Prepared in cooperation with the
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

INTRODUCTION

A regional assessment of the surficial aquifers in Dade, Broward, and Palm Beach Counties, Fla., including the Biscayne aquifer, was begun in 1979 by the U.S. Geological Survey, in cooperation with the South Florida Water Management District. The purpose of the first phase of the study was to determine the geologic, hydrologic, and water-quality data available in the files of the U.S. Geological Survey and other public agencies. This report summarizes, through tables and maps, the types of data available for Palm Beach County. Similar reports for Broward County (Sonenshein and others, 1982) and Dade County (Sonenshein and others, 1984) have been published.

SITE NUMBERING

Ground-Water Sites

Each well is assigned a unique 15-digit site identification number. The first six digits denote the latitude in degrees, minutes, and seconds; the next seven digits generally denote the longitude in degrees, minutes, and seconds; and the last two digits are a sequence number to distinguish between sites with the same latitude and longitude. Examples of site identification numbers are 262502080045201 and 262502080045202, which refer to two wells that have equal coordinates—latitude 26°25'02" north and longitude 080°04'52" west. The last two digits, 01 and 02, distinguish the two wells. In some cases, the latitude and longitude locations assigned to a site have been changed to show greater accuracy. When this occurs, the original site identification number is maintained for purposes of recordkeeping.

An agency number is also assigned to each well. Numbers assigned by the U.S. Geological Survey consist of the two letter prefix "PB" (for Palm Beach) and a sequence number, such as PB-217 and PB-1256.

Surface-Water Sites

Surface-water sites are identified by the site number assigned by the agency which maintains the site. The U.S. Geological Survey sites are assigned, in downstream order, eight digit numbers such as 02279000 which arrange sites by drainage basins. The South Florida Water Management District sites are of two types, "SS" and "S", followed by a number. The "S" sites, such as S-6U and S-6D, refer to sites upstream and downstream from a surface-water control structure.

All surface-water sites have also been assigned 15-digit latitude, longitude, and sequence numbers, which in the absence of a downstream order number, are used for data storage.

MAP NUMBERING

A composite list of wells was used to assign the map numbers, beginning in the southeast corner of Palm Beach County and moving from east to west along a second of latitude and then east to west along the next second of latitude.

Surface-water sites were assigned map numbers separately from well sites, beginning with 900. The numbering system is the same as that for well sites, except that surface-water sites at the same control structure have identical map numbers.

SOURCES OF DATA

The agency cited has the data in its files although the agency may not have collected the data. The agencies cited in this report are: Broward County Engineers, Water Management Division (BCWMD), Palm Beach County Health Department (PBCHD), South Florida Water Management District (SFWMD), and the Geological Survey (USGS).

DESCRIPTION OF TABLES

Table 1 lists the agency number, map number, and site identification number for each well, indicating which tables contain information on that well.

Table 2 lists geologic and geophysical log data for selected wells (sheet 1, figs. 1 and 2). Most of the logs can be found in publications listed in the references at the end of this report.

Table 3 lists well-construction data and frequency of data collection for ground-water level observation sites (sheet 2, figs. 3–5), which were part of a monitoring network in 1980. Wells believed to be destroyed or no longer usable have been omitted from the table.

Table 4 lists active surface-water data-collection sites (sheet 2, figs. 3–5) where either stage or stage and discharge are measured. The "site location" section is a brief description of the general area of the data-collection site. For some U.S. Geological Survey sites, this name or a similar name has been used for site identification in earlier publications.

Table 5 lists ground-water quality sites (sheet 3, figs. 6–14) for which concentrations of most major inorganic constituents (calcium, magnesium, sodium, potassium, sulfate, chloride, and bicarbonate) have been determined or for which special analyses have been made, such as for trace inorganic constituents or for pesticides. Wells used only for chloride or salinity monitoring were excluded.

Codes are used in the "types of data" column in table 5 to represent individual or groups of water-quality parameters. A code listing indicates that at least one water sample from the well contains an analysis of that type. An "I" indicates that most or all of the major inorganic constituents were determined. Other codes which represent more than one constituent are listed even if only one of the constituents was determined.

The "years sampled" column shows the year, or interval of years, samples were collected. An interval, such as 74–80, indicates that several samplings were made during that period although there may be differences in the constituents that were determined for each sample.

The "remarks" section lists alternate well names, such as S-1104, and information about data collection. The number given in the second column of the table is generally used only by the U.S. Geological Survey whereas other agencies might use the name in the "remarks" section, such as Boca Raton Supply Well No. 6.

Care should be taken in comparing indexed data, which appear similar in the tables due to differences in methods of collection and analysis; furthermore, many of these methods have changed through the years. Significant differences may occur among geologic logs where terminology and descriptive detail vary and where various drilling and sampling methods affect the qualities of geologic samples. This report does not compare the information. Data which have limited value, such as drillers' logs or data not readily available, have not been included.

SELECTED REFERENCES

Causarás, C. R., 1982, Annotated bibliography of the geology and hydrology of the surficial aquifers in Dade, Broward, and Palm Beach Counties, Florida: U.S. Geological Survey Open-File Report 82-154, 59 p.

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Schneider, J. J., 1976, Geologic data from test drilling in Palm Beach County, Florida, since 1970: U.S. Geological Survey Open-File Report 76-711.

Schroeder, M. C., Milliken, D. L., and Love, S. K., 1954, Water resources of Palm Beach County, Florida: Florida Geological Survey Report of Investigations 13, 63 p.

Sonenshein, R. S., Causarás, C. R., and Fish, J. E., 1984, Index of hydrologic data for selected sites in Dade County, Florida, 1923–80: U.S. Geological Survey Open-File Report 84-430, 3 sheets.

Sonenshein, R.S., Fish, J.E., Causarás, C.R., and Poore, D.M., 1982, Index of hydrologic data for selected sites in Broward County, Florida, 1939–80: U.S. Geological Survey Open-File Report 82-920, 39 p. and 4 sheets.

Swayze, L.J., McGovern, M.D., and Fischer, J.N., 1980, Lithologic logs and geophysical logs from test drilling in Palm Beach County, Florida, since 1974: U.S. Geological Survey Open-File Report 81-68, 93 p.

U.S. Army Corps of Engineers, 1968, Water resources for central and southern Florida project, main report.

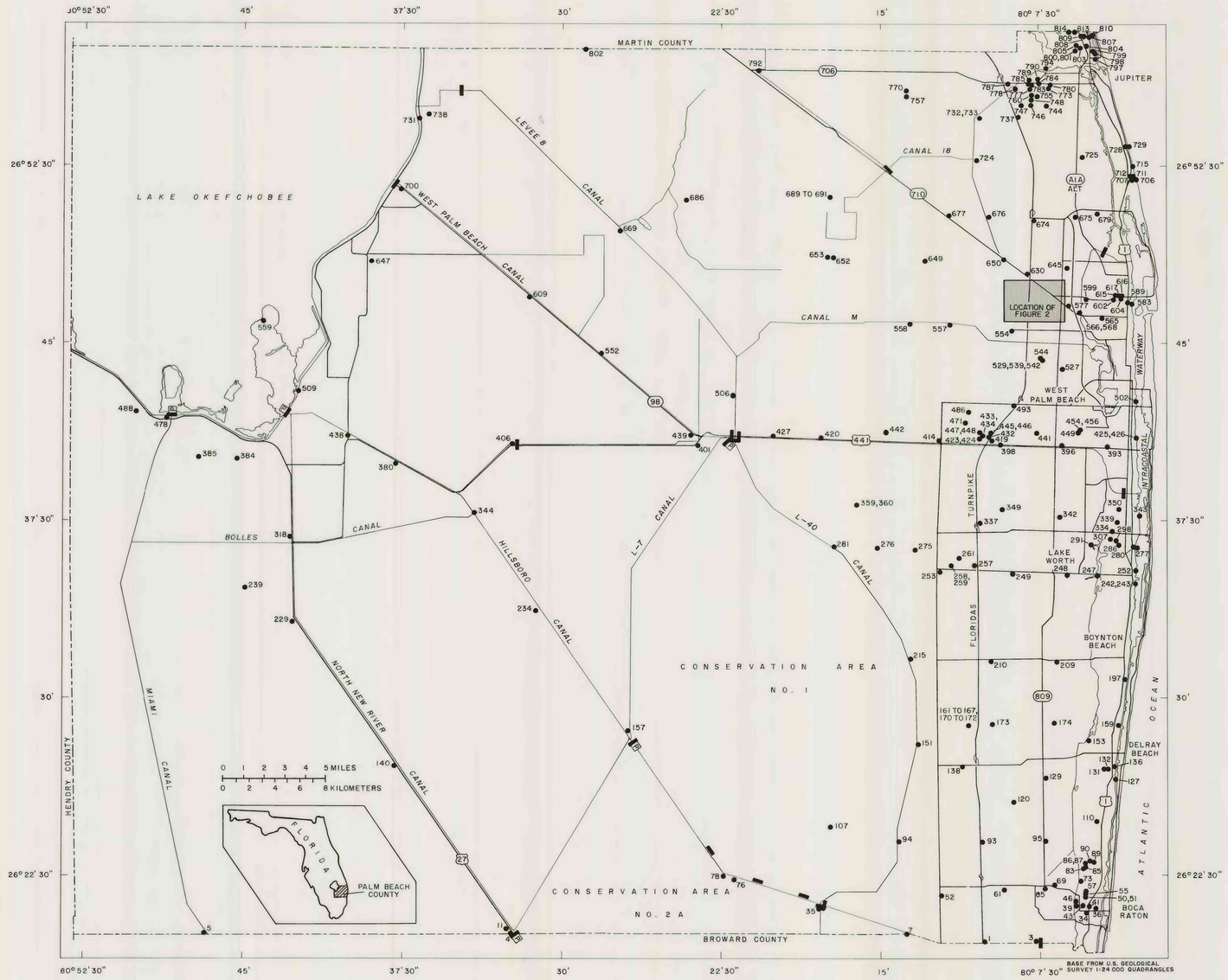

Figure 1.—Location of selected geologic and geophysical data sites in Palm Beach County, Florida.

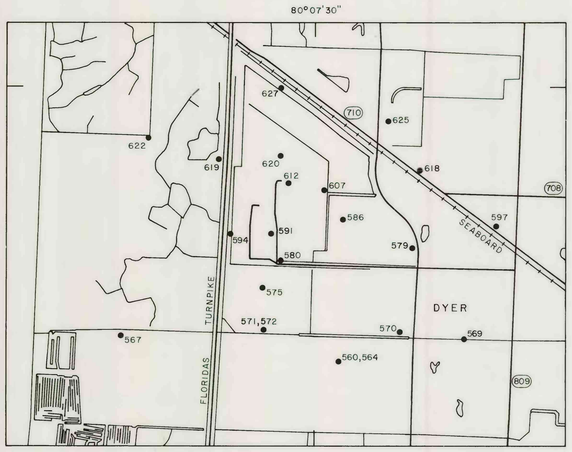

Figure 2.—Detailed view of selected area in figure 1.

THIS SCALE FOR FIGURE 2

0 — 1 MILE

0 — 1 KILOMETER

EXPLANATION

- 107 ● WELL -- location and map number.
- ▌ SURFACE-WATER CONTROL STRUCTURE.
- P SURFACE-WATER CONTROL STRUCTURE--and pump station.

Table 1.—*Index of types of data for selected wells in Palm Beach County, Florida.*

AGENCY NUMBER	MAP NUMBER	SITE IDENTIFICATION NUMBER	TYPE OF DATA 1/
PB- 39	524	264535080411501	Q
PB- 85	313	263652080313801	W
PB- 93	359	263711080405001	Q
PB- 94	360	263715080404001	Q
PB- 95	259	263600080361001	CQ
PB- 96	131	263707080401501	Q
PB- 97	132	263708080401701	C
PB- 99	382	264803080333501	W
PB- 107	349	263630080332001	Q
PB- 108A	448	264830080411501	Q
PB- 110	740	265445080214102	Q
PB- 110A	373	264826080332001	Q
PB- 111	246	263503080445701	Q
PB- 113	11	263020080313401	Q
PB- 116	157	262841080265401	Q
PB- 117	306	264250080272001	Q
PB- 118	669	264950080372001	G
PB- 119	309	263500080422001	Q
PB- 120	185	264015080271601	Q
PB- 121	364	263725080341001	G
PB- 126	518	263654080425601	G
PB- 126	357	263630080420501	Q
PB- 137	329	263300080424001	G
PB- 138	364	263725080341001	G
PB- 139	334	263450080311001	CQ
PB- 140	201	264045080313001	Q
PB- 141	414	264050080122001	Q
PB- 142	78	263350080271001	Q
PB- 143	107	263440080171001	CQ
PB- 144	138	265440080362001	Q
PB- 145	159	265500080362001	Q
PB- 146	159	263000080420401	Q
PB- 147	488	264210080500001	CQ
PB- 148	13	263130080471701	Q
PB- 149	115	262500080463701	Q
PB- 150	303	263320080463501	Q
PB- 151	303	263320080463501	Q
PB- 200	148	264030080462002	Q
PB- 201	512	264300080463201	Q
PB- 202	310	263030080421001	Q
PB- 203	380	264005080375001	Q
PB- 205	469	264337080462701	Q
PB- 206	469	264337080462701	Q
PB- 207	403	263630080413001	Q
PB- 209	399	263640080404101	Q
PB- 209A	300	263640080403902	Q
PB- 209B	301	263640080403903	Q
PB- 209C	302	263640080403904	Q
PB- 210	32	263430080353001	Q
PB- 214	127	263440080403701	G
PB- 216	168	264100080445001	Q
PB- 217	51	262440080352401	CQ
PB- 218	11	263150080352701	G
PB- 219	57	263540080352501	Q
PB- 220	83	263256080331001	G
PB- 221	85	263300080372001	G
PB- 222	86	263301080372101	G
PB- 246	77	263340080351001	Q
PB- 247	77	263340080351001	Q
PB- 251	59	263200080363001	Q
PB- 253	114	263500080331701	Q
PB- 254	117	263514080321401	Q
PB- 256	16	263606080372401	Q
PB- 257	121	263540080321701	Q
PB- 259	139	263210080415701	Q
PB- 260	124	262600080455901	Q
PB- 261	123	262600080455801	Q
PB- 262	128	262610080454901	Q
PB- 263	130	262703080455001	Q
PB- 264	167	262751080460001	Q
PB- 265	158	263840080435101	Q
PB- 266	15	263502080445002	Q
PB- 267	12	263500080445001	Q
PB- 268	16	263502080445201	Q
PB- 269	116	263410080443501	Q
PB- 270	116	263410080443501	Q
PB- 271	14	263726080371801	Q
PB- 272	142	263711080105501	Q
PB- 273	143	263711080105601	Q
PB- 275	163	263725080475001	Q
PB- 278	155	263721080481001	Q
PB- 279	155	263721080481001	Q
PB- 280	153	263500080471501	Q
PB- 281	152	263800080313501	Q
PB- 282	178	262910080465701	Q
PB- 284	179	263540080465001	Q
PB- 285	177	263910080465401	Q
PB- 286	177	263910080465401	Q
PB- 287	143	263500080474001	Q
PB- 288	180	263914080474001	Q
PB- 289	185	263000080472501	Q
PB- 290	187	263000080472801	Q
PB- 291	216	263151080471001	Q
PB- 292	216	263151080471001	Q
PB- 293	213	263140080474201	Q
PB- 294	180	263029080433001	Q
PB- 295	186	263000080433501	Q
PB- 296	183	263050080433001	Q
PB- 297	180	263050080433501	Q
PB- 298	184	263000080464001	Q
PB- 301	156	262830080432001	Q
PB- 302	254	263000080475001	W
PB- 303	250	263250080413001	Q
PB- 304	251	263256080413001	Q
PB- 305	238	263516080464701	Q
PB- 306	233	263340080465901	Q
PB- 307	236	263410080472001	Q
PB- 308	235	263415080472001	Q
PB- 309	273	263610080465001	Q
PB- 310	313	263640080464801	Q
PB- 311	313	263640080464801	Q
PB- 312	315	263725080465301	Q
PB- 313	335	263726080481601	Q
PB- 314	353	263755080465601	Q
PB- 315	335	263720080492601	Q
PB- 316	335	263720080492601	Q
PB- 317	335	263720080492601	Q
PB- 318	341	263736080472701	Q
PB- 321	324	263635080120501	Q
PB- 323	255	263640080123101	Q
PB- 324	334	263708080123101	Q
PB- 325	334	263708080123101	Q
PB- 328	379	263950080102201	Q
PB- 329	379	264040080102301	Q
PB- 330	128	263317080423401	Q
PB- 331	276	263240080123001	Q
PB- 332	277	263238080122301	Q
PB- 333	278	263240080122301	Q
PB- 334	212	263130080525501	Q
PB- 335	207	263130080464101	Q
PB- 336A	186	263032080402001	Q
PB- 337	211	263040080123701	Q
PB- 338	222	263231080463201	Q
PB- 339	223	263230080463501	Q
PB- 341	231	263230080463501	Q
PB- 342	339	263500080463401	Q
PB- 343	187	263074080453601	Q
PB- 344	277	263610080453001	Q
PB- 345	371	263835080463001	Q
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PB- 347	380	264030080471501	Q
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PB- 350	390	264345080464001	Q
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PB- 354	403	264017080125101	Q
PB- 355	406	264048080102701	Q
PB- 357	408	264115080074601	Q
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PB- 359	400	264045080094501	Q
PB- 360	400	264045080094501	Q
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PB- 362	389	264033080465002	Q
PB- 363	467	265035080074301	WQ
PB- 364	485	265260080073101	Q
PB- 365	365	263608080525101	Q
PB- 366	365	263608080525101	WQ
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PB- 369	31	262103080525501	Q
PB- 370	633	264500080114101	Q
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PB- 374	337	263630080332001	Q
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PB- 376	710	265341080404001	Q
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PB- 403	317	263310080233801	Q
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PB- 448	75	262320080050401	Q
PB- 449	84	262320080050401	Q
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PB- 451	83	262320080050401	Q
PB- 452	84	262320080050401	Q
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PB- 455	426	264530080020402	CQ
PB- 456	426	264530080020402	CQ
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PB- 484	104	262530080071801	Q
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PB- 491	39	263137080053001	WQ
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PB- 493	58	263320080053301	Q
PB- 494	47	263137080053501	Q
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PB- 496	47	263137080053501	Q
PB- 497	48	263137080053501	Q
PB- 498	47	263137080053501	Q
PB- 499	47	263137080053501	Q
PB- 500	36	263143080054001	Q
PB- 501R	28	263053080054301	W
PB- 502	44	263040080063401	Q
PB- 503	716	263340080073101	W
PB- 504	479	264153080063201	Q
PB- 505	479	264153080063201	Q
PB- 506	479	264153080063201	Q
PB- 507	480	264155080063201	Q
PB- 508	480	264155080063201	Q
PB- 509	480	264155080063201	Q
PB- 510	722	265341080373301	Q
PB- 511	722	265341080373301	Q
PB- 512	722	265341080373301	Q
PB- 513	722	265341080373301	Q
PB- 514	722	265341080373301	Q
PB- 515	722	265341080373301	Q
PB- 516	722	265341080373301	Q
PB- 517	722	265341080373301	Q
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PB- 519	722	265341080373301	Q
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PB- 543	78	262530080055401	Q
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PB- 545	812	263812080063101	Q
PB- 546	812	263812080063101	Q
PB- 547	34	263140080054801	Q
PB- 548	34	263140080054801	Q
PB- 549	34	263140080054801	Q
PB- 550	34	263140080054801	Q
PB- 551	34	263140080054801	Q
PB- 552	34	263140080054801	Q
PB- 553	34	263140080054801	Q
PB- 554	34	263140080054801	Q
PB- 555	41	262110080055301	WQ
PB- 556	715	265341080373301	W
PB- 557	715	265341080373301	W Q
PB- 558	715	265341080373301	W Q
PB- 559	715	265341080373301	W Q
PB- 560	715	265341080373301	W Q
PB- 561	715	265341080373301	W Q
PB- 562	715	265341080373301	W Q
PB- 563	715	265341080373301	W Q
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