0	18.0	0.0	33.0	226	1.20	0.04	0.02

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

GROUND WATER

GROUND WATER																	
FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
SALTILLO	03/30/81	8.0	5	0.0	26	7.0	11.0	0.8	84	23.0	8.0	0.0	37.0	205	0.30	0.18	0.00
	03/30/81	8.0	0	0.0	19	10.0	2.0	0.8	83	---	8.0	0.0	42.0	177	0.40	0.11	0.00
SURFACE WATER																	
FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ADJUNTAS	03/30/81	8.2	5	0.0	25	6.0	6.0	0.9	81	5.0	10.0	0.0	27.0	174	0.60	0.12	0.00
CAPAEZ	04/27/82	8.0	0	0.8	29	4.0	5.0	3.1	81	2.0	14.0	0.0	44.0	204	2.10	0.00	0.02
GUILARTE	04/27/82	7.7	0	0.5	35	8.0	3.0	1.0	115	5.0	10.0	0.0	22.0	192	0.40	0.15	0.01
TANAMA	04/27/82	8.2	0	0.7	25	6.0	8.0	1.5	88	---	13.0	0.0	38.0	185	0.90	0.21	0.02
VEGAS ARRIBA	04/27/82	8.0	0	0.8	26	7.0	2.0	0.9	90	---	9.0	0.0	32.0	157	0.50	0.09	0.03
YAHUECAS	04/27/82	8.0	0	0.5	38	6.0	---	1.5	121	5.0	18.0	0.0	33.0	226	1.20	0.04	0.02



Table 4. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Aguadilla

WELLS

-----  
 N O N E

FILTER PLANTS

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
AGUADILLA-VIEJA	182703	0670803	704.0
AGUADILLA-NUEVA	182703	0670803	3417.4
AGUADILLA-RAMEY	182836	0670757	945.5

QUALITY OF WATER OF SELECTED SURFACE WATER SITES

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 SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
AGUADILLA-VIEJA	12/17/82	8.1	5	1.0	38	10.0	5.0	2.6	130	8.0	8.0	0.1	4.0	216	0.10	0.00	0.00
AGUADILLA-NUEVA	12/17/82	7.9	5	1.4	48	4.0	8.0	2.1	130	8.0	9.0	0.1	0.0	211	0.50	0.00	0.00
AGUADILLA-RAMEY	02/21/81	7.5	0	1.0	41	4.0	3.0	1.6	48	12.0	12.0	1.0	4.0	182	0.00	0.00	0.00

Table 5. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Aguas Buenas

WELLS																	
-----																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT											
BAYAMONCITO		181422		0660938		(MILLION GALLONS)											
						20.4											
FILTER PLANTS																	
-----																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT											
AGUAS BUENAS		181539		0660614		(MILLION GALLONS)											
						370.9											
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
-----																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	S04	Cl	F	Si02	TDS	NO3-N	Fe	Mn
BAYAMONCITO	05/20/83	7.1	0	0.3	42	12.0	13.0	1.2	120	22.0	21.0	0.3	50.0	311	1.40	0.22	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	S04	Cl	F	Si02	TDS	NO3-N	Fe	Mn
AGUAS BUENAS	05/23/83	7.4	0	0.1	44	16.0	2.0	1.4	133	16.0	22.0	0.7	34.0	299	1.00	0.00	0.00

**Table 6. -- Public water-supply installations and water-quality analyses for Puerto Rico Aqueduct and Sewer Authority facilities at - Aibonito**

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
ASOMANTE NUEVO	180754	0661629	19.9
ASOMANTE VIEJO	-----	-----	16.9
BAUZA 1	180603	0661340	10.2
CAONILLAS 1	180837	0661555	11.7
CAONILLAS 2	180904	0661527	13.0
CERCA PLANTA ALCANTARILLADO	181032	0660945	13.6
LOS ROBLES	180819	0661522	0.0
SAN LUIS	180903	0661627	0.0
SINAI	-----	-----	0.0
MATADERO	180817	0661621	22.6
PARQUE 3OMBAS	180831	0661545	2.5
PLAYITA	180715	0661624	27.8
LA PLATA	180908	0661336	0.0
POZO PASTO	180831	0661640	31.8
FILTER PLANTS			
-----	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
AIBONITO	180840	0661700	428.2
AIBONITO NUEVO	-----	-----	275.3
ILGARROBOS	180545	0661614	12.8

# QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ASOMANTE NUEVO	12/18/80	8.3	0	0.2	33	15.0	67.0	2.0	332	10.0	41.0	0.3	48.0	358	2.20	0.13	0.00
ASOMANTE VIEJO	12/18/80	8.1	0	0.3	41	15.0	55.0	4.3	195	16.0	49.0	0.3	44.0	332	1.90	0.13	0.00
CAONILLAS 1	12/05/80	8.2	5	0.4	31	18.0	56.0	1.6	201	8.0	32.0	0.1	35.0	293	1.10	0.38	0.00
CAONILLAS 2	12/03/80	8.1	0	0.2	29	26.0	38.0	1.5	197	12.0	38.0	0.1	40.0	300	1.80	0.13	0.00
LOS ROBLES	06/06/77	7.4	0	0.0	38	12.0	37.0	---	175	9.0	28.0	0.0	47.0	281	1.50	0.15	0.00
SAN LUIS	12/18/80	8.1	5	2.2	46	1.7	47.0	2.0	223	13.0	37.0	0.2	38.0	336	1.40	0.74	0.00
SINAI	06/21/77	7.3	0	1.0	58	17.0	40.0	---	186	27.0	63.0	0.0	47.0	356	3.80	0.17	0.00
MATADERO	12/04/80	7.6	5	0.1	45	10.0	44.0	1.9	196	7.0	32.0	0.1	50.0	325	1.20	0.16	0.00
PARQUE BOMBAS	04/26/77	7.8	0	0.5	46	14.0	37.0	---	201	5.0	35.0	0.0	39.0	316	1.30	0.15	0.00
PLAYITA	12/04/80	8.1	10	0.3	35	12.0	43.0	1.3	182	7.0	30.0	0.2	35.0	284	1.30	0.14	0.00
LA PLATA	12/18/80	7.9	0	0.2	91	43.0	56.0	1.7	352	43.0	18.0	0.3	38.0	603	7.50	0.33	0.00
POZO PASTO	12/05/80	7.9	0	0.8	33	13.0	35.0	1.2	173	5.0	25.0	0.1	41.0	259	1.70	0.18	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
AISCNITO	11/24/81	7.2	0	0.4	25	6.0	18.0	2.8	67	29.0	25.0	0.2	25.0	212	0.50	0.20	0.00
ALGARROBOS	11/24/81	7.8	0	0.4	53	11.0	67.0	2.6	222	45.0	41.0	0.3	32.0	421	0.00	0.00	0.00

Table 7. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Anasco

WELLS																	
-----																	
N O N E																	
-----																	
FILTER PLANTS																	
-----																	
FACILITY NAME		LATITUDE				LONGITUDE				ANNUAL AMOUNT (MILLION GALLONS)							
ANASCO		181807				0670609				175.2							
-----																	
QUALITY OF WATER OF SELECTED SURFACE WATER SITES																	
-----																	
SURFACE WATER																	
-----																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ANASCO	12/17/82	8.0	5	3.0	21	6.0	4.0	2.8	71	---	10.0	0.0	36.0	156	1.40	0.00	0.00

Table 8. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Arecibo

WELLS  
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
ARECIBO 007	182519	0664210	180.8
ARECIBO 4	182458	0664223	252.6
ARECIBO 5	182511	0664223	304.8
ARECIBO 6	182509	0664232	246.0
ARECIBO 7	182505	0664232	275.7
BAJADERO	182558	0664056	155.0
CARRERAS	182425	0664110	61.1
ESPERANZA 1	182358	0664512	13.9
ESPERANZA 2	182237	0664517	62.1
GARROCHALES 1	182732	0663628	24.2
GARROCHALES 2	182735	0663610	40.3
JOVALES 1	182740	0663557	85.8
JOVALES 2	182242	0663751	7.9
JOVALES 3	182254	0663855	22.9
MIRAFLORES 1 y 2	182529	0663857	72.0
MIRAFLORES 3	182542	0663854	68.3
SANTANA 1	182638	0663849	175.9
SANTANA 2	182628	0663850	137.0
SABANA HOYOS 1	182340	0663547	58.1
SABANA HOYOS 2	182333	0663609	60.0
SABANA HOYOS 3	182420	0663602	58.4
SABANA HOYOS 4	182556	0663659	54.7

FILTER PLANTS  
-----

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
ARECIBO	182430	0664323	1007.7
RIO ARRIBA	181905	0664117	68.3

Table 8. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Arecibo - (Continue)

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

FACILITY NAME	DATE	GROUND WATER																SURFACE WATER															
		pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ARECIBO 007	10/17/80	7.4	0	0.0	77	6.0	52.0	0.9	239	14.0	16.0	0.0	12.0	288	0.30	0.00	0.00																
ARECIBO 4	10/17/80	7.3	0	0.4	80	9.0	22.0	0.9	300	13.0	17.0	0.0	9.0	306	1.10	0.11	0.00																
ARECIBO 5	10/17/80	7.4	0	0.0	80	6.0	30.0	1.2	230	35.0	19.0	0.1	12.0	319	0.40	0.00	0.00																
ARECIBO 6	10/17/80	7.5	0	0.4	80	5.0	25.0	1.0	278	15.0	17.0	0.0	11.0	298	1.50	0.30	0.00																
ARECIBO 7	10/17/80	7.1	0	0.0	80	24.0	23.0	1.1	219	10.0	10.0	0.0	9.0	276	1.90	0.12	0.00																
CARRERAS	10/17/80	7.0	-	---	44	2.0	13.0	1.7	121	11.0	10.0	0.1	17.0	181	0.70	0.00	0.00																
ESPERANZA 1	10/17/80	7.3	0	0.4	75	3.0	3.0	0.3	192	5.0	7.0	0.0	7.0	266	0.50	0.00	0.00																
ESPERANZA 2	03/27/80	7.4	0	0.0	65	8.0	67.0	0.3	312	6.0	16.0	0.1	11.0	367	0.30	0.00	0.00																
GARROCHALES 1	05/13/80	7.8	0	0.0	103	10.0	90.0	4.0	270	22.0	140.0	0.0	6.0	586	2.70	0.15	0.00																
GARROCHALES 2	10/17/80	7.4	-	0.3	74	23.0	138.0	5.1	247	30.0	206.0	0.0	5.0	691	5.00	0.00	0.00																
JOVALES 1	10/17/80	7.0	0	0.0	60	10.0	6.0	0.4	185	---	12.0	0.0	2.0	198	1.70	0.00	0.00																
JOVALES 2	10/17/80	6.9	0	0.3	27	13.0	3.0	0.5	112	---	10.0	0.2	5.0	150	0.90	0.00	0.00																
JOVALES 3	10/17/80	7.2	0	1.0	57	5.0	16.0	0.7	244	---	14.0	0.0	3.0	279	2.40	0.13	0.00																
MIRAFLORES 1 y 2	10/17/80	7.3	0	0.0	33	31.0	31.0	0.6	253	---	21.0	0.0	8.0	303	2.50	0.00	0.01																
MIRAFLORES 3	10/17/80	7.2	0	0.0	65	23.0	22.0	0.6	761	2.0	15.0	0.0	8.0	324	5.20	0.22	0.00																
SANTANA 1	10/17/80	7.5	0	0.6	84	15.0	58.0	1.5	246	14.0	93.0	0.0	7.0	441	2.70	0.00	0.00																
SANTANA 2	10/17/80	7.0	0	0.0	67	5.0	13.0	1.0	178	---	21.0	0.0	7.0	271	2.70	0.08	0.00																
SABANA HOYOS 1	10/17/80	7.3	0	0.0	60	25.0	18.0	0.7	264	4.0	20.0	0.0	5.0	311	2.40	0.00	0.01																
SABANA HOYOS 2	10/17/80	7.1	0	0.0	86	4.0	15.0	0.7	242	---	16.0	0.0	7.0	282	1.10	0.00	0.00																
SABANA HOYOS 3	10/17/80	7.4	0	0.0	85	4.0	17.0	0.6	240	---	15.0	0.0	7.0	281	1.80	0.00	0.00																
SABANA HOYOS 4	10/04/82	6.9	0	0.8	97	---	20.0	0.9	249	13.0	18.0	0.0	11.0	-	1.20	0.00	0.00																
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn																
ARECIBO	07/14/82	6.7	0	0.0	55	2.0	8.0	0.9	134	11.0	11.0	0.0	7.0	229	0.60	0.30	0.00																
RIO ARRIBA	07/14/82	6.9	0	0.0	71	---	2.0	0.2	166	3.0	9.0	0.0	5.0	239	0.20	0.00	0.00																

Table 9. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Arroyo

WELLS  
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
POZO 1 (ARROYO)	175827	0660301	63.9
BELINDA	175904	0660345	61.9
GUILARTE 2	180218	0665829	60.3
POZO 2 (MATADERO)	175833	0660243	18.2
POZO 3 (ARROYO)	175823	0660333	0.0
POZO 4 (ARROYO)	-----	-----	33.0
PITAHAYA 1	175942	0660325	12.9
PITAHAYA 2	175944	0660327	32.8
POZO 5 (TEXACO)	175837	0660233	53.8

FILTER PLANTS  
-----

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
ANTIGUA-ARROYO	180128	0660507	0.2

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES  
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GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
POZO 1 (ARROYO)	11/26/80	7.6	0	0.3	48	18.0	58.0	0.6	210	42.0	46.0	0.2	31.0	390	1.00	0.10	0.00
POZO 2 (MATADERO)	03/04/77	7.7	0	0.0	53	19.0	48.0	---	187	49.0	51.0	0.0	36.0	394	7.30	0.05	0.00
POZO 3 (ARROYO)	03/14/77	7.4	0	3.0	13	5.0	21.0	---	45	28.0	16.0	0.4	24.0	226	0.40	0.15	0.00
POZO 4 (ARROYO)	11/26/80	7.3	0	0.5	52	19.0	50.0	0.4	205	40.0	45.0	0.2	36.0	374	2.50	0.14	0.00
PITAHAYA 1	06/01/82	6.8	0	0.0	41	14.0	35.0	0.8	173	120.0	35.0	0.0	15.0	409	0.20	0.12	0.00
PITAHAYA 2	12/16/80	8.1	5	0.3	58	25.0	52.0	0.5	229	40.0	55.0	0.1	36.0	422	3.70	0.14	0.00
POZO 5 (TEXACO)	11/29/79	7.3	0	0.1	54	21.0	11.0	0.5	97	45.0	52.0	0.0	33.0	426	38.00	0.14	0.00

SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ANTIGUA-ARROYO	09/14/82	7.7	0	0.0	69	10.0	6.0	0.9	117	66.0	31.0	0.8	4.0	265	0.50	0.24	0.00





Table 11. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Barranquitas

FACILITY NAME	WELLS		ANNUAL AMOUNT (MILLION GALLONS)
	LATITUDE	LONGITUDE	
BARRANCA NUEVA	181303	0661840	0.0
BARRANCA VIEJA	181207	0661859	1.1
HELECHAL	181010	0661902	0.0
PALO HINCADO 1	181132	0661958	12.3
PALO HINCADO 2	191150	0662053	17.1

FACILITY NAME	FILTER PLANTS		ANNUAL AMOUNT (MILLION GALLONS)
	LATITUDE	LONGITUDE	
BARRANCAS-BOTAS	191404	0661853	86.6
BARRANQUITAS	181121	0661815	265.7
BARRANCA VIEJA	181257	0661923	2.0

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
BARRANCA NUEVA	03/12/75	8.0	0	2.0	35	4.0	21.0	---	142	6.0	19.0	0.0	33.0	274	1.20	0.00	0.00
BARRANCA VIEJA	12/03/75	7.3	0	0.0	31	12.0	15.0	---	139	7.0	12.0	0.0	35.0	215	0.20	0.00	0.00
HELECHAL	07/06/82	7.4	0	0.7	33	5.0	17.0	0.9	119	11.0	11.0	0.0	4.0	233	0.00	0.14	0.00
PALO HINCADO 1	12/18/80	8.1	0	0.0	25	18.0	11.0	1.1	150	6.0	16.0	0.1	33.0	221	1.00	0.14	0.00
PALO HINCADO 2	12/18/80	7.9	0	0.1	35	11.0	19.0	1.1	149	3.0	14.0	0.2	59.0	227	1.00	0.14	0.00

SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
BARRANCAS-BOTAS	09/08/82	6.6	5	2.0	43	4.0	13.0	3.6	115	11.0	20.0	0.0	6.0	233	0.70	0.23	0.00
BARRANQUITAS	09/08/82	7.2	0	0.2	37	13.0	7.0	1.9	108	30.0	18.0	0.0	7.0	234	0.60	0.00	0.00
BARRANCA VIEJA	09/08/82	7.0	0	0.2	32	10.0	19.0	0.9	136	9.0	13.0	0.0	7.0	194	0.80	0.22	0.00



Table 13. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Cabo Rojo

WELLS												
FACILITY NAME				LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)				
CABO ROJO 1				180605		0670754		538.9				
CABO ROJO 2				180605		0670754		0.0				
CABO ROJO 3				180558		0670753		335.9				
CABO ROJO 4				180626		0670751		161.5				

QUALITY OF WATER OF SELECTED WELLS												
GROUND WATER												
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F
CABO ROJO 1	03/26/80	8.1	0	0.0	92	49.0	21.0	0.7	376	66.0	24.0	0.2
CABO ROJO 2	04/03/80	8.1	0	0.0	95	38.0	45.0	0.8	383	59.0	34.0	0.2
CABO ROJO 3	03/26/80	8.1	0	0.0	79	29.0	38.0	0.7	302	25.0	40.0	0.2
CABO ROJO 4	04/03/80	8.2	0	0.0	88	8.0	105.0	1.9	352	33.0	65.0	0.2





Table 16. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Carolina

FACILITY NAME	WELLS		LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
	LATITUDE			
CEDRO (URRUTIA)	181744		0655458	8.9
MASA (LAS 400)	181755		0655503	13.6
VILLA FONTANA	182406		0655822	2.3

FACILITY NAME	FILTER PLANTS		LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
	LATITUDE			
BARRAZA	181911		0655559	16.9

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

FACILITY NAME	DATE	GROUND WATER															Mn
		pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	
CEDRO (URRUTIA) MASA (LAS 400) VILLA FONTANA	02/08/83	6.5	5	1.3	61	23.0	22.0	0.7	228	8.0	37.0	0.1	45.0	387	2.30	0.00	0.00
	03/25/83	7.7	10	4.0	16	8.0	7.0	0.5	61	2.0	16.0	0.0	27.0	162	0.20	0.37	0.00
	01/15/80	6.7	0	6.0	31	5.0	33.0	3.3	113	10.0	34.0	0.0	62.0	230	1.60	0.00	0.05
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
BARRAZA	03/25/83	7.6	20	44.0	48	18.0	55.0	1.3	222	40.0	36.0	0.1	46.0	399	0.50	0.00	0.00

Table 17. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Cayey

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
BAUZA 2	180607	0661331	14.0
LA CENTRAL	180743	0660804	25.0
CASERIO NUEVO	180647	0660948	17.5
CASERIO VIEJO	180642	0660951	13.6
FINCA BOSCH	180708	0661026	0.0
HENRY BARRACKS 1	180706	0660908	5.9
HENRY BARRACKS 2	180641	0660918	11.8
LA VEGA 1	180605	0660753	0.0
LA VEGA 2	180720	0660757	12.3
LA VEGA 3	180737	0660711	3.6
MATON 1	180831	0661236	10.2
MATON 2	180722	0661046	13.6
MATON 3	180800	0661236	27.0
MONTELLANOS (BUNGALO)	180718	0660833	63.7
PLANICIE 1	180720	0660757	0.0
PLANICIE 2 (URBANO)	-----	-----	0.0
PLANICIE 2 (RURAL)	180737	0660711	20.5
VALDIVIESO	180657	0660926	0.0

-----  
FILTER PLANTS

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CAYEY	180630	0661007	883.9
BO. CEDRO	180524	0660836	6.6
CULEBRAS-CAYEY	180405	0660802	42.7
GUAYATE	180742	0660414	253.2
JAJOME ALTO	180337	0660904	3.8
MATON	180758	0661231	0.1
PASTO VIEJO-CAYEY	-----	-----	0.0

Table 17. --- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Cayey - (Continue)

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
LA CENTRAL	03/04/75	7.7	0	0.0	54	23.0	100.0	---	314	60.0	50.0	0.2	34.0	505	0.40	0.00	0.00
CASERIO NUEVO	04/27/77	7.7	0	0.0	83	24.0	47.0	---	287	23.0	70.0	0.0	43.0	506	2.20	0.15	0.00
CASERIO VIEJO	12/17/80	7.9	0	0.4	60	38.0	10.0	0.6	216	22.0	39.0	0.2	42.0	385	2.90	0.30	0.00
FINCA BOSCH	12/17/81	7.9	0	0.3	67	47.0	64.0	0.6	392	23.0	57.0	0.3	43.0	489	2.10	0.16	0.00
HENRY BARRACKS 1	08/29/73	7.0	0	0.0	54	43.0	50.0	---	316	18.0	79.0	0.1	35.0	545	2.00	0.10	0.00
LA VEGA 2	10/21/81	8.0	20	26.0	41	7.0	52.0	0.8	205	10.0	21.0	0.0	40.0	287	0.10	0.22	0.15
LA VEGA 3	10/20/81	8.1	0	1.4	43	4.0	56.0	0.7	202	11.0	26.0	0.0	36.0	298	0.10	0.61	0.10
MATON 1	12/17/80	8.0	0	0.2	60	23.0	39.0	0.9	267	22.0	30.0	0.2	29.0	328	1.40	0.13	0.00
MATON 2	12/17/80	7.9	0	0.2	59	22.0	36.0	1.0	256	22.0	28.0	0.2	25.0	390	0.30	0.13	0.00
MONTELLANOS (BUNGALO)	04/27/77	7.4	0	1.0	65	21.0	90.0	---	329	40.0	55.0	0.0	36.0	562	0.90	0.15	0.00
PLANICIE 2 (URBANO)	09/21/83	7.0	5	1.0	46	3.0	123.0	1.6	292	13.0	67.0	0.0	45.0	-	0.10	0.00	0.00
PLANICIE 2 (RURAL)	09/21/83	7.0	5	1.0	46	3.0	123.0	1.6	292	13.0	67.0	0.0	45.0	---	0.10	0.00	0.00
VALDIVIESO	09/16/77	7.5	0	0.0	32	10.0	17.0	---	106	18.0	24.0	0.0	35.0	214	1.30	0.19	0.00

SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
CAYEY	09/08/82	7.8	5	2.0	28	3.0	6.0	0.9	57	16.0	14.0	0.0	6.0	155	0.10	0.07	0.00
BO. CEDRO	09/08/82	7.6	5	7.4	40	16.0	4.0	1.4	140	7.0	21.0	0.1	7.0	288	0.40	0.15	0.00
CULEBRAS-CAYEY	09/08/82	7.7	0	2.0	33	20.0	---	0.8	106	16.0	16.0	0.0	6.0	207	0.20	0.24	0.00
GUAYATE	11/24/81	7.5	0	1.0	25	---	7.0	0.6	51	7.0	14.0	0.0	29.0	136	0.10	0.21	0.01
JAJOME ALTO	09/08/82	7.5	0	0.4	68	---	12.0	0.5	184	87.0	22.0	0.1	6.0	350	0.10	0.19	0.00
MATON	05/03/75	7.2	-	---	6	5.0	16.0	---	14	30.0	18.0	0.0	24.0	186	0.50	---	0.00
PASTO VIEJO-CAYEY	09/17/73	7.4	0	0.0	35	13.0	33.0	---	176	0.5	26.0	0.0	42.0	275	1.90	0.00	0.00



Table 18. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Ciales

FACILITY NAME	WELLS		LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
	LATITUDE			
LOS RABANOS	182714	0662927		153.4
ROSSY	182813	0662812		125.2
FILTER PLANTS				
-----				
FACILITY NAME			LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
	LATITUDE			
CIALES	182024	0662844		292.3
CIALITOS	181515	0663130		20.5
FRONTON VIEJO	181815	0663357		3.9
FRONTON NUEVO	181643	0663212		76.2

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES  
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FACILITY NAME	DATE	GROUND WATER															Mn
		pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SI02	TDS	NO3-N	Fe	
ROSSY	04/09/81	6.8	0	0.0	55	9.0	10.0	1.8	153	16.0	19.0	0.2	28.0	289	0.70	0.00	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SI02	TDS	NO3-N	Fe	Mn
CIALES	07/14/82	6.8	0	0.2	39	11.0	2.0	1.4	116	9.0	15.0	0.8	25.0	229	0.60	0.16	0.00
CIALITOS	07/14/82	6.9	0	0.2	14	6.0	7.0	2.1	63	---	8.0	0.0	0.0	126	0.40	0.27	0.00
FRONTON NUEVO	07/14/82	7.2	0	0.1	26	1.0	8.0	1.8	75	---	11.0	0.0	28.0	215	0.40	0.13	0.00

Table 19. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Cidra

WELLS			
-----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CALLE BALDORIOY (AEE 6)	131033	0660940	35.7
BAYAMON	-----	-----	5.7
CEIBA	181147	0661024	30.3
CALLE PADILLA	181036	0660947	35.5
CERCA PLANTA ALCANTARILLADO	181032	0660945	0.0
FRENTE CEMENTERIO	181021	0660943	22.5
POZO EN EL PUENTE (CIDRA 1)	181027	0660858	0.0
EL PUEBLO	181045	0660908	0.0
EL PUENTE	181045	0660908	36.2
RABANAL	181026	0661008	19.0
SALIDA CAGUAS	-----	-----	0.0
TREASURE ISLAND	181125	0660921	0.0
VILLA DEL CARMEN	181016	0660927	20.8
ZAPERA	180953	0660652	32.6
FILTER PLANTS			
-----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CIDRA	181155	0660928	360.7

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

FACILITY NAME	DATE	GROUND WATER															
		pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
BAYAMON CEIBA CERCA PLT. ALCANT. POZO EN EL PUENTE EL PUEBLO EL PUENTE RABANAL TREASURE ISLAND VILLA DEL CARMEN ZAPERA	12/09/80	7.5	0	0.4	39	13.0	13.0	0.7	128	25.0	19.0	0.0	36.0	239	0.70	0.17	0.00
	12/09/80	8.0	10	0.9	61	8.0	31.0	0.6	189	23.0	19.0	0.0	47.0	358	1.40	0.52	0.00
	03/07/75	7.5	0	0.0	43	28.0	17.0	---	198	15.0	49.0	0.3	62.0	398	3.40	0.00	0.00
	03/07/75	7.3	5	0.0	44	6.0	29.0	---	146	26.0	20.0	0.1	35.0	---	12.50	0.10	0.00
	03/07/75	7.3	0	0.0	40	16.0	13.0	---	139	15.0	27.0	0.0	57.0	---	1.90	0.00	0.00
	03/07/75	7.3	5	0.0	44	6.0	29.0	---	146	26.0	20.0	0.1	35.0	---	12.50	0.10	0.00
	12/09/80	7.9	5	2.2	64	35.0	55.0	0.8	329	23.0	47.0	0.0	38.0	460	2.10	0.26	1.00
	03/07/75	7.3	0	0.0	11	11.0	15.0	---	75	3.0	19.0	0.1	43.0	172	3.40	0.15	0.00
	09/12/80	7.5	0	2.0	29	15.0	24.0	1.5	138	13.0	33.0	0.1	18.0	292	1.60	0.25	0.00
12/09/80	8.2	5	0.1	30	12.0	29.0	0.7	174	6.0	11.0	0.0	44.0	260	1.00	0.11	0.00	
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
CIDRA	11/24/81	7.5	0	0.7	24	---	13.0	3.7	60	3.0	23.0	0.4	16.0	154	0.00	0.13	0.02

Table 20. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Coamo

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
WELLS			
	-----		
PALMAREJO NUEVO (CALABAZAS)	-----	-----	2.1
PALMAREJO VIEJO (ESCUELA 1)	-----	0661920	0.0
FILTER PLANTS			
	-----		
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
COAMO	180702	0662155	486.2
HAYALES	181035	0662408	40.5
PULGUILLAS	180921	0662027	48.1

QUALITY OF WATER OF SELECTED SURFACE WATER SITES

FACILITY NAME	DATE	SURFACE WATER											
		PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2
COAMO HAYALES PULGUILLAS	04/28/82	7.7	0	0.4	45	11.0	17.0	1.7	157	18.0	18.0	0.6	0.0
	04/28/82	7.8	0	0.6	32	11.0	1.0	1.5	106	3.0	17.0	0.0	31.0
	04/30/82	7.7	0	0.5	34	13.0	29.0	1.8	157	16.0	22.0	0.1	39.0
										TDS	NO3-N	Fe	Mn
										273	0.30	0.05	0.00
										207	0.30	0.37	0.00
										261	0.50	0.10	0.01

Table 21. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Comerio

WELLS			
-----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
BREAKERS	181333	0661430	0.0
CRUV--ARIEL	181436	0661357	0.0
ESCUELA PASARELL	181332	0661430	0.0
HACIENDA 1	181305	0661449	0.0
HACIENDA 2	181305	0661447	0.0
NARANJO	181325	0661031	42.4
PINAS ABAJO	-----	-----	11.8
PLANTA ALCANTARILLADO (POZO)	181410	0661428	0.0
PASARELL	181334	0661430	33.5
POZO ELEVADO (POLICIA)	181307	0661442	0.0
POZO PARQUE	181307	0661445	0.0
RIO HONDO	181244	0661449	0.0
FILTER PLANTS			
-----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CEDRITOS-COMERIO	181244	0661154	131.0
COMERIO	181333	0661315	226.3
SALOMAS	181348	0661357	2.0

Table 22. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Corozal

WELLS				
-----				
N O N E				
FACILITY NAME		FACILITY NAME		
		LATITUDE		LONGITUDE
		-----		
				ANNUAL AMOUNT (MILLION GALLONS)
COROZAL		182005	0661923	550.0
NEGROS		181643	0662003	74.0
PALOS BLANCOS		1817 --	06618 --	200.0

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
SURFACE WATER

FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
COROZAL NEGROS	02/01/83	7.5	5	3.0	32	12.0	6.0	2.2	94	20.0	22.0	0.5	30.0	249	1-10	0.00	0.00
	SI02/01/83	7.3	10	3.0	24	12.0	4.0	2.2	84	9.0	19.0	0.3	28.0	195	0.50	0.00	0.00

Table 23. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Culebra

WELLS																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
CULEBRA 2		181911		0651640		0.0											
FILTER PLANTS																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
PLANTA DE DESALINIZACION		181820		0651745		15.0											
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
CULEBRA 2	09/18/78	7.0	0	0.4	326	60.0	590.0	1.5	357	153.0	130.0	0.0	39.0	---	14.30	0.15	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
PLANTA DE DESAL.	05/22/83	7.3	0	0.1	---	7.0	55.0	3.2	12	3.0	99.0	0.1	0.0	226	0.00	0.03	0.00

Table 24. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Dorado

FACILITY NAME	WELLS		LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
	LATITUDE			
SAN ANTONIO 1	182646		0661605	174.0
SAN ANTONIO 2	182706		0661641	415.0
SAN ANTONIO 3	182647		0661606	54.8
FORESTAL	182623		0661816	75.0
HIGUILLAR #1	182638		0661654	63.5
MAGUAYO 2	182538		0661747	4.2
MAGUAYO 3	182540		0661758	279.0
MAGUAYO 4	182549		0661728	470.0
VIVONI	182325		0661727	291.0

QUALITY OF WATER OF SELECTED WELLS

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
SAN ANTONIO 1	01/31/83	7.4	10	2.0	97	11.0	38.0	1.4	236	3.0	30.0	0.0	3.0	446	4.40	0.18	0.00
SAN ANTONIO 2	01/31/83	7.3	0	1.0	95	16.0	71.0	1.6	227	21.0	148.0	0.0	10.0	551	1.80	0.00	0.00
FORESTAL	02/02/83	---	10	3.0	98	9.0	11.0	0.8	253	1.0	25.0	0.0	8.0	334	4.20	0.00	0.00
HIGUILLAR #1	02/02/83	---	5	1.0	91	12.0	0.5	0.9	220	20.0	27.0	0.0	11.0	349	0.00	0.00	0.00
MAGUAYO 2	01/31/83	7.4	5	3.0	99	9.0	13.0	2.9	253	2.0	34.0	0.0	8.0	365	3.60	0.11	0.00
MAGUAYO 3	03/25/83	7.3	5	1.0	82	13.0	18.0	1.1	237	4.0	37.0	0.0	8.0	330	2.00	0.00	0.00
MAGUAYO 4	01/31/83	7.2	5	1.0	92	15.0	12.0	3.4	264	2.0	31.0	0.0	20.0	397	4.20	0.04	0.00
VIVONI	01/28/83	7.2	0	1.0	93	16.0	23.0	1.3	310	2.0	20.0	0.1	11.0	420	2.20	0.02	0.00

Table 25. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Fajardo

WELLS  
 -----  
 N O N E

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
FAJARDO	181740	0654154	2189.0

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
 -----  
 SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
FAJARDO	05/23/83	7.6	5	0.7	15	3.0	10.0	1-2	44	3.0	19.0	0.6	27.0	142	0.30	0.00	0.00



Table 26. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Guanica

FACILITY NAME	WELLS	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
ARENAS	-----	-----	-----	28.9
LOS CANOS	175930	0665345		244.5
ENSENADA	175819	0665549		136.6
GUANICA NUEVO	175843	0665417		232.0
GUANICA VIEJO	175859	0665412		233.5
PALOMAS	180052	0665235		11.4
RIO LOCO	180151	0665315		120.9
SANTA RITA	-----	-----		229.3

QUALITY OF WATER OF SELECTED WELLS

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	GROUND WATER										Fe	Mn
							Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N			
LOS CANOS	06/19/80	7.6	0	0.0	20	50.0	27.0	1.8	263	24.0	18.0	0.1	52.0	405	2.20	0.12	0.02	
ENSENADA	06/19/80	7.8	0	0.0	45	90.0	53.0	1.1	996	50.0	33.0	0.1	50.0	655	2.30	0.25	0.02	
GUANICA NUEVO	06/19/80	7.8	5	0.1	49	30.0	49.0	1.7	481	60.0	63.0	0.2	52.0	890	3.00	0.20	0.01	
GUANICA VIEJO	06/19/80	7.8	5	0.0	45	85.0	144.0	1.9	509	78.0	125.0	0.1	52.0	895	5.10	0.13	0.01	
PALOMAS	05/29/74	8.6	0	0.0	24	57.0	19.0	---	291	19.0	27.0	0.2	44.0	417	2.60	0.05	0.00	
RIO LOCO	09/11/74	8.7	0	0.0	36	64.0	39.0	---	239	22.0	125.0	0.0	51.0	587	5.40	0.02	0.00	
SANTA RITA	05/29/74	8.6	0	0.0	24	57.0	19.0	---	281	19.0	27.0	0.2	44.0	417	2.60	0.05	0.00	

**Table 27. -- Public water-supply installations and water-quality analyses for Puerto Rico Aqueduct and Sewer Authority facilities at - Guayama**

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CIMARRONA	175845	0661044	0.0
FIBERS 1	175716	0660838	90.3
FIBERS 2	175735	0660901	0.0
FIBER 4	-----	-----	0.0
FIBER 5	175729	0660925	7.7
MAREAS	175627	0660841	14.5
PUENTE JOROS 2	175724	0660953	85.0
VILLODAS	175808	0661003	66.1

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CARITE	180552	0660427	32.3
CARMEN	180214	0660918	5.3
GUAMANI-GUAYAMA	180223	0660626	68.3
GUAYAMA	180711	0660637	1288.5

# QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

FACILITY NAME	DATE	GROUND WATER										SURFACE WATER									
		pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn				
CIMARRONA FIBERS 1 FIBERS 2 FIBER 4 FIBER 5 MAREAS PUENTE JOBOS 2	01/02/82	7.5	5	0.0	16	60.0	84.0	1.6	340	28.0	52.0	0.0	42.0	0	8.60	0.15	0.00				
	11/26/80	7.5	0	0.3	29	22.0	43.0	0.5	200	20.0	25.0	0.2	30.0	289	0.00	0.00	0.00				
	11/26/80	7.5	3	0.4	59	35.0	120.0	0.6	437	30.0	54.0	0.4	38.0	605	2.40	0.14	0.00				
	11/26/80	7.5	18	14.0	32	35.0	54.0	0.4	233	40.0	41.0	0.3	36.0	389	2.10	0.22	0.00				
	11/26/80	7.3	0	0.5	38	24.0	44.0	0.3	213	15.0	39.0	0.2	36.0	334	1.90	0.09	0.00				
	11/26/80	7.5	0	0.7	65	21.0	60.0	0.7	279	22.0	54.0	0.3	37.0	416	0.80	0.13	0.00				
	03/17/77	7.7	0	3.0	62	29.0	108.0	---	398	33.0	50.0	0.3	38.0	572	10.00	0.08	0.00				
CARITE CARMEN GUAMANI-GUAYAMA GUAYAMA	09/08/82	7.7	5	0.2	32	5.0	18.0	1.0	42	70.0	19.0	0.0	2.0	147	0.30	0.81	0.00				
	06/25/82	7.0	0	0.8	57	15.0	52.0	0.9	272	5.0	30.0	0.1	26.0	358	0.60	0.00	0.00				
	11/26/80	8.3	5	2.4	12	3.0	12.0	0.7	47	6.0	12.0	0.1	19.0	92	0.00	0.00	0.00				
	09/14/82	7.7	0	1.0	27	3.0	7.6	1.6	46	33.0	11.0	0.3	3.0	53	0.52	0.01	0.00				



Table 29. --- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Guaynabo

WELLS  
 -----  
 N O N E

FILTER PLANTS  
 -----

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
LOS FILTROS	182250	0660716	9243.4

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
 -----  
 SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
LOS FILTROS	03/25/83	7.3	5	2.0	31	16.0	5.0	3.0	96	19.0	27.0	0.1	22.0	213	0.70	0.00	0.00



Table 31. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Hatillo

WELLS																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
CAMPO ALEGRE 1		182431		0664651		45.0											
CAMPO ALEGRE 3		182447		0664738		60.6											
CORCOVADA		182724		0664637		0.0											
PAJUIL		182550		0664718		44.6											
LA PALOMA 1		182622		0664816		51.8											
LA PALOMA 2		182636		0664750		72.1											
SOLLER		182212		0665342		73.7											
FILTER PLANTS																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
HATILLO-CAMUY		182851		0665005		706.1											
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
-----																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
CAMPO ALEGRE 1	09/11/80	7.5	0	0.0	71	7.0	30.0	0.8	243	9.0	11.0	0.0	12.0	289	2.50	0.00	0.02
CAMPO ALEGRE 3	10/17/80	7.4	0	0.0	79	9.0	17.0	0.8	240	3.0	13.0	0.0	10.0	284	1.00	0.00	0.02
PAJUIL	06/12/78	7.5	0	0.0	44	28.0	15.0	1.9	223	2.0	17.0	0.0	9.0	383	---	0.22	0.00
LA PALOMA 1	11/09/80	7.3	5	0.0	74	11.0	20.0	0.6	241	2.0	15.0	0.0	9.0	---	2.80	0.00	0.01
LA PALOMA 2	11/09/80	7.3	0	1.0	101	5.0	11.0	0.6	261	---	17.0	0.0	10.0	345	3.00	0.00	0.02
SOLLER	03/02/81	7.3	0	0.6	32	52.0	3.0	1.7	262	27.0	10.0	1.0	10.0	---	0.00	0.10	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
HATILLO-CAMUY	07/15/82	7.0	0	0.0	67	---	1.0	1.6	129	27.0	9.0	1.0	6.0	260	1.20	0.37	0.00

Table 32. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Hormigueros

FACILITY NAME	WELLS -----	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
HORMIGUEROS 1		180801	0670733	128.3
HORMIGUEROS 2		180730	0670725	117.2
HORMIGUEROS 3		180728	0670730	172.9
JAGUITA		-----	-----	29.3

QUALITY OF WATER OF SELECTED WELLS																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
HORMIGUEROS 1	03/25/80	7.9	5	1.0	71	42.0	29.0	0.8	365	23.0	20.0	0.3	42.0	457	0.00	0.25	0.45
HORMIGUEROS 2	03/25/80	8.0	0	0.0	64	59.0	33.0	0.7	334	17.0	20.0	0.2	52.0	414	0.10	0.12	0.02
HORMIGUEROS 3	03/25/80	8.2	5	1.0	52	31.0	40.0	0.6	300	20.0	20.0	0.2	54.0	407	0.40	0.00	0.02
JAGUITA	03/25/80	7.6	5	0.0	121	15.0	67.0	1.1	351	31.0	87.0	0.2	40.0	552	1.40	0.00	0.02

Table 33. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Humacao

WELLS -----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
MAMBICHE 3	181101	0654801	36.0
FILTER PLANTS -----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
HUMACAO-LAS PIEDRAS	181022	0655203	962.8

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES  
-----

GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
MAMBICHE 3	05/24/83	7.6	0	1.5	41	17.0	21.0	0.7	170	3.0	29.0	0.3	44.0	301	2.20	0.00	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
HUMACAO-LAS PIEDRAS	05/24/83	7.6	0	2.0	24	12.0	6.0	1.6	60	31.0	21.0	0.5	39.0	216	0.50	0.00	0.00



Table 34. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Isabela

WELLS				
-----				
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)	
ARENALES	182151	0663727	2.5	
FILTER PLANTS				
-----				
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)	
ISABELA	182835	0670153	842.1	
LLANADAS	182629	0665850	62.7	

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
 -----

SURFACE WATER													
FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2
ISABELA LLANADAS	07/12/82	6.8	0	0.0	57	2.0	5.0	1.4	136	10.0	14.0	0.2	5.0
	07/15/82	7.0	0	0.4	65	2.0	2.0	1.6	145	7.0	15.0	0.0	7.0
										TDS	NO3-N	Fe	Mn
										241	0.05	0.22	0.00
										242	0.90	0.00	0.00

Table 35. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Jayuya

WELLS		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)	
CAYUCO		181725		0664346		0.0	
JAYUYA 3		181258		0663552		0.0	
JAYUYA 4		181304		0663622		0.0	
JAYUYA 5		181255		0663555		0.0	
JAYUYA 6		181258		0663555		0.0	
JAYUYA 7		181310		0663533		0.0	
JAYUYA 8		181303		0663620		0.0	
FILTER PLANTS		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)	
CANALIZA (CANDIJO)		181057		0663840		22.0	
COABEY		181151		0663217		15.2	
JAYUYA		181333		0663502		193.2	
LA PICA		180953		0663953		21.8	
LIMON		181725		0663600		7.9	
NAMEYES-JAYUYA		181504		0663518		30.3	
VEGUITA		181129		0663524		50.2	

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES														
GROUND WATER														
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS
JAYUYA 3	06/99/78	7.0	10	28.0	36	---	39.0	2.7	92	58.0	20.0	0.1	28.0	177
JAYUYA 4	10/20/69	7.6	0	0.0	16	8.0	11.0	---	69	8.0	13.0	0.0	25.0	124
JAYUYA 5	06/99/78	7.0	0	0.0	42	1.0	40.0	2.9	106	12.0	55.0	0.1	29.0	182
JAYUYA 6	06/99/78	7.2	0	0.0	34	8.0	17.0	2.9	112	11.0	23.0	0.0	27.0	194
JAYUYA 7	05/08/78	7.7	0	0.0	38	16.0	27.0	6.2	147	25.0	32.0	0.0	34.0	293
JAYUYA 8	05/08/78	7.4	0	1.0	35	11.0	15.0	2.5	132	13.0	18.0	0.0	26.0	210
SURFACE WATER														
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS
CANALIZA (CANDIJO)	09/28/81	7.7	0	0.4	17	3.0	5.0	1.1	10	43.0	7.0	0.0	12.0	108
COABEY	07/14/82	7.3	0	0.0	12	1.0	3.0	0.6	32	---	6.0	0.0	26.0	107
JAYUYA	07/14/82	7.2	0	0.0	16	3.0	9.0	1.4	52	7.0	13.0	0.0	19.0	128
LA PICA	07/14/82	7.1	0	0.0	17	5.0	9.0	1.4	72	---	9.0	0.0	4.0	148
LIMON	07/14/82	7.0	0	0.1	12	4.0	8.0	1.8	50	---	10.0	0.0	27.0	141
NAMEYES-JAYUYA	07/14/82	7.3	0	0.0	12	1.0	9.0	1.3	36	---	11.0	0.0	13.0	129
VEGUITA	07/14/82	7.0	0	0.0	11	8.0	7.0	1.3	42	---	23.0	0.0	23.0	111

Table 36. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Juana Diaz

WELLS  
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
AGUILITA VIEJA (PARQUE VIEJO)	180135	0663205	0.0
AMELIA	-----	-----	75.4
AGUILITA NUEVA (PARQUE NUEVO)	-----	-----	0.0
ARUZ VIEJA (PUENTE)	180004	0663156	55.8
ARUZ NUEVO (ESCUELA)	180007	0663142	100.5
AUTOPISTA	180254	0663114	221.6
CASANOVA	180146	0663055	118.0
CAYABO	180511	0663212	18.4
DAYAN	180156	0663029	94.3
EXPERIMENTAL (AGUILITA)	180135	0663132	87.2
HUBELLES	-----	-----	3.6
J. DIAZ RIO (RIO CANAS)	180038	0662808	40.4
JUANA DIAZ I (PUENTE)	180316	0663041	168.5
JUANA DIAZ II (LA CEIBA)	180320	0663045	77.5
JUANA DIAZ III	180316	0663041	86.1
MUNERAS	180558	0664047	10.5
SANTO DOMINGO	180302	0663037	6.6
VERTEDERO	180209	0663040	81.2

FILTER PLANTS  
-----

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
COLLORES	180724	0663205	32.3
JUANA DIAZ	180350	0663015	222.1

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES  
-----

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ARUZ VIEJA	06/18/80	7.6	0	0.2	60	15.0	28.0	1.4	214	30.0	19.0	0.1	26.0	375	1.20	0.29	0.02
ARUZ NUEVO	06/17/80	7.7	0	0.0	69	13.0	42.0	1.5	228	37.0	34.0	0.1	27.0	447	1.40	0.13	0.02
CAYABO	06/20/80	7.3	0	0.0	120	9.0	43.0	---	306	33.0	53.0	0.2	34.0	505	4.90	0.18	0.02
DAYAN	11/10/77	7.9	0	8.7	63	20.0	83.0	---	290	85.0	26.0	0.2	19.0	490	10.00	0.43	0.00
J. DIAZ RIO	06/25/80	7.7	0	0.0	67	19.0	24.0	1.5	248	20.0	19.0	0.1	23.0	375	1.50	0.15	0.00
JUANA DIAZ I	06/20/80	7.8	0	0.0	35	11.0	20.0	1.8	144	12.0	15.0	0.1	21.0	273	0.60	0.10	0.01
JUANA DIAZ II	06/20/80	7.7	0	0.0	63	14.0	22.0	1.6	229	15.0	12.0	0.1	28.0	263	0.70	0.15	0.01
MUNERAS	02/28/78	7.6	0	1.4	47	9.0	15.0	---	150	16.0	14.0	0.0	18.0	216	3.00	0.25	0.00
SANTO DOMINGO	06/20/80	7.6	0	0.0	95	5.0	86.0	1.1	240	60.0	53.0	0.0	46.0	517	6.40	0.54	0.01

SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
COLLORES	04/29/82	7.9	0	1.0	29	6.0	2.0	0.8	92	5.0	9.0	0.0	25.0	134	0.20	0.19	0.00
JUANA DIAZ	04/29/82	7.7	0	0.6	54	8.0	7.0	1.5	167	12.0	16.0	0.6	36.0	328	4.90	0.07	0.05

Table 37. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Juncos

WELLS																	
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N O N E																	
-----																	
FILTER PLANTS																	
-----																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
CAIMITO		181538		0655114		0.5											
JUNCOS		181504		0655045		567.6											
PLANTA REMOCION DE HIERRO		181450		0655106		515.1											
QUALITY OF WATER OF SELECTED SURFACE WATER SITES																	
-----																	
SURFACE WATER																	
-----																	
FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
CAIMITO	05/19/80	8.1	0	2.0	40	3.0	22.0	0.7	92	---	49.0	0.0	29.0	388	1.00	0.36	0.01
JUNCOS	05/20/83	7.2	0	0.1	33	15.0	16.0	2.7	142	5.0	25.0	0.5	35.0	253	0.60	0.10	0.00
PLANTA REMOCION	05/20/83	6.7	0	0.0	72	12.0	37.0	2.3	166	60.0	55.0	0.3	45.0	440	0.90	0.06	0.30

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
 -----  
 SURFACE WATER

Table 38. -- Public water-supply installations and water-quality analyses for Puerto Rico Aqueduct and Sewer Authority facilities at - Lajas

WELLS																	
-----																	
N O N E																	
FILTER PLANTS																	
-----																	
FACILITY NAME			LATITUDE			LONGITUDE			ANNUAL AMOUNT								
LAJAS			180244			0670318			(MILLION GALLONS)								
									555.1								
QUALITY OF WATER OF SELECTED SURFACE WATER SITES																	
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SURFACE WATER																	
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FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SC4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
LAJAS	02/21/81	7.8	0	1.0	33	11.0	---	2.2	99	14.0	11.0	0.1	14.0	192	0.30	0.00	0.00

Table 39. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Lares

WELLS  
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N O N E

FILTER PLANTS  
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
BARTOLO 1	181059	0665053	16.7
BARTOLO 2	181059	0665053	26.3
CASTANER	181024	0664940	35.1
LARES	181718	0665228	248.1
LARES	181719	0665227	261.7
MIRASOL	181510	0665020	56.9
RIO PRIETO	180946	0664931	10.3

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
-----  
SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
BARTOLO 1	07/15/82	6.9	0	0.0	44	11.0	8.0	0.9	156	---	12.0	0.0	---	240	0.80	0.16	0.00
BARTOLO 2	07/15/82	6.9	0	0.0	44	11.0	8.0	0.9	156	---	1.2	0.0	---	240	0.80	0.00	0.00
CASTANER	07/15/82	6.8	0	0.2	58	9.0	7.0	0.8	163	11.0	15.0	0.0	17.0	289	0.60	0.13	0.00
LARES	07/13/82	7.1	0	0.0	29	4.0	13.0	2.5	66	31.0	13.0	0.5	20.0	218	0.60	0.00	0.00
LARES	07/13/82	7.1	0	0.0	29	4.0	13.0	2.5	66	31.0	13.0	0.5	21.0	218	0.60	0.12	0.00
MIRASOL	09/30/81	7.8	0	4.0	14	2.0	6.0	2.2	39	3.0	7.0	0.0	24.0	115	2.60	0.00	0.00
RIO PRIETO	07/13/82	6.8	0	0.0	35	10.0	5.0	0.9	118	---	---	0.0	---	185	0.60	0.00	0.00

Table 40. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Las Marias

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CONSUMO	181245	0670154	33.0
WELLS -----			
FILTER PLANTS -----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
ESPINO	181455	0665429	17.2
LA JOSEFA (BUCARABONES)	181206	0665710	23.6
LAS MARIAS	181447	0665906	139.3
NARANJALES	181228	0665932	14.5
BO. VISTA	181525	0665725	17.6

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
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FACILITY NAME	DATE	PH	COLOR	TUR	SURFACE WATER												
					Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ESPINO	12/17/82	7.9	5	1.0	34	17.0	7.0	1.3	110	29.0	14.0	0.1	36.0	220	3.20	0.00	0.00
LA JOSEFA	12/17/82	8.1	5	2.0	26	8.0	8.0	1.4	94	5.0	9.0	0.0	28.0	189	2.40	0.00	0.00
LAS MARIAS	02/21/81	7.6	0	1.0	26	9.0	6.0	1.7	101	4.0	8.0	1.0	31.0	182	0.60	0.00	0.00
NARANJALES	12/16/82	7.8	5	1.0	28	5.0	2.0	1.1	73	7.0	3.0	0.0	18.0	136	1.50	0.00	0.00
BO. VISTA	12/17/82	8.0	0	1.0	19	12.0	3.0	1.0	78	---	10.0	0.0	36.0	130	3.10	0.00	0.00

Table 41. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Las Piedras

FACILITY NAME	WELLS		ANNUAL AMOUNT (MILLION GALLONS)														
	LATITUDE	LONGITUDE															
BOQUERON 2	181307	0655014	34.8														
FILTER PLANTS																	
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)														
PASTO SECO	181510	0654929	17.4														
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
GROUND WATER																	
FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
BOQUERON 2	05/23/83	6.9	0	0.4	61	25.0	24.0	2.3	240	18.0	32.0	0.2	65.0	424	1.70	0.00	0.00
SURFACE WATER																	
FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
PASTO SECO	05/23/83	7.8	0	0.6	22	7.0	4.0	0.8	65	---	20.0	0.2	37.0	156	0.10	0.09	0.00



Table 42. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Luquillo

WELLS

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 N O N E

FILTER PLANTS

ANNUAL AMOUNT  
 (MILLION GALLONS)  
 807.0

LONGITUDE  
 0654337

LATITUDE  
 181953

FACILITY NAME  
 LUQUILLO

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
 -----  
 SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
LUQUILLO	05/23/83	7.8	0	0.0	12	6.0	7.0	1.1	42	---	16.0	0.6	26.0	150	0.20	0.00	0.00



Table 44. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Maricao

WELLS			
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
MARICAO 1	181013	0665853	0.0
FILTER PLANTS			
-----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
BUCARABONES I	181035	0665538	23.6
BUCARABONES II	181040	0665538	13.6
INDIERA ALTA	180923	0665233	17.7
MARICAO	181005	0665857	131.4
MONTE ESTADO	180933	0665627	52.6

QUALITY OF WATER OF SELECTED SURFACE WATER SITES

SURFACE WATER													
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2
BUCARABONES I	12/16/82	8.0	0	1.7	51	2.0	18.0	2.3	142	9.0	11.0	0.0	24.0
INDIERA ALTA	12/16/82	7.9	0	1.0	33	10.0	12.0	2.4	116	6.0	13.0	0.0	30.0
MARICAO	12/16/82	8.0	5	1.0	20	7.0	--	1.2	113	4.0	--	0.0	26.0
MONTE ESTADO	12/16/82	7.8	5	1.0	24	6.0	17.0	2.8	97	4.0	12.0	0.0	28.0
										TDS	NO3-N	Fe	Mn
										259	3.00	0.10	0.00
										201	3.40	0.00	0.00
										208	1.90	0.00	0.00
										207	3.50	0.10	0.00



Table 46. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Mayaguez

WELLS																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
MARINI 1		181251		0670527		86.6											
MARINI 2		181224		0670427		35.2											
MARINI 3		-----		-----		0.0											
ROSARIO 3		180852		0670517		42.1											
FILTER PLANTS																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
MAYAGUEZ VIEJO		181217		0670736		642.8											
MIRADERO-MAYAGUEZ		181342		0670825		4995.0											
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ROSARIO 3	04/04/79	8.3	10	2.0	15	26.0	2.0	0.4	125	3.0	11.0	0.1	57.0	196	1.60	0.00	0.03
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
MAYAGUEZ VIEJO	02/26/81	8.3	0	2.0	33	10.0	8.0	1.6	124	6.0	8.0	0.0	32.0	201	0.00	0.00	0.00
MIRADERO-MAYAGUEZ	02/26/81	8.3	5	---	32	8.0	6.0	1.6	106	9.0	7.0	0.0	26.0	174	0.40	0.00	0.23

Table 47. -- Public water-supply installations and water-quality analyses for Puerto Rico Aqueduct and Sewer Authority facilities at - Moca

FACILITY NAME		WELLS -----													ANNUAL AMOUNT (MILLION GALLONS)					
		LATITUDE		LONGITUDE																
ROCHA 1		182435		0670207															1.2	
ROCHA 2		182437		0670355															19.8	

QUALITY OF WATER OF SELECTED WELLS -----																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ROCHA 2	09/22/81	7.9	0	1.2	56	18.0	41.0	2.2	252	25.0	19.0	0.0	13.0	285	0.00	0.15	0.00

Table 48. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Morovis

WELLS  
-----  
N O N E

FILTER PLANTS  
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FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn	ANNUAL AMOUNT (MILLION GALLONS)
MOROVIS	09/28/81	7.7	0	1.0	39	2.0	9.0	2.6	69	23.0	19.0	0.5	37.0	231	2.10	0.20	0.00	350.4
MOROVIS SUR	07/14/82	7.0	0	0.2	35	9.0	7.0	1.7	109	9.0	15.0	0.0	27.0	226	0.50	0.16	0.00	309.9
SANAMUERTOS	07/14/82	7.0	0	0.0	27	11.0	2.0	1.8	95	5.0	12.0	0.0	---	194	0.70	0.00	0.00	64.9

QUALITY OF WATER OF SELECTED SURFACE WATER SITES

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SURFACE WATER

Table 49. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Naguabo

WELLS  
-----  
N O N E

FILTER PLANTS  
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
RIO BLANCO	181318	0654705	3584.1
CUBUY	181601	0654538	28.4
CUCHILLA-HIGUERILLO	181407	0654854	42.1
NAGUABO	181443	0654450	459.7

FACILITY NAME	DATE	PH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
RIO BLANCO	05/20/80	7.5	---	13.0	11	3.0	2.0	0.9	34	2.0	11.0	0.0	19.0	127	0.40	0.00	0.60
CUBUY	05/24/83	7.6	0	2.5	14	3.0	7.0	0.8	47	1.0	12.0	0.1	33.0	126	0.10	0.22	0.00
CUCHILLA-HIGUERILLO	05/24/83	8.1	0	3.5	21	16.0	11.0	0.7	117	0.0	17.0	0.2	43.0	213	0.40	0.00	0.00
NAGUABO	05/24/83	8.1	0	4.0	21	8.0	8.0	1.6	71	8.0	19.0	0.3	25.0	174	0.40	0.71	0.00

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
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SURFACE WATER



Table 50. --- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Naranjito

WELLS

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 N O N E

FILTER PLANTS

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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
ANONES	181611	0661427	26.3
80- CEDRO ARRIBA	181454	0661738	303.0
NARANJITO FILTRATION PLANT	181746	0661530	271.0

QUALITY OF WATER OF SELECTED SURFACE WATER SITES

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 SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ANONES	02/02/83	7.2	10	3.0	31	9.7	14.0	1.3	118	2.0	20.0	0.0	30.0	222	0.50	0.03	0.00
80- CEDRO ARRIBA	02/01/83	7.2	5	5.0	33	3.2	8.0	2.2	114	23.0	17.0	0.0	37.0	278	1.10	0.00	0.00
NARANJITO	01/28/82	7.9	0	1.0	34	13.0	25.0	1.5	94	26.0	19.0	0.0	27.0	211	1.50	0.00	0.00

Table 51. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at ~ Orocovis

WELLS									
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N O N E									
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FACILITY NAME									
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Table 53. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Penueles

WELLS  
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N O N E

FILTER PLANTS  
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
MACANA	180552	0664559	33.8
MAL PASO	180543	0664535	22.3
PENUELAS	180417	0664341	744.3
RUCIO	180711	0664131	23.4

QUALITY OF WATER OF SELECTED SURFACE WATER SITES

SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
MACANA	04/27/82	7.8	0	0.9	53	12.0	6.0	1.0	117	55.0	18.0	0.0	18.0	274	0.80	0.06	0.02
MAL PASO	04/29/82	7.8	0	0.5	35	6.0	7.0	0.8	106	12.0	8.0	0.0	11.0	191	0.20	0.06	0.02
PENUELAS	04/27/82	7.3	0	1.0	29	7.0	5.0	0.8	76	18.0	12.0	0.0	18.0	177	0.00	0.25	0.02
RUCIO	04/27/82	6.9	0	4.0	26	9.0	---	1.1	76	19.0	10.0	0.0	21.0	168	0.10	0.62	0.05

Table 56. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Ponce

WELLS			
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
A.A.A	180044	0663548	299.1
A.E.E. (FUENTES FLUVIALES)	180014	0663542	155.8
ALHAMBRA	180057	0663612	261.5
ARJONA	180155	0663713	94.7
ATONICA	180025	0663545	142.2
BELGICA	180022	0663601	116.2
BLASINT	180049	0663830	280.0
CANAS	180048	0663812	0.0
CHARDON	175935	0663704	197.4
ESC. ISMAEL MALDONADO	180025	0663618	13.1
JARDINES FAGOTT	180109	0663558	106.3
FEYLES	180023	0663555	58.9
GLENVIEW	180214	0663710	0.0
MORELL CAMPOS	180053	0663803	0.0
LA MOCHA 1	180905	0664032	16.9
LA MOCHA 2	-----	-----	2.9
OLIVER	175922	0663709	189.5
P.R. CEMENT	180115	0663815	0.0
RAMOS ANTONINI	180120	0663546	99.3
RESTAURADA 1	175947	0663506	153.4
RESTAURADA 2	175947	0663514	92.4
RESTAURADA 3	175946	0663517	96.8
RESTAURADA 4	175946	0663520	102.0
RESTAURADA 5	175947	0663525	78.8
RESTAURADA 6	175948	0663533	96.8
RESTAURADA 7	175948	0663536	90.1
RESTAURADA 8	175948	0663539	87.1
RESTAURADA 9	175949	0663545	51.5
RESTAURADA 10	175924	0663542	139.6
RUIZ BELVIS	175913	0663708	64.4
SANTA MARIA	-----	-----	53.5
SANTA CLARA	180055	0663610	0.0
SAURI	175929	0663701	76.2
U.P.R.	-----	-----	42.4
VOCACIONAL	180020	0663714	238.1
VALLE VERDE 2	180102	0663642	6.9
W. FHEMR	-----	-----	5.8
LA YUCA	-----	-----	10.6
FILTER PLANTS			
-----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
EL ALTO	180313	0664034	35.7
CORRAL VIEJO	180523	0663928	9.8
GUARAGUAO	180744	0664102	22.3
MOGARES SEGUROS	180951	0663652	35.8
QUEBRADA LIMON	180311	0664033	6.0
MARUENO	180558	0664047	16.1
PONCE NUEVA (MAGUEYES)	180234	0663356	3995.3
REAL ANON	180841	0663336	45.8
TIBES	180646	0663820	23.0
PONCE VIEJA	180135	0663657	2888.5

Table 54. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Ponce - (Continue)

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
A.A.A	06/18/80	7.7	0	0.1	35	12.0	25.0	2.0	139	20.0	26.0	0.2	14.0	244	0.30	0.13	0.01
A.E.E.	06/18/80	7.4	0	0.0	73	15.0	42.0	1.5	154	66.0	68.0	0.1	25.0	465	3.10	0.13	0.01
ALHAMBRA	06/18/80	7.6	0	0.0	72	43.0	66.0	2.1	312	20.0	114.0	0.3	26.0	794	2.80	0.22	0.01
ARJONA	06/18/80	7.5	0	0.0	64	26.0	44.0	2.0	254	54.0	38.0	0.2	19.0	372	1.60	0.45	0.02
ATONICA	06/18/80	7.7	5	0.0	69	16.0	55.0	2.4	225	60.0	70.0	0.1	20.0	442	0.00	0.31	0.18
BELGICA	06/18/80	7.6	5	0.2	77	19.0	61.0	1.8	250	69.0	59.0	0.0	21.0	477	0.60	0.14	0.02
BLASINI	06/16/80	7.2	0	0.0	59	42.0	91.0	2.3	337	57.0	82.0	0.2	26.0	620	2.70	0.19	0.02
CHARDON	06/18/80	7.8	0	0.0	70	37.0	51.0	2.0	273	92.0	80.0	0.2	29.0	469	2.90	0.21	0.03
FEBLES	06/18/80	7.7	0	0.2	67	21.0	36.0	2.1	236	8.0	53.0	0.2	20.0	479	2.80	0.15	0.01
LA MOCHA 1	03/18/81	8.2	0	0.1	51	2.0	1.0	0.5	129	5.0	6.0	0.0	23.0	204	0.20	0.11	0.00
OLIVER	06/15/80	7.6	0	0.1	99	20.0	42.0	1.6	230	75.0	76.0	0.2	21.0	551	2.60	0.15	0.02
P.R. CEMENT	99/99/99	8.0	0	3.0	92	25.0	56.0	---	292	48.0	77.0	0.2	31.0	587	2.60	0.05	0.00
RESTAURADA 1	06/18/80	7.5	0	0.1	89	20.0	37.0	1.5	248	75.0	39.0	0.2	21.0	443	1.80	0.25	0.02
RUIZ BELVIS	06/18/80	7.4	0	0.0	117	18.0	18.0	2.1	229	13.0	106.0	0.1	25.0	470	5.80	0.12	0.01
SANTA MARIA	10/17/75	7.2	5	7.0	20	43.0	---	---	225	---	15.0	0.0	---	320	3.50	0.00	0.00
SANTA CLARA	10/14/73	7.3	0	0.0	---	39.0	39.0	---	424	---	139.0	0.0	30.0	123	4.40	0.10	0.00
SAURI	04/06/78	7.6	0	0.1	103	17.0	80.0	---	298	104.0	66.0	0.0	25.0	601	6.20	0.11	0.00
U.P.R.	10/04/73	7.6	0	0.0	50	46.0	65.0	---	280	102.0	53.0	0.0	32.0	557	3.20	0.15	0.00
VOCACIONAL	12/30/80	7.6	0	0.3	43	18.0	4.0	1.7	151	12.0	20.0	0.3	24.0	231	0.30	0.10	0.00
LA YUCA	06/25/80	7.9	0	0.0	73	6.0	27.0	1.0	217	21.0	19.0	0.1	18.0	275	0.80	0.15	0.01

SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
EL ALTO	04/27/82	8.0	0	0.7	32	5.0	16.0	1.1	101	5.0	10.0	0.0	18.0	201	0.20	0.09	0.01
CORRAL VIEJO	04/27/82	8.0	0	0.6	55	9.0	9.0	1.1	171	5.0	14.0	0.1	23.0	274	0.60	0.15	0.01
GUARAGUAO	04/27/82	7.9	0	0.6	23	14.0	2.0	0.8	117	---	12.0	0.1	26.0	189	0.30	0.08	0.00
HOGARES SEGUROS	04/27/82	7.9	0	0.5	15	4.0	1.0	0.6	50	---	6.0	0.0	24.0	120	0.00	0.05	0.01
QUEBRADA LIMON	04/27/82	7.7	0	1.0	42	1.0	7.0	0.9	100	5.0	15.0	0.0	20.0	212	0.30	0.15	0.02
MARUENO	04/27/82	7.7	0	1.7	54	13.0	4.0	0.9	175	7.0	14.0	0.0	20.0	294	0.20	0.43	0.00
PONCE NUEVA (MAGUEYES)	04/27/82	7.8	0	0.7	38	8.0	8.0	1.7	125	9.0	14.0	1.3	15.0	221	0.00	0.04	0.02
REAL ANON	04/29/82	8.0	0	0.5	45	1.0	5.0	0.6	120	1.0	7.0	0.0	34.0	237	0.50	0.05	0.00
TIBES	04/27/82	8.1	0	0.6	66	7.0	3.0	0.9	175	14.0	11.0	0.1	20.0	289	0.70	0.19	0.01
PONCE VIEJA	04/27/82	7.8	0	0.4	42	4.0	13.0	1.7	126	10.0	13.0	0.8	12.0	236	0.00	0.06	0.23

Table 55. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Quebradillas

WELLS -----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
QUEBRADILLAS 2 QUEBRADILLAS 1 (EL REY)	182616	0665605	57.2
	182816	0665618	42.6
FILTER PLANTS -----			
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
QUEBRADILLAS	182549	0665523	587.1

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES  
 -----

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
QUEBRADILLAS 1	10/17/80	7.7	0	5.0	41	2.0	10.0	1.7	32	36.0	11.0	0.0	10.0	172	0.80	0.01	0.01
SURFACE WATER																	
QUEBRADILLAS	07/12/82	6.7	0	0.0	75	5.0	1.0	0.9	180	9.0	15.0	0.7	2.0	303	0.70	0.00	0.00

Table 56. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Rincon

FACILITY NAME	WELLS		ANNUAL AMOUNT (MILLION GALLONS)
	LATITUDE	LONGITUDE	
CALVACHE 1	181923	0671340	42.4
CALVACHE 2	181911	0671342	36.2
CALVACHE 3	181909	0671344	61.9
RINCON 1 (URBANO)	182030	0671442	40.2
RINCON 2	182022	0671451	36.4
RINCON 1 (RURAL)	182023	0671447	13.8

QUALITY OF WATER OF SELECTED WELLS

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
CALVACHE 1	03/28/80	7.4	5	0.0	114	29.0	52.0	0.7	273	37.0	109.0	0.0	46.0	684	1.70	0.00	0.01
CALVACHE 2	03/28/80	7.5	0	0.0	127	7.0	45.0	0.8	283	30.0	92.0	0.1	42.0	557	1.20	0.00	0.03
CALVACHE 3	03/28/80	7.9	0	0.0	99	13.0	42.0	0.6	285	28.0	57.0	0.1	44.0	479	0.30	0.16	0.01
RINCON 1 (URBANO)	11/16/77	7.8	0	0.0	107	17.0	39.0	---	273	26.0	88.0	0.0	23.0	556	4.30	0.40	0.00
RINCON 2	11/16/77	7.4	0	1.0	64	8.0	16.0	---	156	22.0	34.0	0.0	9.0	277	2.70	0.25	0.00



Table 57. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Rio Grande

FACILITY NAME	WELLS		FILTER PLANTS		ANNUAL AMOUNT (MILLION GALLONS)
	----- N O N E		----- LATITUDE		
JIMENEZ			182025	0654833	36.0
PLANTA PUERTO KAI			182235	0654938	578.2
MOROVIS			181839	0654919	38.1
EL YUNQUE			182245	0654906	866.4
ZARZAL			182001	0654654	16.6
GUZMAN ARRIBA			181744	0655018	279.2

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
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SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
JIMENEZ	05/23/83	7.2	5	2.0	11	---	7.0	0.4	28	---	12.0	0.2	19.0	104	0.20	0.00	0.00
MOROVIS	05/23/83	7.0	0	0.1	7	3.0	3.0	0.6	23	---	10.0	0.1	21.0	90	0.20	0.00	0.00
ZARZAL	05/23/83	7.2	0	0.2	7	1.0	8.0	0.3	22	---	11.0	0.1	15.0	88	0.30	0.00	0.00
GUZMAN ARRIBA	03/25/83	7.8	-	2.0	6	3.0	7.0	0.5	25	1.0	9.0	0.0	20.0	113	1.00	0.00	0.00

Table 58. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Sabana Grande

FACILITY NAME		WELLS				ANNUAL AMOUNT (MILLION GALLONS)	
		-----					
		LATITUDE		LONGITUDE			
MOBIL		180414	0665732			77.6	
RAYO		180235	0665809			76.9	
SUSUA 2		180158	0665435			17.4	
		FILTER PLANTS					
		-----					
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)	
LA MAQUINA		180625	0665840			39.6	
MOLINA		180546	0655108			20.3	
SABANA GRANDE		180500	0665712			377.3	

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
-----																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	CL	F	SiO2	TDS	NO3-N	Fe	Mn
MOBIL	03/27/80	8.3	0	0.0	37	22.0	2.0	0.6	160	9.0	13.0	0.0	26.0	261	0.40	0.16	0.01
RAYO	04/03/80	7.5	0	0.0	94	21.0	144.0	1.5	---	66.0	107.0	0.5	37.0	698	3.20	0.00	0.02
SUSUA 2	03/27/80	7.8	0	0.0	104	45.0	77.0	0.8	393	40.0	107.0	0.3	57.0	733	8.90	0.00	0.01
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	CL	F	SiO2	TDS	NO3-N	Fe	Mn
LA MAQUINA	12/16/82	8.2	5	1.0	28	57.0	10.0	1.0	283	18.0	18.0	0.0	40.0	371	0.20	0.00	0.00
MOLINA	12/15/82	8.1	5	1.0	25	67.0	10.0	1.3	317	12.0	20.0	0.0	56.0	436	1.40	0.00	0.00
SABANA GRANDE	02/21/81	7.9	0	0.0	18	30.0	4.0	0.7	153	8.0	12.0	0.1	21.0	239	0.20	0.00	0.00

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
MOBIL	03/27/80	8.3	0	0.0	37	22.0	2.0	0.6	160	9.0	13.0	0.0	26.0	261	0.40	0.16	0.01
RAYO	04/03/80	7.5	0	0.0	94	21.0	144.0	1.5	---	66.0	107.0	0.5	37.0	698	3.20	0.00	0.02
SUSUA 2	03/27/80	7.8	0	0.0	104	45.0	77.0	0.8	393	40.0	107.0	0.3	57.0	733	8.90	0.00	0.01

SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
LA MAQUINA	12/16/82	8.2	5	1.0	28	57.0	10.0	1.0	283	18.0	18.0	0.0	40.0	371	0.20	0.00	0.00
MOLINA	12/15/82	8.1	5	1.0	25	67.0	10.0	1.3	317	12.0	20.0	0.0	56.0	436	1.40	0.00	0.00
SABANA GRANDE	02/21/81	7.9	0	0.0	18	30.0	4.0	0.7	153	8.0	12.0	0.1	21.0	239	0.20	0.00	0.00

Table 59. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Salinas

WELLS																	
-----																	
FACILITY NAME			LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)												
COCO II			175910	0661722	167.5												
COCO III			175922	0661710	112.5												
COQUI I			175827	0661348	35.4												
COQUI 2			175821	0661353	30.1												
MAR NEGRO II (LAS MAREAS)			175727	0661556	31.4												
MAR NEGRO I (LAS MAREAS)			175702	0661551	0.6												
PARCELAS VAZQUEZ			-----	-----	11.0												
POZO I (SALINAS)			175850	0661745	361.4												
POZO II (SALINAS)			175851	0661747	361.4												
SAN FELIPE			175823	0661318	54.2												
TEXIDOR			175828	0661414	116.5												
FILTER PLANTS																	
-----																	
FACILITY NAME			LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)												
PARCELAS VAZQUEZ			180423	0661409	0.0												
LA PLENA			-----	-----	0.0												
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
-----																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
COCO II	11/24/80	7.5	0	0.3	80	21.0	47.0	1.2	215	84.0	52.0	0.1	33.0	487	3.70	0.08	0.00
COCO III	12/16/80	7.7	0	0.4	104	28.0	49.0	1.2	306	83.0	60.0	0.2	37.0	589	2.60	0.10	0.00
COQUI I	11/24/80	7.4	0	0.4	70	19.0	146.0	1.1	356	70.0	98.0	0.4	26.0	629	10.20	0.17	0.00
COQUI 2	11/25/80	7.4	5	0.3	81	26.0	89.0	0.9	382	47.0	49.0	0.3	35.0	547	1.90	0.10	0.00
MAR NEGRO 1	11/28/80	7.2	3	0.7	270	113.0	154.0	2.1	256	74.0	815.0	0.3	43.0	230	2.30	0.66	0.00
PARCELAS VAZQUEZ	11/24/80	7.4	0	0.4	91	28.0	95.0	1.3	347	40.0	100.0	0.2	35.0	692	6.00	0.11	0.00
POZO I (SALINAS)	03/17/77	7.7	0	0.0	105	26.0	55.0	---	306	77.0	66.0	0.1	38.0	614	16.00	0.06	0.00
POZO II (SALINAS)	02/11/75	7.8	0	0.0	88	32.0	51.0	---	314	59.0	57.0	0.1	34.0	460	8.50	0.02	0.00
SAN FELIPE	10/_/_/80	7.5	-	---	32	12.0	320.0	0.7	529	160.0	100.0	1.5	31.0	---	1.10	0.00	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
PARCELAS VAZQUEZ	99/99/75	8.0	0	0.0	68	31.0	45.0	---	260	45.0	67.0	0.2	25.0	427	0.50	0.00	0.00
LA PLENA	04/25/72	7.5	0	0.0	70	24.0	47.0	---	210	100.0	48.0	0.2	27.0	457	0.40	0.00	0.00



Table 61. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - San Juan

FACILITY NAME	WELLS		ANNUAL AMOUNT (MILLION GALLONS)
	LATITUDE	LONGITUDE	
LAS AMERICAS	182415	0660432	0.0
LOS CADROS	182435	0660609	0.0
GABRIELA MISTRAL	182410	0660531	0.0
HIRAM BITHORN	182456	0660456	0.0
PADILLA	182431	0660429	0.0
PUERTO NUEVO	182435	0660505	0.0
LOS POLLITOS	182444	0660448	0.0
MIGUEL SUCH	182448	0660241	0.0
TRUMAN	182502	0660230	30.4
UNIVERSITY GARDENS	182423	0660342	0.0

QUALITY OF WATER OF SELECTED WELLS  
-----  
GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
LAS AMERICAS	02/15/78	7.1	-	12.0	21	7.0	28.0	---	100	13.0	23.0	0.0	31.0	209	2.10	0.00	0.00
LOS CADROS	01/15/80	6.7	0	2.0	35	5.0	2.0	5.5	115	7.0	29.0	0.0	47.0	207	1.30	0.00	0.04
GABRIELA MISTRAL	02/15/78	6.9	5	4.0	31	72.0	28.0	---	90	18.0	38.0	0.0	20.0	225	7.20	1.00	0.00
HIRAM BITHORN	04/01/80	7.6	0	1.0	33	7.0	72.0	3.2	203	27.0	22.0	0.3	53.0	352	3.30	0.00	0.12
PADILLA	01/04/80	7.4	0	5.0	80	12.0	79.0	4.5	186	142.0	85.0	0.4	57.6	644	0.30	0.00	0.75
PUERTO NUEVO	01/29/81	8.2	-	1.0	37	7.0	11.0	3.7	84	23.0	32.0	0.6	24.0	210	0.00	0.00	0.00
LOS POLLITOS	01/15/80	7.4	-	12.0	29	5.0	48.0	3.2	135	23.0	26.0	0.3	59.0	254	0.60	0.00	0.35
MIGUEL SUCH	01/04/80	7.2	0	1.0	101	6.0	25.0	4.5	255	10.0	58.0	0.1	51.0	439	4.70	0.00	0.04
TRUMAN	03/25/83	7.1	0	2.0	90	19.0	55.0	3.1	247	15.0	107.0	0.0	28.0	494	42.00	0.03	0.00
UNIVERSITY GARDENS	05/23/78	7.3	0	0.3	53	16.0	36.0	4.9	195	10.0	48.0	0.0	48.0	353	14.00	0.00	0.00

Table 62. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - San Lorenzo

WELLS																	
-----																	
N O N E																	
-----																	
FILTER PLANTS																	
-----																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
QUEBRADA ARENAS		180703		0655612		15.6											
ESPINO		180650		0660142		137.4											
QUEBRADA HONDA		180840		0660039		9.6											
PLANTA BO. JAGUAL		180912		0660101		92.3											
SAN LORENZO		180926		0655729		847.9											

QUALITY OF WATER OF SELECTED SURFACE WATER SITES																	
-----																	
SURFACE WATER																	
-----																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
QUEBRADA ARENAS	04/26/79	7.4	0	0.8	8	4.0	14.0	1.2	32	4.0	15.0	0.0	28.0	112	2.80	0.00	0.00
ESPINO	05/20/83	7.4	0	0.3	14	5.0	6.0	1.2	50	2.0	12.0	0.2	32.0	154	0.40	0.00	0.00
QUEBRADA HONDA	05/20/83	7.3	0	0.1	22	10.0	2.0	1.1	72	9.0	15.0	0.2	37.0	201	0.80	0.00	0.00
PLANTA BO. JAGUAL	05/20/83	7.3	0	0.1	35	8.0	11.0	2.1	98	15.0	26.0	0.9	37.0	253	0.40	0.09	0.00
SAN LORENZO	05/20/83	6.9	0	0.1	16	7.0	2.0	1.6	43	13.0	13.0	1.4	38.0	186	0.60	0.00	0.00



Table 64. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Santa Isabel

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CORTADA (PLAYITA CORTADA 2)	175933	0662631	78.4
DESCALABRADO (OLLAS 2)	180025	0662606	83.5
ESMERALDA 2	180120	0662035	48.0
JAUCA 1	175800	0662315	0.0
JAUCA 2	175822	0662150	54.6
PASO SECO I (FELICIA 1)	175925	0662331	148.5
PASO SECO II (FELICIA 2)	175918	0662351	243.7
PASO SECO III (FELICIA 3)	175958	0662329	352.3
SANTIAGO APOSTOL (SANTA ISABEL	175810	0662427	117.5

QUALITY OF WATER OF SELECTED WELLS

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
CORTADA	06/18/80	7.6	0	0.0	49	34.0	34.0	1.2	347	33.0	40.0	0.2	23.0	514	2.80	1.18	0.02
DESCALABRADO	06/18/80	7.7	0	0.1	56	37.0	75.0	1.3	347	36.0	48.0	0.2	26.0	511	1.50	0.07	0.02
ESMERALDA 2	06/18/80	7.7	0	0.0	69	24.0	33.0	1.2	286	22.0	21.0	0.4	25.0	421	2.20	0.46	0.02
JAUCA 2	06/18/80	7.6	0	0.1	57	33.0	96.0	0.8	391	33.0	39.0	0.3	28.0	578	2.30	0.45	0.02
PASO SECO I	11/12/78	7.7	0	0.5	73	58.0	---	2.1	397	46.0	48.0	0.0	37.0	575	17.60	0.20	0.00
PASO SECO II	11/28/78	7.6	0	1.9	---	---	---	1.8	413	36.0	43.0	0.0	35.0	551	15.00	0.45	0.00



Table 65. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Toa Alta

WELLS																	
-----																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
SABANA SECA		182505		0661014		12.0											
FILTER PLANTS																	
-----																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
ENRIQUE ORTEGA (LA PLATA)		182112		0661333		19586.5											
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
-----																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
SABANA SECA	02/01/83	6.1	-	3.0	41	8.0	18.0	2.2	117	23.0	26.0	0.5	20.0	282	0.00	0.12	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
ENRIQUE ORTEGA	03/25/83	6.8	5	2.0	42	7.0	17.0	2.3	117	21.0	26.0	0.5	23.0	264	0.90	0.00	0.00

Table 66. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Toa Baja

FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CANDELARIA ARENA	182507	0661310	38.9
CAMPANILLA 1	182527	0661351	357.0
CAMPANILLA 2	182527	0661416	0.0
CAMPANILLA 3	182524	0661416	125.4
CAMPANILLA 5	182519	0661450	0.0
CAMPANILLA 6	182533	0661345	234.0
CAMPANILLA 7	182529	0661335	263.4
CAMPANILLA 9	182530	0661319	255.5
LEVITOWN 4	182611	0661023	142.1
LEVITOWN 5	182623	0661037	0.0
LEVITOWN 6	182622	0661059	0.0
LEVITOWN 7	182623	0661119	0.0
LEVITOWN 8	182632	0661121	0.0
LEVITOWN 9	182639	0661138	0.0
LEVITOWN 10	182642	0661130	0.0
RIO PLANTATION 1	182523	0661011	0.0
RIO PLANTATION 2	182517	0661042	0.0
RIO PLANTATION 3	182516	0661010	0.0

WELLS  
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QUALITY OF WATER OF SELECTED WELLS  
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GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO <sub>3</sub>	SO <sub>4</sub>	Cl	F	SiO <sub>2</sub>	TDS	NO <sub>3</sub> -N	Fe	Mn
CAMPANILLA 1	02/01/83	6.8	5	2.0	161	34.0	233.0	3.3	194	39.0	520.0	0.0	12.0	149	1.30	0.00	0.00
CAMPANILLA 2	02/01/74	7.5	0	0.0	135	77.0	267.0	---	168	43.0	730.0	0.0	10.0	218	6.00	0.00	0.00
CAMPANILLA 3	02/01/83	7.0	-	8.0	95	28.0	75.0	1.8	257	19.0	171.0	0.1	37.0	678	1.20	0.15	0.00
CAMPANILLA 5	02/12/80	7.0	0	0.0	137	14.0	31.0	2.4	335	21.0	159.0	0.0	16.0	729	0.90	0.58	0.03
CAMPANILLA 6	02/01/83	7.0	5	1.0	73	5.0	70.0	1.6	203	6.0	102.0	0.0	14.0	459	1.60	0.00	0.00
CAMPANILLA 7	02/01/83	7.2	-	2.0	76	10.0	14.0	1.3	208	8.0	29.0	0.0	10.0	298	2.40	0.00	0.00
CAMPANILLA 8	02/01/83	7.1	0	3.0	84	7.0	13.0	1.1	211	4.0	32.0	0.0	9.0	324	2.40	0.15	0.00
LEVITOWN 4	02/01/83	7.0	5	2.0	98	7.0	39.0	1.7	229	21.0	76.0	0.0	11.0	472	1.50	0.11	0.00
LEVITOWN 5	02/18/80	7.5	0	0.2	75	16.0	22.0	1.5	223	5.0	49.0	0.0	8.0	380	1.80	0.00	0.01
LEVITOWN 6	02/12/80	7.4	5	0.0	90	6.0	27.0	1.2	197	5.0	75.0	0.0	12.0	414	2.20	0.00	0.01
LEVITOWN 7	03/13/78	7.3	5	1.0	87	11.0	72.0	---	178	16.0	156.0	0.0	9.0	497	9.50	0.00	0.00
LEVITOWN 9	02/12/80	7.3	5	0.0	84	1.0	23.0	0.9	215	4.0	27.0	0.0	10.0	343	2.30	0.00	0.01
LEVITOWN 10	01/22/75	7.4	0	0.0	114	21.0	141.0	---	161	32.0	343.0	0.1	9.0	102	3.00	0.00	0.00
RIO PLANTATION 1	05/22/73	7.2	0	0.0	52	31.0	96.0	---	114	74.0	195.0	0.0	13.0	616	4.60	0.00	0.00
RIO PLANTATION 2	03/13/78	7.4	0	0.0	93	6.0	33.0	---	224	10.0	68.0	0.0	6.0	374	10.00	0.05	0.00
RIO PLANTATION 3	03/25/76	8.0	0	0.0	77	7.7	43.0	---	196	6.0	79.0	0.0	11.0	398	4.80	0.00	0.00
	03/25/76	8.3	0	0.0	33	13.0	21.0	---	118	30.0	31.0	0.0	23.0	241	0.70	0.00	0.00

Table 67. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Trujillo Alto

FACILITY NAME		WELLS		ANNUAL AMOUNT													
		-----		(MILLION GALLONS)													
		LATITUDE	LONGITUDE														
CARRAIZO		182025	0660124	0.0													
FACILITY NAME		FILTER PLANTS		ANNUAL AMOUNT													
		-----		(MILLION GALLONS)													
		LATITUDE	LONGITUDE														
SERGIO CUEVAS		182218	0660118	25909.8													
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
-----																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
CARRAIZO	03/25/80	7.7	0	0.2	66	32.0	76.0	0.7	317	33.0	76.0	0.2	63.0	562	1.90	0.00	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
SERGIO CUEVAS	03/25/83	7.6	5	2.0	29	11.0	7.0	3.0	80	18.0	26.0	0.3	22.0	228	0.30	0.11	0.00

Table 69. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Utuado

FACILITY NAME	WELLS		ANNUAL AMOUNT (MILLION GALLONS)
	----- N O N E		
	FILTER PLANTS		
	----- LATITUDE LONGITUDE		
ANGELES I	181630	0664831	30.2
ANGELES II	181700	0664750	27.6
CERCADILLO	181654	0664108	0.0
MAMEYE-UTUADO	181753	0663538	16.8
MAMEYES-UTUADO	181753	0660508	0.0
RONCADOR CAYUCO	181430	0664535	68.4
SABANA GRANDE	181642	0664026	33.1
UTUADO	181444	0664012	483.6
VIVI ARRIBA	181245	0664103	14.7

QUALITY OF WATER OF SELECTED SURFACE WATER SITES

FACILITY NAME	DATE	SURFACE WATER															Fe	Mn
		pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N			
ANGELES I	07/14/82	7.2	0	88.0	26	1.0	3.0	2.0	37	22.0	12.0	0.0	22.0	176	1.00	0.00	0.00	
ANGELES II	07/14/82	7.4	0	0.0	28	7.0	12.0	1.6	57	25.0	29.0	0.0	17.0	191	0.70	0.00	0.00	
CERCADILLO	09/10/80	7.8	10	9.0	14	4.0	10.0	21.0	53	3.0	12.0	0.0	33.0	111	0.70	0.00	0.04	
MAMEYE-UTUADO	07/14/82	7.0	0	0.0	22	8.0	6.0	20.0	68	4.0	7.0	0.0	29.0	160	0.80	0.00	0.00	
MAMEYES-UTUADO	07/14/82	7.0	0	0.0	22	8.0	6.0	2.0	68	4.0	7.0	0.0	29.0	160	0.70	0.00	0.00	
RONCADOR CAYUCO	07/14/82	6.9	0	0.1	26	4.0	10.0	20.0	66	22.0	11.0	0.0	20.0	191	0.20	0.00	0.00	
SABANA GRANDE	07/14/82	7.3	5	14.0	11	11.0	6.0	23.0	---	---	28.0	0.0	---	149	0.30	0.00	0.00	
UTUADO	07/14/82	6.7	0	0.2	33	11.0	9.0	24.0	87	44.0	20.0	0.0	24.0	264	0.60	0.00	0.00	
VIVI ARRIBA	07/14/82	6.7	0	0.1	106	9.0	4.0	26.0	58	230.0	10.0	0.1	---	538	0.30	0.00	0.00	

Table 69. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Vega Alta

WELLS																	
-----																	
FACILITY NAME			LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)										
VEGA ALTA 1			182446		0661948		52.6										
VEGA ALTA 2			182446		0661947		50.0										
BAJURA 1 (NUEVO)			182530		0662033		420.0										
BAJURA 2			182517		0662019		49.3										
GENERAL ELECTRIC 1			182506		0661952		---										
GENERAL ELECTRIC 2			182505		0661952		176.7										
LA PONDEROSA			182515		0661939		---										
PAMPANOS			182319		0661859		142.7										
SABANA HOYOS1			182700		0662029		159.5										
SABANA HOYOS 2			182658		0662019		35.5										
SABANA HOYOS 3 (CARMELITITA)			182652		0662112		49.6										
MANATI			182609		0662048		200.0										
MONSERRATE			182629		0662150		260.0										
FILTER PLANTS																	
-----																	
FACILITY NAME			LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)										
MARICAO			182223		0662311		111.8										
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																	
-----																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SC4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
BAJURA 1	01/31/83	7.2	5	1.0	107	14.0	12.0	1.2	304	12.0	22.0	0.0	13.0	363	2.20	0.00	0.00
BAJURA 2	02/12/80	7.1	5	0.0	112	5.0	14.0	1.2	306	13.0	16.0	0.0	26.0	412	1.30	0.00	0.04
GENERAL ELECTRIC 1	01/31/83	7.1	5	1.0	122	11.0	19.0	2.6	306	10.0	39.0	0.0	11.0	460	6.20	0.00	0.00
GENERAL ELECTRIC 2	01/31/83	7.2	-	5.0	120	10.0	17.0	1.4	295	20.0	45.0	0.0	11.0	476	2.20	0.00	0.00
LA PONDEROSA	02/12/80	7.2	5	0.0	84	17.0	13.0	1.2	249	5.0	24.0	0.0	11.0	402	6.30	0.00	0.02
PAMPANOS	02/02/83	6.8	5	1.0	116	11.0	23.0	1.6	309	10.0	36.0	0.0	10.0	446	4.70	0.25	0.00
SABANA HOYOS1	02/02/83	6.5	-	3.0	86	3.0	1.0	1.1	201	16.0	36.0	0.0	7.0	370	5.80	0.21	0.00
SABANA HOYOS 2	03/25/83	7.0	-	6.0	82	11.0	13.0	1.2	198	19.0	43.0	0.0	10.0	374	0.30	0.00	0.00
SABANA HOYOS 3	01/31/83	7.6	5	2.0	95	7.0	15.0	1.3	236	2.0	33.0	0.0	10.0	369	4.00	0.00	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SC4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
MARICAO	01/31/83	7.3	5	2.0	75	5.0	30.0	0.6	237	8.0	18.0	0.0	6.0	283	1.30	0.00	0.00

Table 70. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Vega Baja

WELLS									
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)						
ALMIRANTE 2	182453	0662208	24.0						
ALMIRANTE 3	182530	0662220	66.0						
ALTURAS	182605	0662419	228.5						
MAGUEYES	-----	-----	57.4						
PUGNADO 1	182600	0662438	153.3						
PUGNADO 2	182554	0662458	180.4						
PUGNADO 3 (PUGNADO AFUERA)	182552	0662628	95.4						
VEGA BAJA 1	182646	0662311	129.3						
VEGA BAJA 2	182644	0662407	368.6						
VEGA BAJA 3	182652	0662415	440.8						
FILTER PLANTS									
-----									
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)						
ALMIRANTE SUR	182452	0662208	185.3						
VEGA BAJA	182608	0662249	328.7						

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES																
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GROUND WATER																
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe Mn
ALMIRANTE 2	12/10/76	7.3	0	0.0	90	8.0	6.0	---	234	2.0	19.0	0.0	---	321	---	0.10 0.00
ALMIRANTE 3	10/18/80	6.9	0	0.0	59	8.0	21.0	1.0	174	5.0	21.0	0.0	8.0	265	5.20	0.00 0.00
ALTURAS	04/09/81	7.8	0	0.0	76	7.0	85.0	3.6	209	25.0	118.0	0.2	7.0	443	2.30	0.00 0.00
PUGNADO 1	04/09/81	7.2	0	0.2	69	5.0	62.0	1.6	206	11.0	68.0	0.1	7.0	419	4.60	0.00 0.00
PUGNADO 3	07/15/80	7.7	0	0.0	69	6.0	54.0	0.9	255	4.0	28.0	0.0	5.0	419	5.50	0.08 0.00
VEGA BAJA 1	04/09/81	7.2	0	0.0	111	19.0	119.0	3.5	221	36.0	253.0	0.2	13.0	819	2.30	0.00 0.01
VEGA BAJA 2	03/09/81	7.2	0	0.0	99	10.0	96.0	3.0	210	21.0	178.0	0.2	7.0	577	4.80	0.12 0.00
VEGA BAJA 3	03/09/81	7.4	0	0.0	97	6.0	40.0	1.5	207	12.0	82.0	0.2	6.0	386	5.70	0.00 0.01
SURFACE WATER																
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe Mn
ALMIRANTE SUR	07/12/82	7.0	0	0.0	99	1.0	4.0	0.6	228	4.0	17.0	0.0	4.0	324	1.40	0.00 0.00
VEGA BAJA	07/12/82	6.9	0	0.0	63	7.0	19.0	2.2	190	22.0	12.0	0.9	14.0	280	0.60	0.00 0.00

Table 71. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Villalba

FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)	
ALTURAS DE VILLALBA		-----		-----		1.0	
TOA VACA 3		180653		0662910		8.0	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)	
APEADERO		181000		0662733		17.3	
JULITA		180900		0663049		18.0	
SEMIL		180724		0663116		24.0	
VILLALBA		180658		0663056		563.6	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)	
APEADERO		181000		0662733		17.3	
JULITA		180900		0663049		18.0	
SEMIL		180724		0663116		24.0	
VILLALBA		180658		0663056		563.6	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)	
APEADERO		181000		0662733		17.3	
JULITA		180900		0663049		18.0	
SEMIL		180724		0663116		24.0	
VILLALBA		180658		0663056		563.6	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)	
APEADERO		181000		0662733		17.3	
JULITA		180900		0663049		18.0	
SEMIL		180724		0663116		24.0	
VILLALBA		180658		0663056		563.6	

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

FACILITY NAME		DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
TOA VACA 3		03/10/80	8.2	0	0.5	---	0.5	73.0	0.3	---	10.0	16.0	0.7	21.0	182	0.10	0.16	0.00
FACILITY NAME		DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
APEADERO		04/28/82	8.0	0	0.7	60	34.0	10.0	0.7	122	37.0	10.0	0.0	18.0	247	0.00	0.16	0.00
JULITA		04/29/82	8.0	0	0.5	45	5.0	11.0	0.6	130	8.0	15.0	0.1	32.0	266	0.20	0.07	0.00
SEMIL		04/29/82	8.0	0	0.9	43	9.0	1.0	0.8	121	12.0	11.0	0.0	37.0	272	0.90	0.15	0.00
VILLALBA		04/29/82	7.9	0	0.7	54	1.0	2.0	---	142	17.0	15.0	0.9	36.0	256	0.70	0.05	0.00

Table 72. -- Public water-supply installations and water-quality analyses for Puerto Rico Aqueduct and Sewer Authority facilities at - Yabucoa

WELLS				
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)	
GUAYANES	180416	0655011	44.4	
LIMONES	180401	0655236	186.1	
LA MALOJA	180155	0655130	0.6	
POZO ROIG NUEVO	180408	0655223	218.5	
POZO ROIG VIEJO	180334	0655235	50.6	
FILTER PLANTS				
-----				
FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)	
GUAYABOTA-QUEBRADILLA	180414	0655736	14.8	
YABUCA	180227	0655256	127.4	

QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES

GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
GUAYANES	05/24/83	8.4	0	0.3	23	7.0	5.0	1.5	63	8.0	19.0	0.7	26.0	159	0.10	0.00	0.00
LIMONES	05/23/83	7.1	0	0.3	35	13.0	38.0	1.6	155	7.0	45.0	0.4	62.0	---	0.80	0.00	0.00
LA MALOJA	05/23/83	7.1	0	0.0	48	17.0	29.0	1.8	177	18.0	38.0	0.2	48.0	---	1.50	0.00	0.00
POZO ROIG NUEVO	05/23/83	7.4	0	2.0	29	12.0	41.0	2.1	157	7.0	35.0	0.4	52.0	313	0.30	0.00	0.10
POZO ROIG VIEJO	05/23/83	6.6	0	0.0	39	20.0	26.0	1.9	157	15.0	47.0	0.3	51.0	324	0.30	0.04	1.00

SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
GUAYABOTA-QUEBRADILLA	05/24/83	7.8	0	1.0	13	10.0	4.0	1.2	64	1.0	12.0	0.2	41.0	153	0.30	0.00	0.00
YABUCA	05/24/83	7.3	0	2.0	18	8.0	10.0	1.3	57	4.0	28.0	0.2	42.0	181	0.70	0.00	0.00



Table 73. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Yauco

WELLS -----																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
BARINAS		-----		-----		168.5											
FILTER PLANTS -----																	
FACILITY NAME		LATITUDE		LONGITUDE		ANNUAL AMOUNT (MILLION GALLONS)											
DUEY		180420		0665050		23.3											
RANCHERAS		180759		0665426		45.5											
YAUCO		180309		0665119		669.1											
QUALITY OF WATER OF SELECTED WELLS AND SURFACE WATER SITES -----																	
GROUND WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
BARINAS	05/24/73	8.2	0	0.0	94	28.0	39.0	---	282	75.0	55.0	0.0	33.0	529	0.10	0.15	0.00
SURFACE WATER																	
FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
DUEY	04/27/82	7.9	0	0.7	14	9.0	---	1.1	61	---	10.0	20.1	19.0	141	0.00	0.14	0.00
RANCHERAS	04/27/82	8.1	0	0.6	37	11.0	---	1.8	106	18.0	12.0	0.1	18.0	218	0.90	0.05	0.00
YAUCO	04/27/82	7.9	0	0.7	49	8.0	3.0	1.2	139	12.0	11.0	0.8	24.0	249	0.30	0.19	0.02

Table 74. -- Public water-supply installations and water-quality analyses for Puerto Rico  
 Aqueduct and Sewer Authority facilities at - Canovanas

WELLS  
 -----  
 N O N E

FILTER PLANTS  
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FACILITY NAME	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
CANOVANA	182242	0655330	1776.0
CUBUY	181608	0655334	332.5

QUALITY OF WATER OF SELECTED SURFACE WATER SITES  
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 SURFACE WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
CANOVANA	01/27/83	7.3	5	3.0	40	12.0	9.0	1.4	93	29.0	26.0	0.0	28.0	230	0.30	0.00	0.00
CUBUY	03/25/83	7.5	10	5.0	14	10.0	5.0	0.4	---	2.0	17.0	0.0	27.0	142	0.40	0.00	0.00

Table 75. -- Public water-supply installations and water-quality analyses for Puerto Rico  
Aqueduct and Sewer Authority facilities at - Florida

FACILITY NAME	WELLS -----		
	LATITUDE	LONGITUDE	ANNUAL AMOUNT (MILLION GALLONS)
FLORIDA 1	182156	0663350	33.5
FLORIDA 2	182158	0663254	41.6
FLORIDA 3	182124	0663347	26.8
FLORIDA 4	182208	0663406	75.3
FLORIDA 5	182201	0663230	99.8
FLORIDA 6	182134	0663425	49.8
FLORIDA 7	182148	0663539	48.1
FLORIDA 8 (LAS VEGAS)	182237	0663315	16.9

QUALITY OF WATER OF SELECTED WELLS  
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GROUND WATER

FACILITY NAME	DATE	pH	COLOR	TUR	Ca	Mg	Na	K	CaCO3	SO4	Cl	F	SiO2	TDS	NO3-N	Fe	Mn
FLORIDA 1	10/17/80	7.1	0	0.0	95	6.0	21.0	---	267	5.0	22.0	0.0	5.0	304	2.60	---	0.00
FLORIDA 2	10/17/80	7.0	0	0.0	77	8.0	4.0	0.3	210	---	12.0	0.0	4.0	257	2.60	0.00	0.00
FLORIDA 3	10/17/80	7.3	0	0.0	59	3.0	9.0	0.5	153	---	12.0	0.0	4.0	217	9.40	0.07	0.00
FLORIDA 4	10/17/80	7.6	0	0.0	77	13.0	14.0	0.6	295	1.0	12.0	0.1	8.0	296	2.50	0.00	0.00
FLORIDA 5	10/17/80	7.0	5	5.0	70	10.0	42.0	0.4	282	---	12.0	0.0	4.0	336	2.90	0.00	0.00
FLORIDA 6	10/17/80	7.0	0	0.0	96	7.0	18.0	0.3	276	---	12.0	0.0	5.0	311	4.30	0.00	0.00
FLORIDA 7	10/17/80	7.5	0	0.0	75	14.0	20.0	3.9	259	1.0	24.0	0.2	12.0	293	1.90	0.00	0.01

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